

Observing Planetary Nebulae and SuperNova Remnants

Observing Planetary Nebulae and Supernova Remnants

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Other books by Alvin H. Huey

Hickson Group Observer's Guide, 2nd edition

The Abell Planetary Observer's Guide, 2nd edition

Observing the Arp Peculiar Galaxies

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The Local Group

Selected Small Galaxy Groups

Selected Galaxy Trios

Selected Shakhbazian Groups

Globular Clusters (above -50° dec)

Observing Planetary Nebulae and SuperNovae Remnants

Observing the Abell Galaxy Clusters

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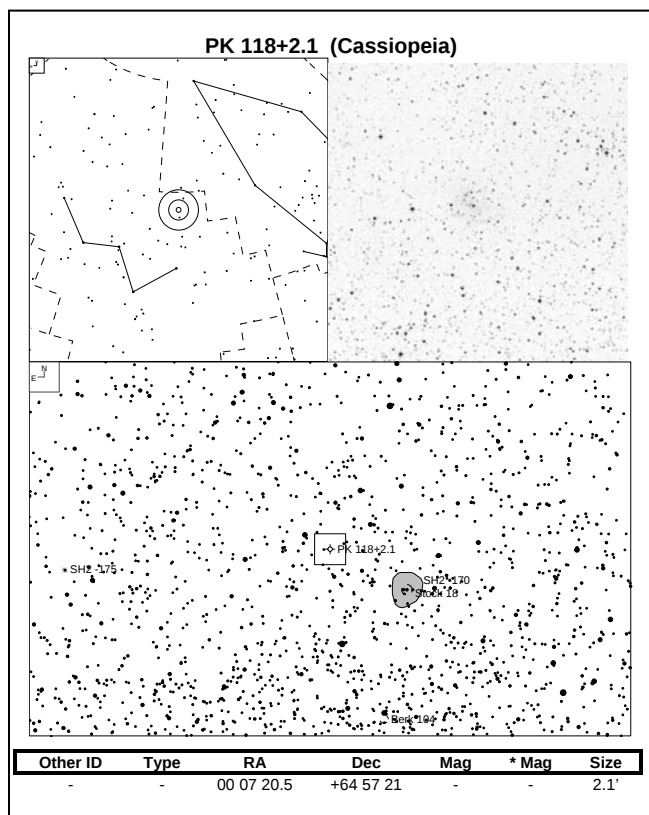
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HOW TO USE THE ATLAS



On the upper left, the naked eye field with the TelRad™ recticle is superimposed on the Planetary Nebula. The bottom chart is a finder field 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 11.0, unless noted.

On the upper right, the negative DSS image is provided. The field is generally 15.0' square unless noted. The field size of the image is overlaid on the finder chart.

The images are oriented north pointed up and west to the right. A table is provided below giving some basic information of the Planetary Nebula.

Several indices are provided at the end with three sort orders.

1. By constellation and RA (the order of this book).
2. By Object name
3. By Astronomical League Requirements (not including Abell PNe's)

The table provided at the bottom of the page includes the following data;

Other ID – Other ID

Type –

Type	Description
1	Stellar
2a	Smooth disc – brighter towards the center
2b	Smooth disc – uniform brightness
2c	Smooth disc – traces of ring structure
3a	Irregular disc – very irregular brightness distribution
3b	Irregular disc – traces of ring structure
4	Ring structure
5	Irregular form
6	Anomalous form

Complex structure may have two codes, such as 4 + 2

RA and Dec – Epoch 2000 celestial coordinates

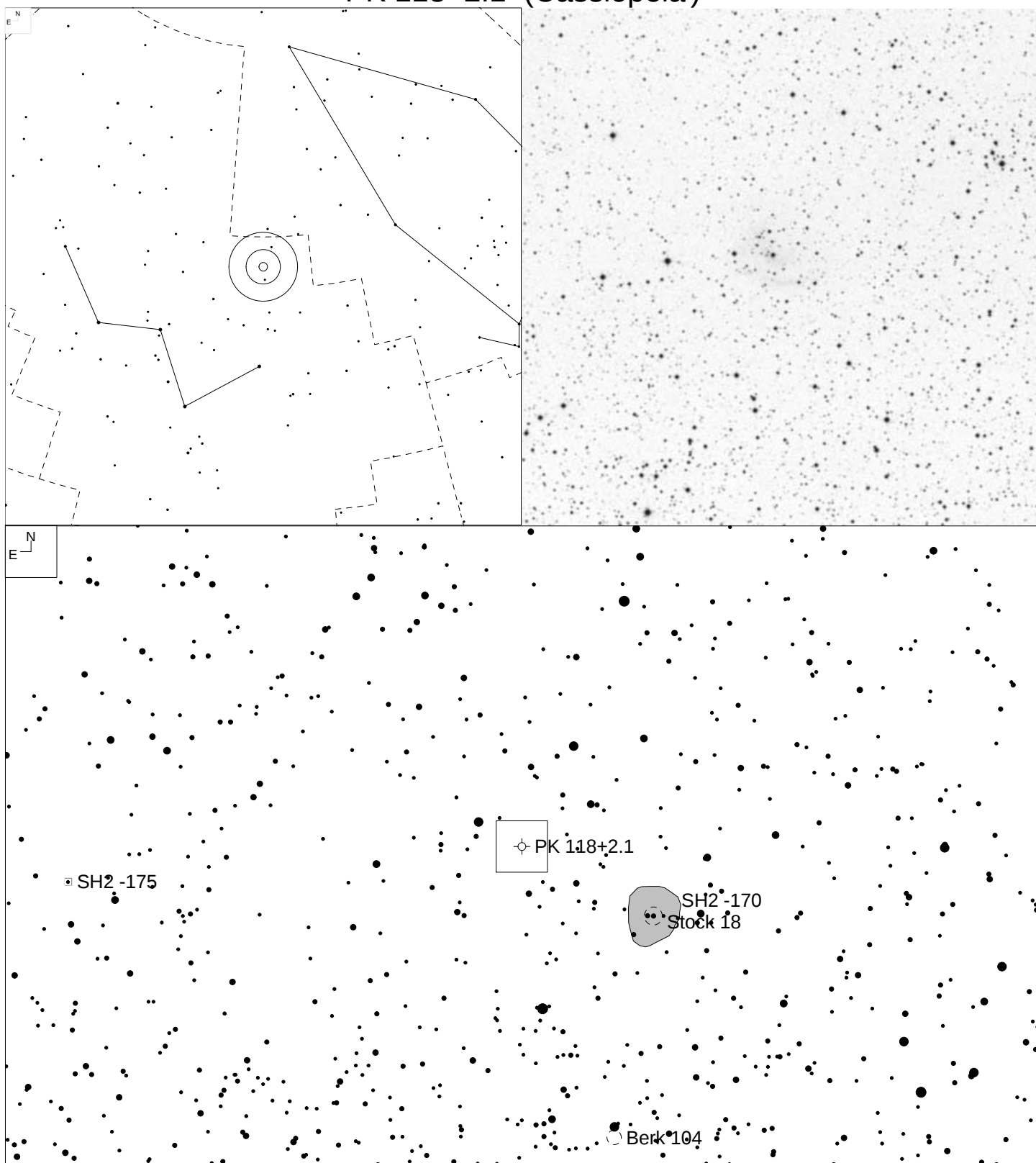
Mag – magnitude

***Mag** – Magnitude of the central star

Size – size of the object

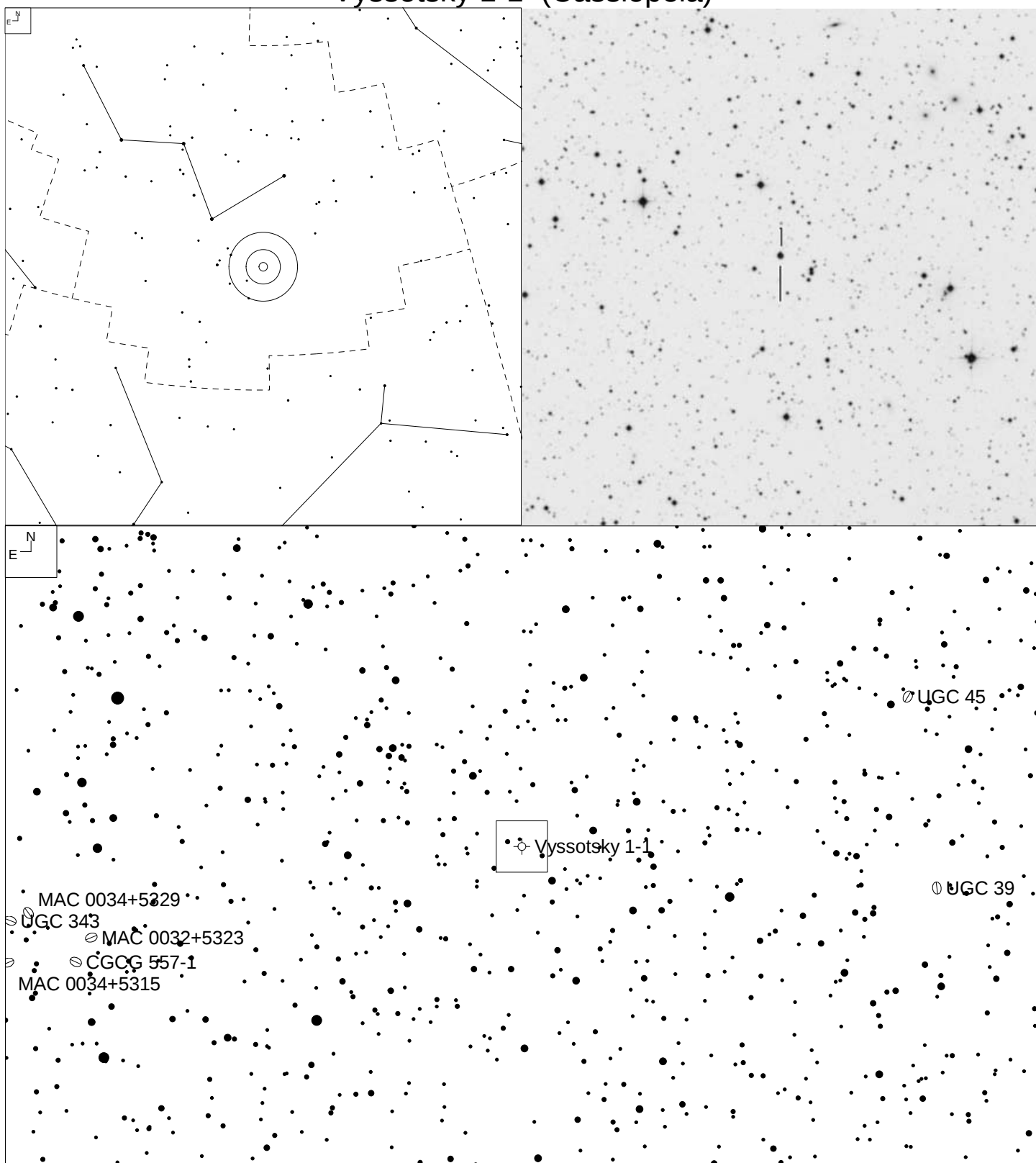
Planetary Nebulae and SuperNovae Remnants

PK 118+2.1 (Cassiopeia)



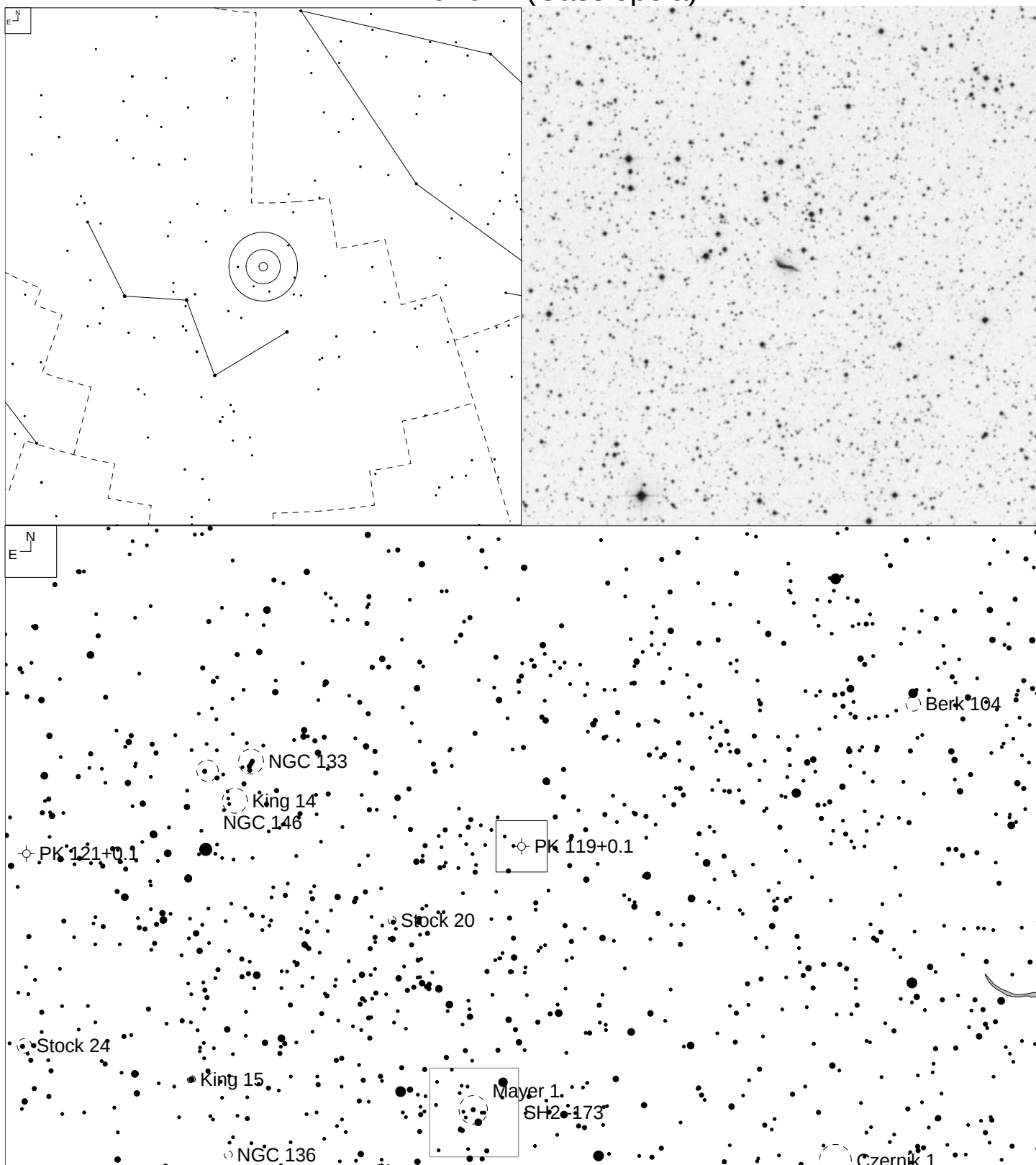
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	00 07 20.5	+64 57 21	-	-	2.1'

Vyssotsky 1-1 (Cassiopeia)



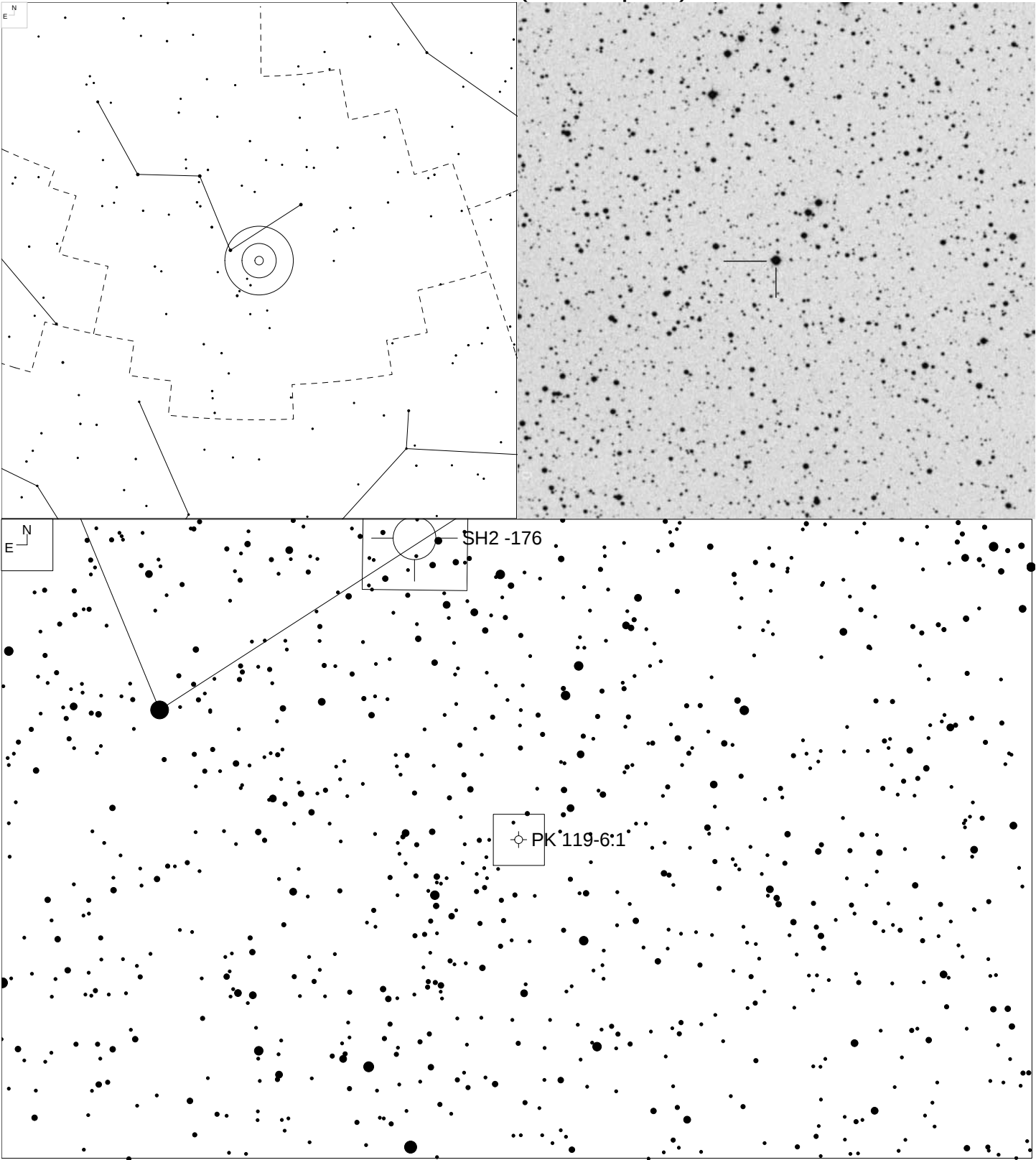
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 118-8.1	-	00 18 42.4	+53 52 18	12.6p	14.1	5.0"

PK 119+0.1 (Cassiopeia)



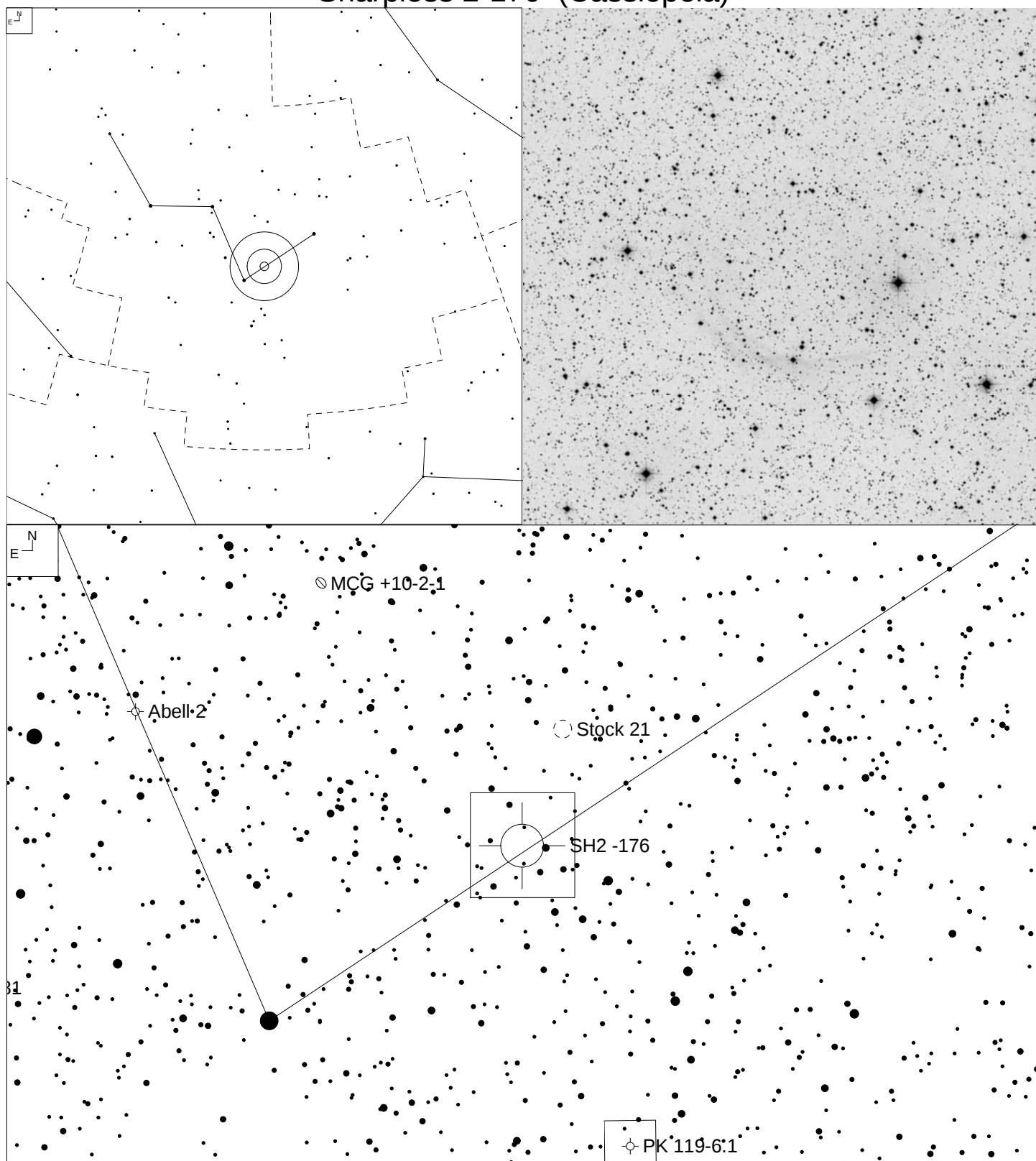
Other ID	Type	RA	Dec	Mag	* Mag	Size
BV 1	-	00 19 58.8	+62 59 01	15.6p 14.7v	22.3	50x20"

PK 119-6.1 (Cassiopeia)



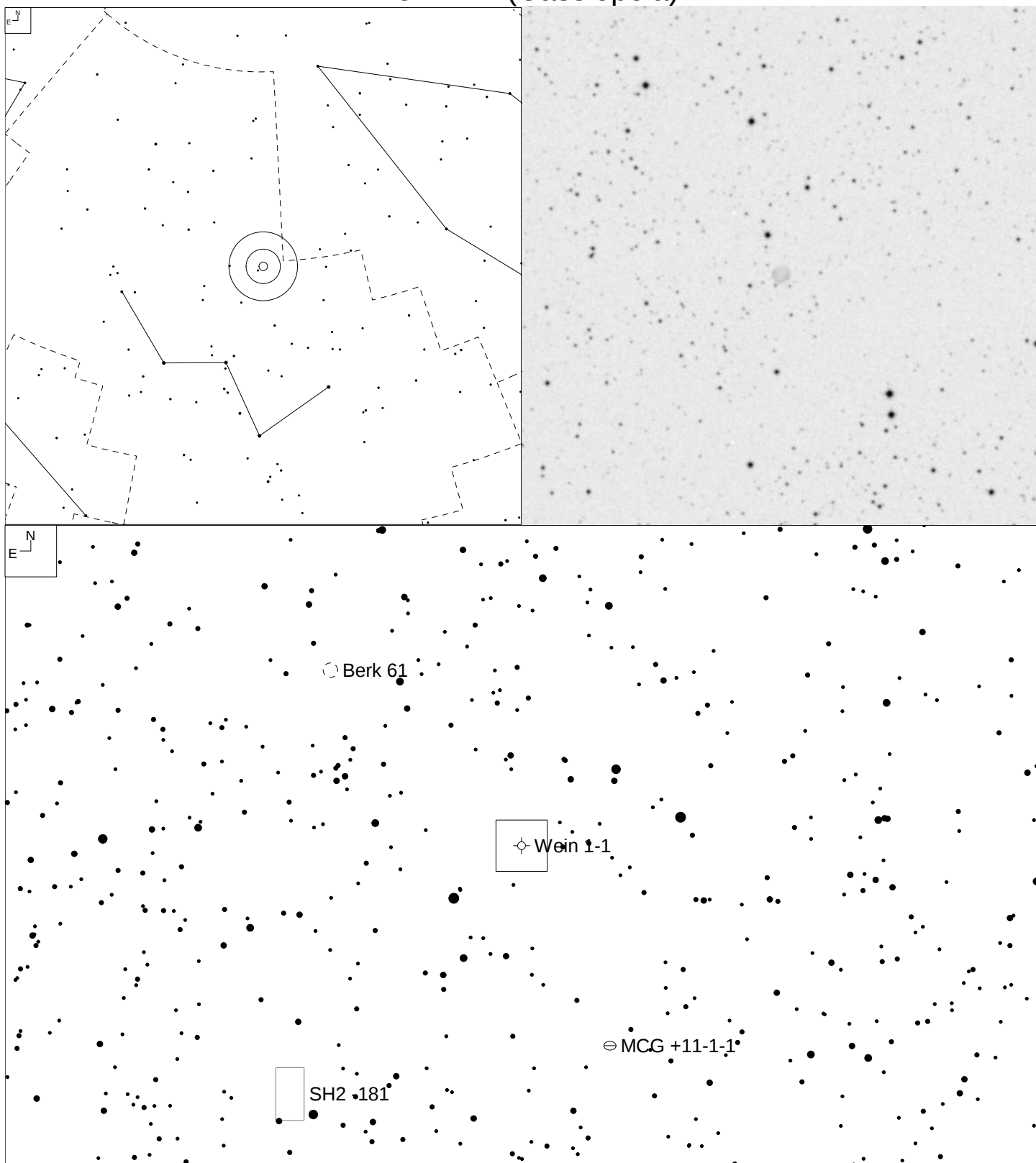
Other ID	Type	RA	Dec	Mag	* Mag	Size
Hu 1-1	2	00 28 15.7	+55 57 54	13.3p 12.3v	16.5	5"

Sharpless 2-176 (Cassiopeia)



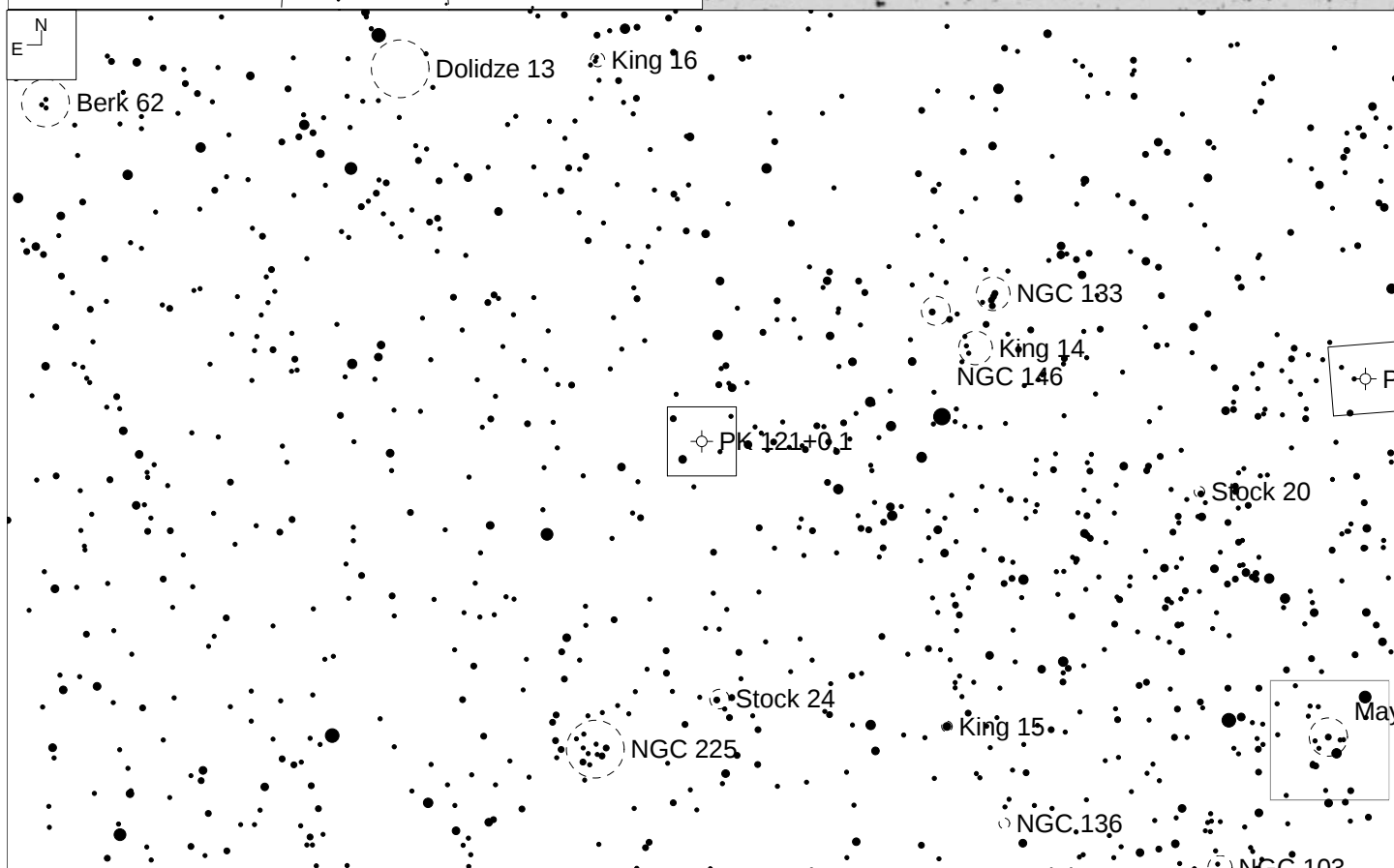
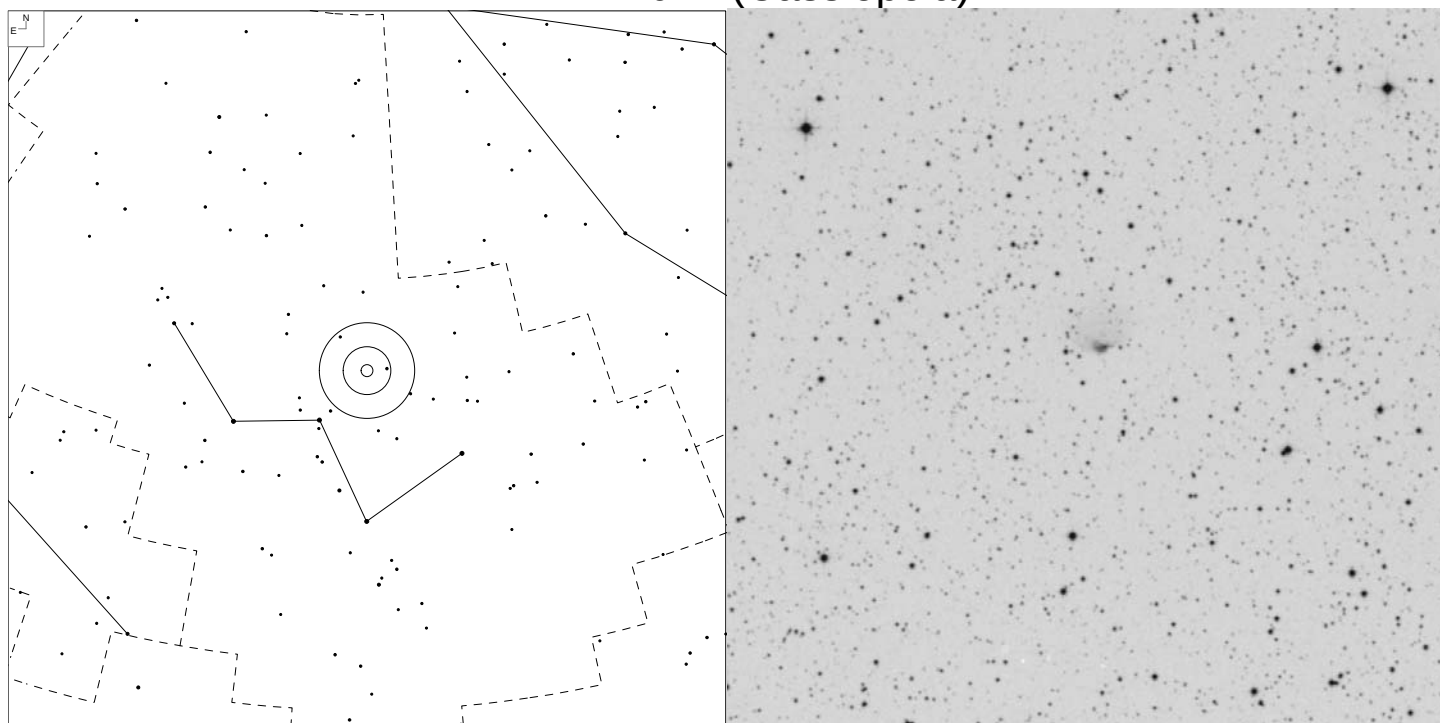
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 120-5.1	-	00 31 53.6	+57 22 33	-	18.1	12.0'

Wein 1-1 (Cassiopeia)



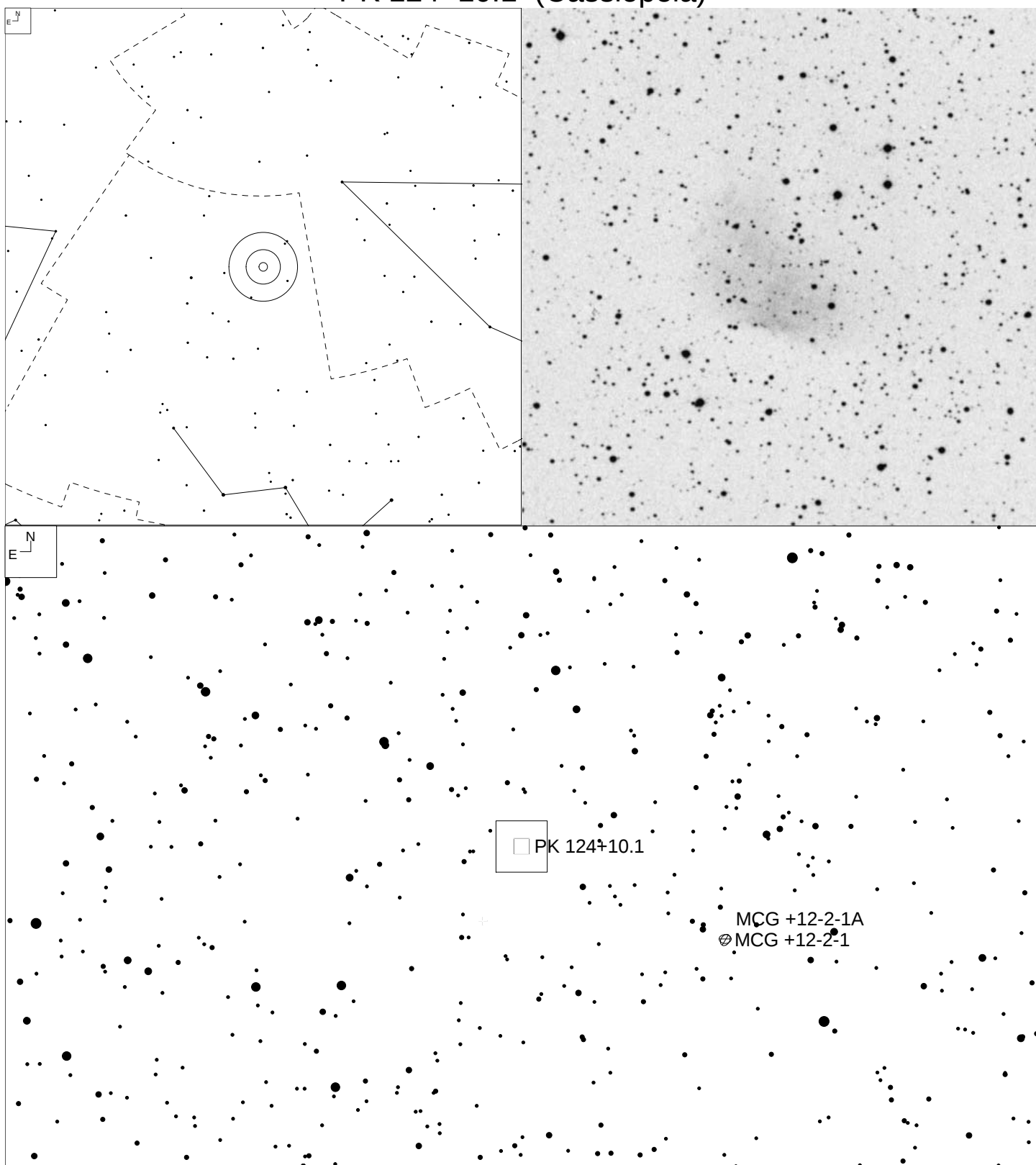
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 121+3.1	-	00 38 54.6	+66 23 47	21.9p	21.0	24"

PK 121+0.1 (Cassiopeia)



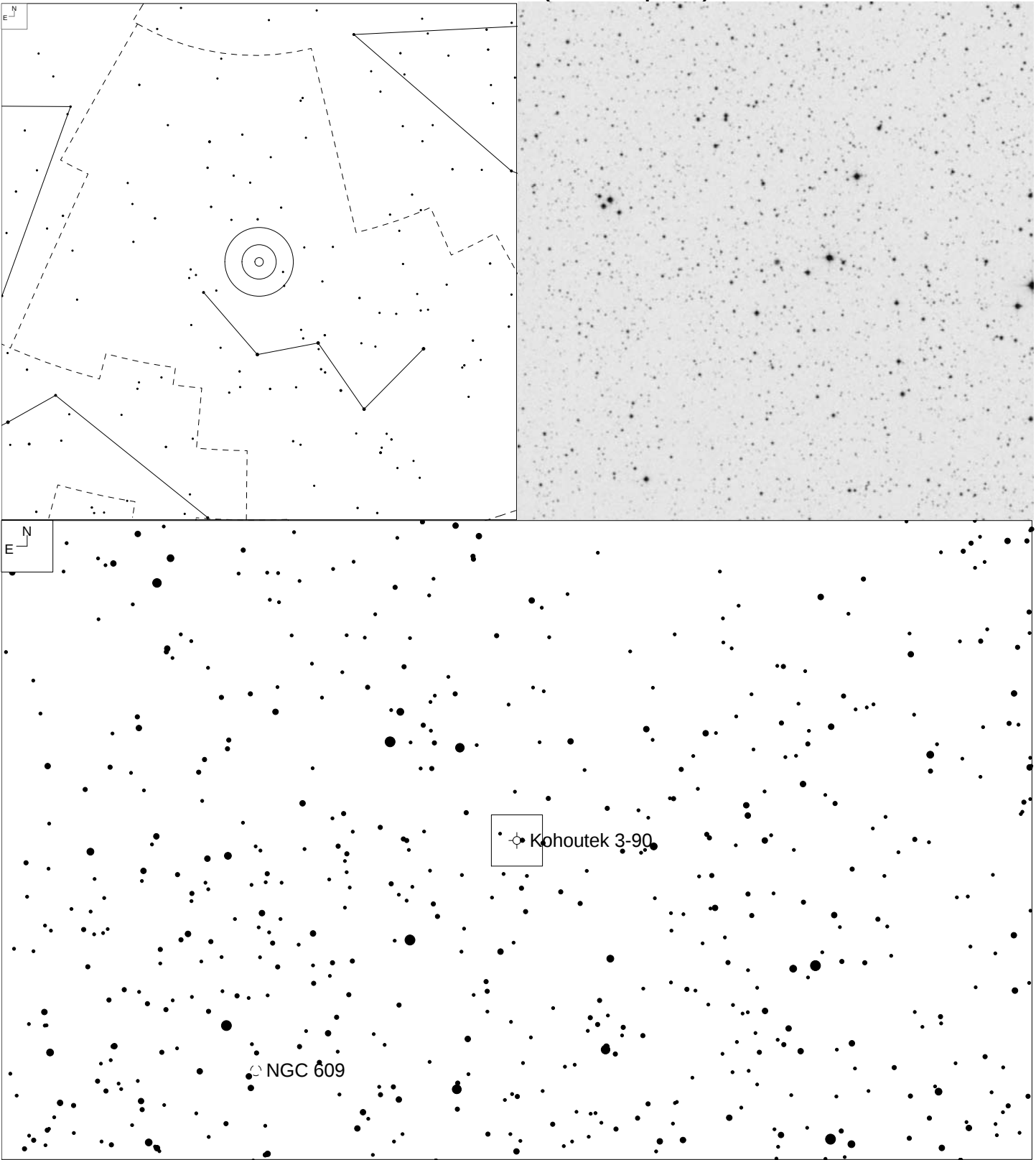
Other ID	Type	RA	Dec	Mag	* Mag	Size
BV 2	-	00 40 21.6	+62 51 25	15.4p 15.4v	-	40"

PK 124+10.1 (Cassiopeia)



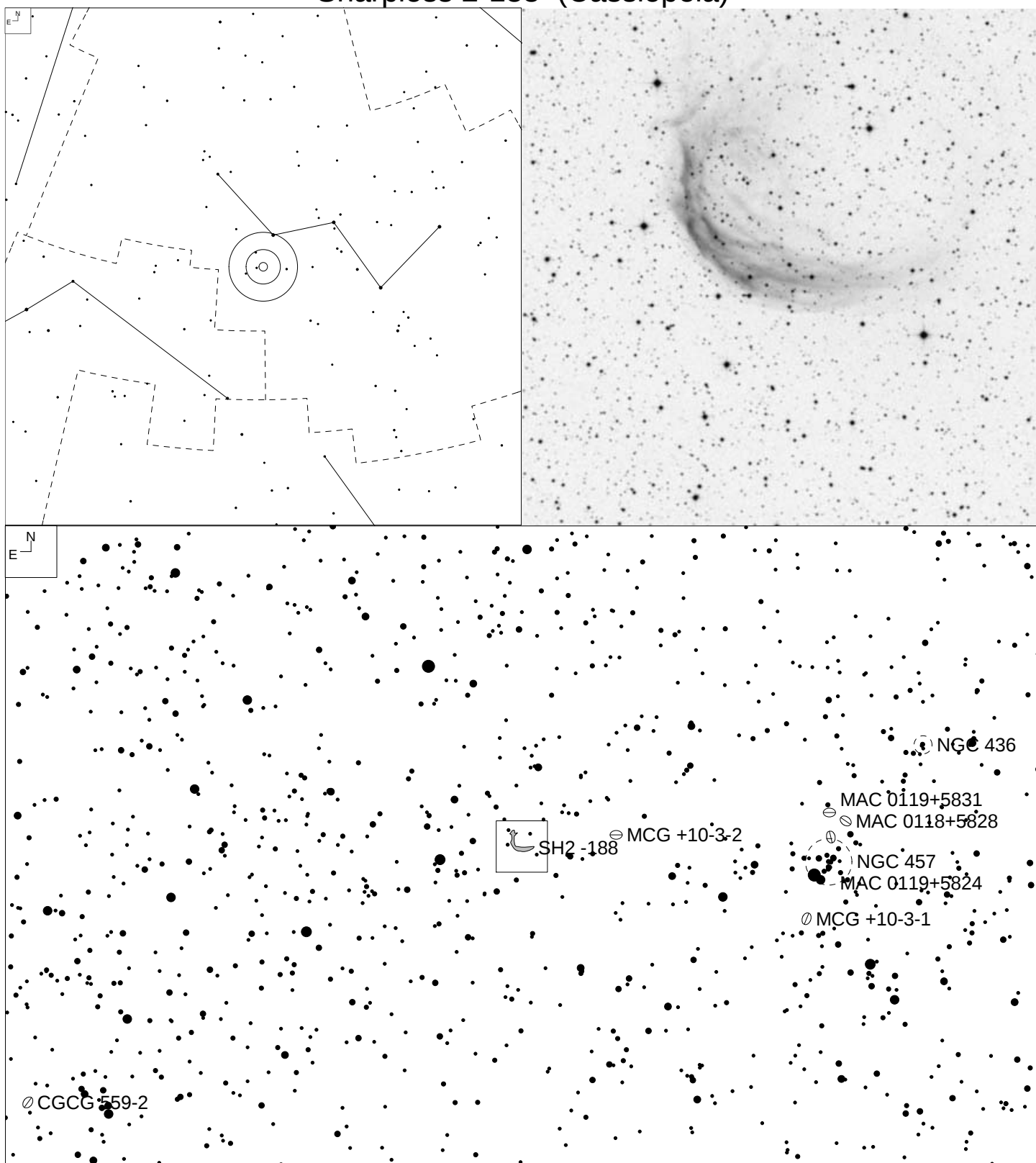
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	SNR	01 07 12.9	+73 32 57	-	16.4	4.5'

Kohoutek 3-90 (Cassiopeia)



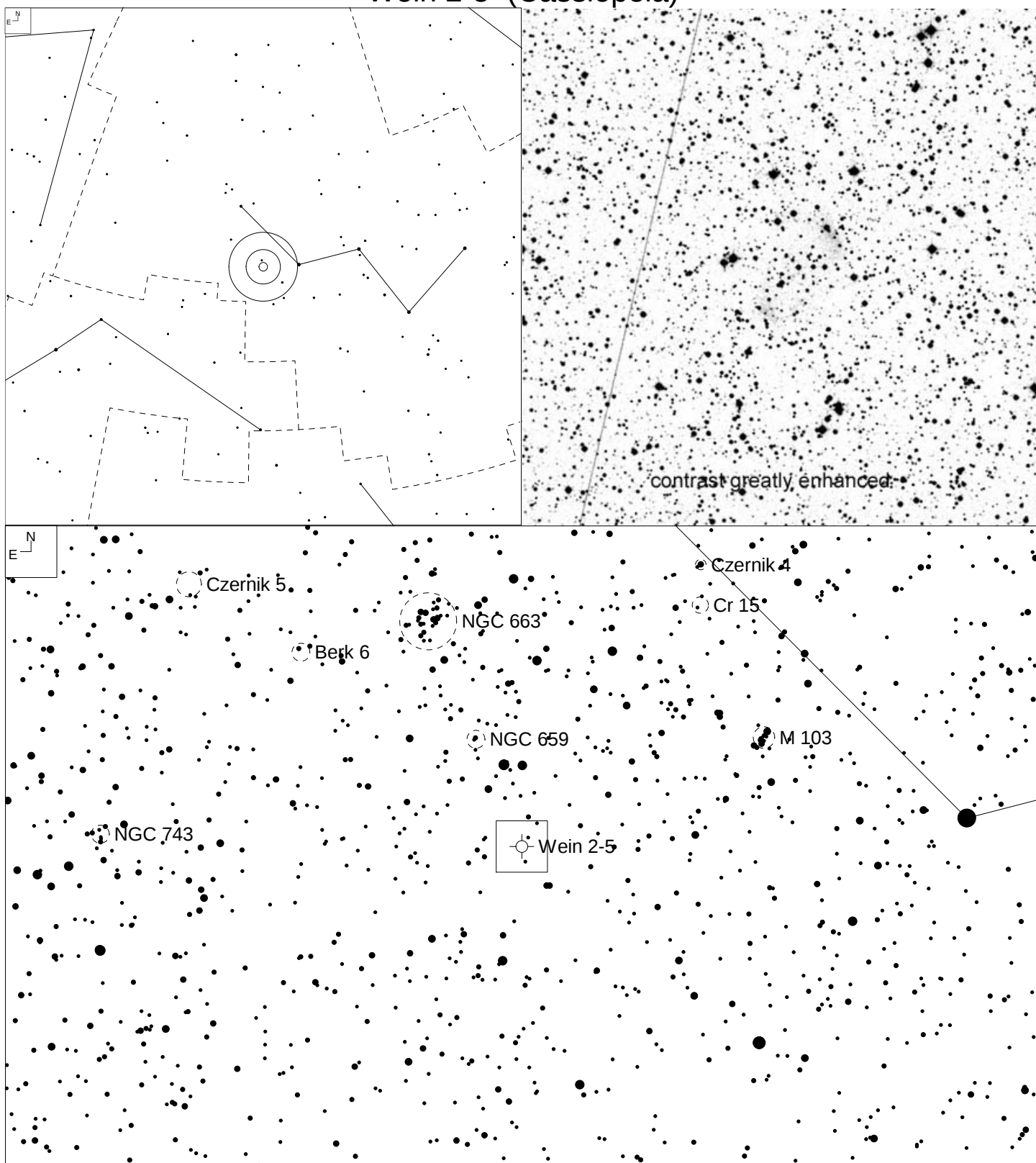
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 126+3.1	-	01 24 58.9	+65 38 33	16.0p	-	9"

Sharpless 2-188 (Cassiopeia)



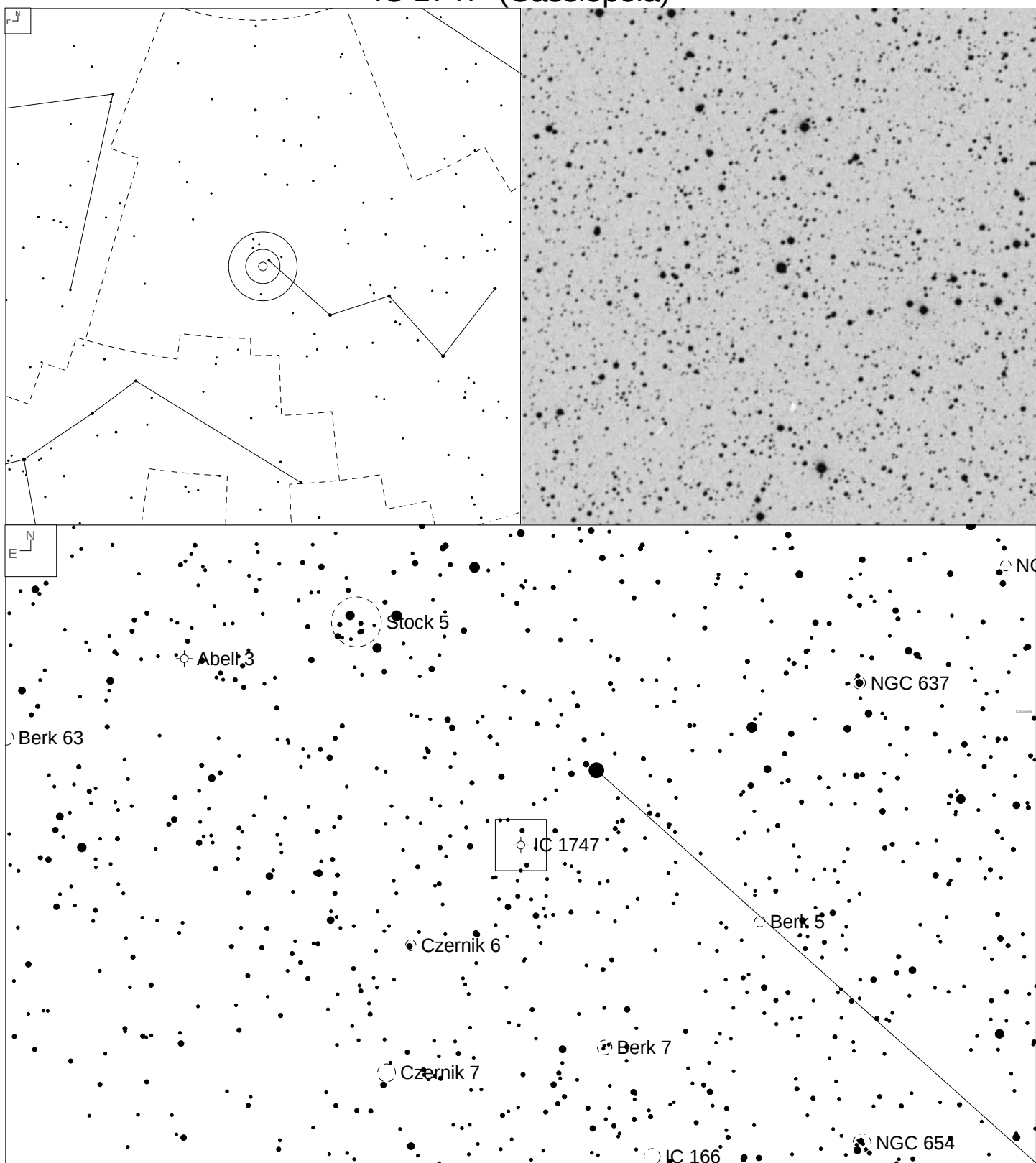
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 128-4.1	-	01 30 30.0	+58 23 30	-	17.4	9.0'

Wein 2-5 (Cassiopeia)



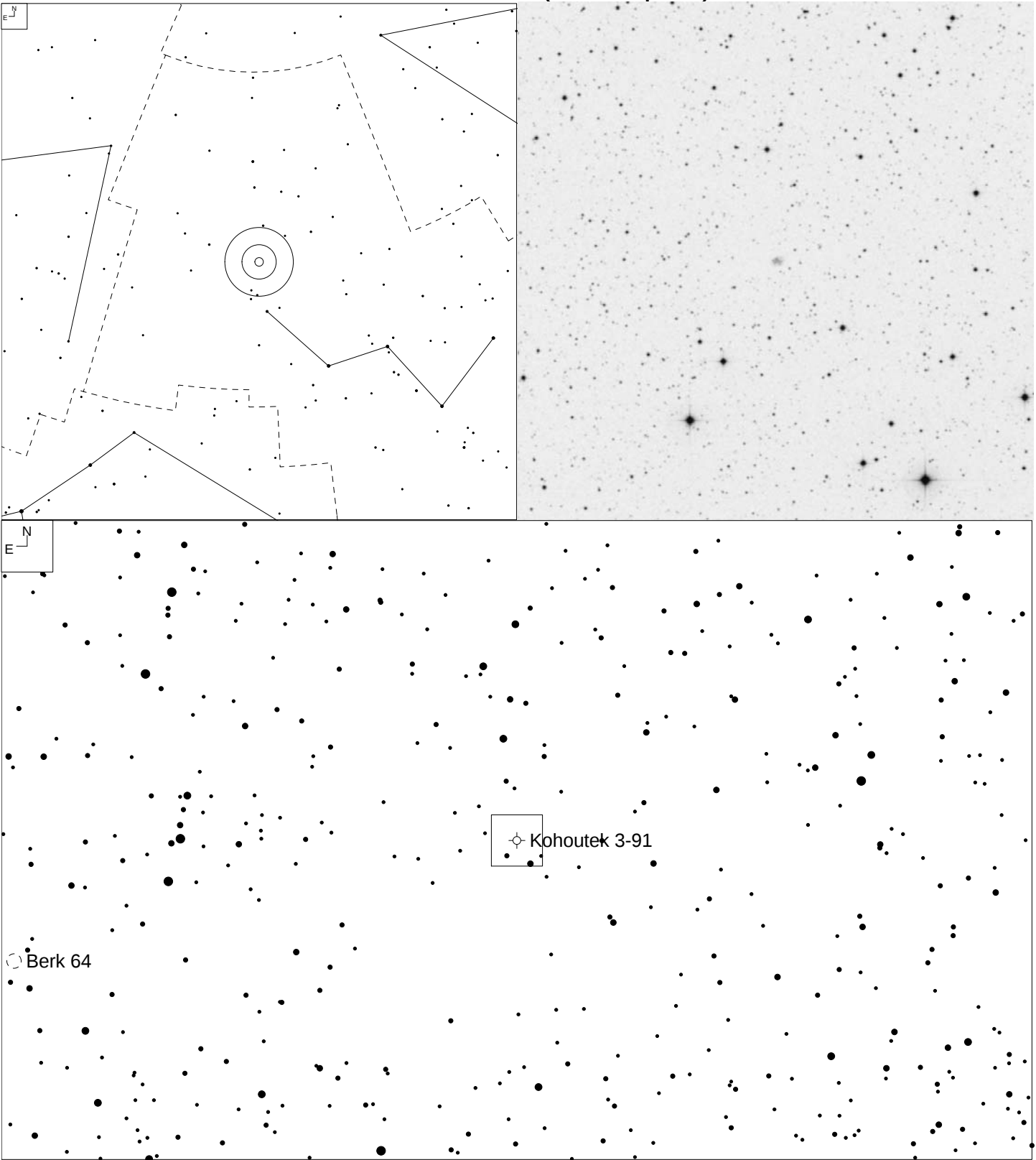
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 129-2.1	-	01 42 38.2	+60 10 06	-	-	3.3'

IC 1747 (Cassiopeia)



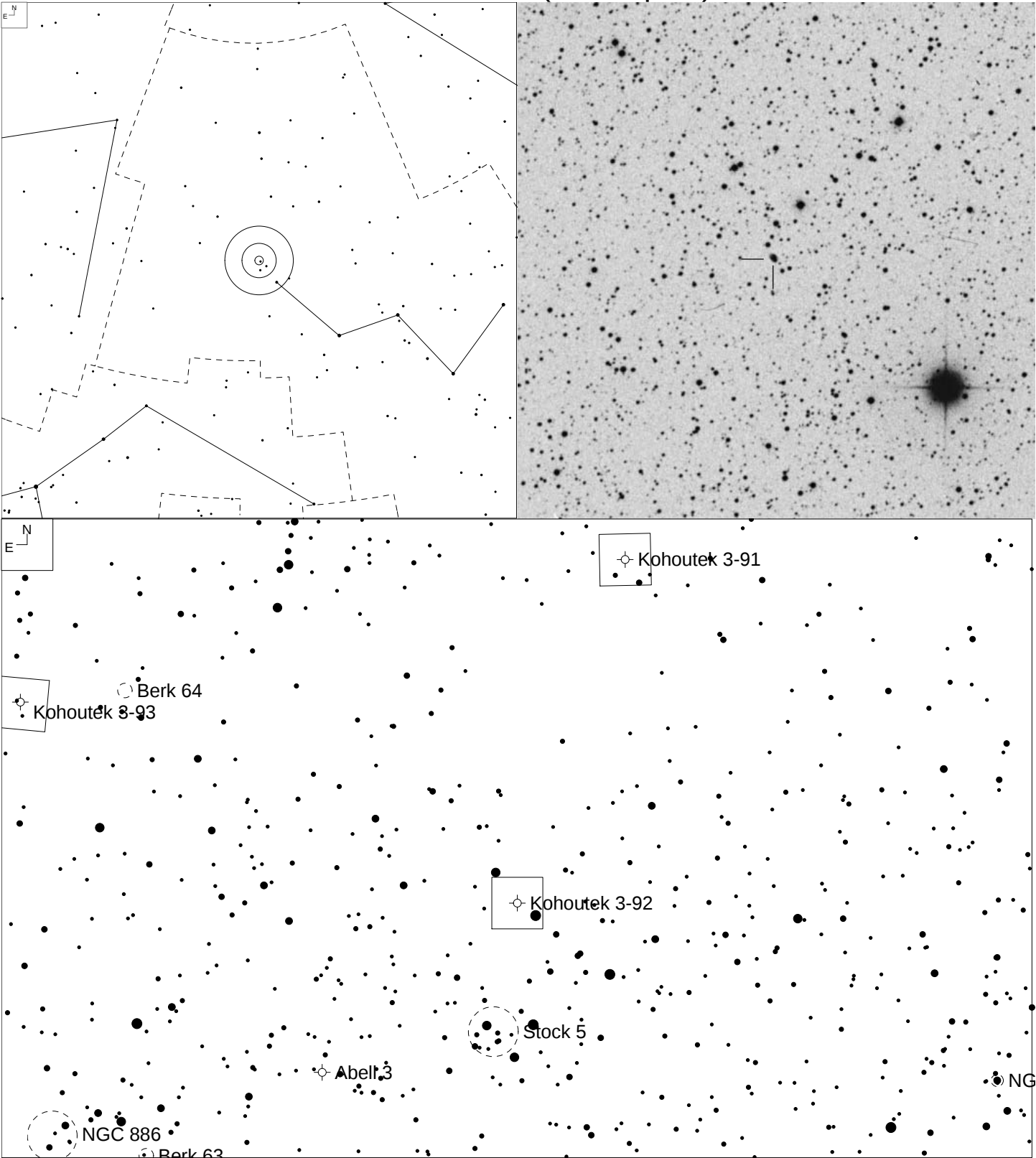
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 130+1.1	3b	01 57 36.0	+63 19 17	13.6p 12.0v	15.8	13"

Kohoutek 3-91 (Cassiopeia)



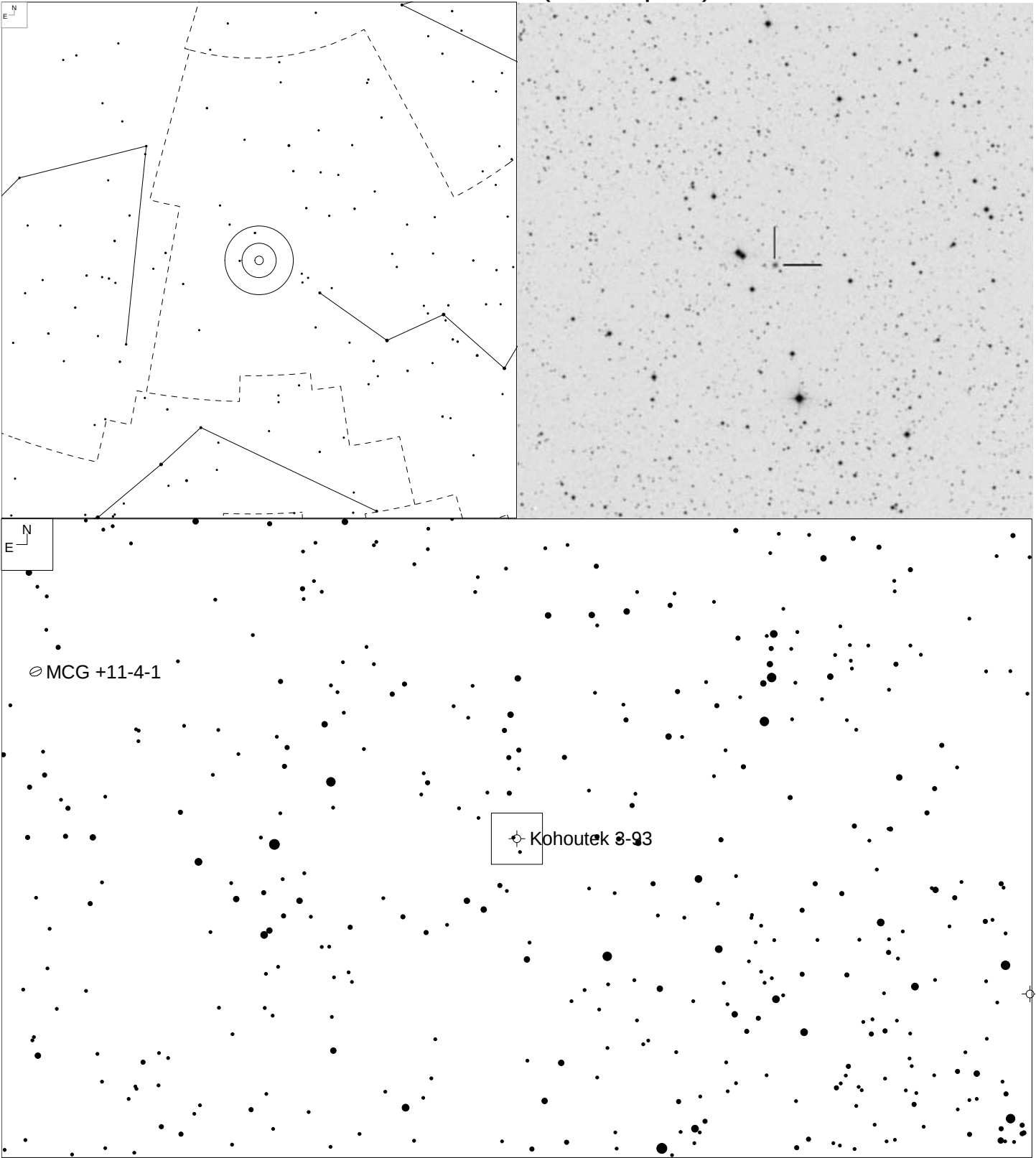
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 129+4.1	-	01 58 35.7	+66 33 58	20.9p	20.5	18"

Kohoutek 3-92 (Cassiopeia)



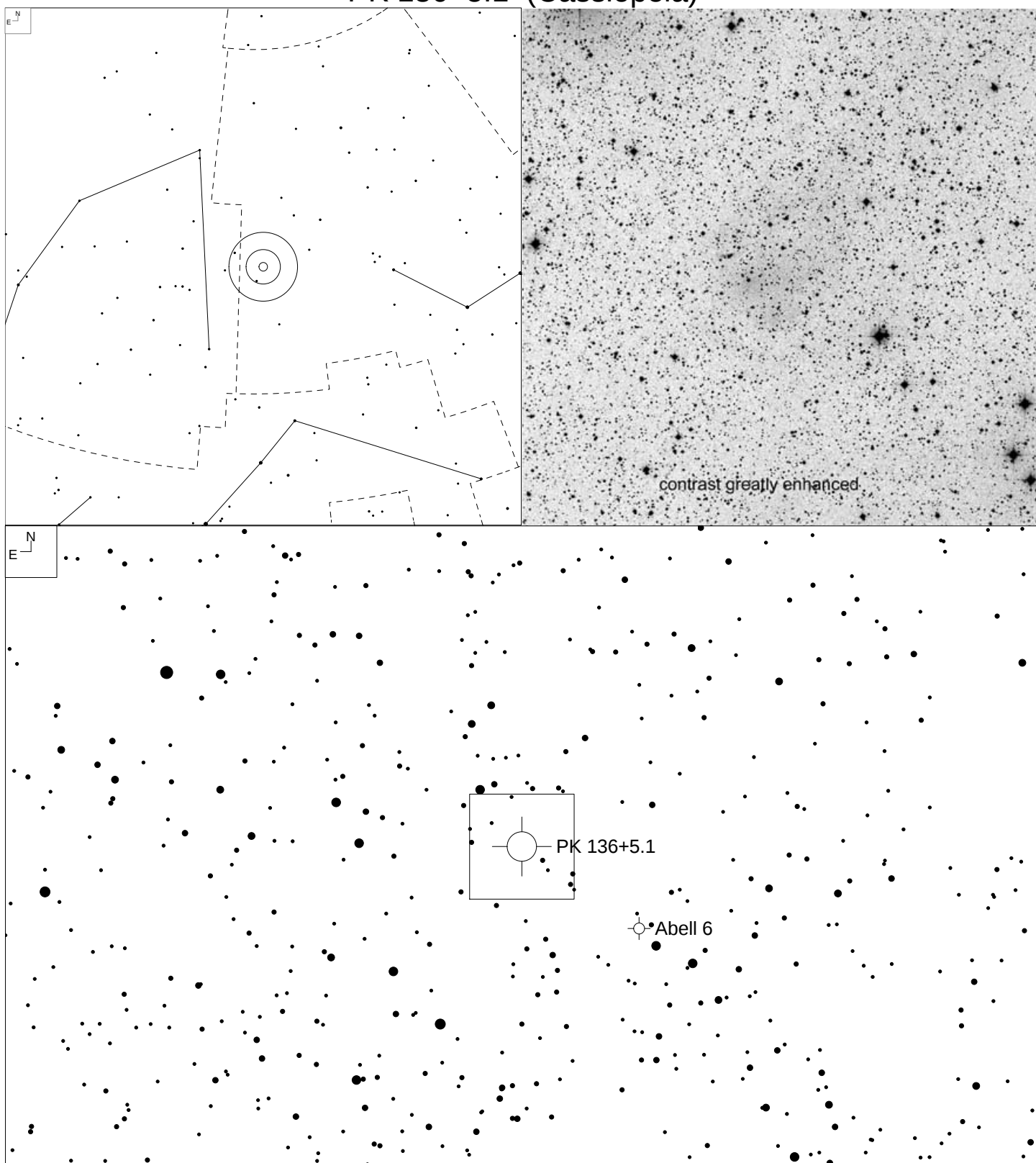
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 130+3.1	-	02 03 41.5	+64 57 36	16.7p	20.6	12"

Kohoutek 3-93 (Cassiopeia)



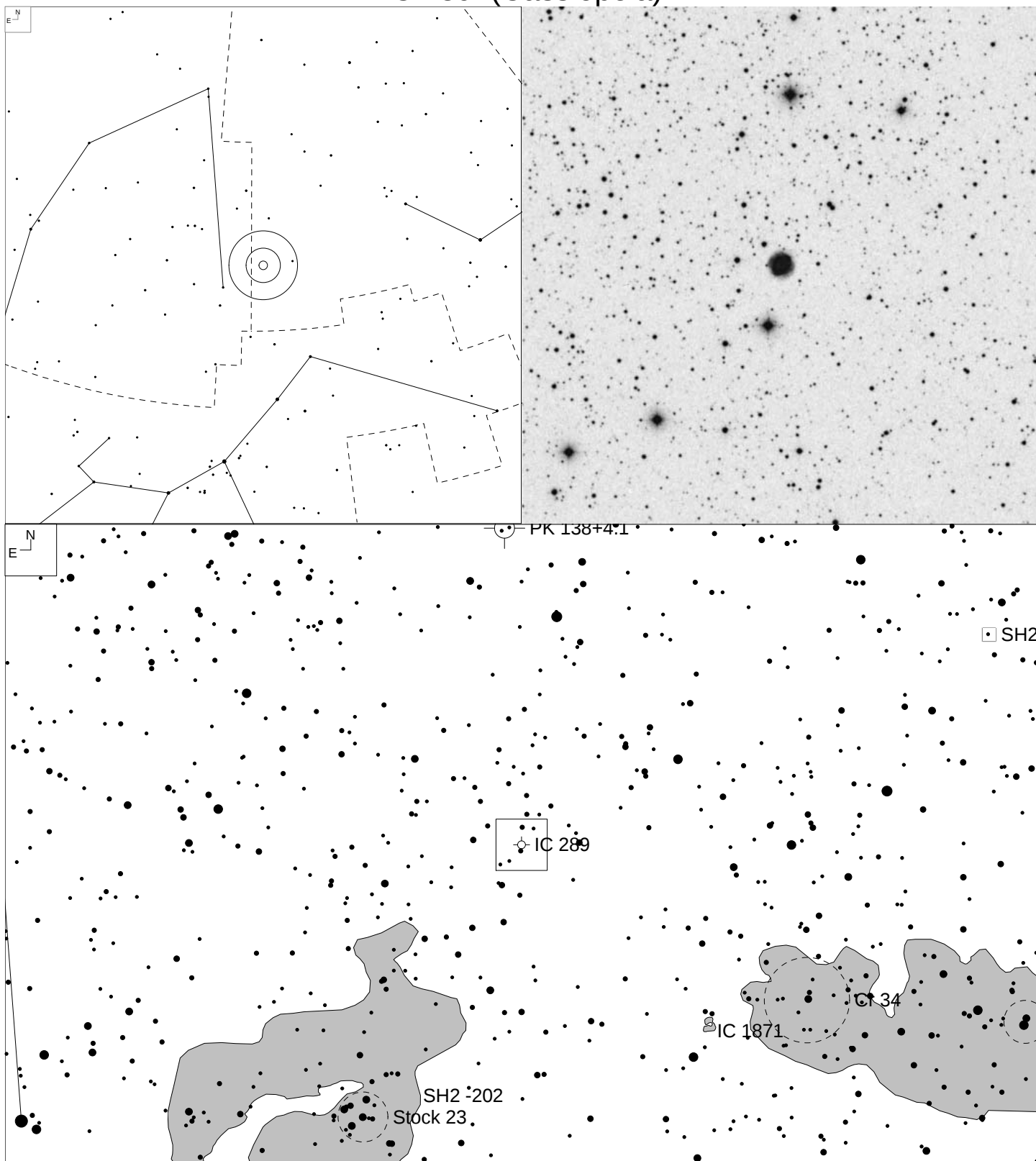
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 132+4.1	-	02 26 30.3	+65 47 50	17.6p	-	10"

PK 136+5.1 (Cassiopeia)



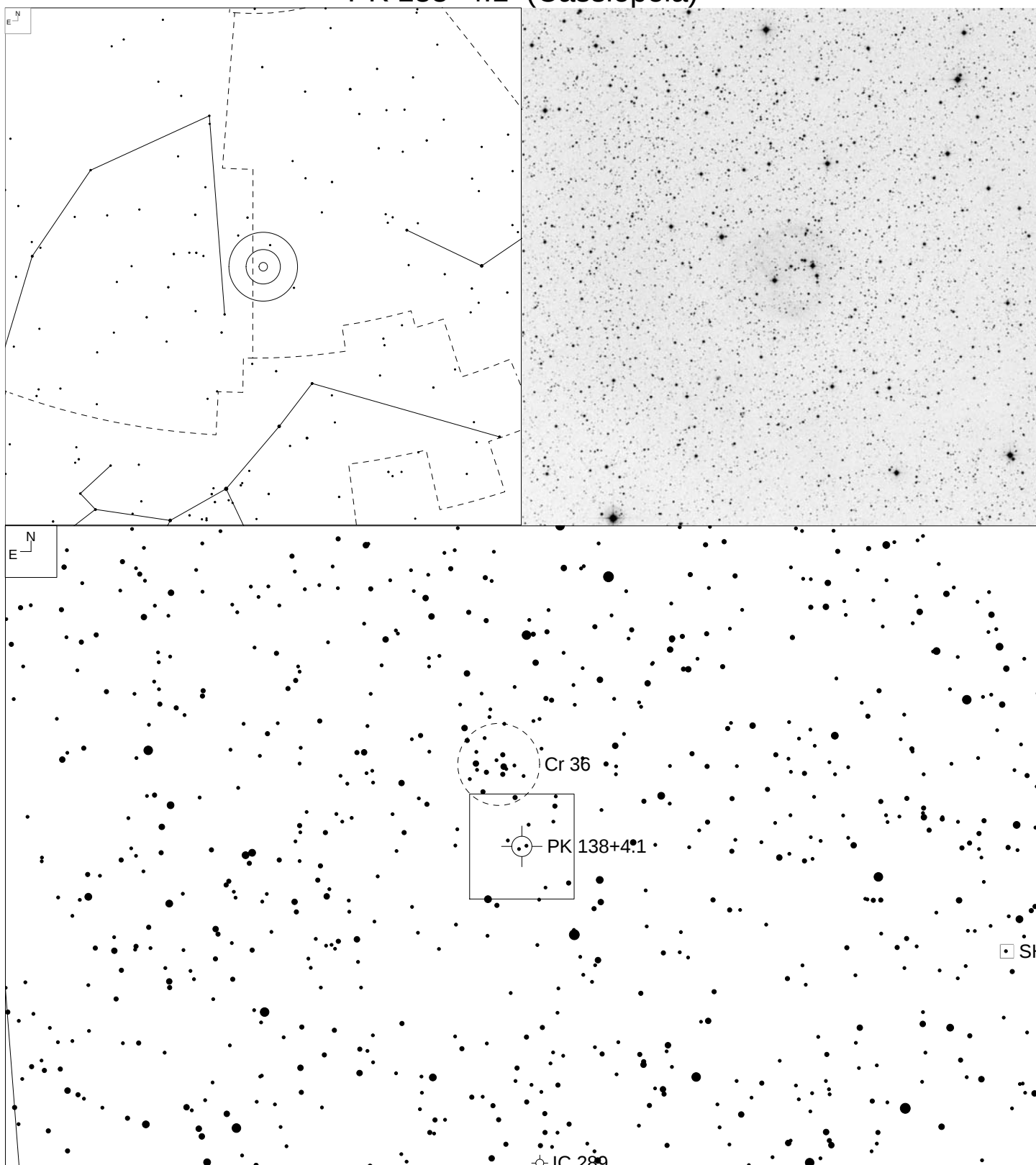
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	SNR?	03 03 48.8	+64 53 28	-	13.3	8.3'

IC 289 (Cassiopeia)



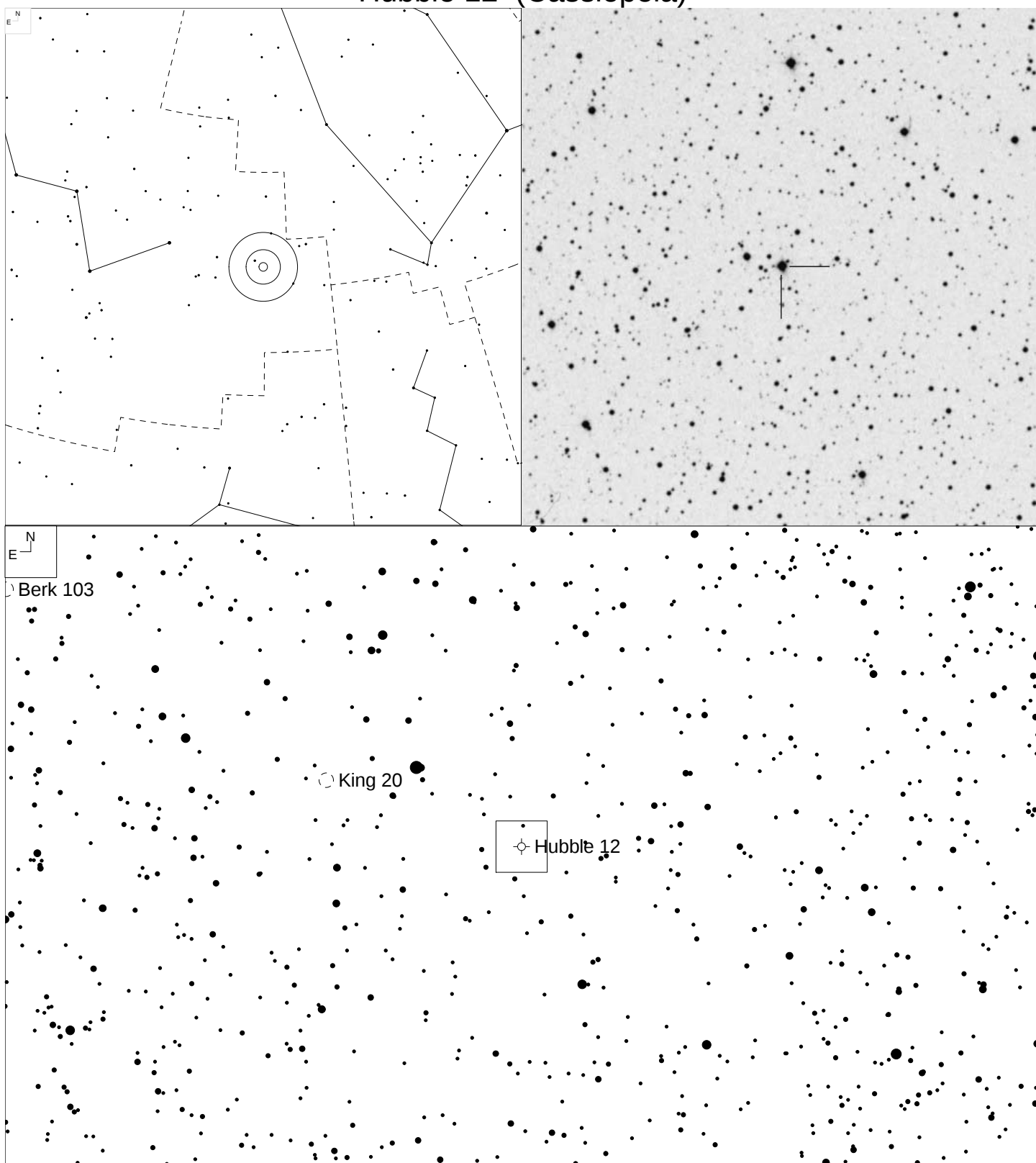
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 138+2.1	4+2	03 10 19.7	+61 19 01	12.3p 13.2v	16.8	45x30"

PK 138+4.1 (Cassiopeia)



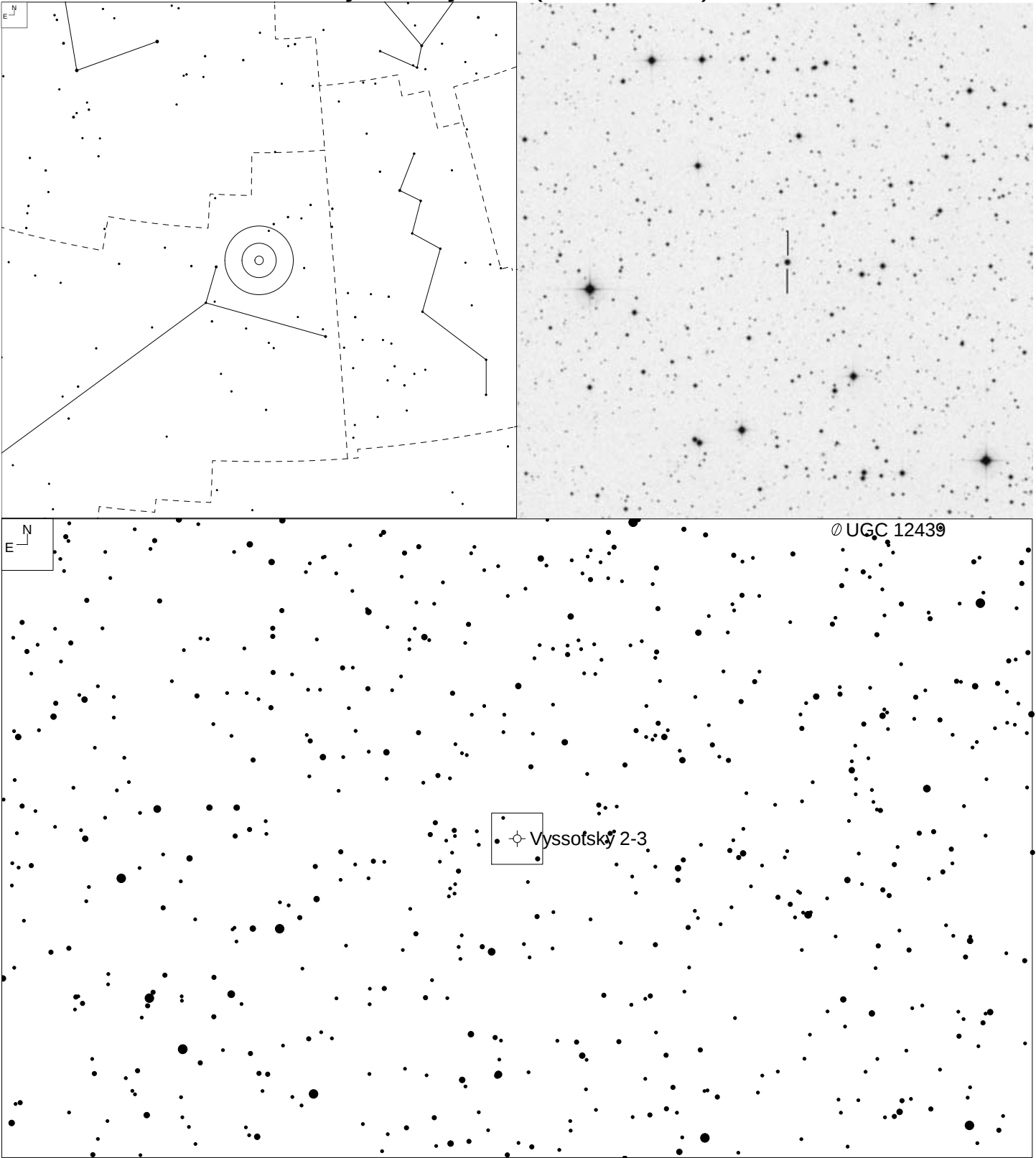
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	03 11 02.1	+62 47 57	-	12.6	5.7'

Hubble 12 (Cassiopeia)



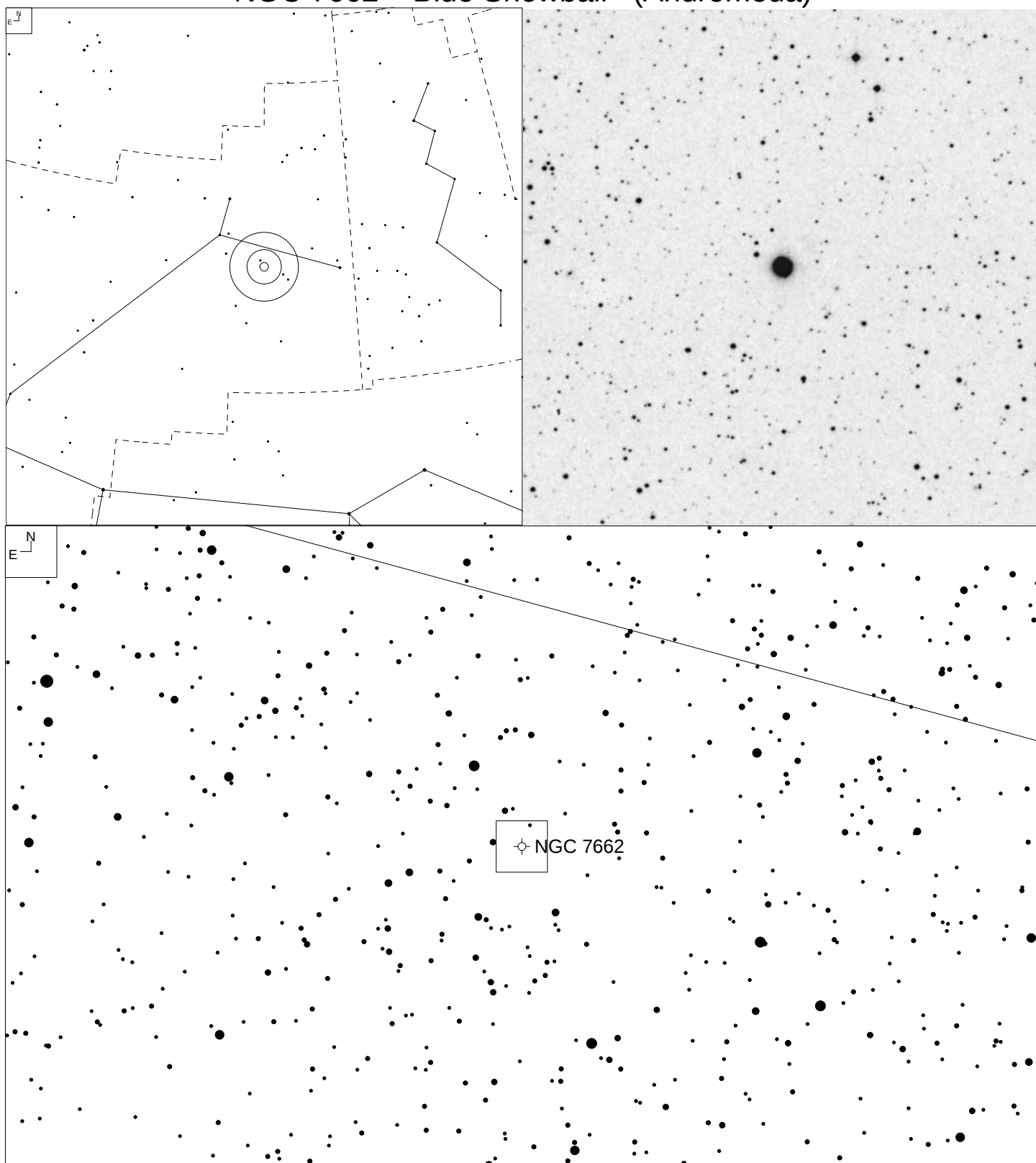
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 111-2.1	-	23 26 14.9	+58 10 53	14.0p 11.9v	13.8	1.0"

Vyssotsky 2-3 (Andromeda)



Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 107-13.1	2	23 22 58.1	+46 53 57	13.9p	14.7	4.0"

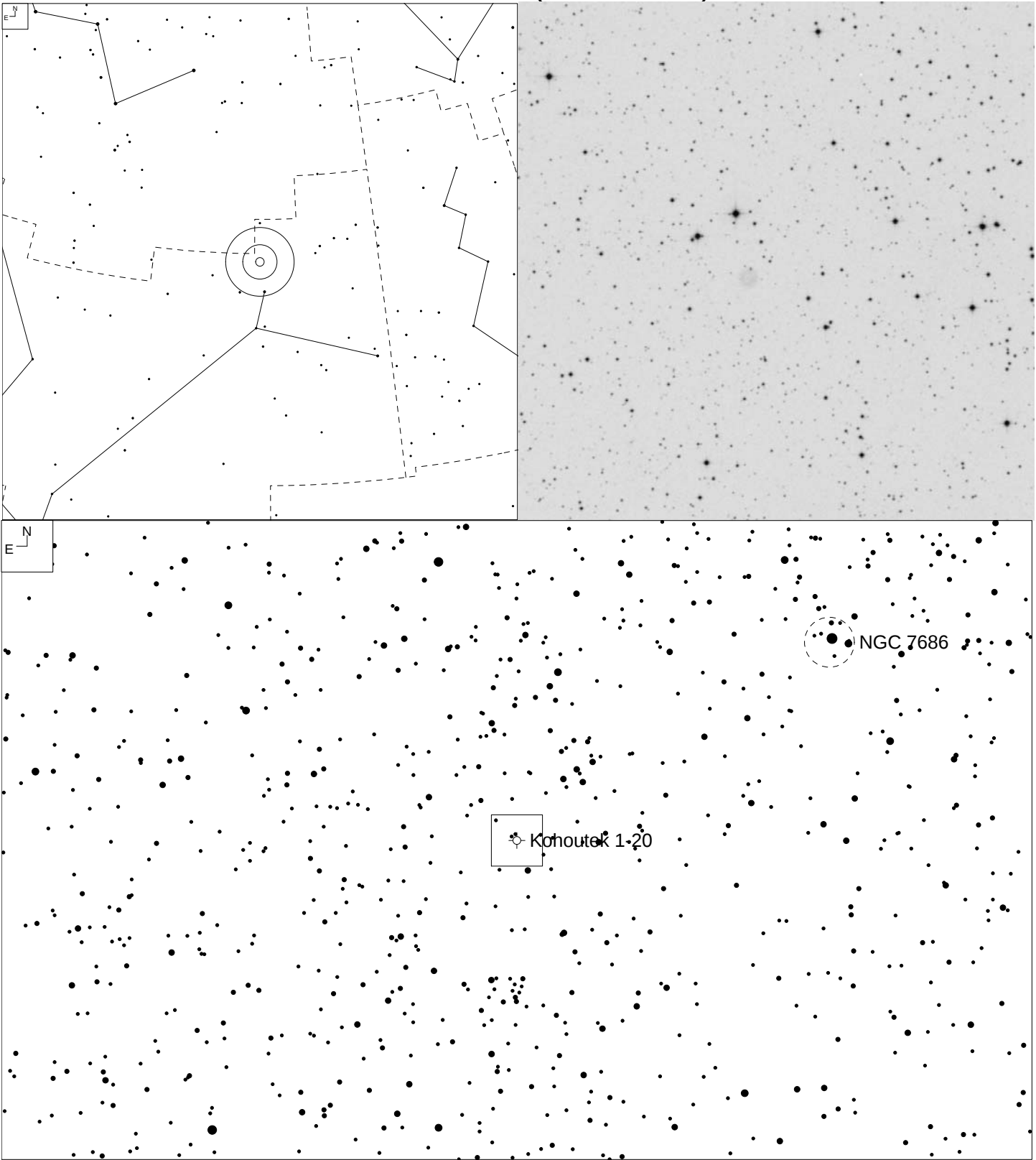
NGC 7662 – Blue Snowball (Andromeda)



Extension - NE more prominent. Nebula's disk blends into halo.

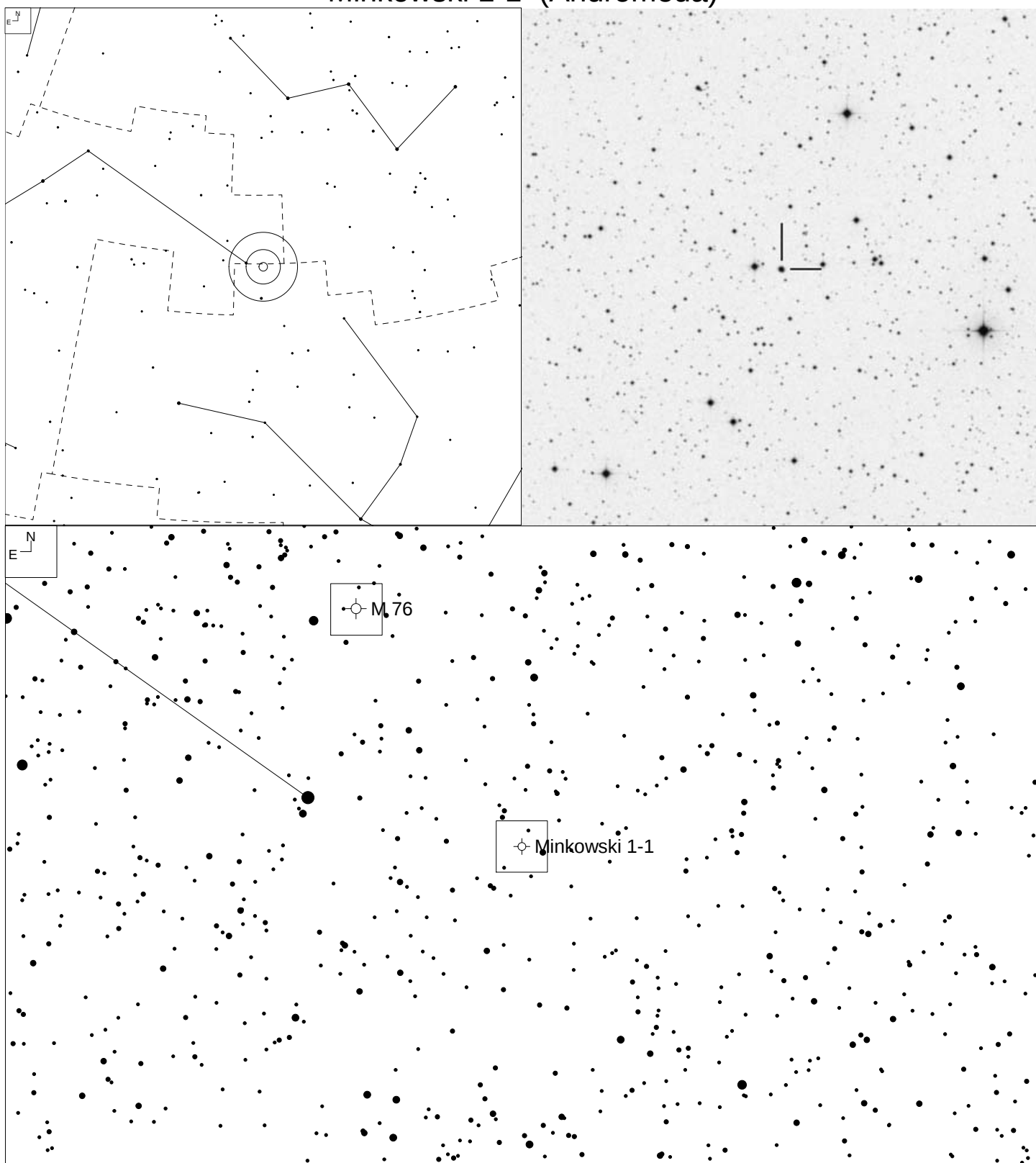
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 106-17.1	4+3	23 25 53.9	+42 32 06	9.2p 8.3v	12.5	17 x 14"

Kohoutek 1-20 (Andromeda)



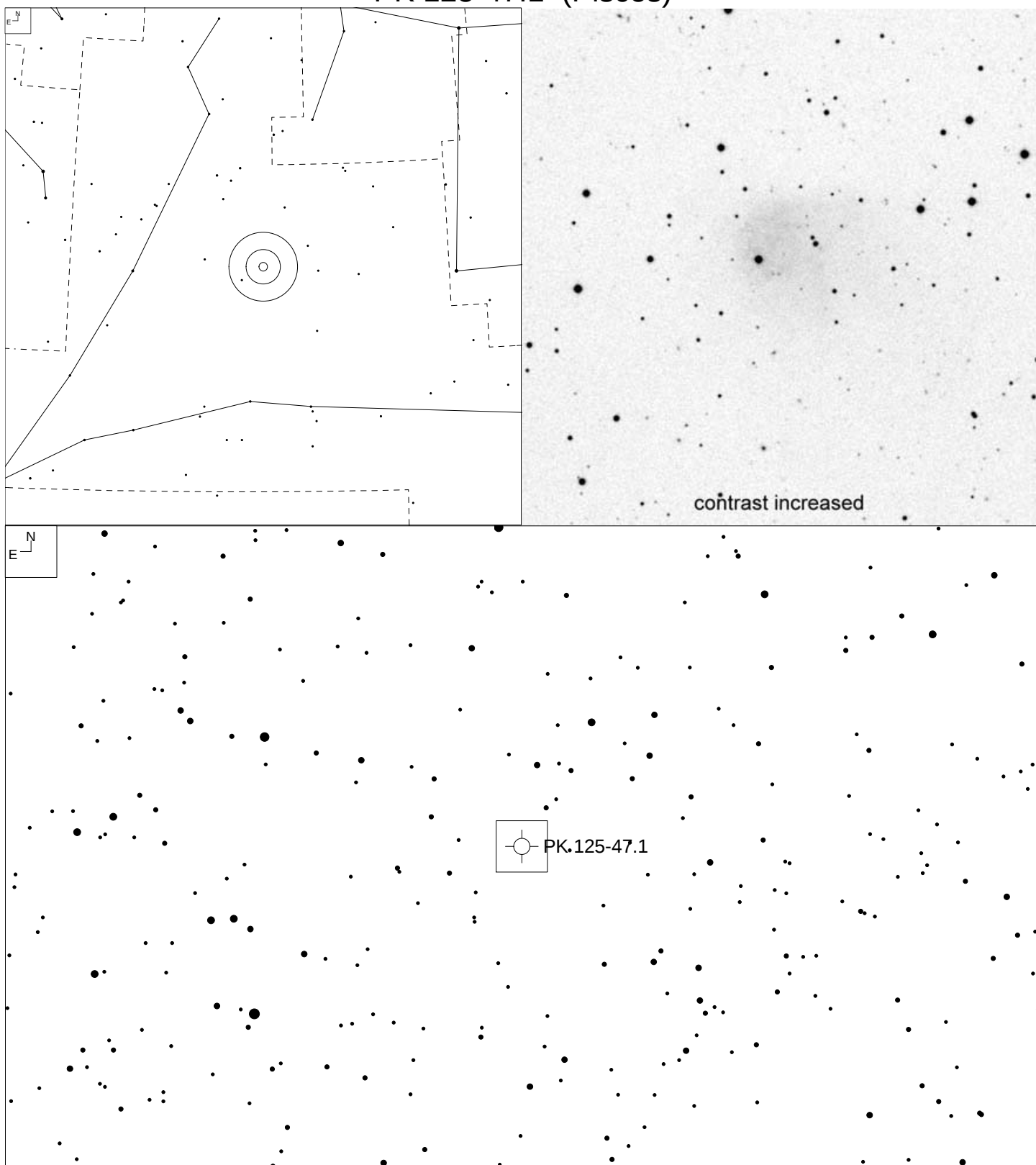
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 110-12.1	4	23 39 10.7	+48 12 30	16.5p	20.1	36"

Minkowski 1-1 (Andromeda)



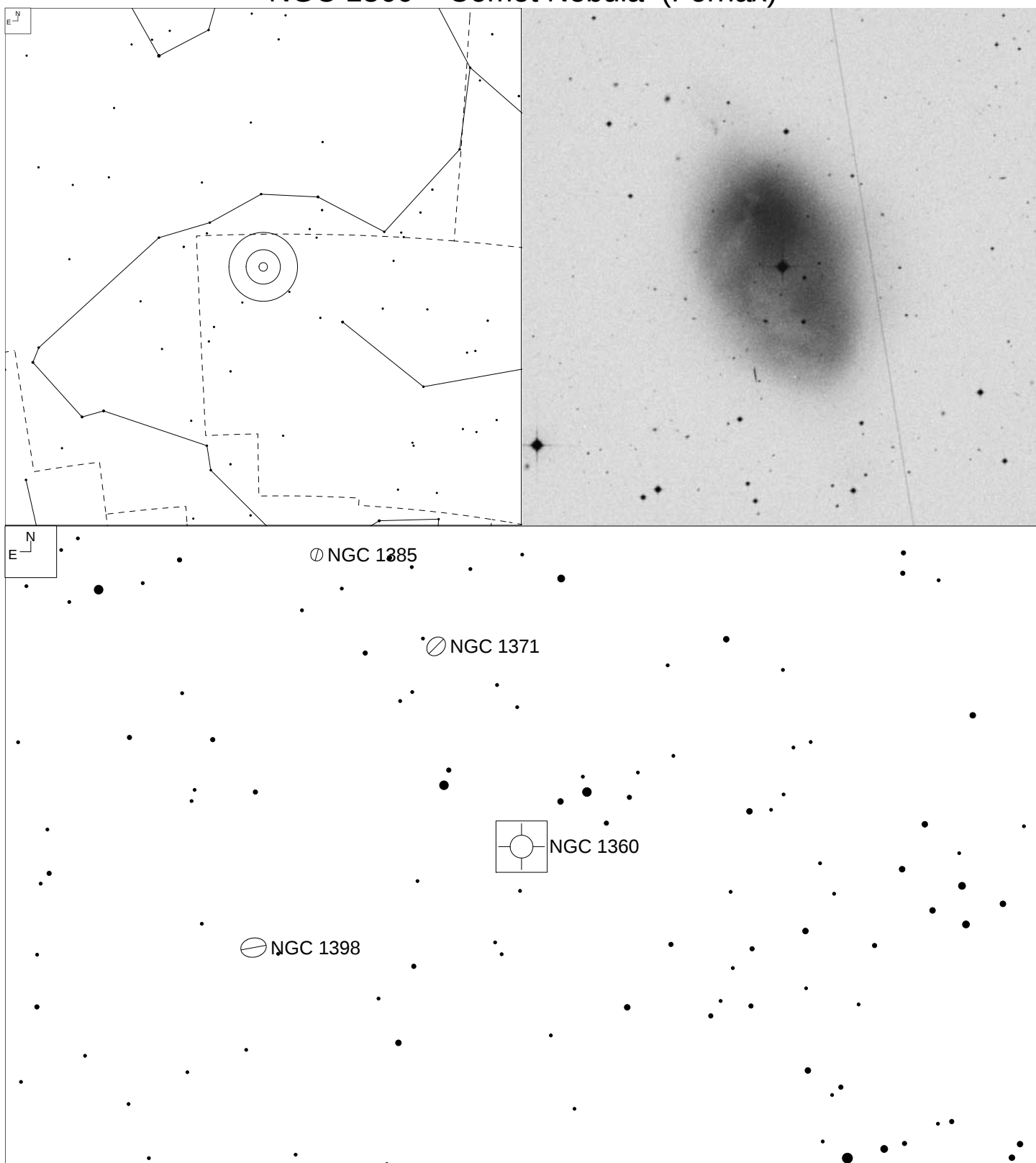
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 130-11.1	-	01 37 19.6	+50 28 11	14.1p	16.2	6.0"

PK 125-47.1 (Pisces)



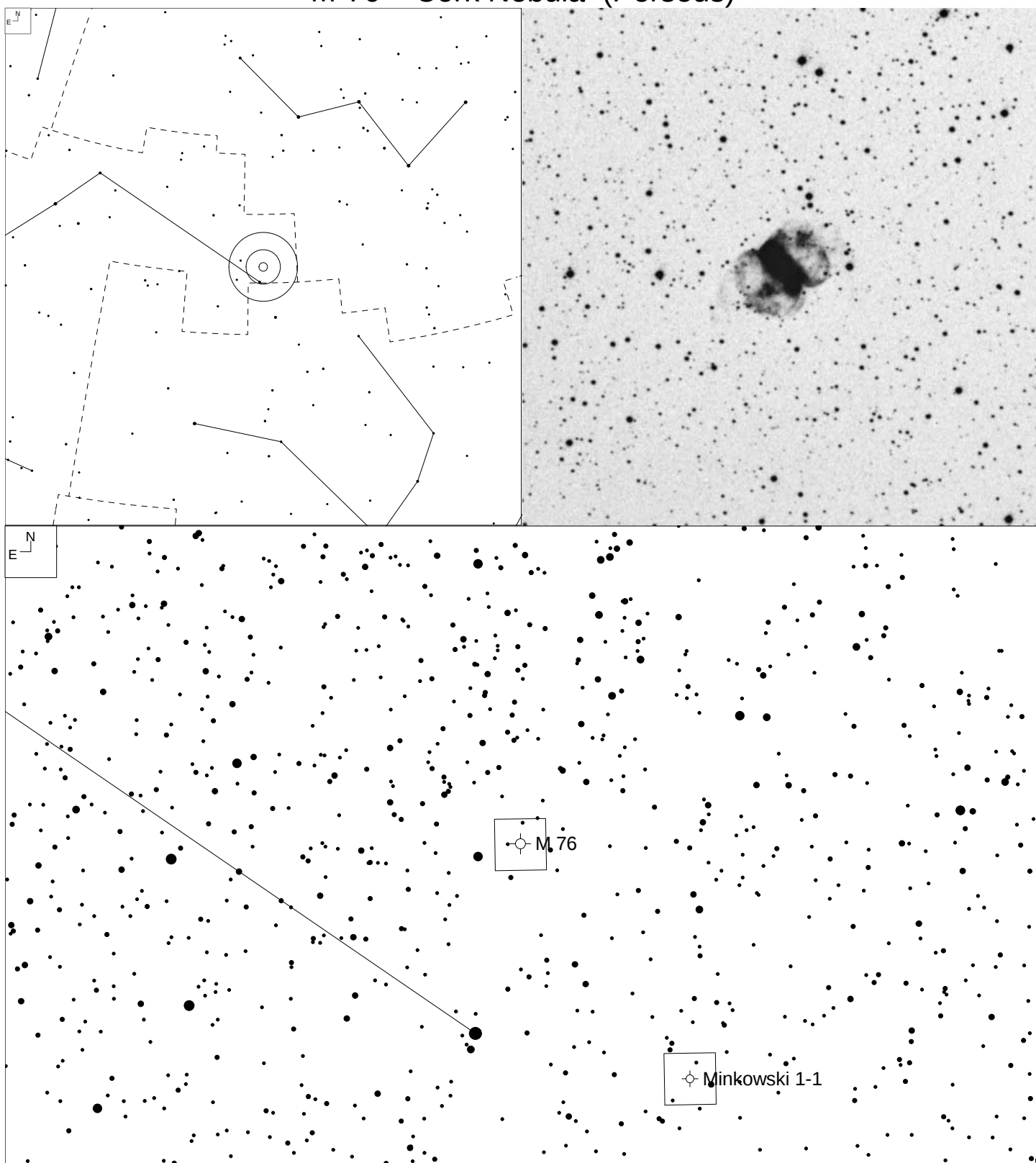
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	00 59 53.7	+15 44 00	-	12.1	4.6'

NGC 1360 – Comet Nebula (Fornax)



Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 220-53.1	3	03 33 15.4	-25 52 13	9.6p 9.4v	11.3	6.4'

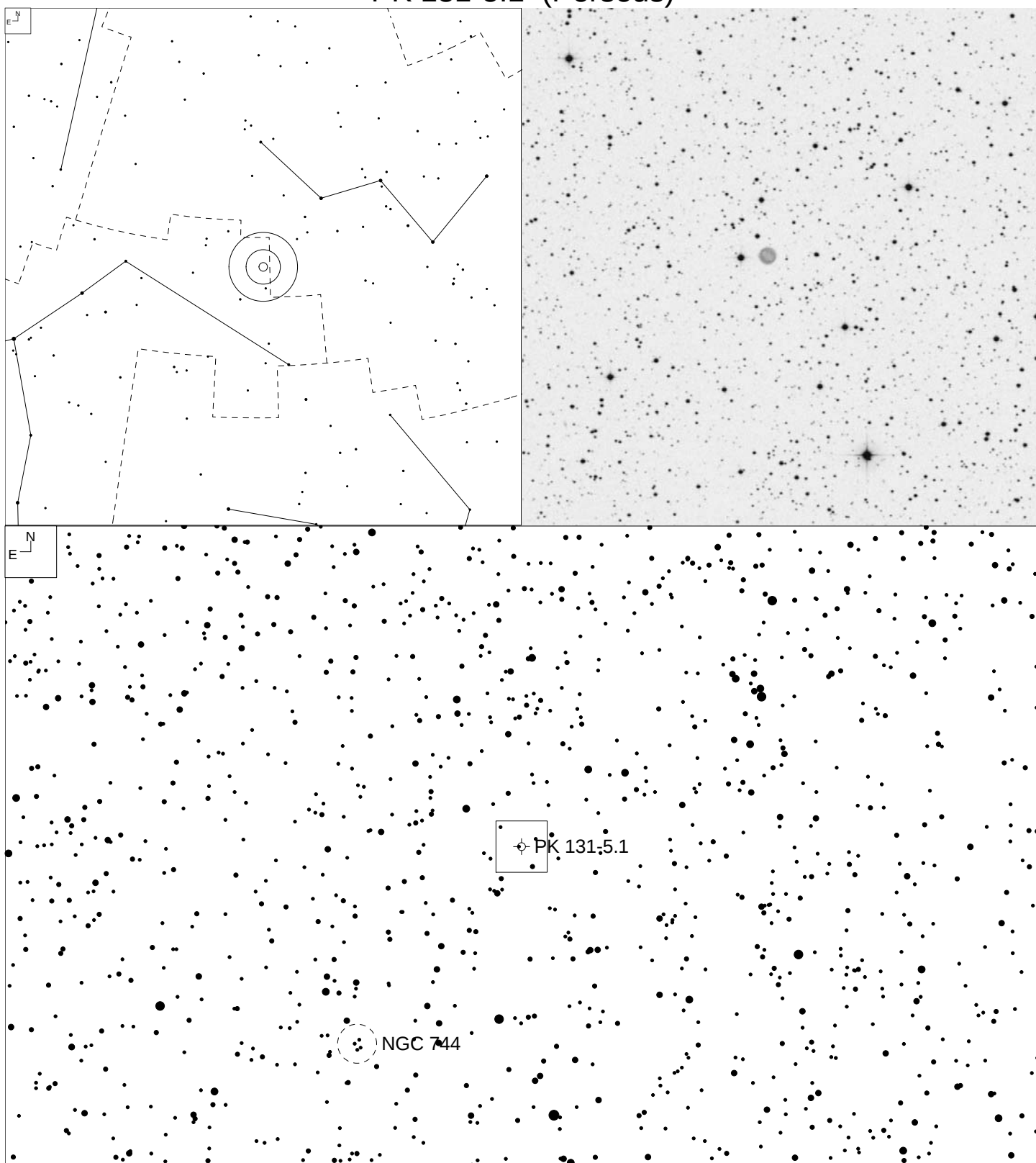
M-76 – Cork Nebula (Perseus)



Bright and noticeable without filter. The wings of the little dumbbell.

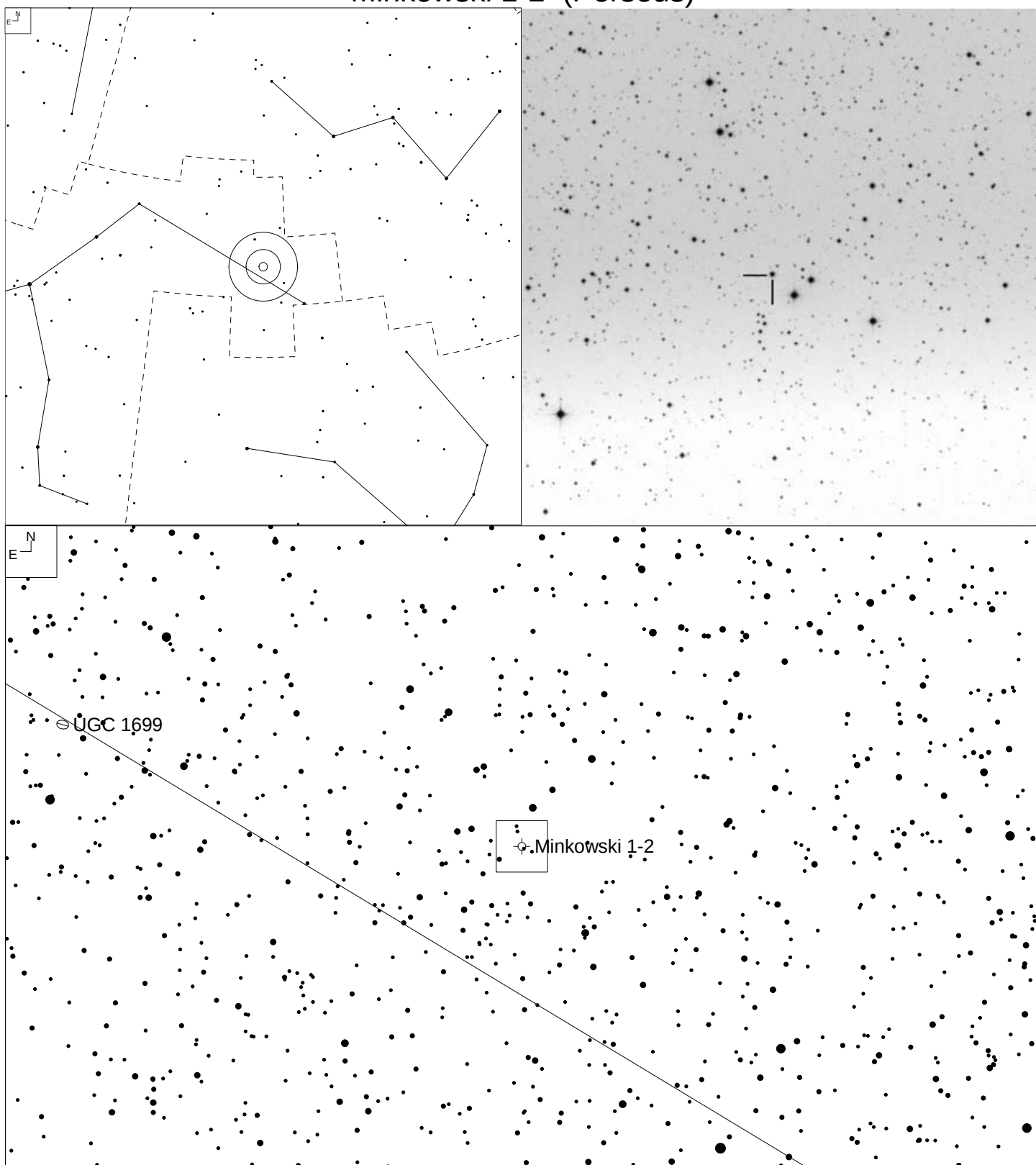
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 130-10.1	3+6	01 42 19.9	+51 34 35	12.2p	15.87	90x45"
NGC 650-1				10.1v		

PK 131-5.1 (Perseus)



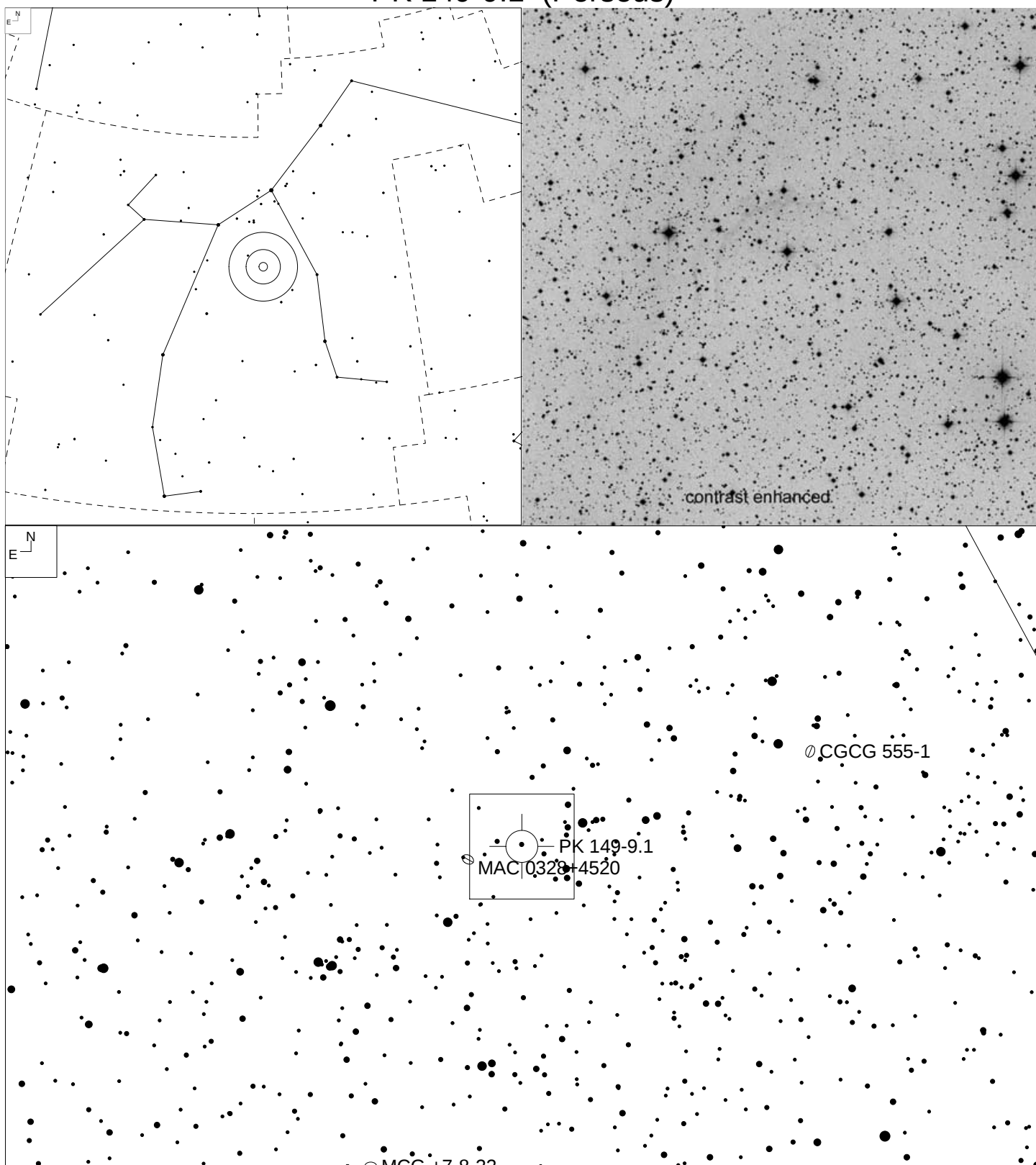
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	01 53 03.1	+56 24 17	14.9p 14.2v	18.0	24"

Minkowski 1-2 (Perseus)



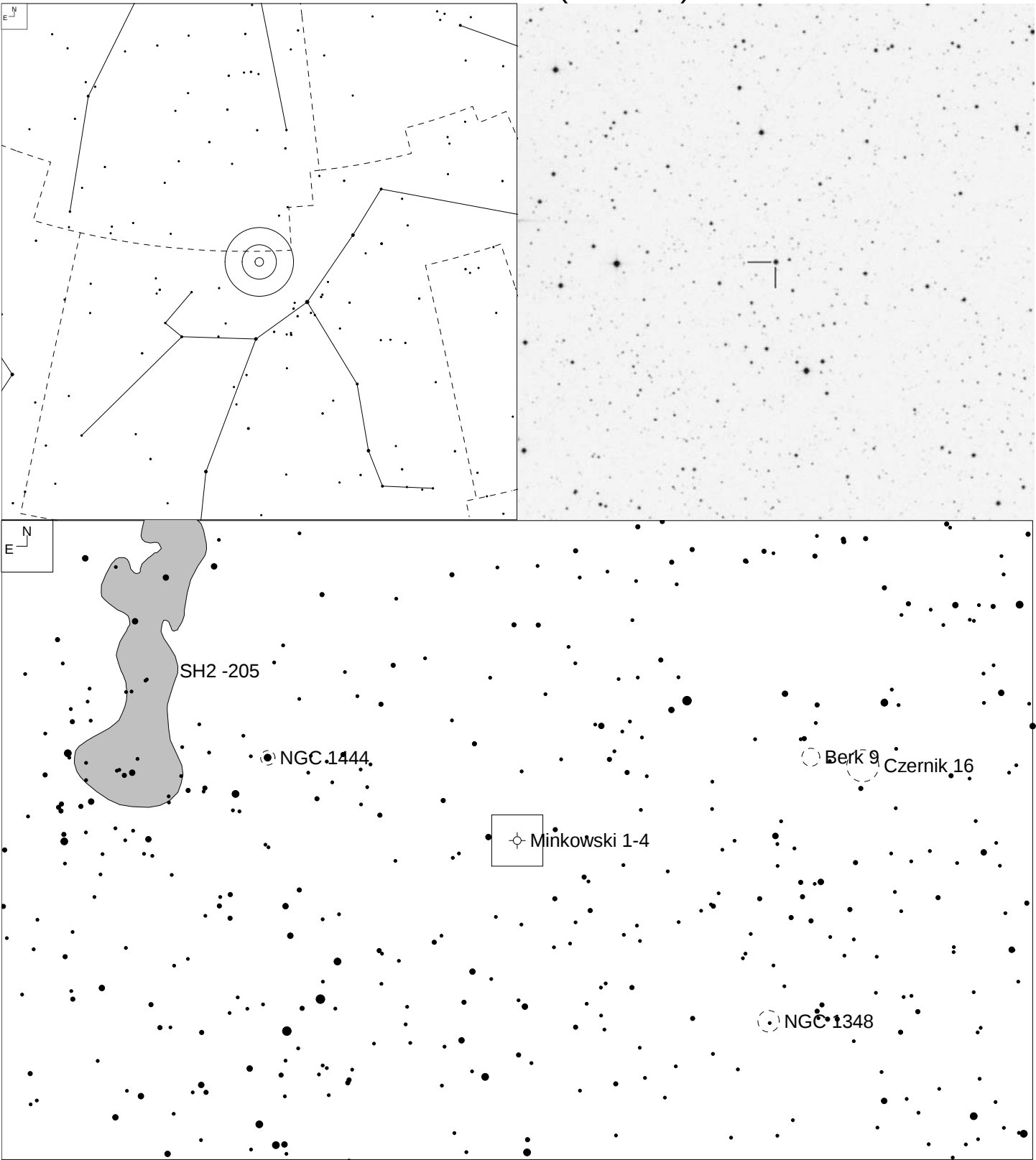
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 133-8.1	1	01 58 49.7	+52 53 47	14.9p	13.4	18"

PK 149-9.1 (Perseus)



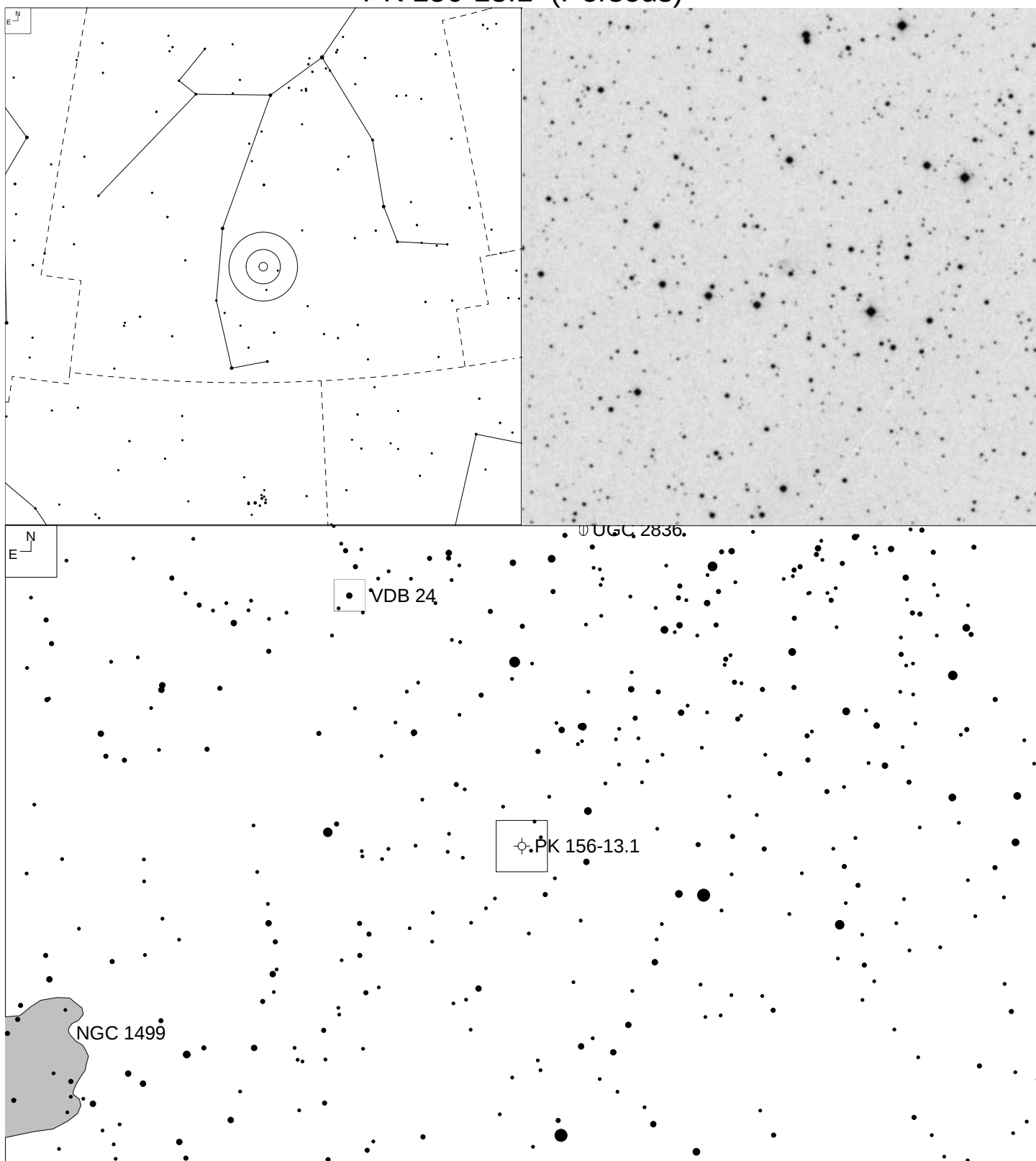
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	03 27 15.5	+45 24 20	-	-	9.0'

Minkowski 1-4 (Perseus)



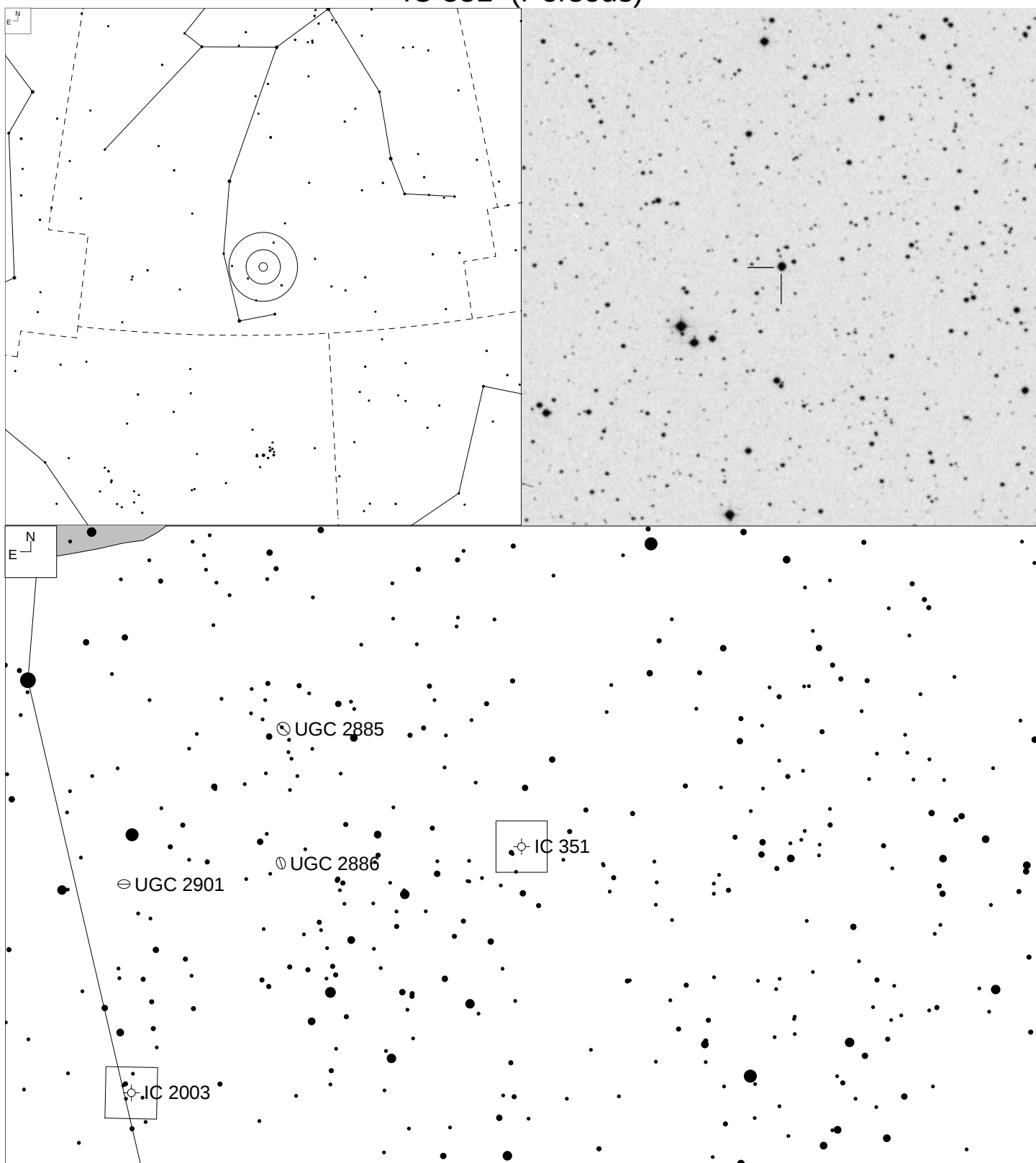
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 147-2.1	-	03 41 43.5	+52 16 57	13.6p 13.6v	16.7	4"

PK 156-13.1 (Perseus)



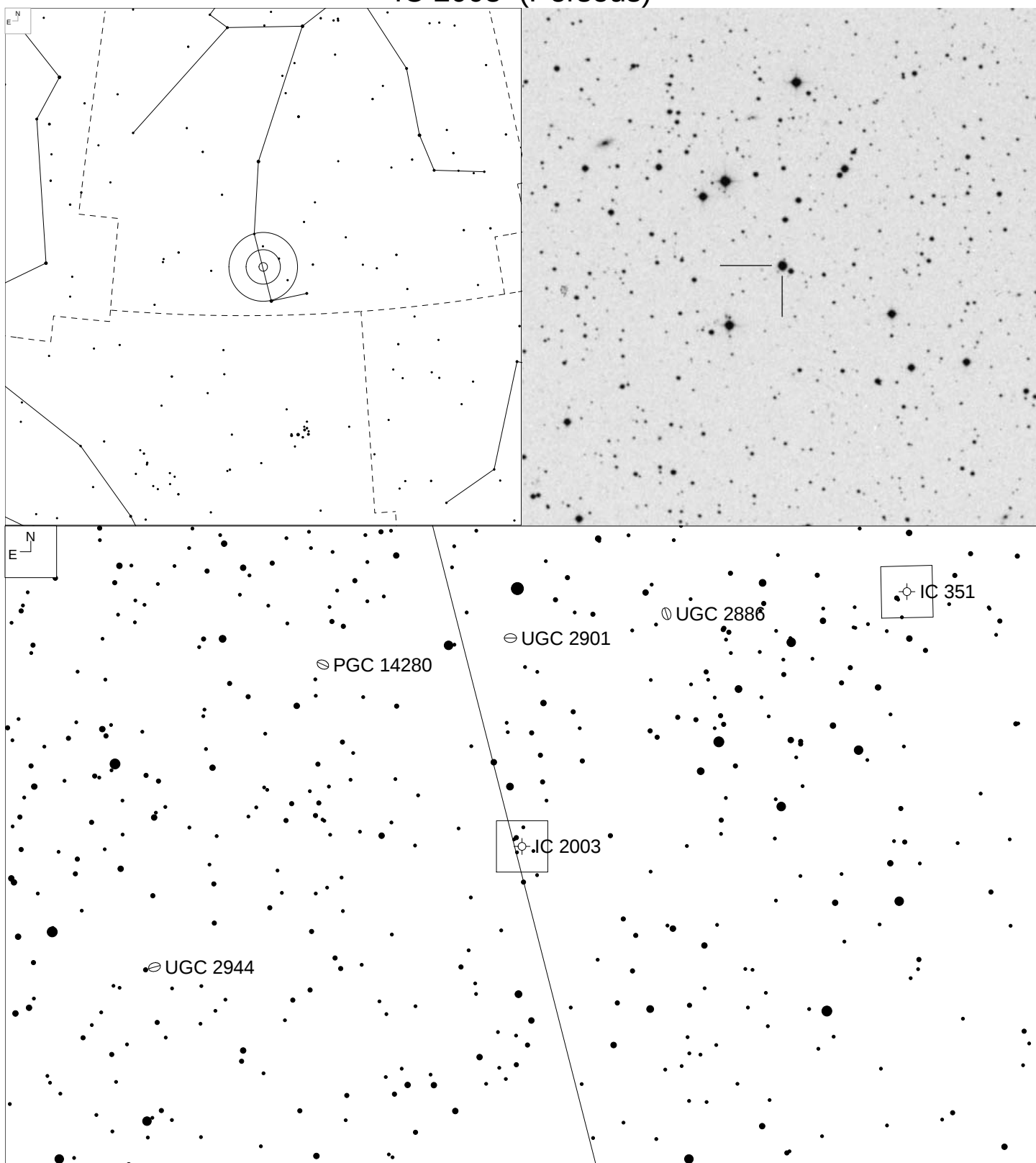
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	03 45 26.6	+37 48 53	-	17.7	34"

IC 351 (Perseus)



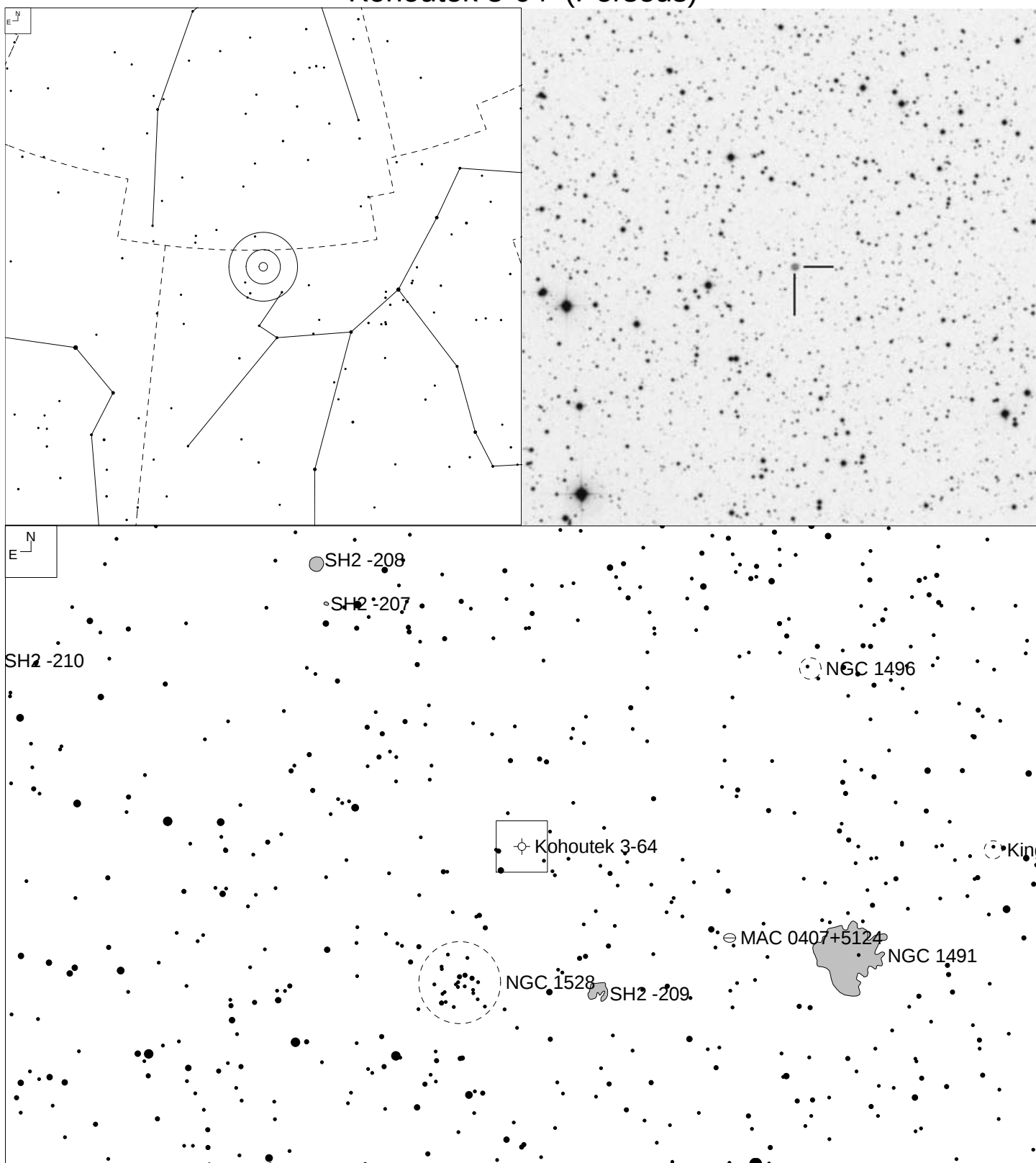
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 159-15.1	2a	03 47 33.1	+35 02 45	12.4p 11.9v	15.8	8 x 6"

IC 2003 (Perseus)



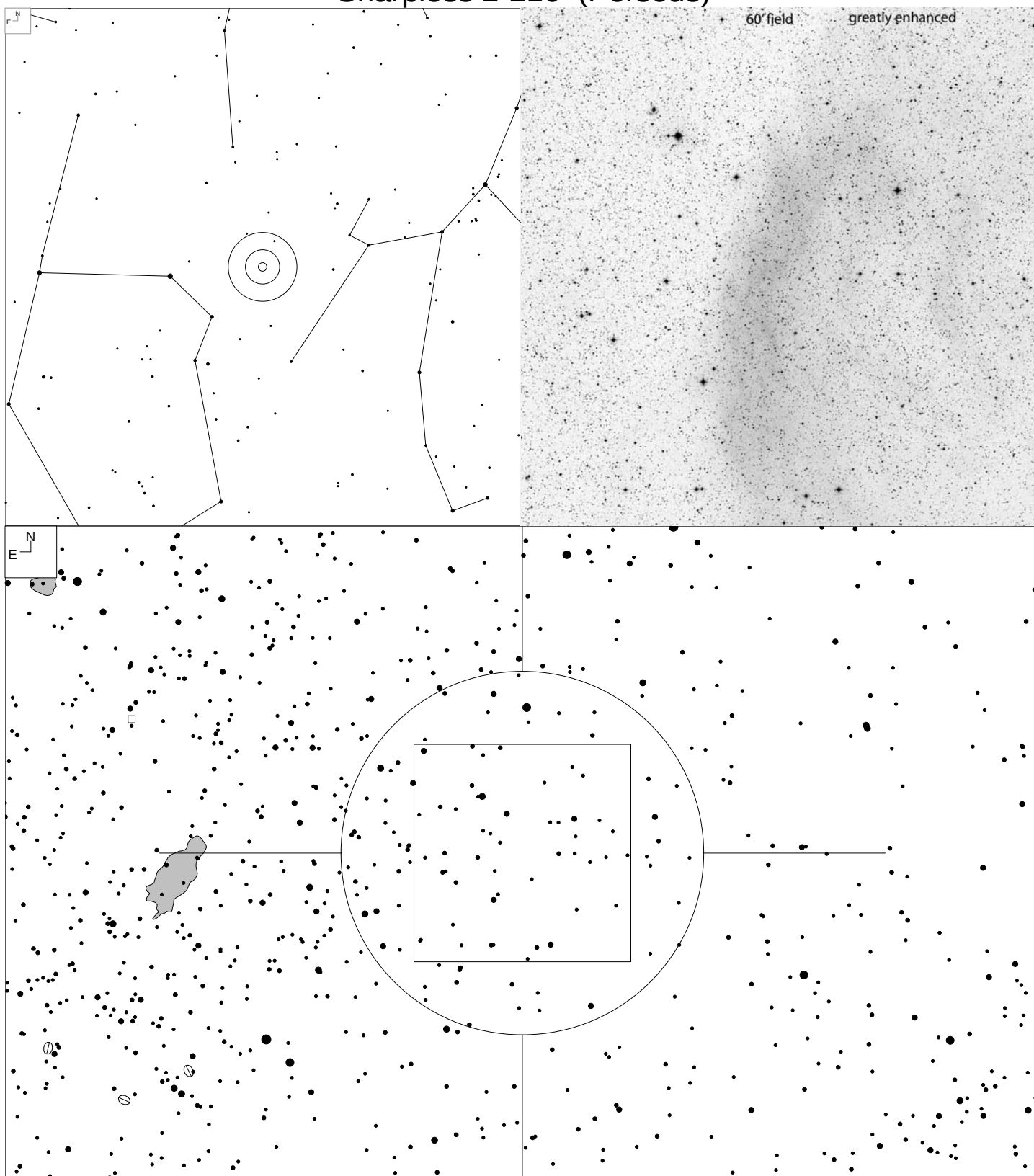
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 161-14.1	2	03 56 22.1	+33 52 27	12.6p	15.3	9"

Kohoutek 3-64 (Perseus)



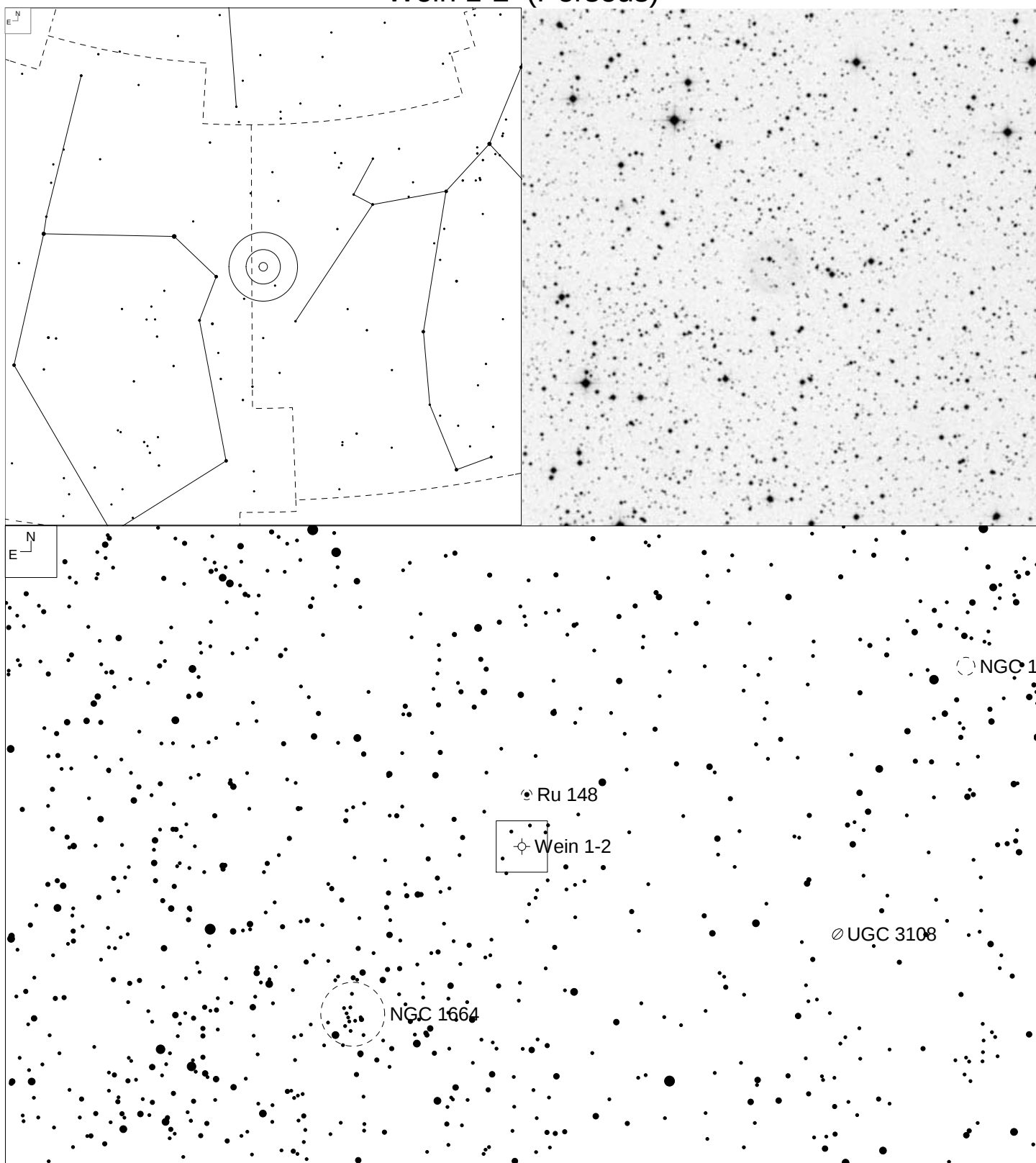
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 151+0.1	-	04 13 27.4	+51 50 59	16.9p	-	8"

Sharpless 2-216 (Perseus)



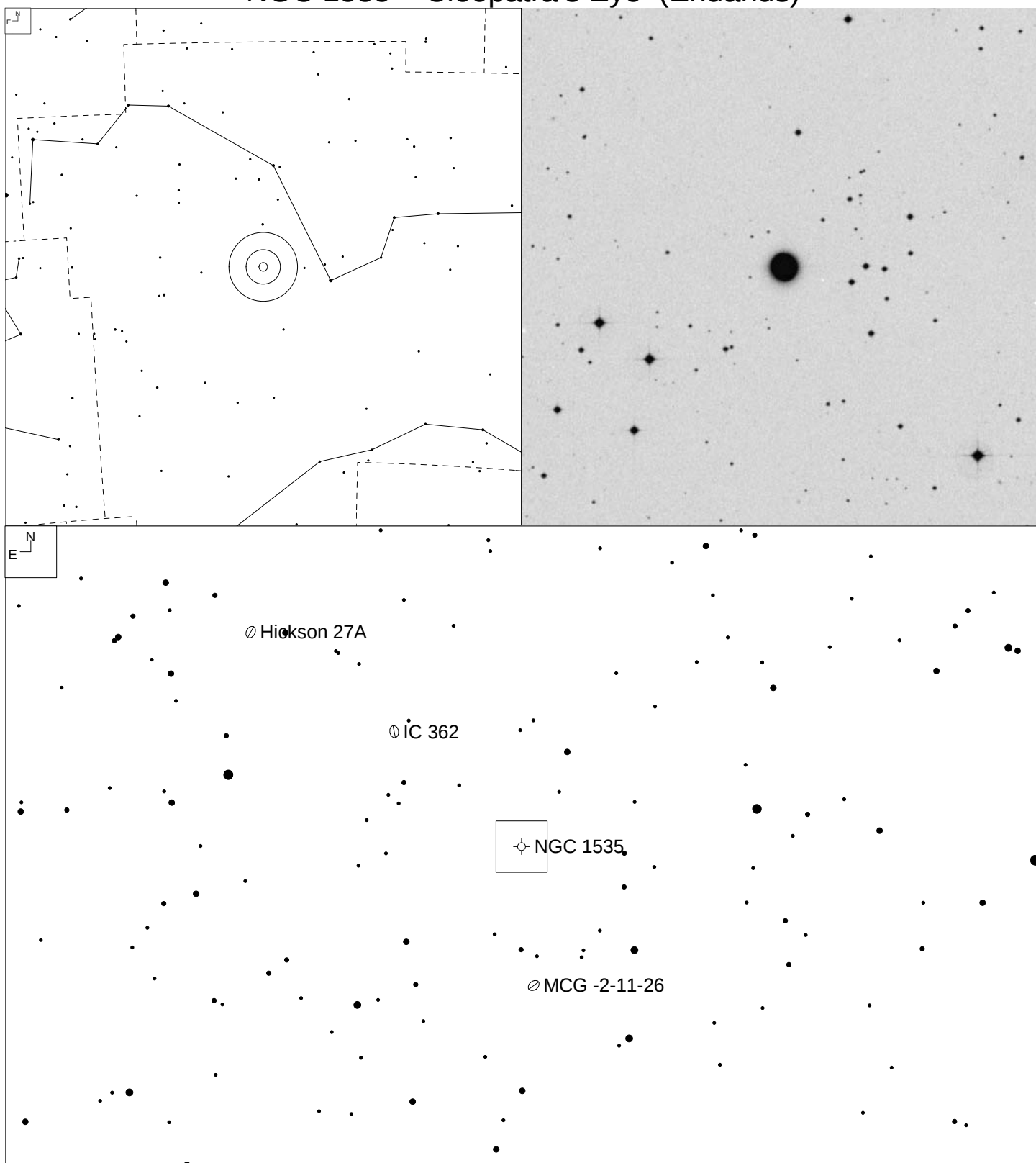
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 158+00.1	3	04 45 35	+46 48.5	-	-	100'

Wein 1-2 (Perseus)



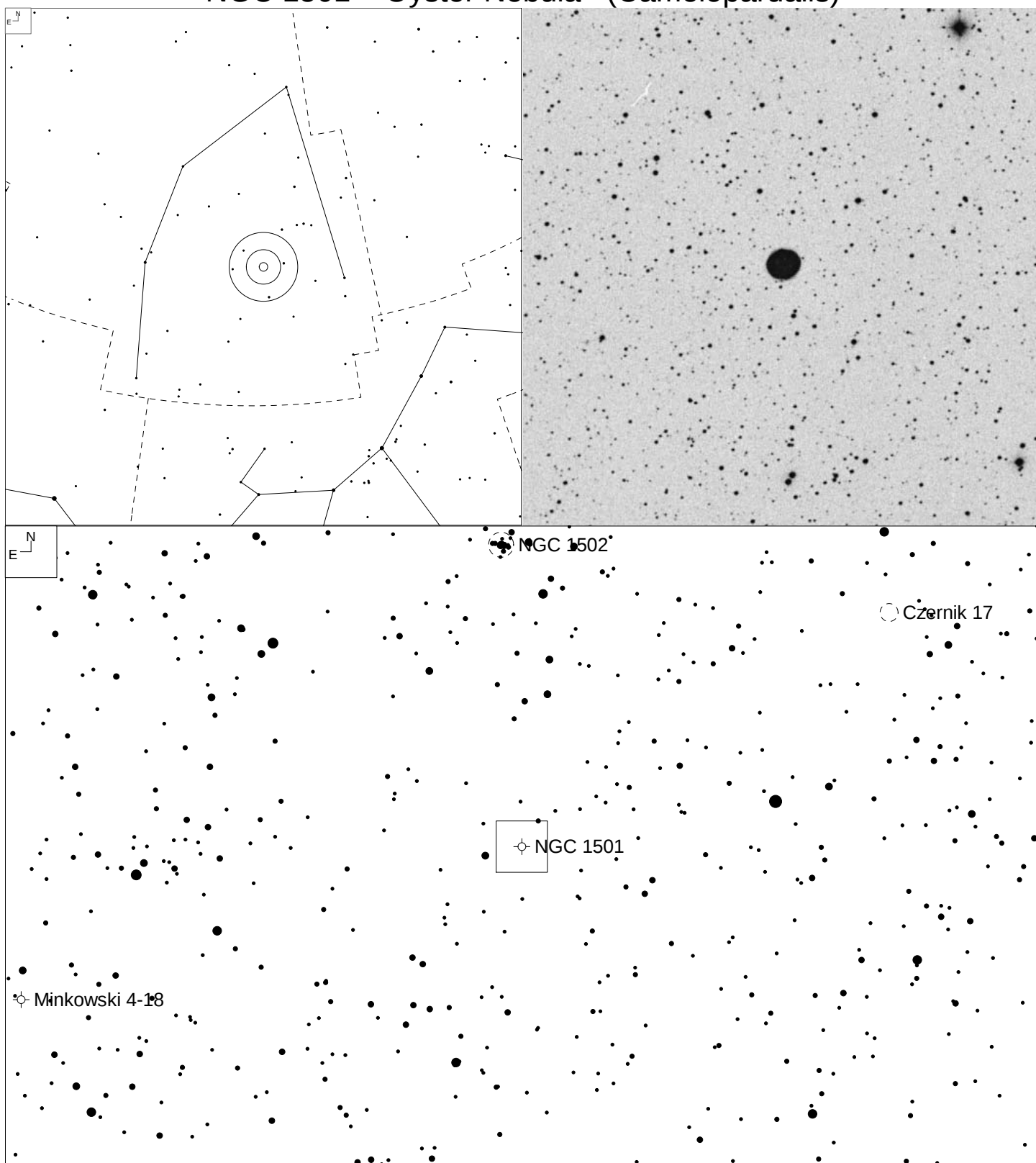
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 160-0.1	-	04 46 42.9	+44 28 00	-	20.8	92"

NGC 1535 – Cleopatra's Eye (Eridanus)



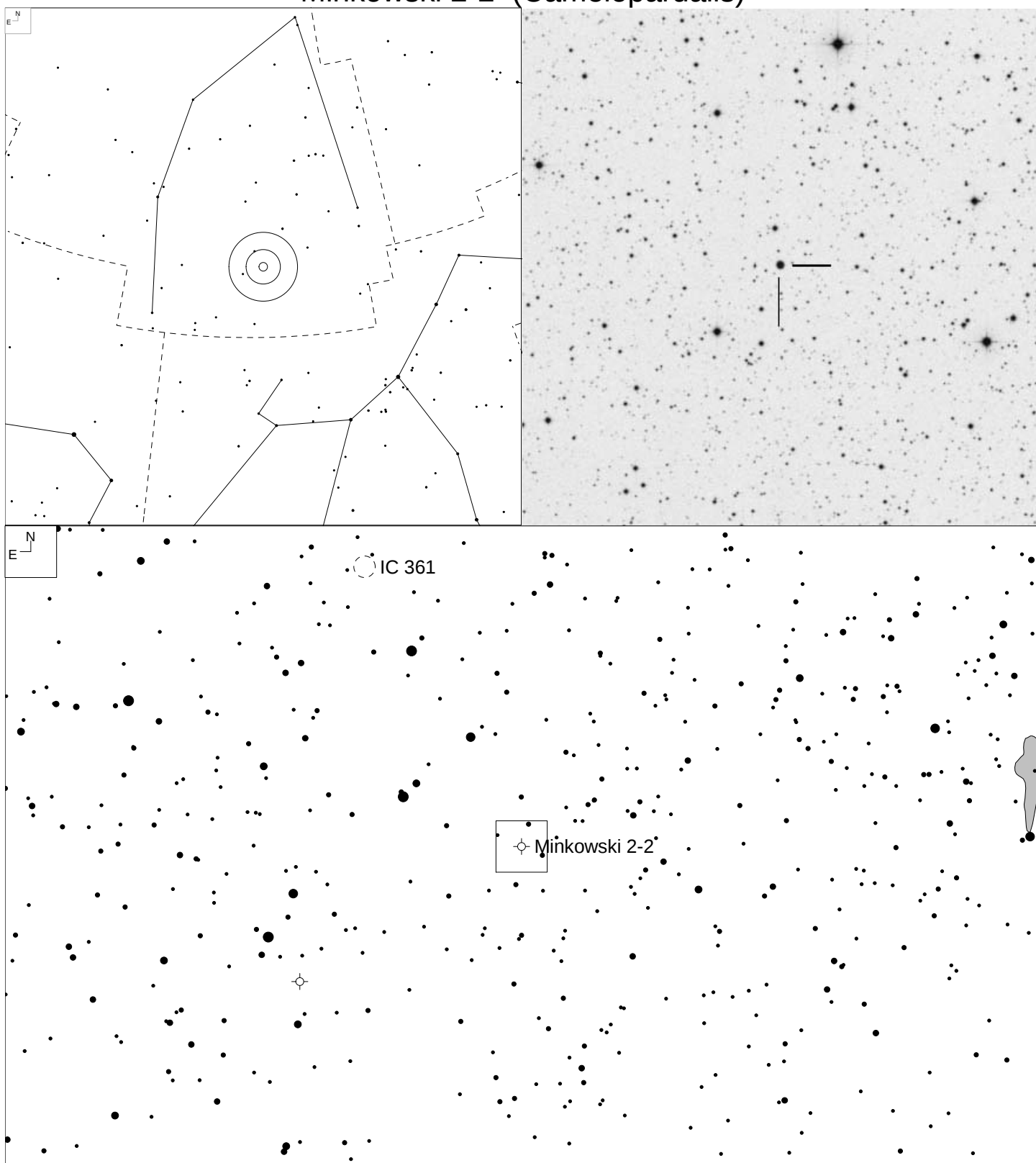
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 206-40.1	4+2c	04 14 15.8	-12 44 21	9.6p 9.6v	12.1	60"

NGC 1501 – Oyster Nebula (Camelopardalis)



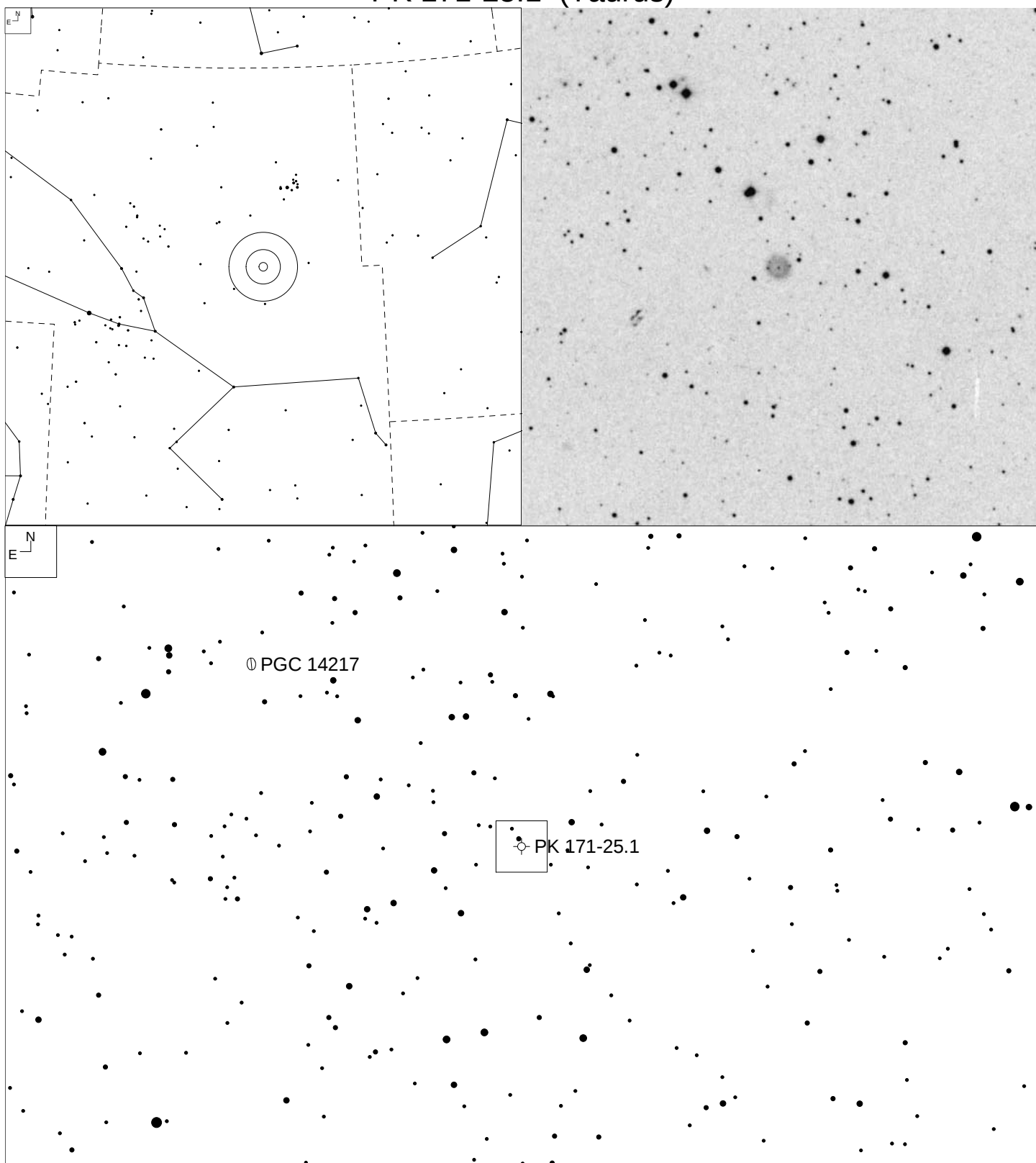
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 144+6.1	3	04 06 59.6	+60 55 11	13.3p 11.5v	14.3	56x48"

Minkowski 2-2 (Camelopardalis)



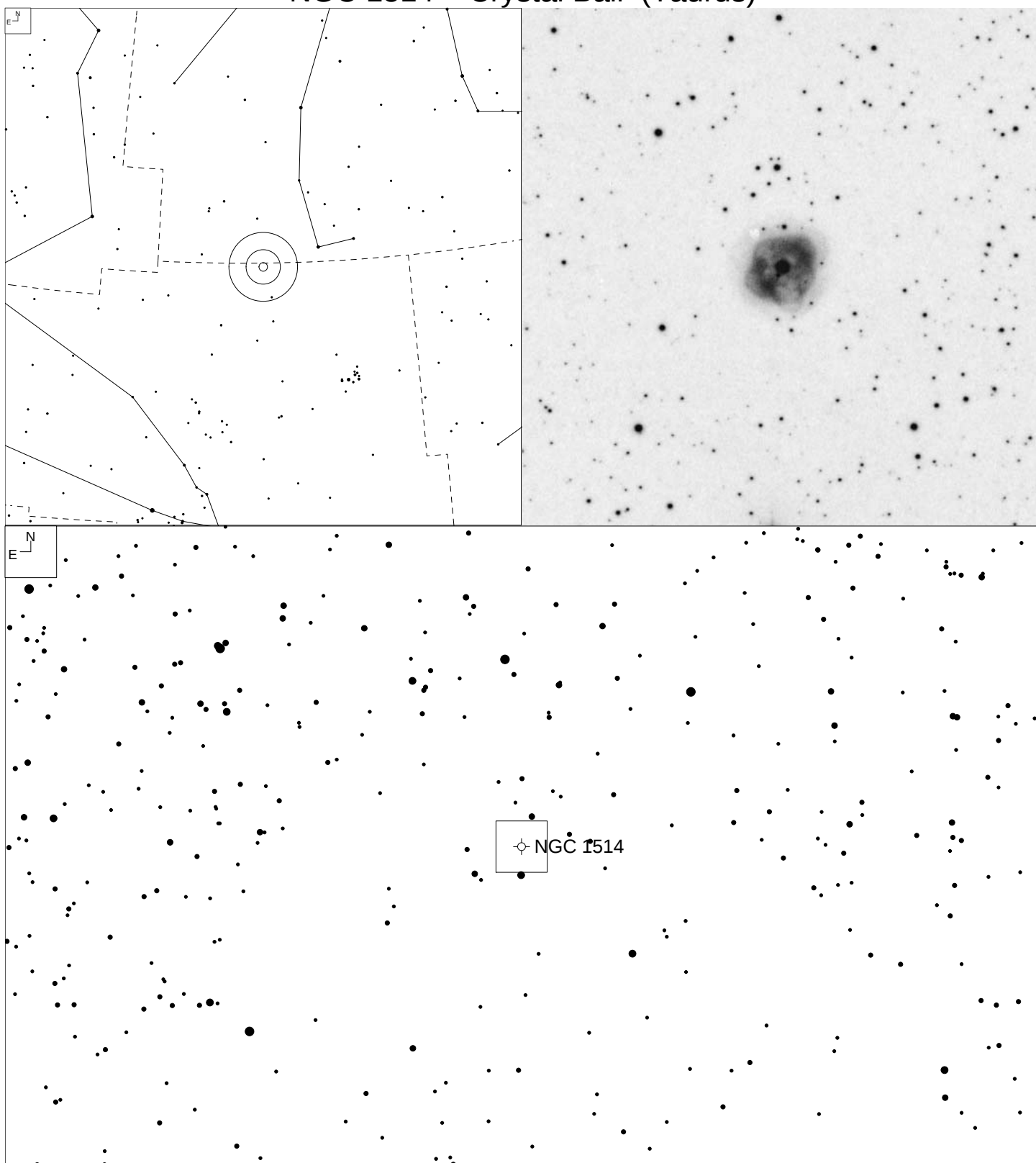
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 147+4.1	3	04 13 15.2	+56 56 56	14.0p 13.7v	-	12x11"

PK 171-25.1 (Taurus)



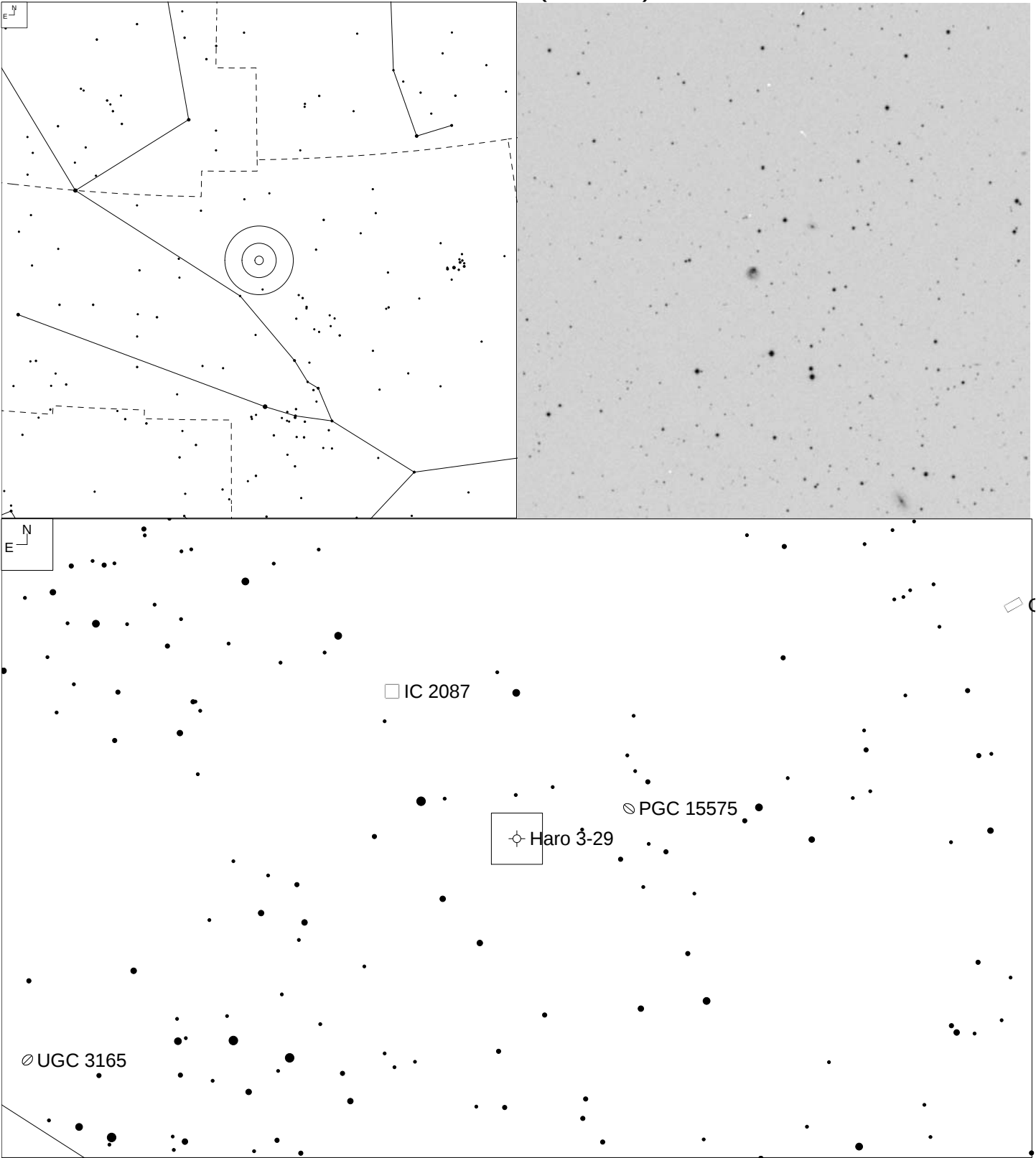
Other ID	Type	RA	Dec	Mag	* Mag	Size
Baade 1	4	06 53 36.4	+19 29 39	13.9p 15.1v	17.2	38"

NGC 1514 – Crystal Ball (Taurus)



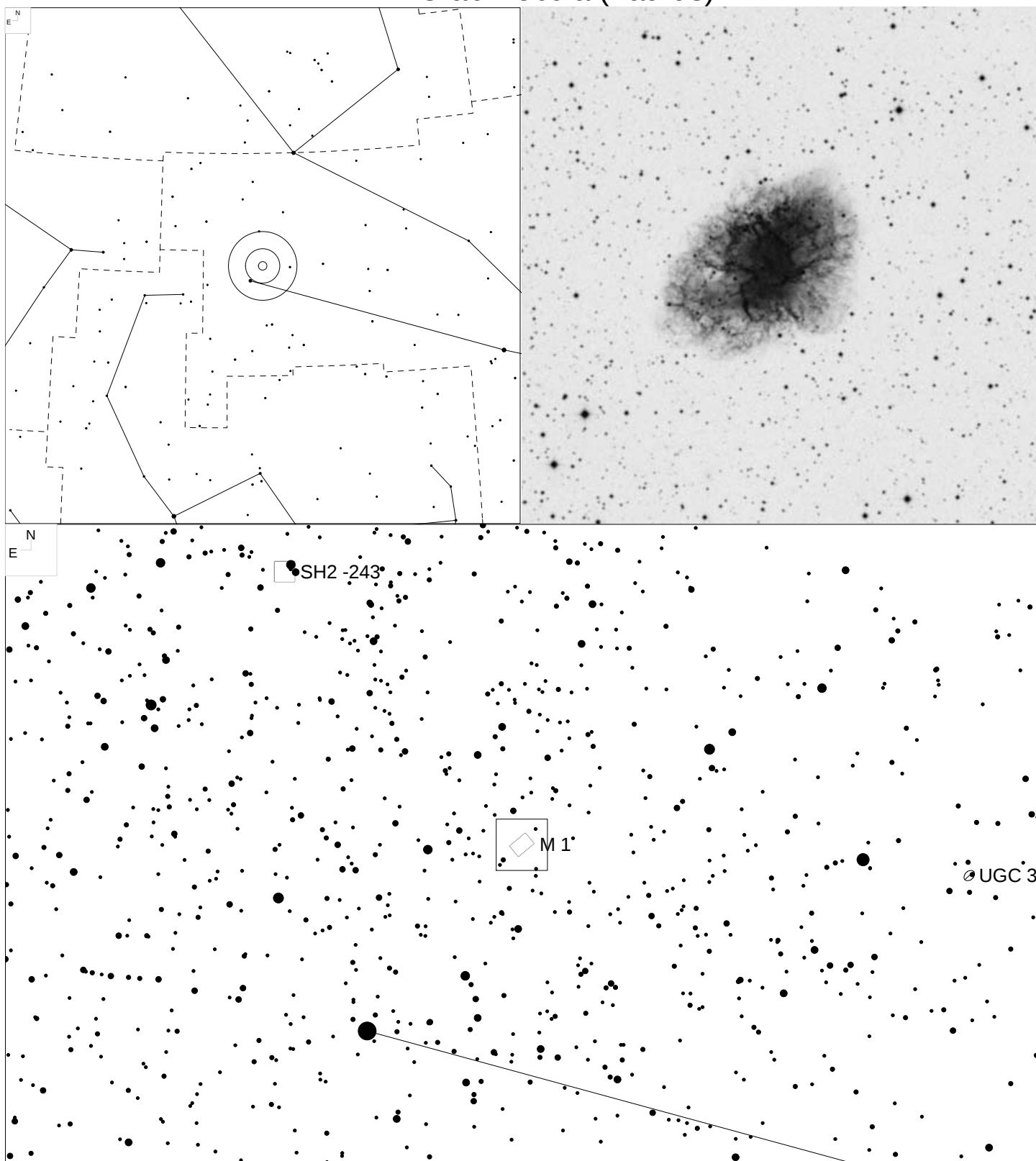
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 165-15.1	3+2	04 09 16.9	30 46 34	10.0p 10.9v	9.4	1.9'

Haro 3-29 (Taurus)



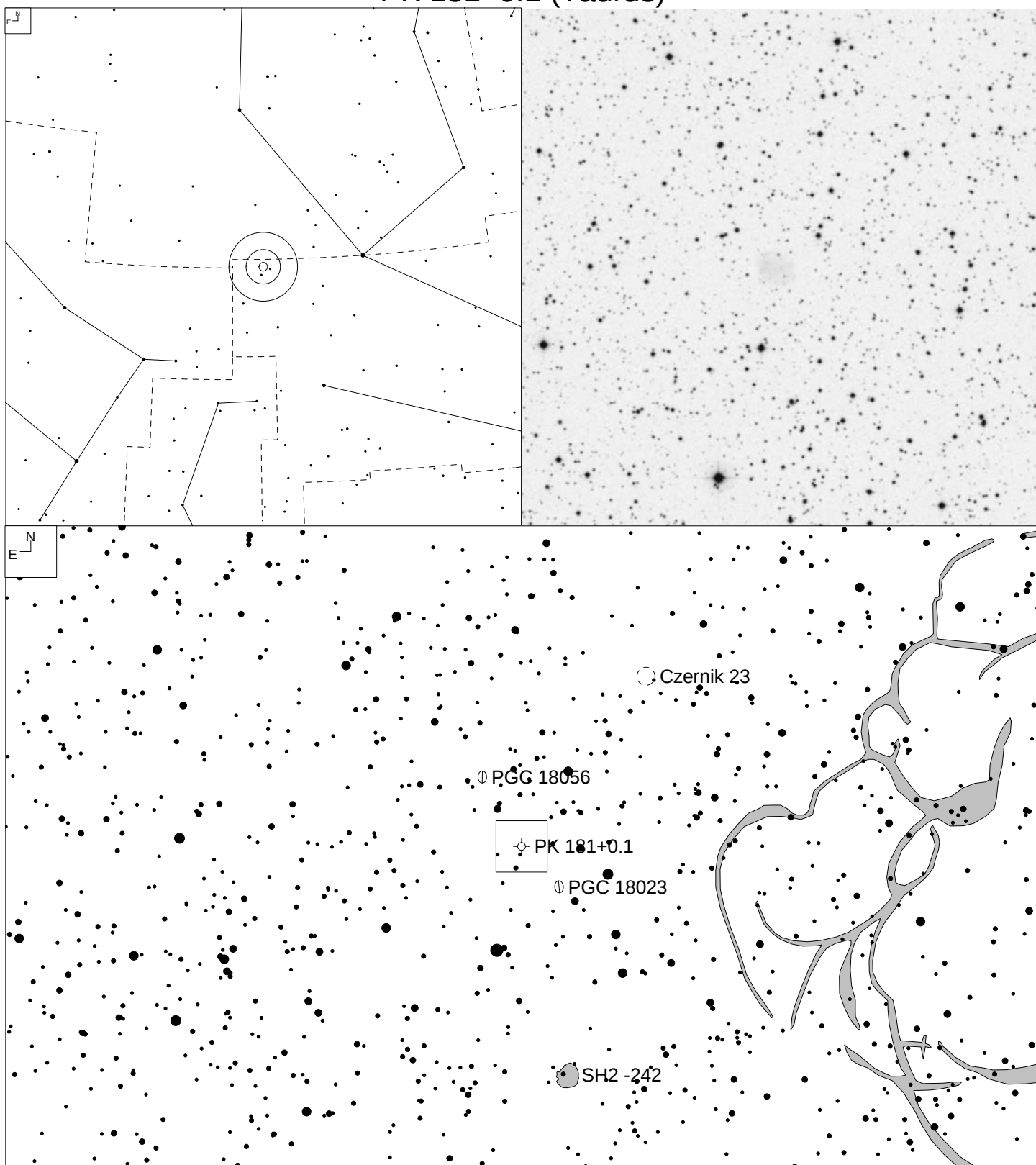
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 174-14.1	-	04 37 23.6	+25 02 36	15.3p 15.1v	18.6 Var	25"

M-1 – Crab Nebula (Taurus)



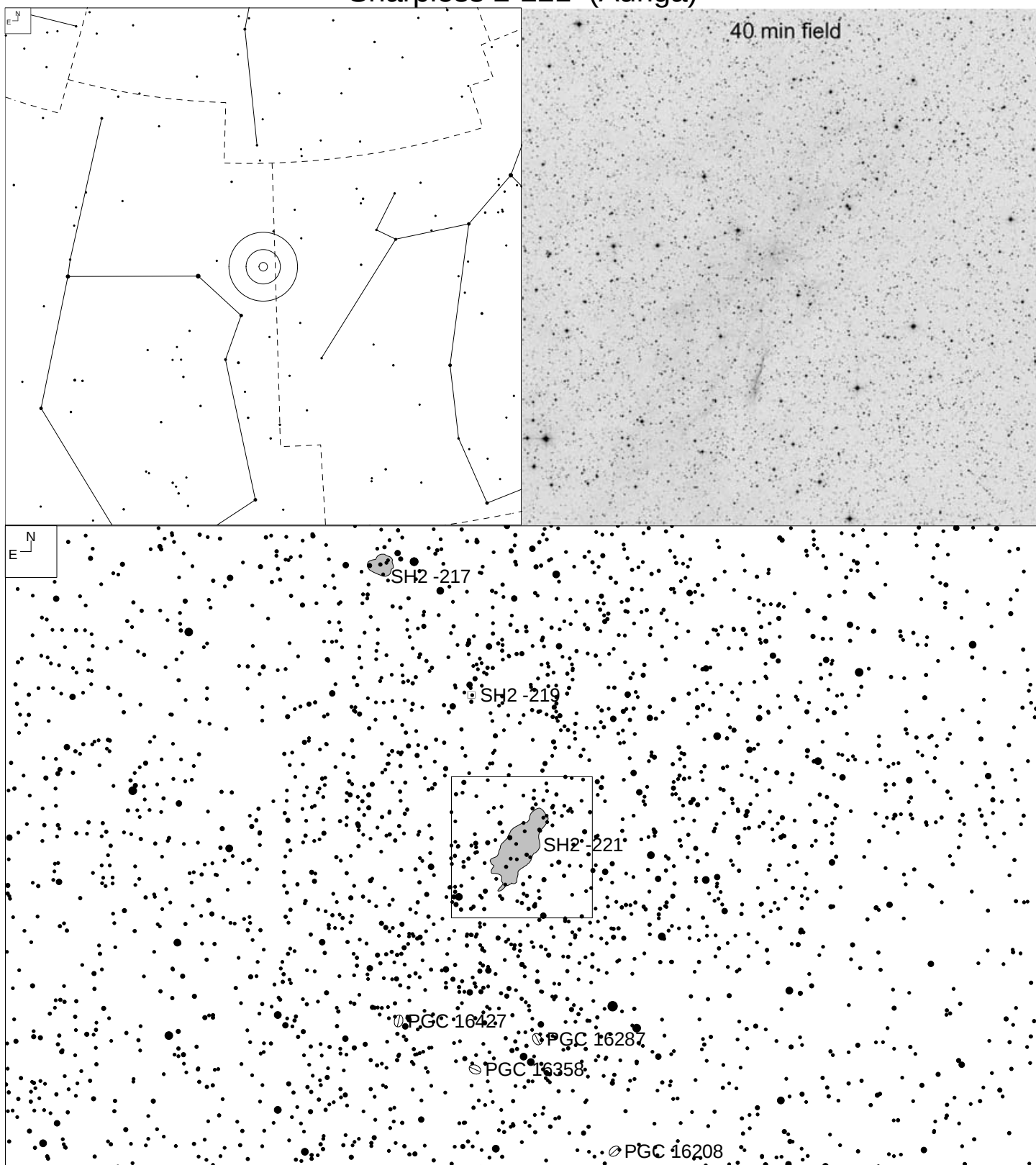
Other ID	Type	RA	Dec	Mag	* Mag	Size
NGC 1952	SNR	05 34 31.9	+22 01 00	8.4	-	6 x 4'

PK 181+0.1 (Taurus)



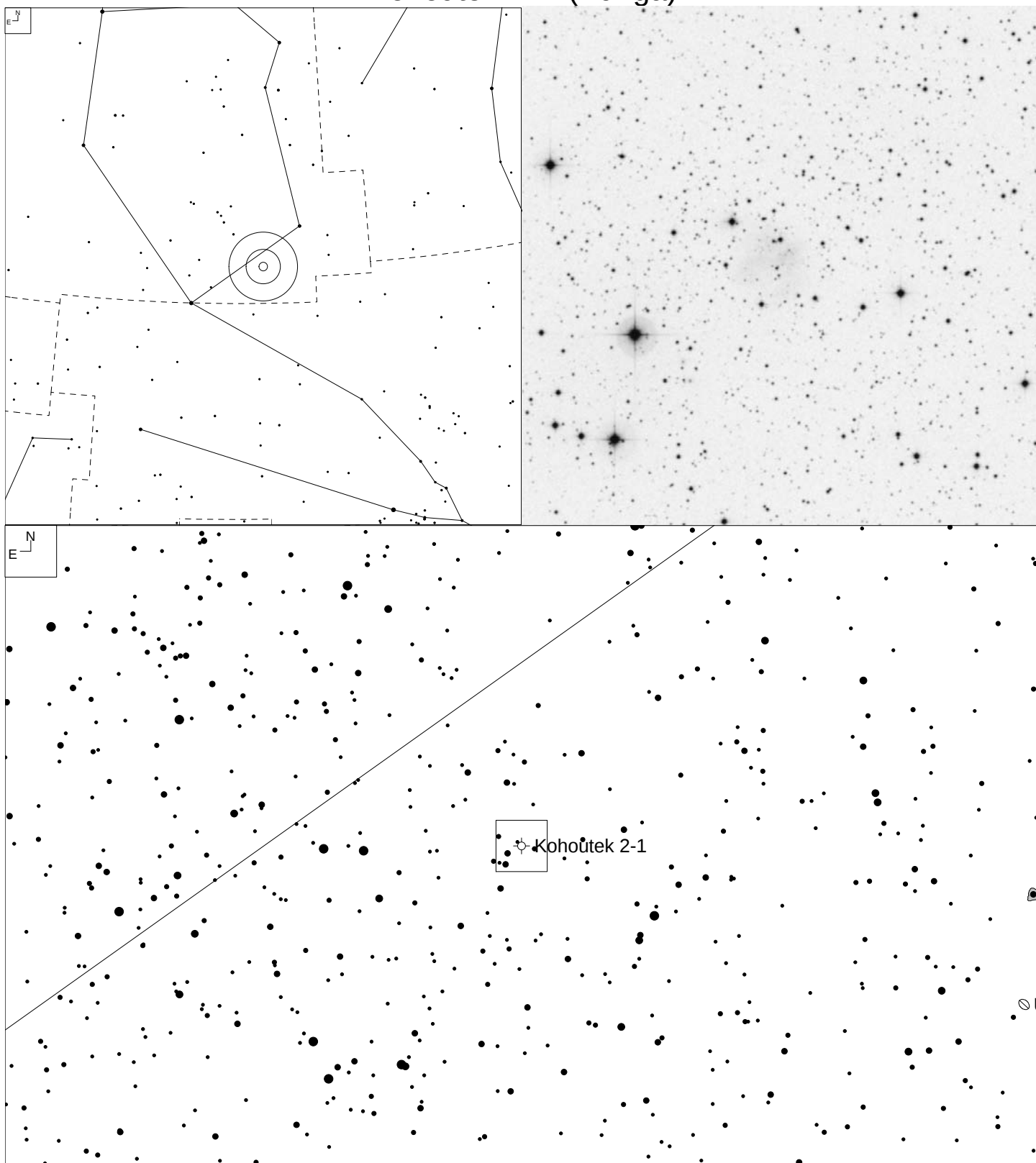
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	05 52 48.2	+28 05 57	15.8p	21.2	65"

Sharpless 2-221 (Auriga)



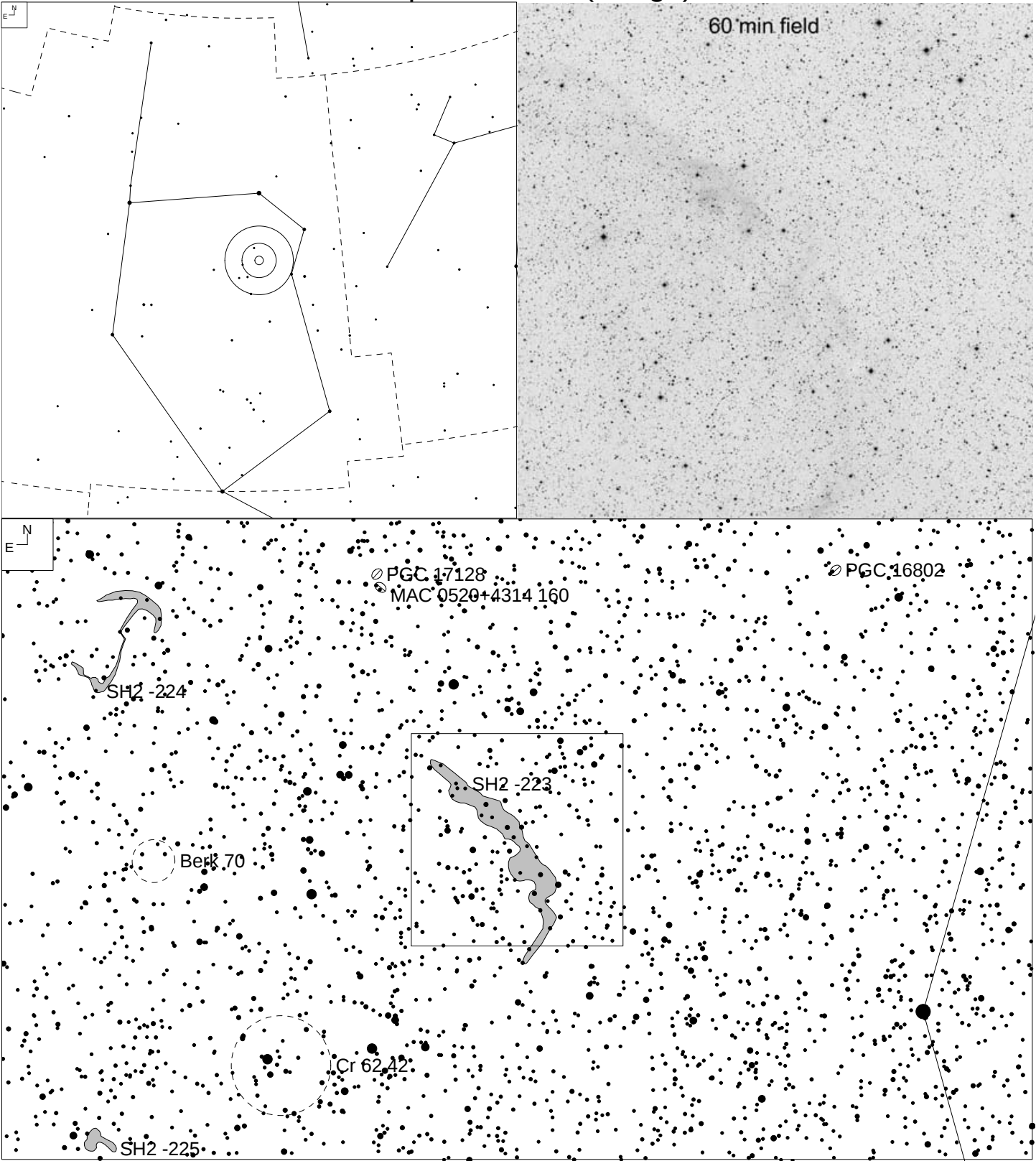
Other ID	Type	RA	Dec	Mag	* Mag	Size
LBN 754	SNR	04 54 48.0	+46 41 00	-	-	25.3 x 9.2'

Kohoutek 2-1 (Auriga)



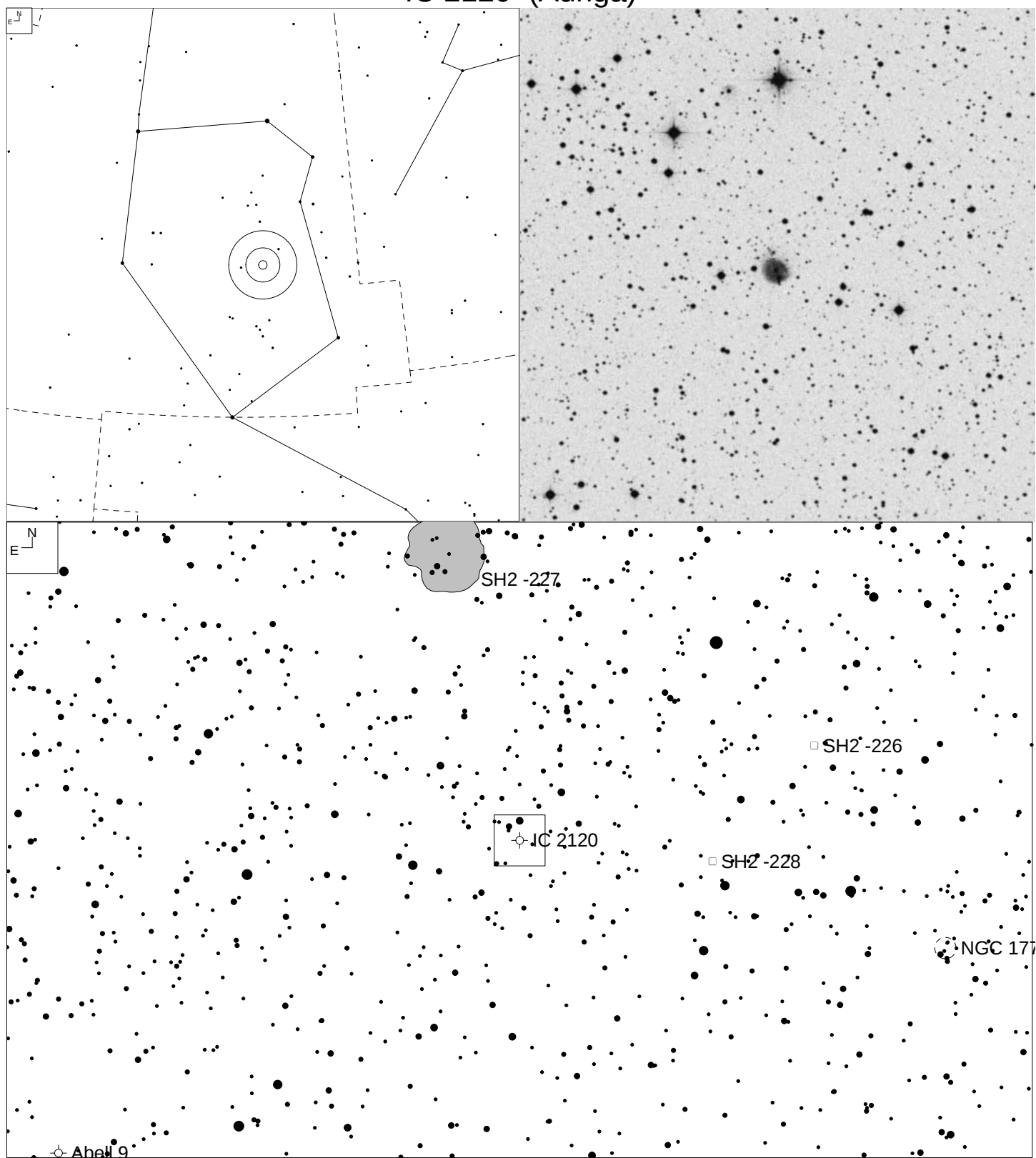
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 173-05.1	-	05 07 08.1	+30 49 26	13.7p	18.8	2.2'

Sharpless 2-223 (Auriga)



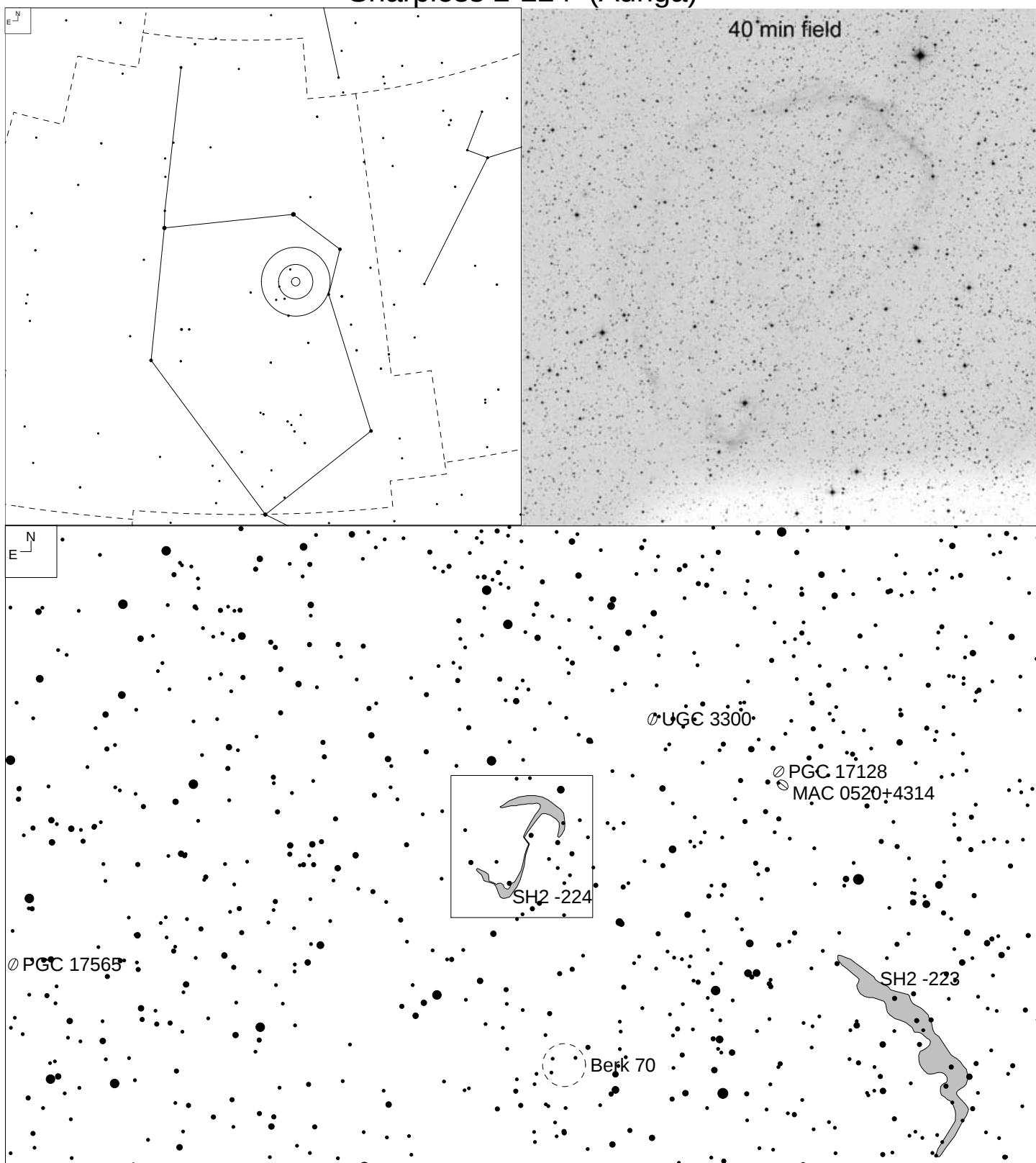
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	SNR	05 16 38.0	+42 04 00	-	-	60 x 7'

IC 2120 (Auriga)



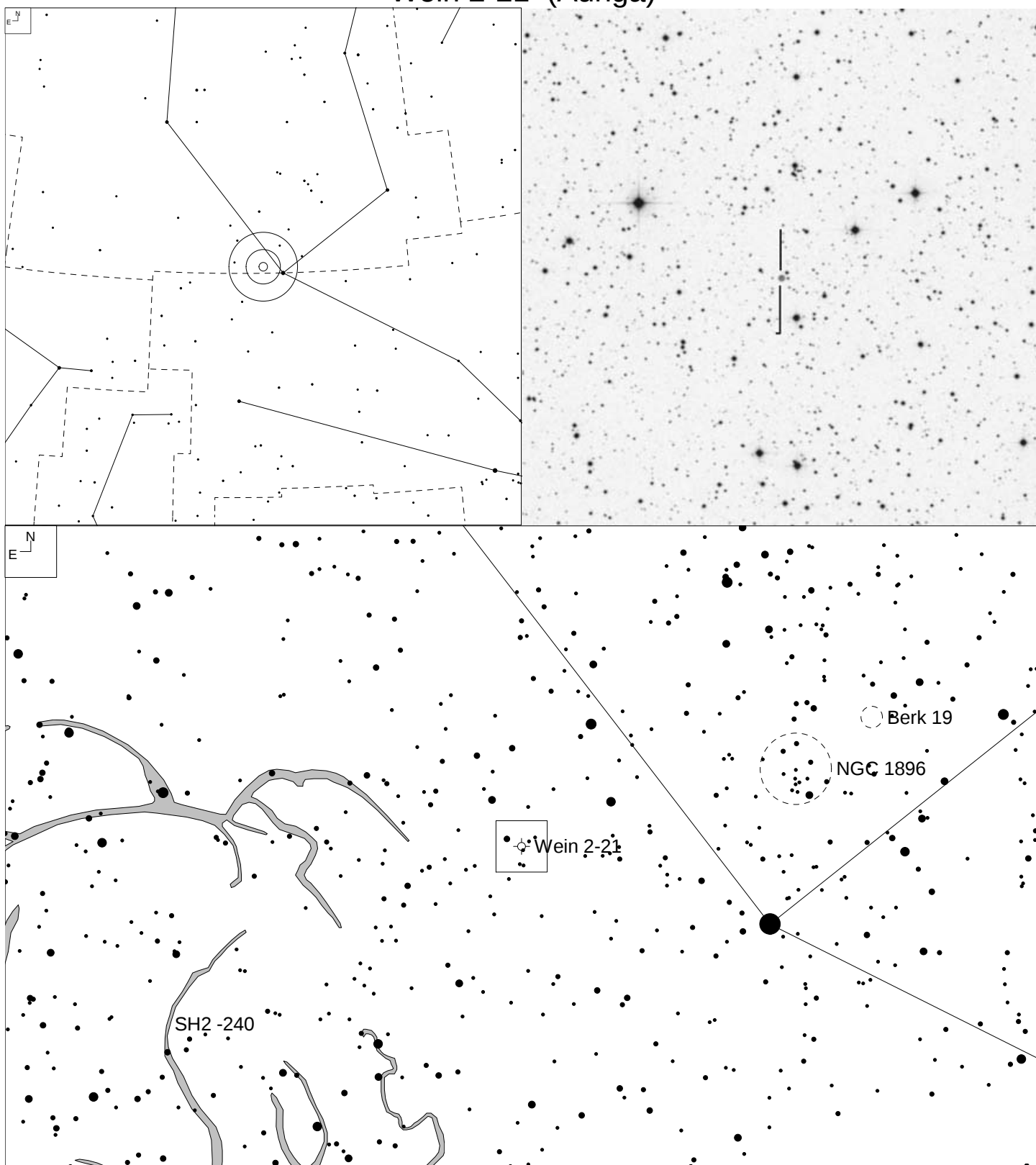
Other ID	Type	RA	Dec	Mag	* Mag	Size
Minkowski 2-3 PK 169-0.1	2	05 18 10.4	+37 33 28	12p	16.2	50"

Sharpless 2-224 (Auriga)



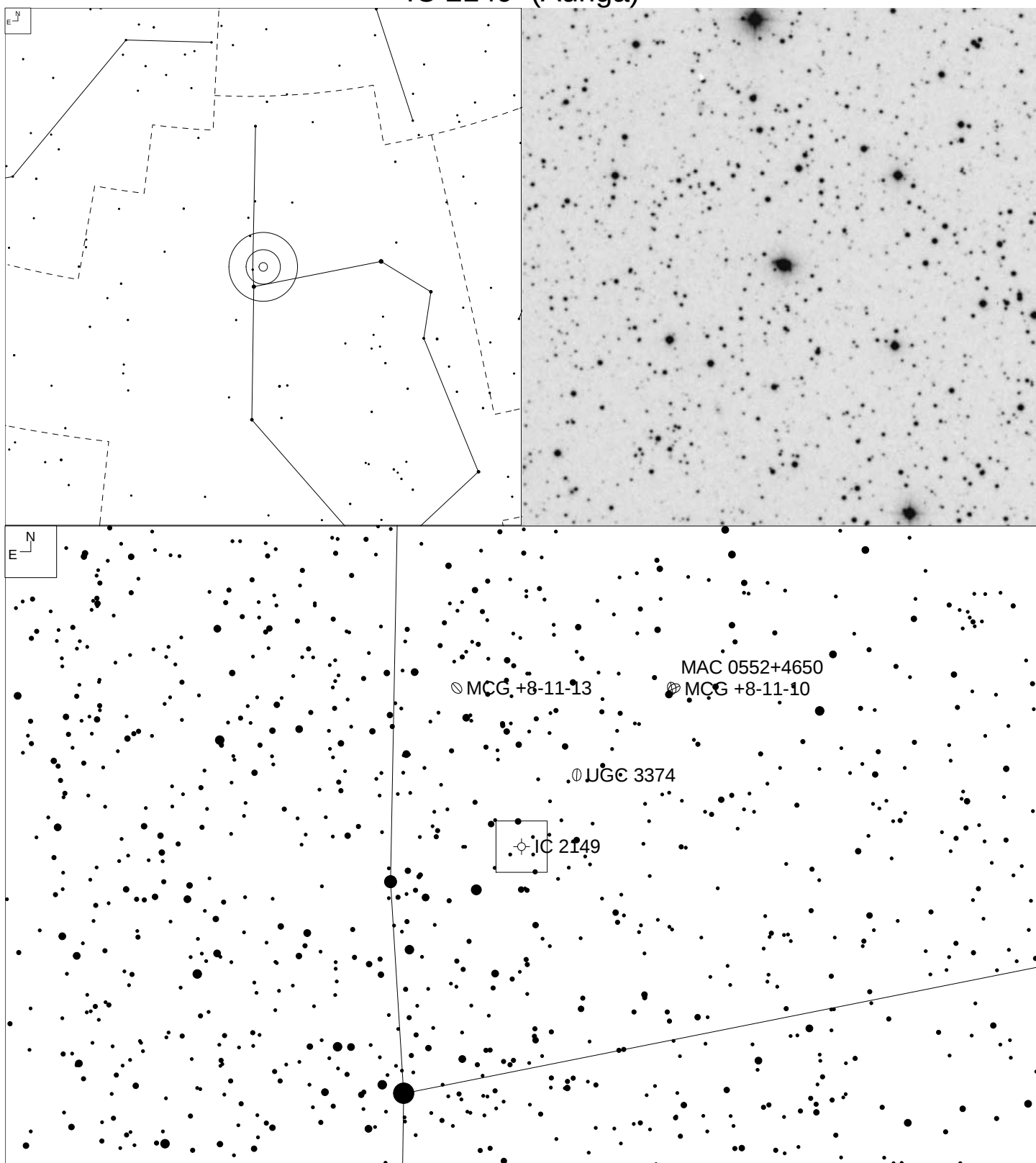
Other ID	Type	RA	Dec	Mag	* Mag	Size
LBN 769	SNR	05 26 52.0	+42 58 00	-	-	30.5x17.5'

Wein 2-21 (Auriga)



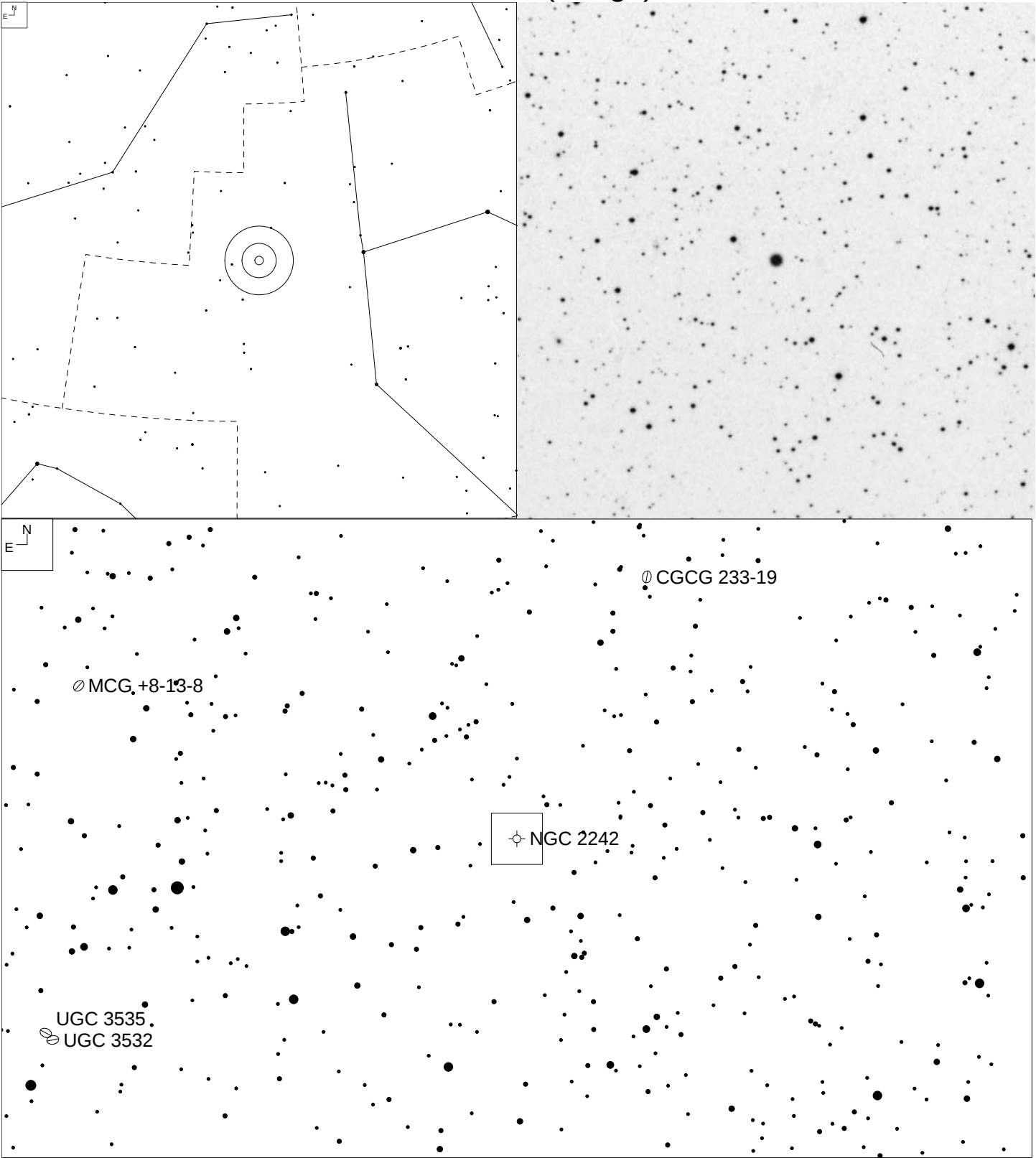
Other ID	Type	RA	Dec	Mag	* Mag	Size
Kohoutek 3-68	-	05 31 36.0	+28 58 39	16.1p	-	10"
PK 178-02.1						

IC 2149 (Auriga)



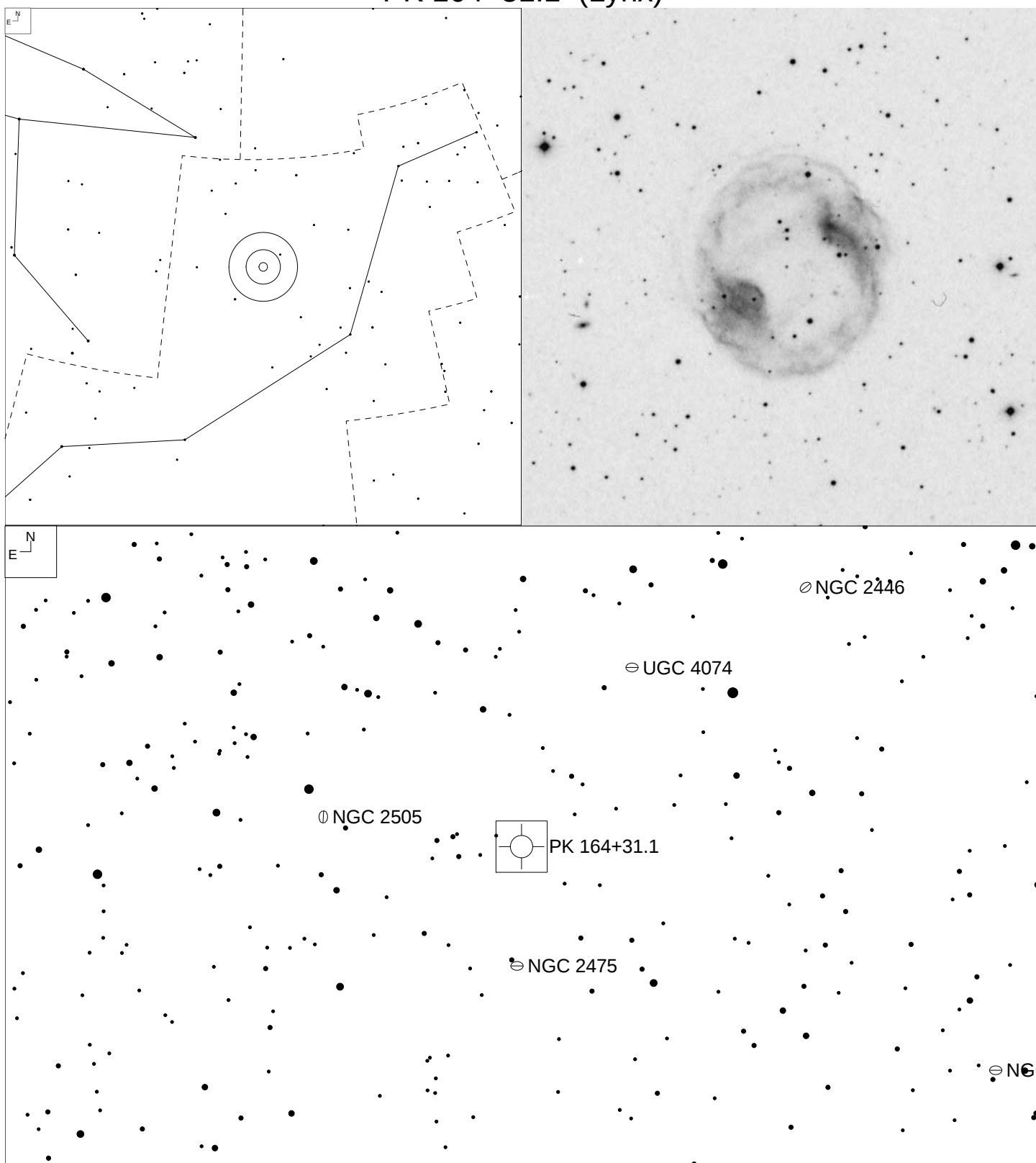
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 166+10.1	3b+2	05 56 24.0	+46 06 15	11.2p 10.6v	7.5p	34 x 29"

NGC 2242 (Auriga)



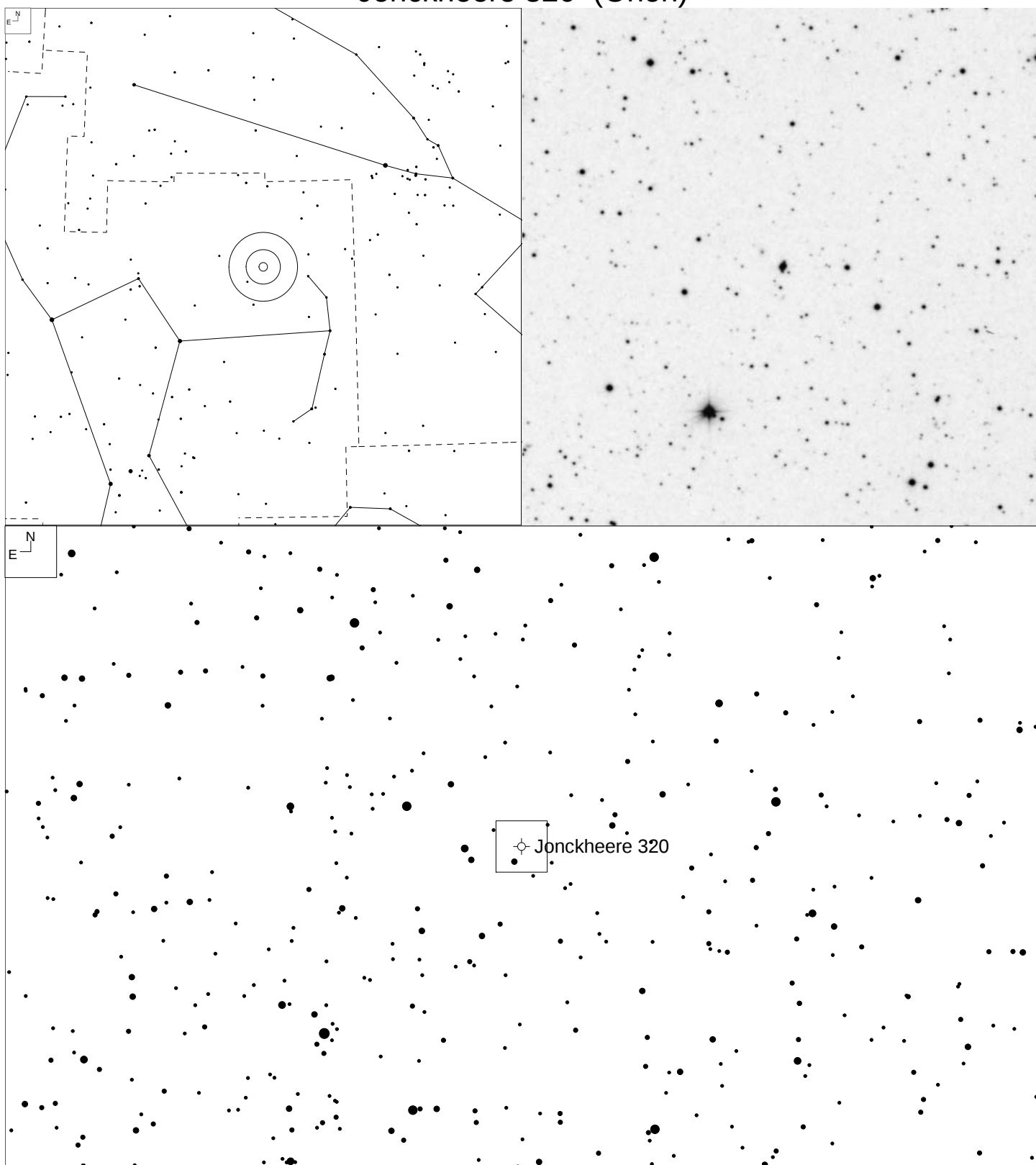
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 170.3+15.8	-	06 34 07.6	+44 46 37	15.0p	17.6	22"

PK 164+31.1 (Lynx)



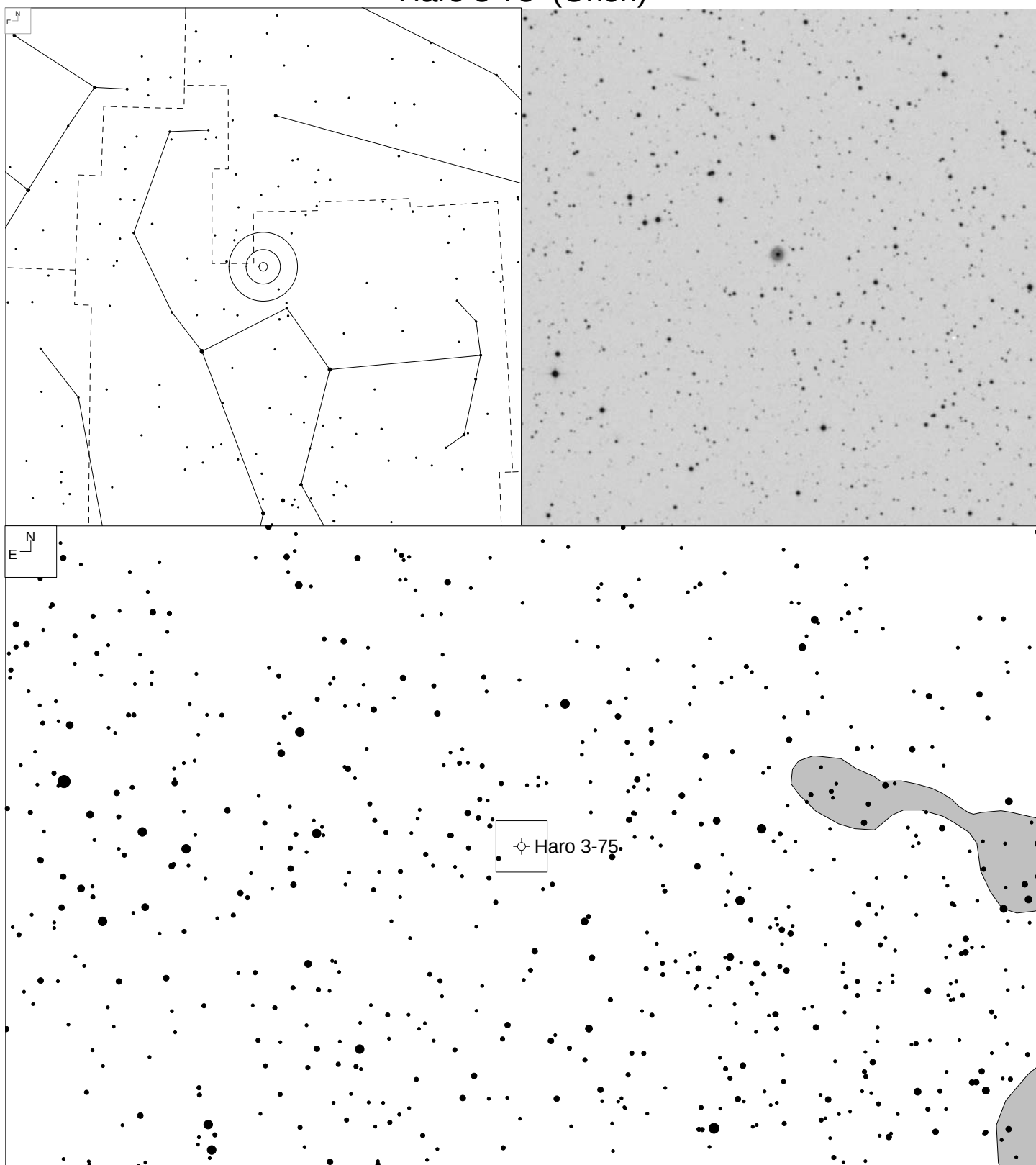
Other ID	Type	RA	Dec	Mag	* Mag	Size
JE 1	4	07 57 51.7	+53 25 16	14.0p 12.1v	16.8	6.3'

Jonckheere 320 (Orion)



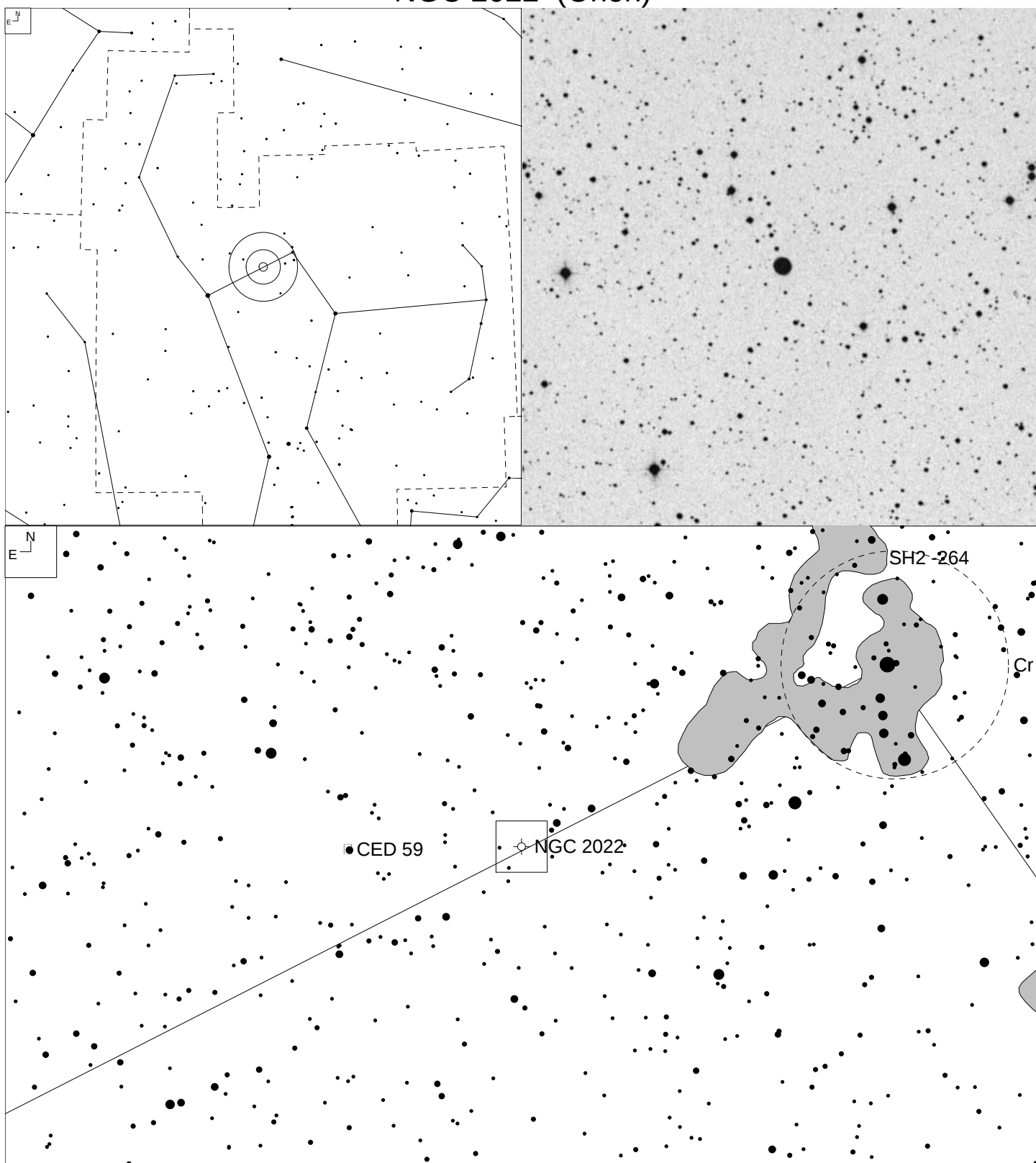
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 190-17.1	2+4	05 05 34.3	+10 42 23	12.9p 11.9v	14.4	26 x 14"

Haro 3-75 (Orion)



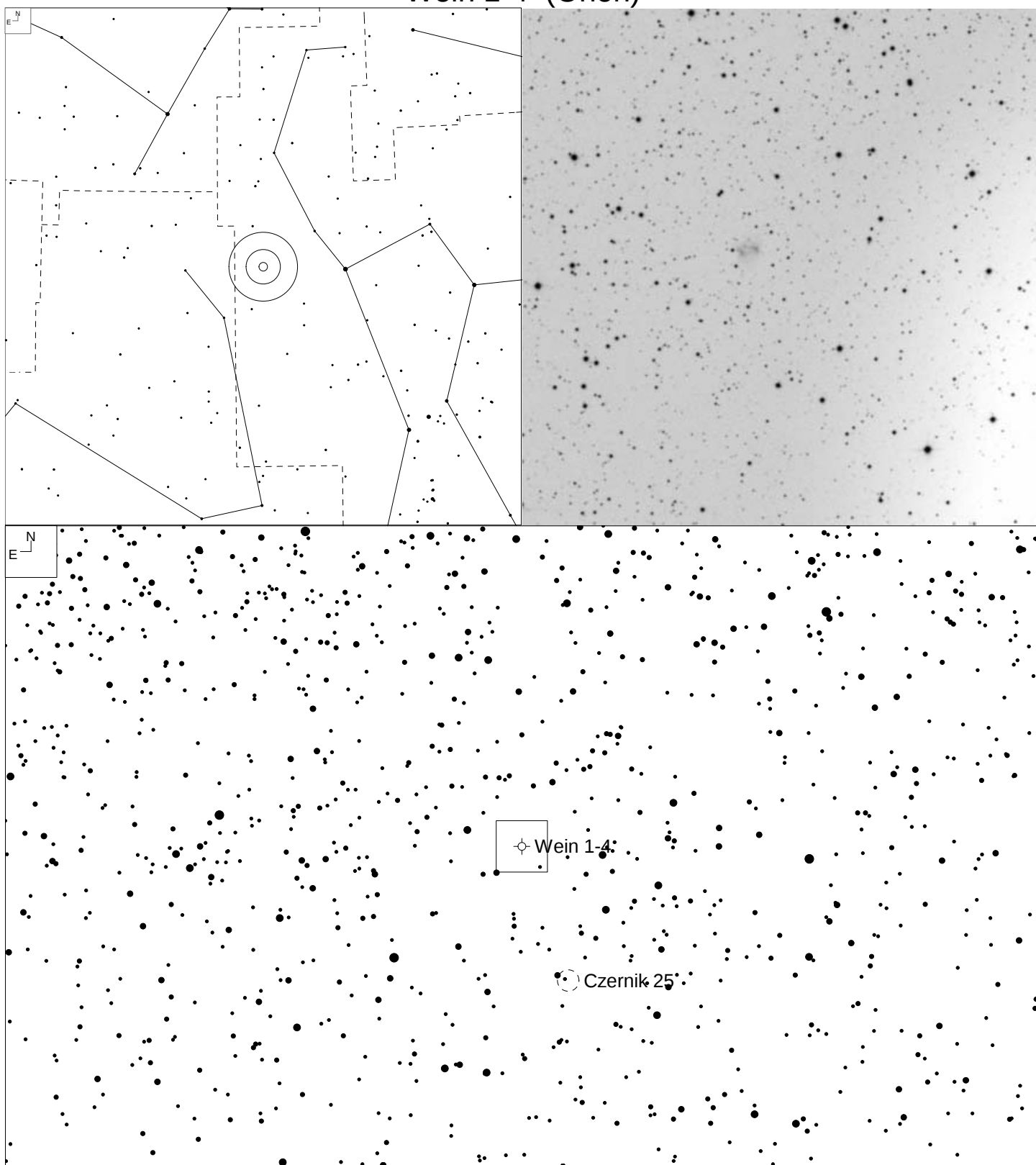
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 193-9.1	-	05 40 45.1	+12 21 21	13.9p 13.9v	-	24"

NGC 2022 (Orion)



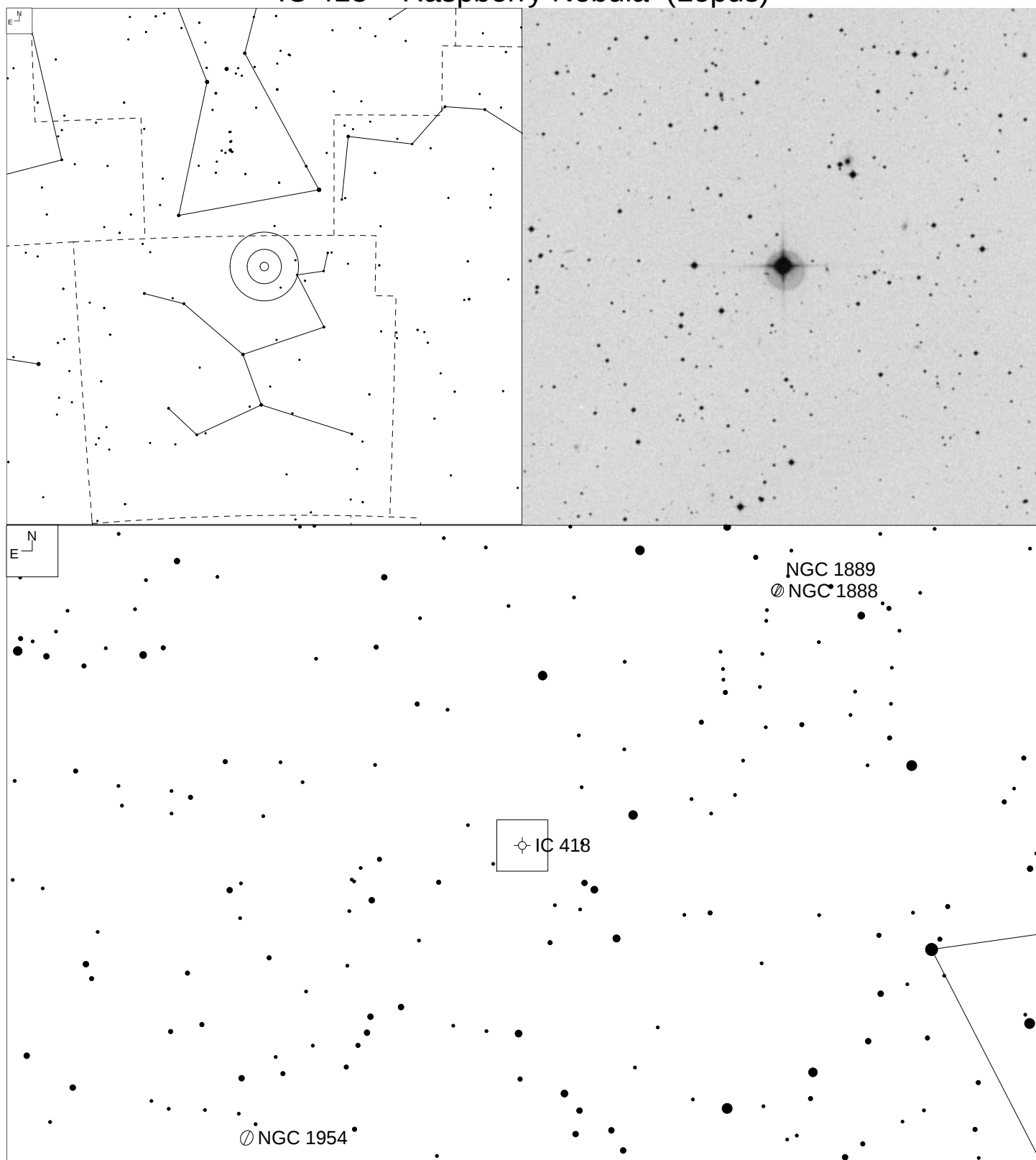
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 196-10.1	4+2	05 42 06.2	+09 05 13	12.4p 11.6v	14.9	35"

Wein 1-4 (Orion)



Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 201-4.1	-	06 14 33.6	+07 34 29	-	21.1	40"

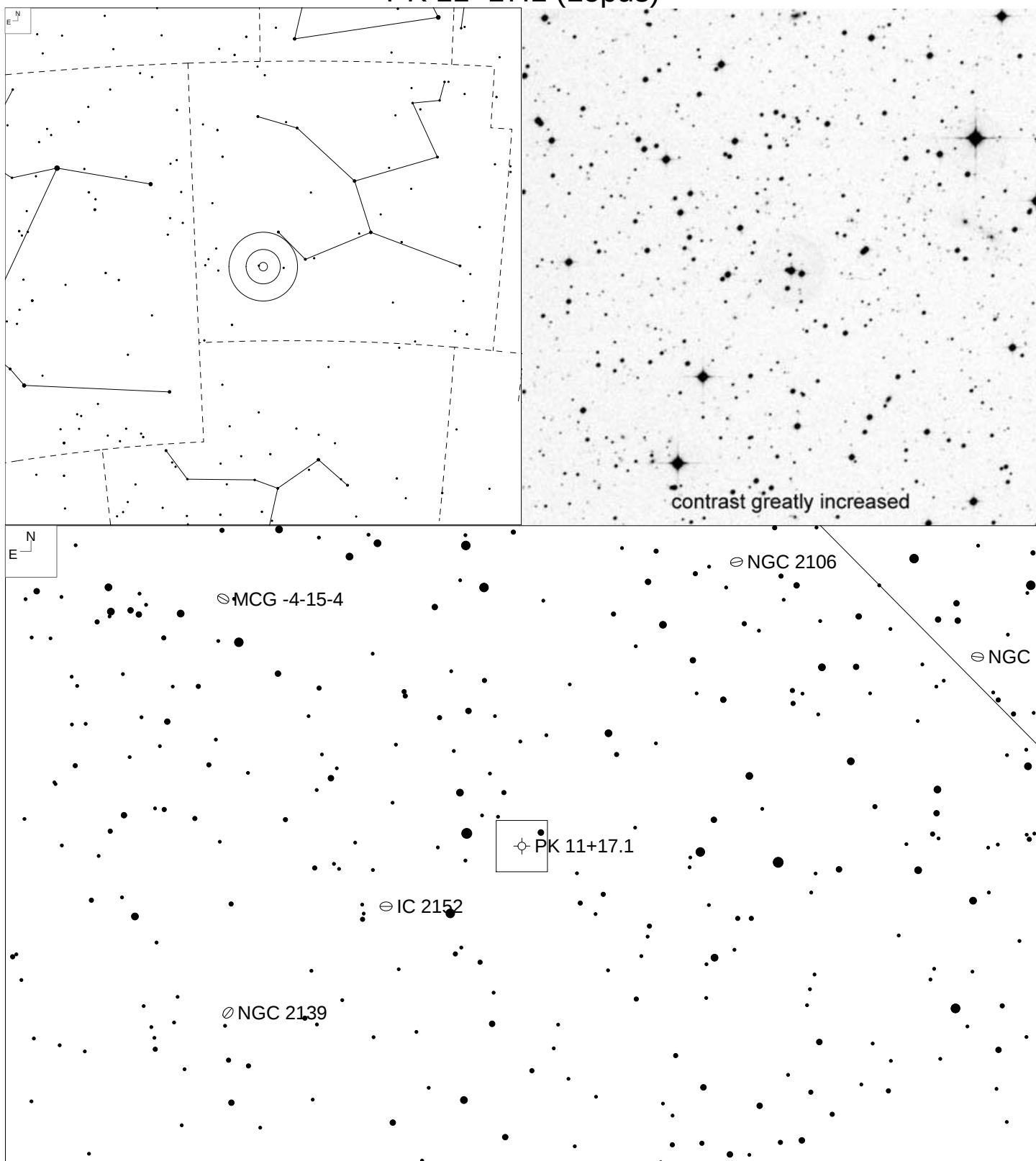
IC 418 – Raspberry Nebula (Lepus)



Without O-III filter, halo extends 30-40"

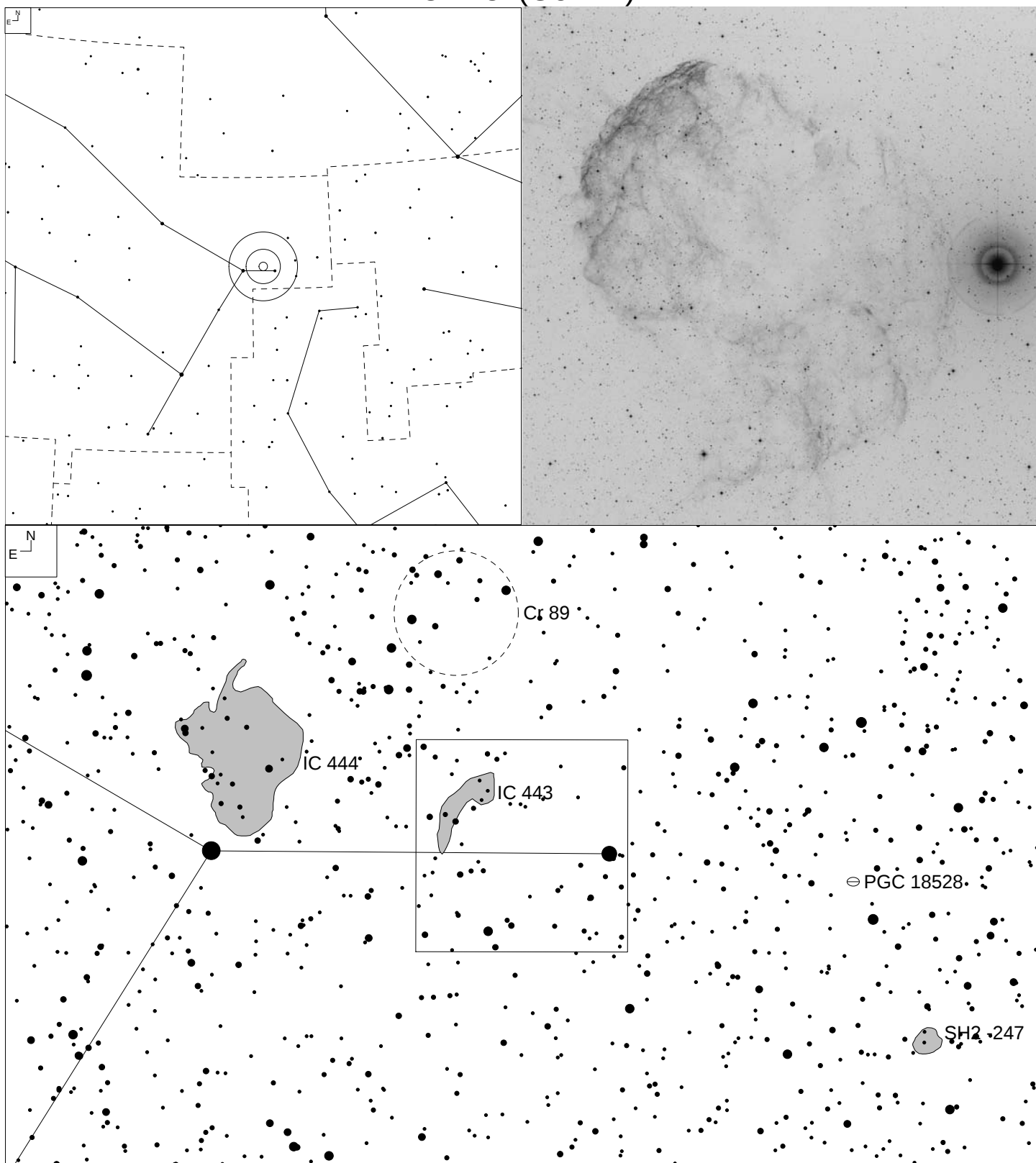
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 215-24.1	4	05 27 28.2	-12 41 49	10.7p 9.3v	10.1	12"

PK 11+17.1 (Lepus)



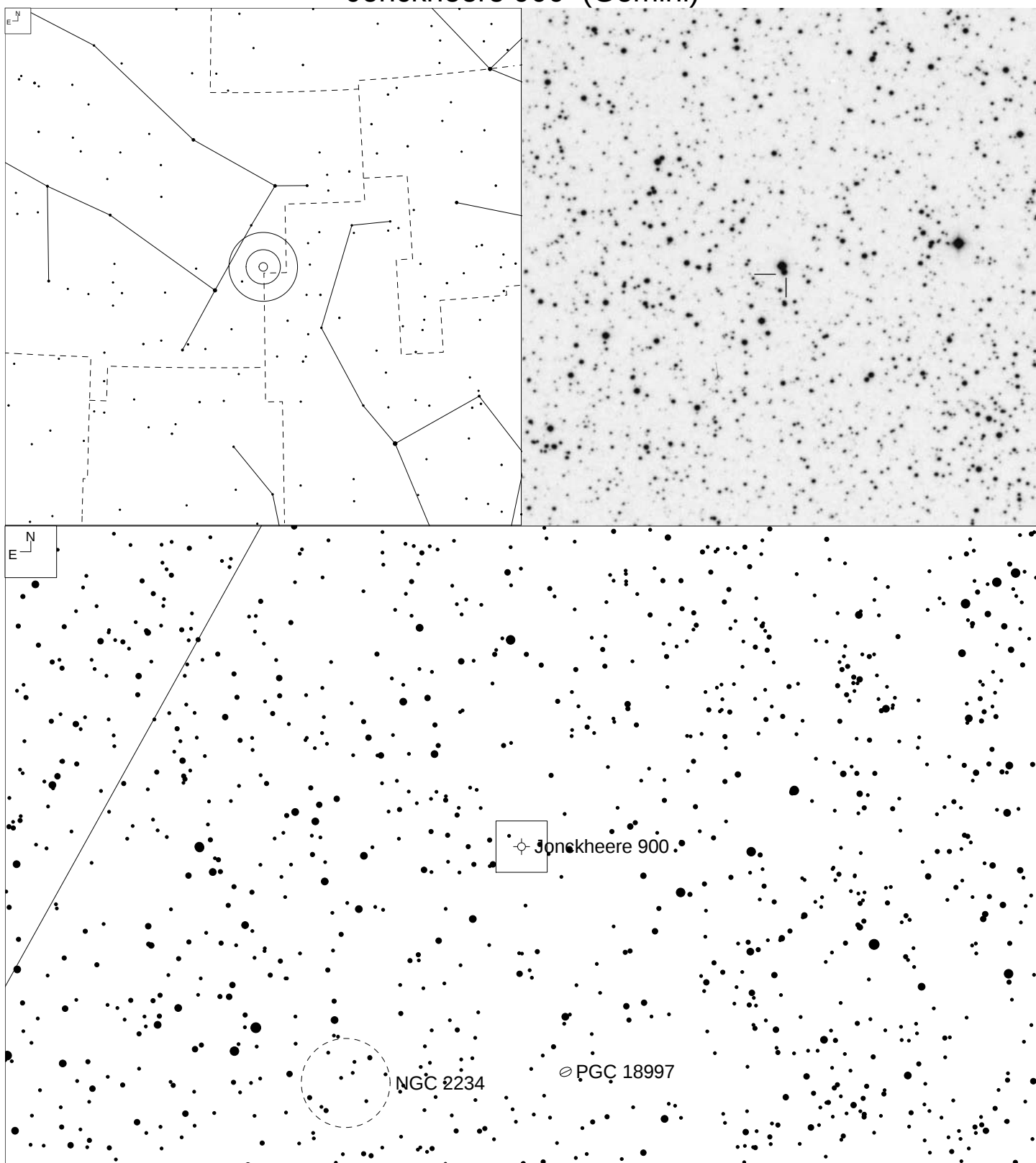
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	05 55 06.8	-22 54 02	-	-	2.2'

IC 443 (Gemini)



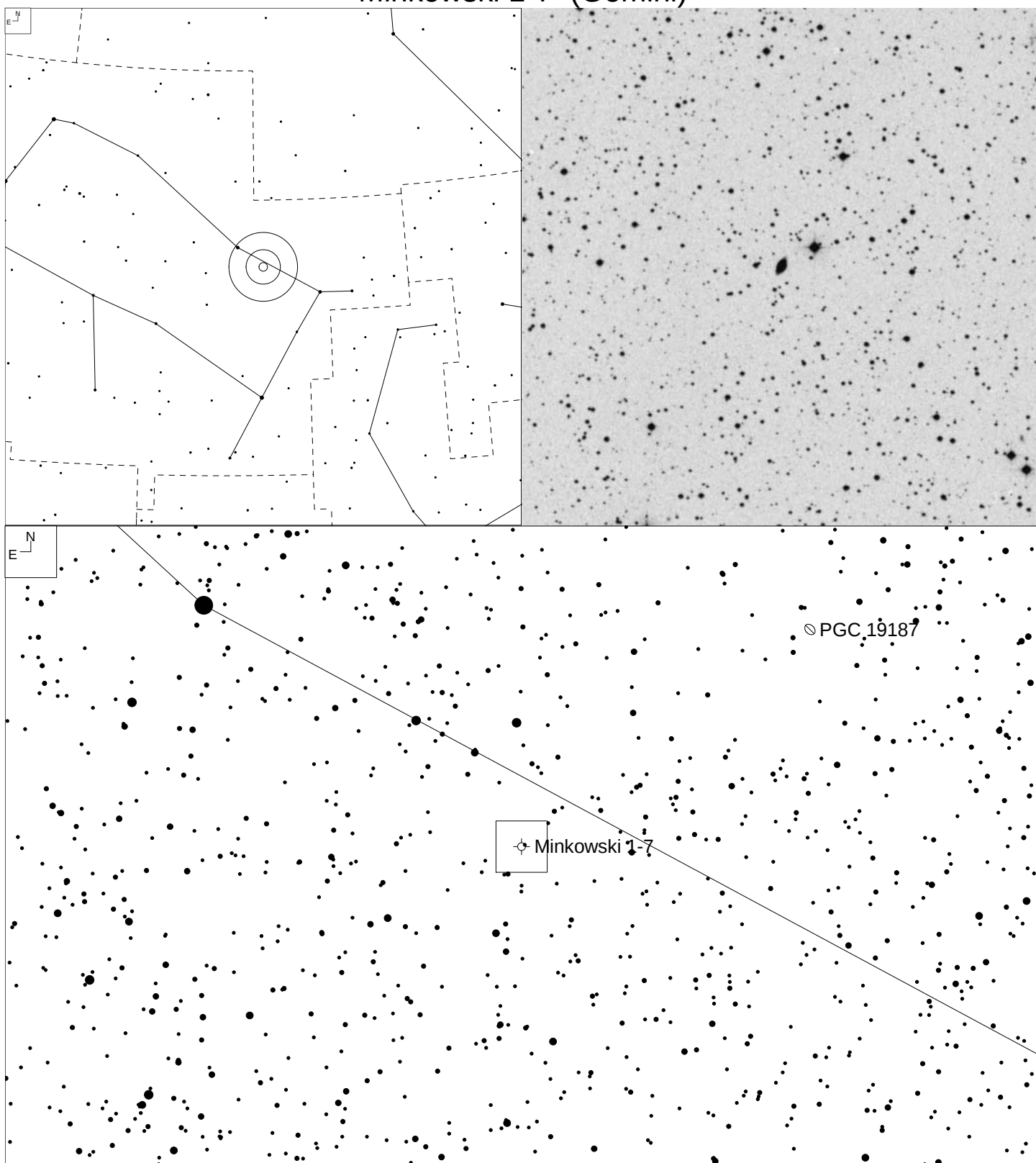
Other ID	Type	RA	Dec	Mag	* Mag	Size
LBN 844	SNR	06 17 52.0	+22 46 00	-	-	27 x 7'

Jonckheere 900 (Gemini)



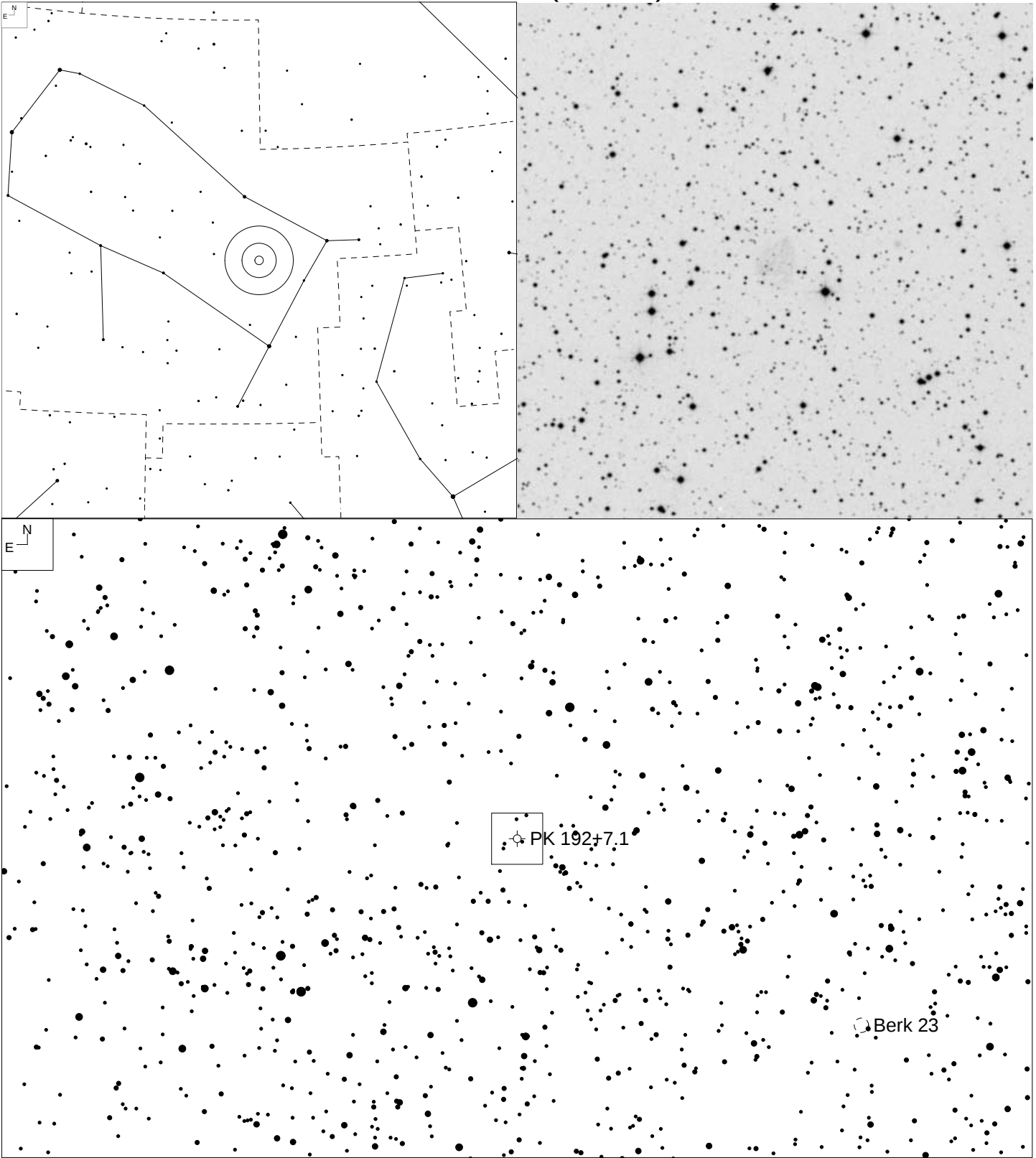
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 194+2.1	3b+2	06 25 57.4	+17 47 26	12.4p 11.7v	17.8	12x10"

Minkowski 1-7 (Gemini)



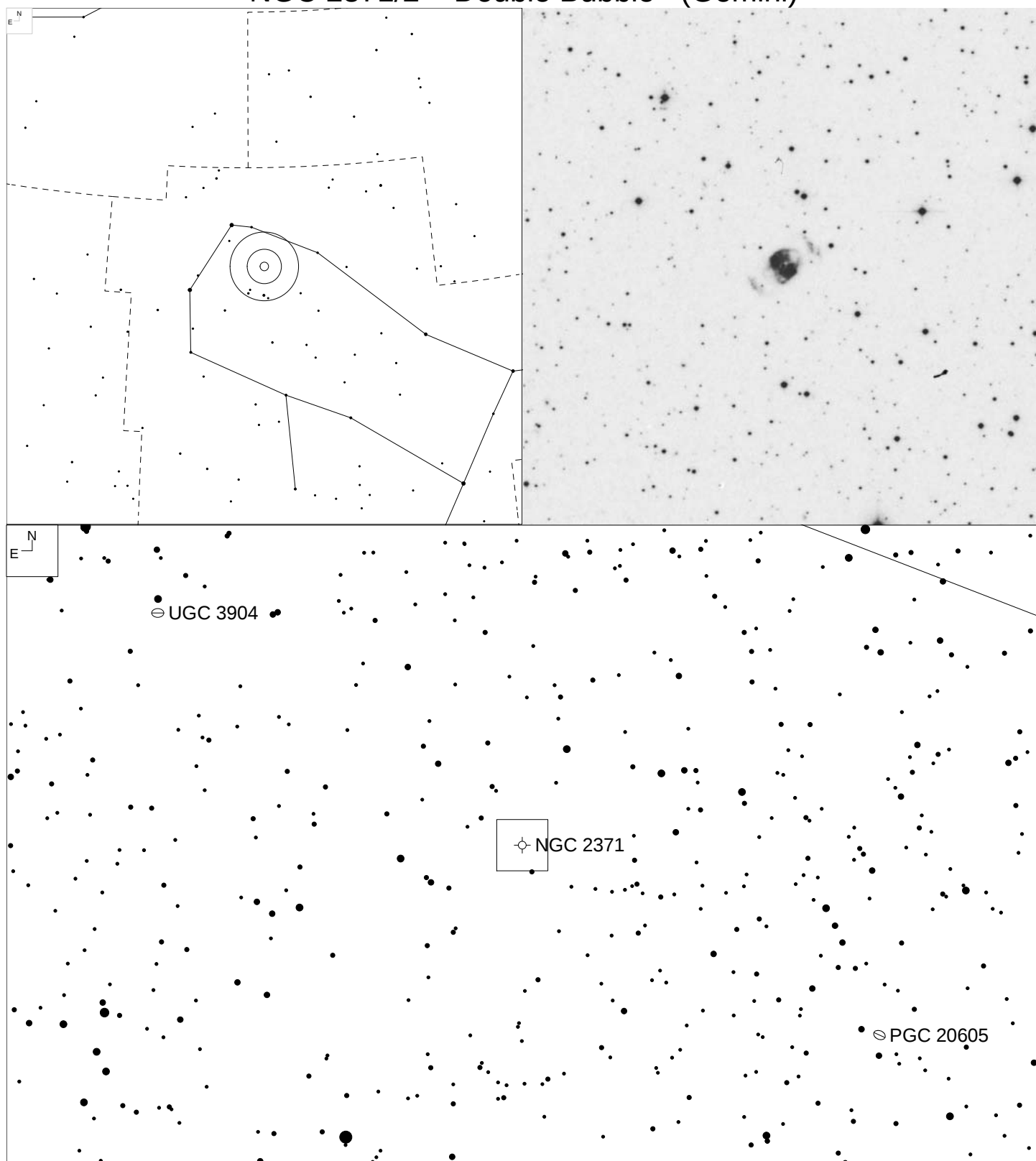
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 189+7.1	2	06 37 20.9	+24 00 37	13.4p 13.0v	19.6	32 x 15"

PK 192+7.1 (Gemini)



Other ID	Type	RA	Dec	Mag	* Mag	Size
-	2	06 40 09.5	+21 24 50	-	19.0	76"

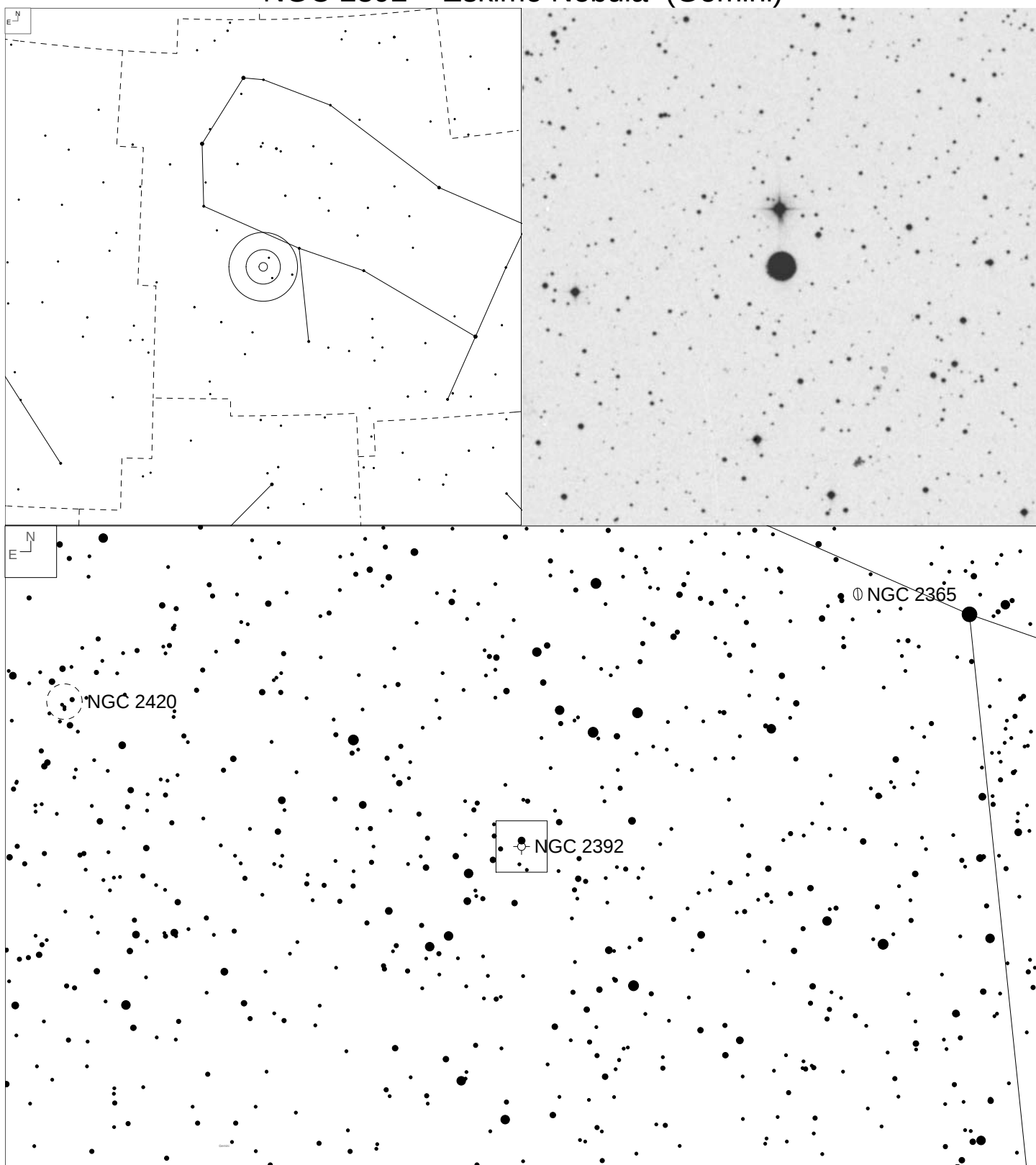
NGC 2371/2 – Double Bubble (Gemini)



Extensions - Broken arcs, difficult to discern, are SE and NW of poles.

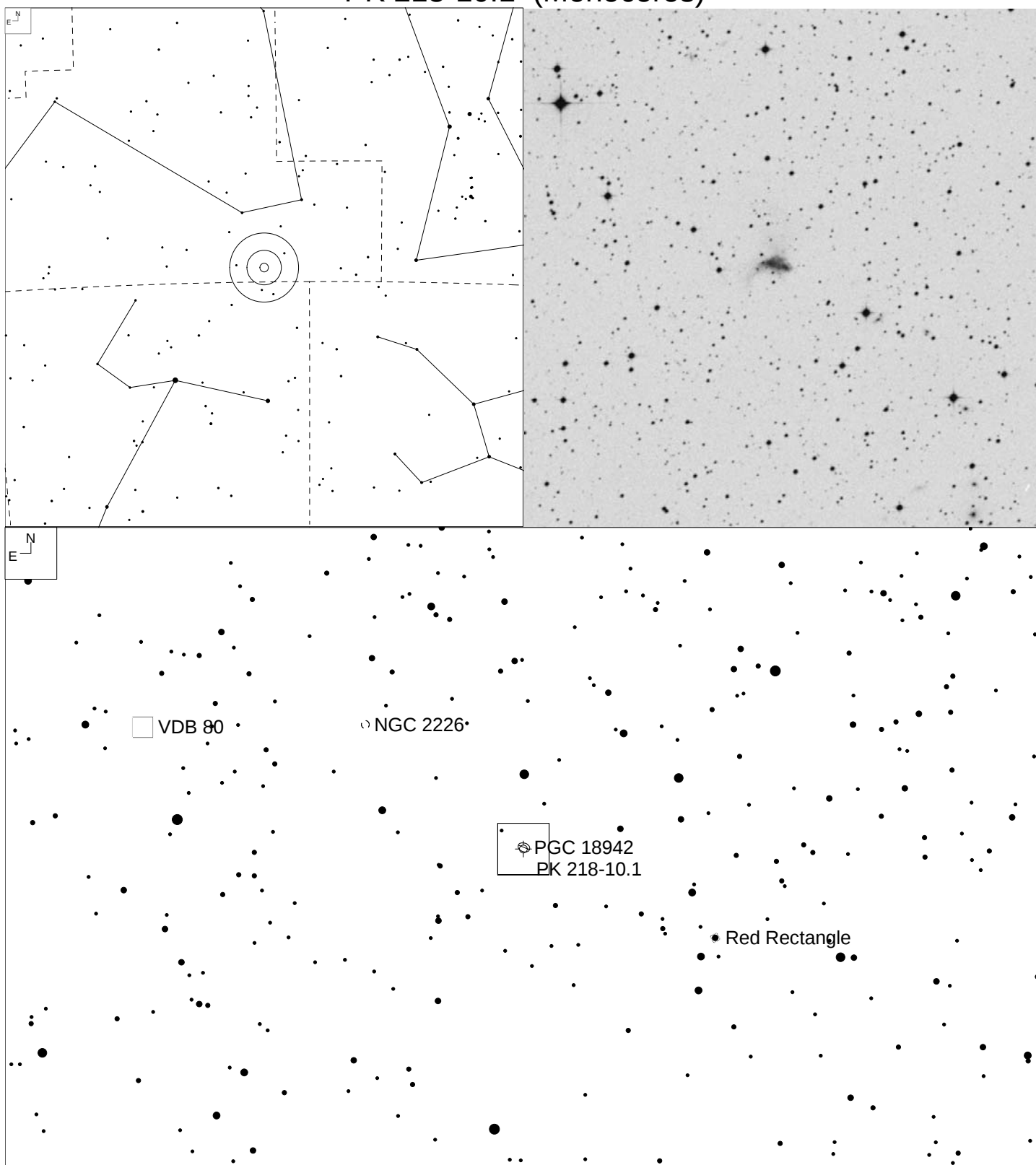
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 189+19.1	3a+2	07 25 34.8	+29 29 22	13.0p 11.2v	14.8	54x35"

NGC 2392 – Eskimo Nebula (Gemini)



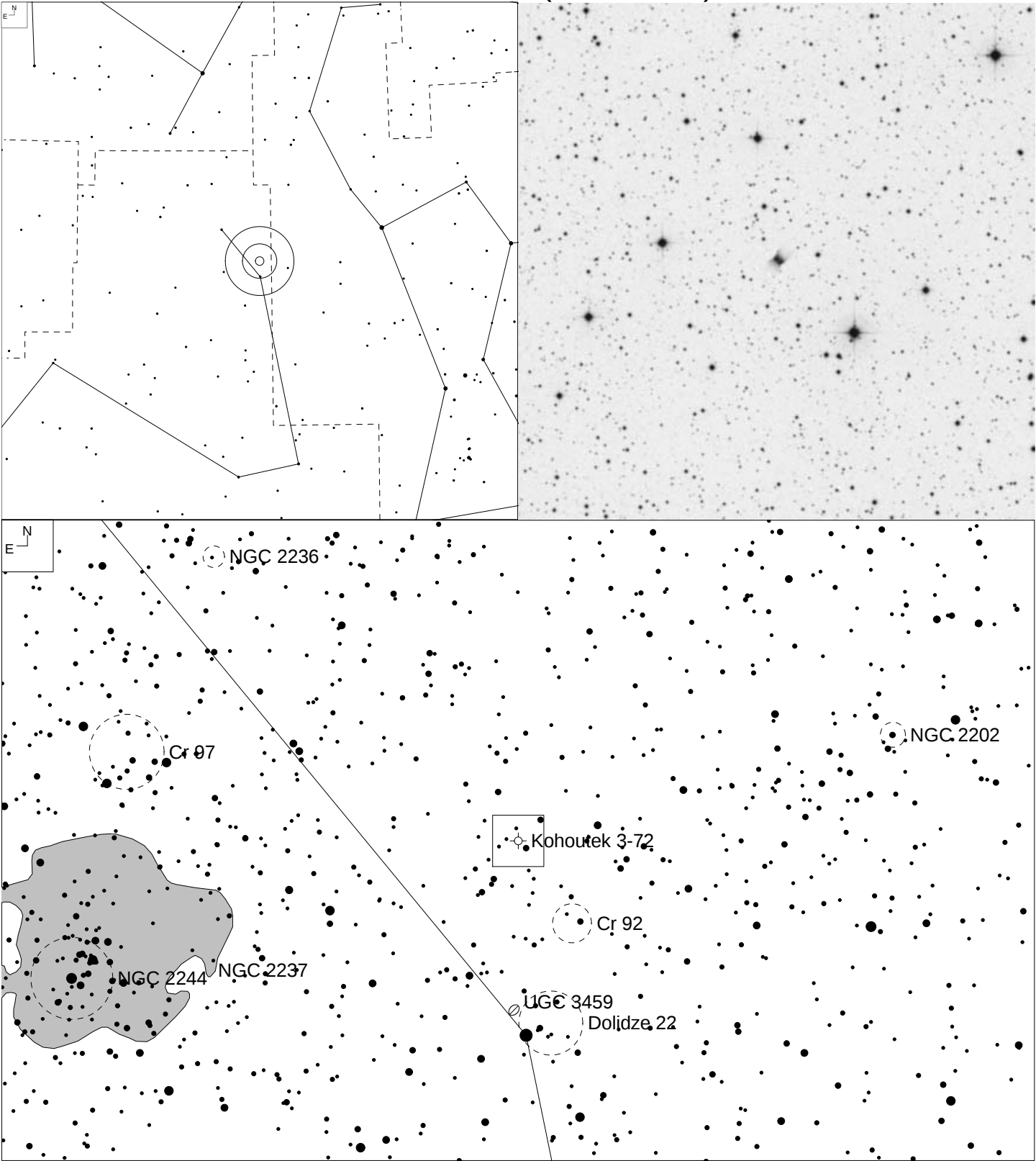
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 197+17.1	3b	07 29 11.0	+20 54 39	9.9p 9.1v	10.5	50"

PK 218-10.1 (Monoceros)



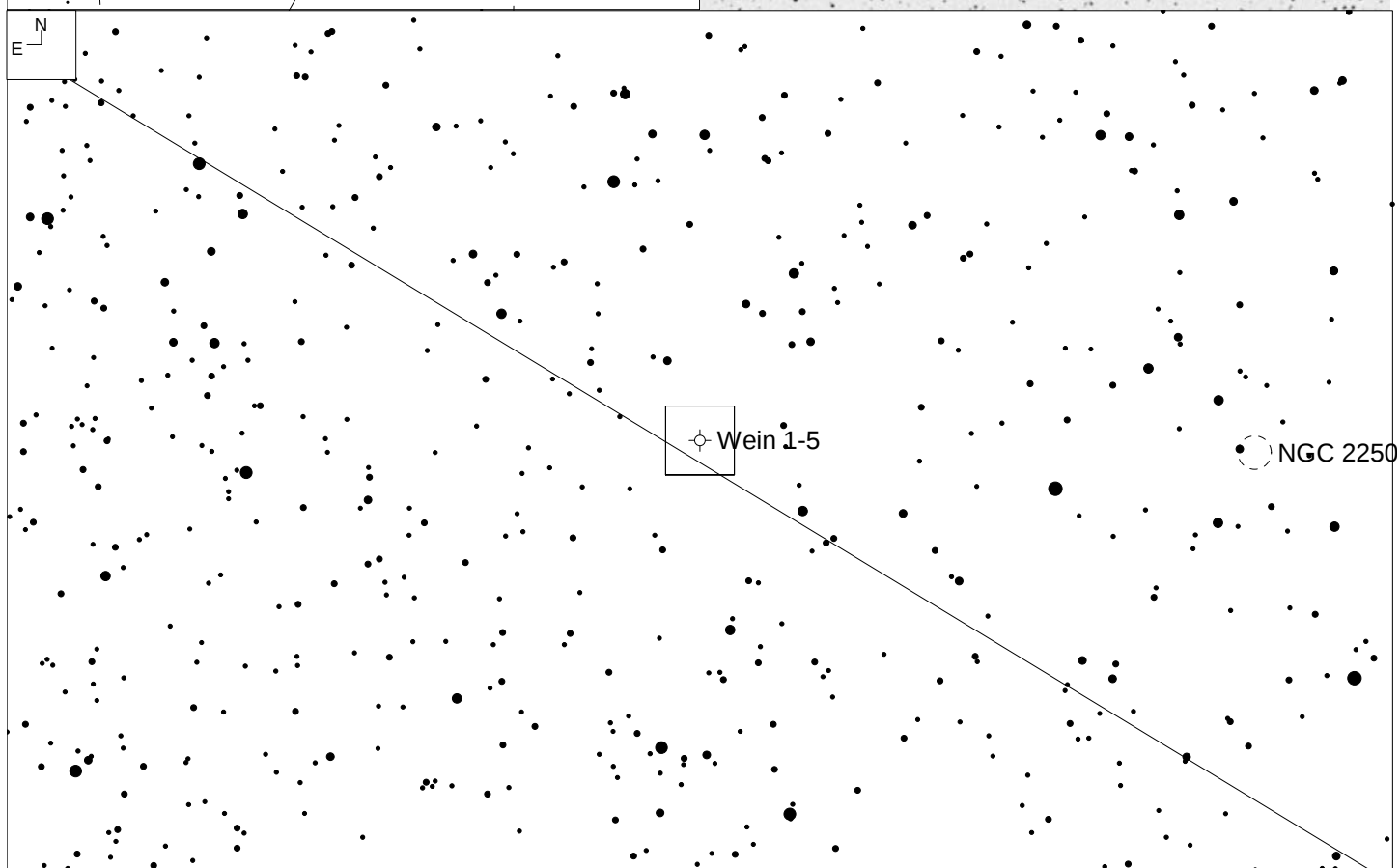
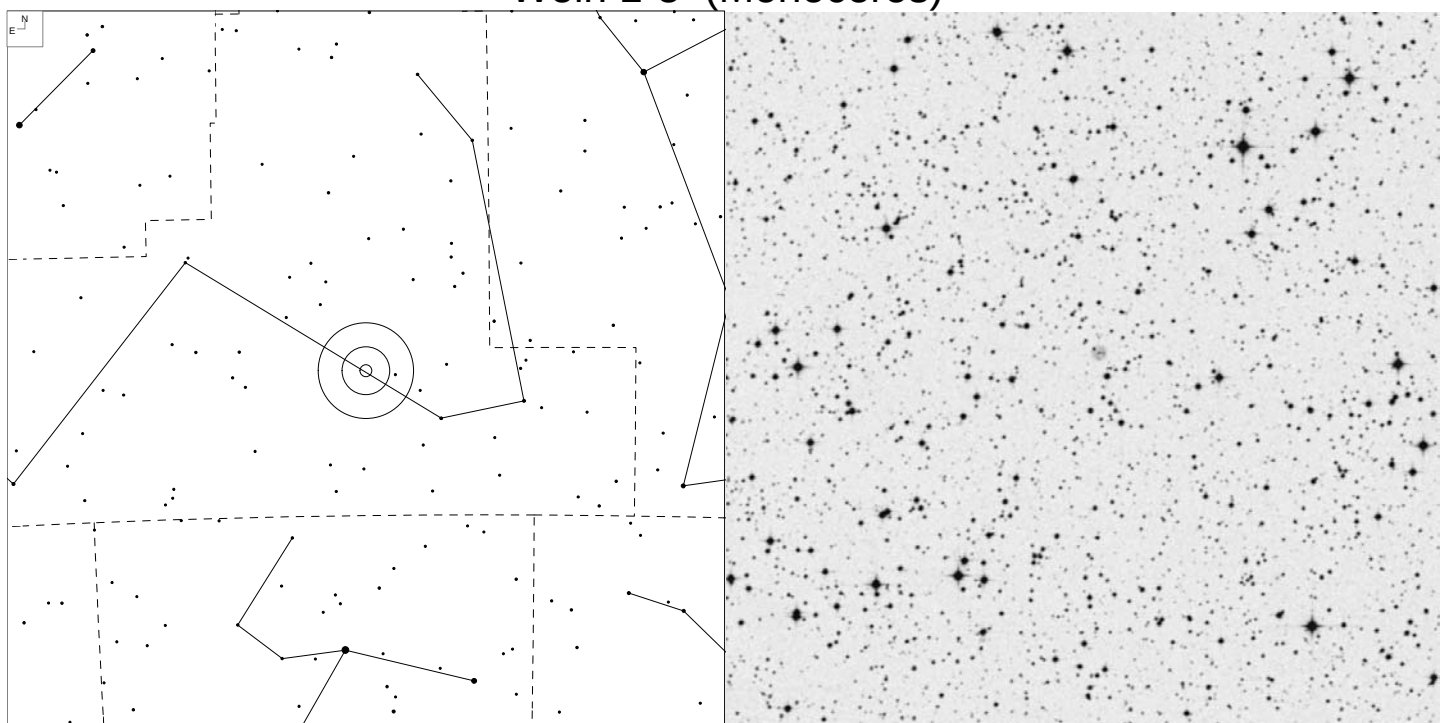
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	06 23 37.1	-10 13 24	15.4p	16.2	94"

Kohoutek 3-72 (Monoceros)



Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 204-3.1	-	06 23 55.0	+05 30 11	-	-	11"

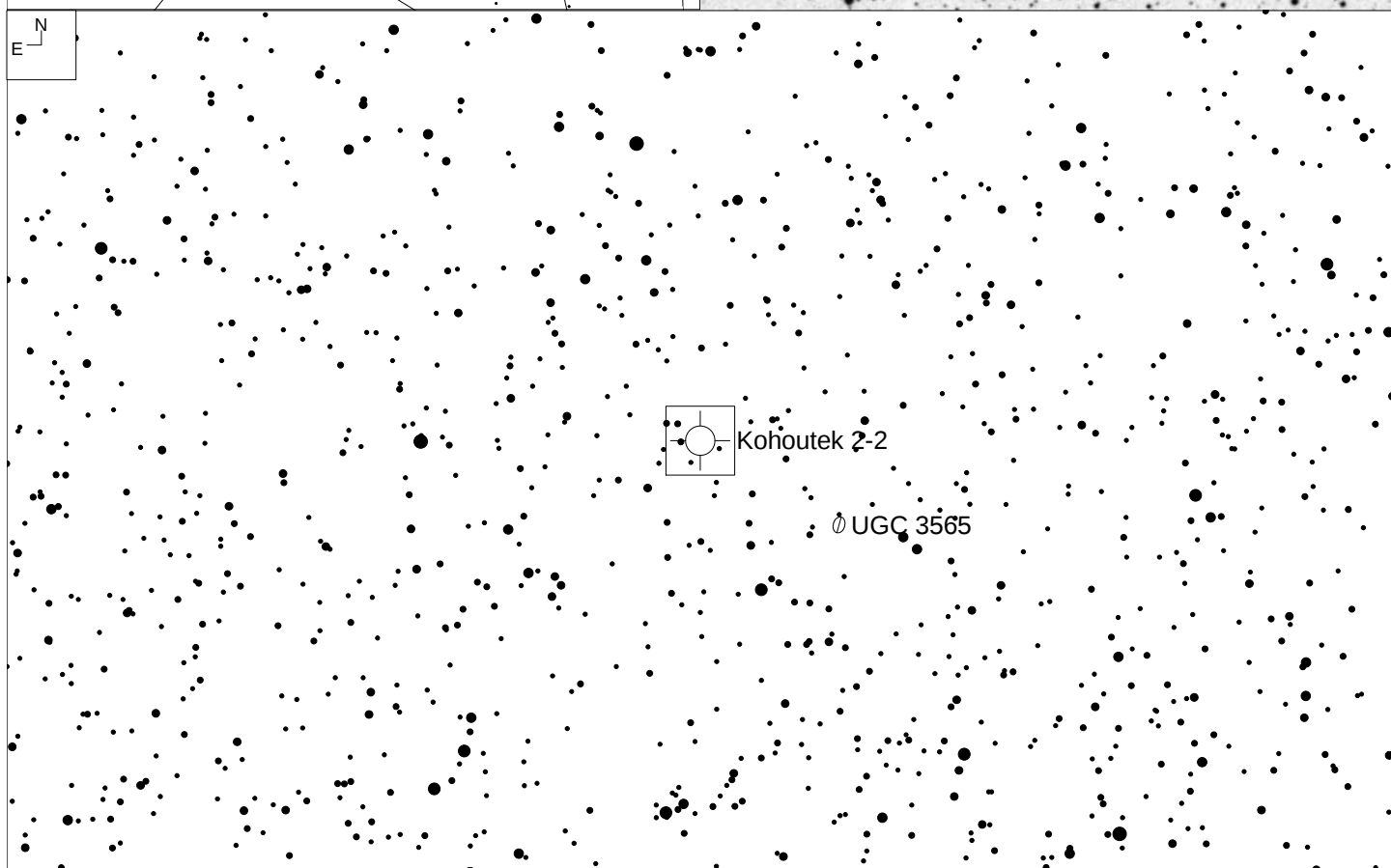
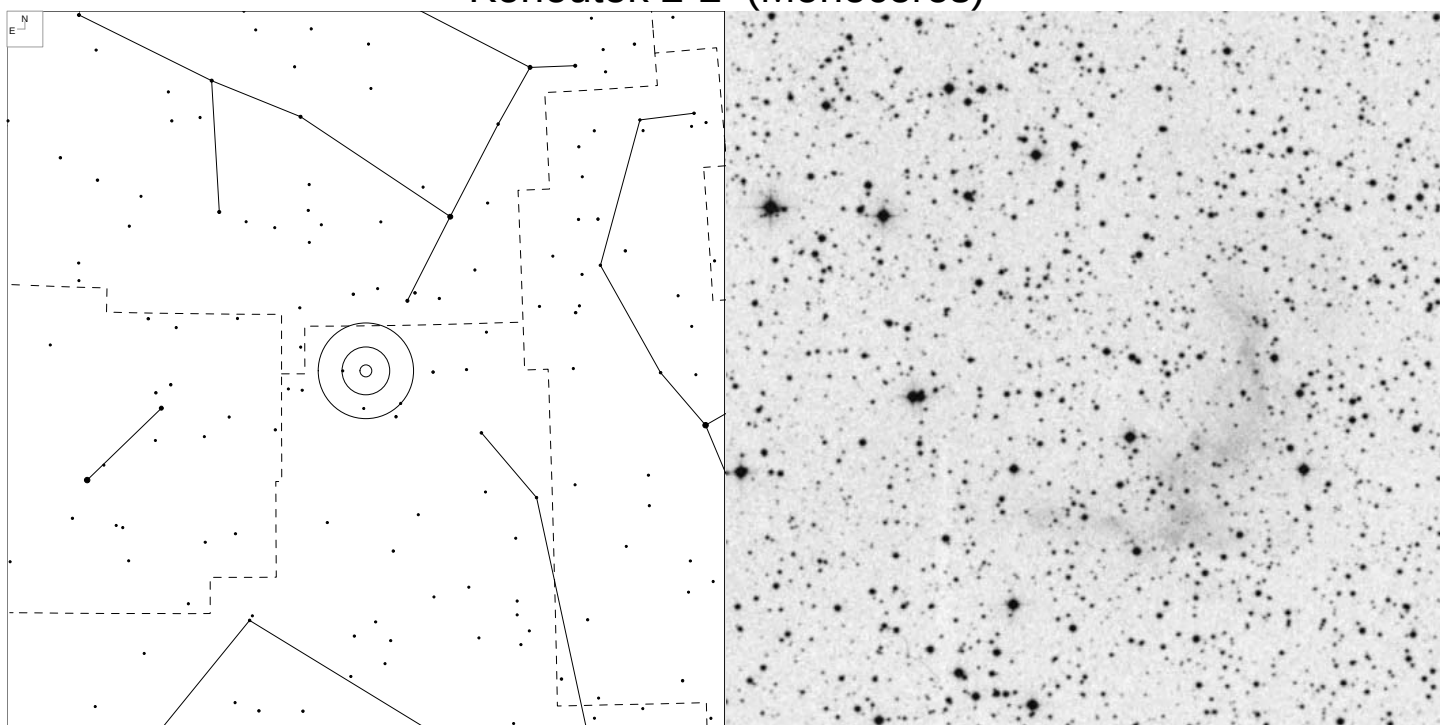
Wein 1-5 (Monoceros)



LM = 11.0

Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 216-04.1	-	06 41 34.7	-05 02 37	17.9p	19.1	15"

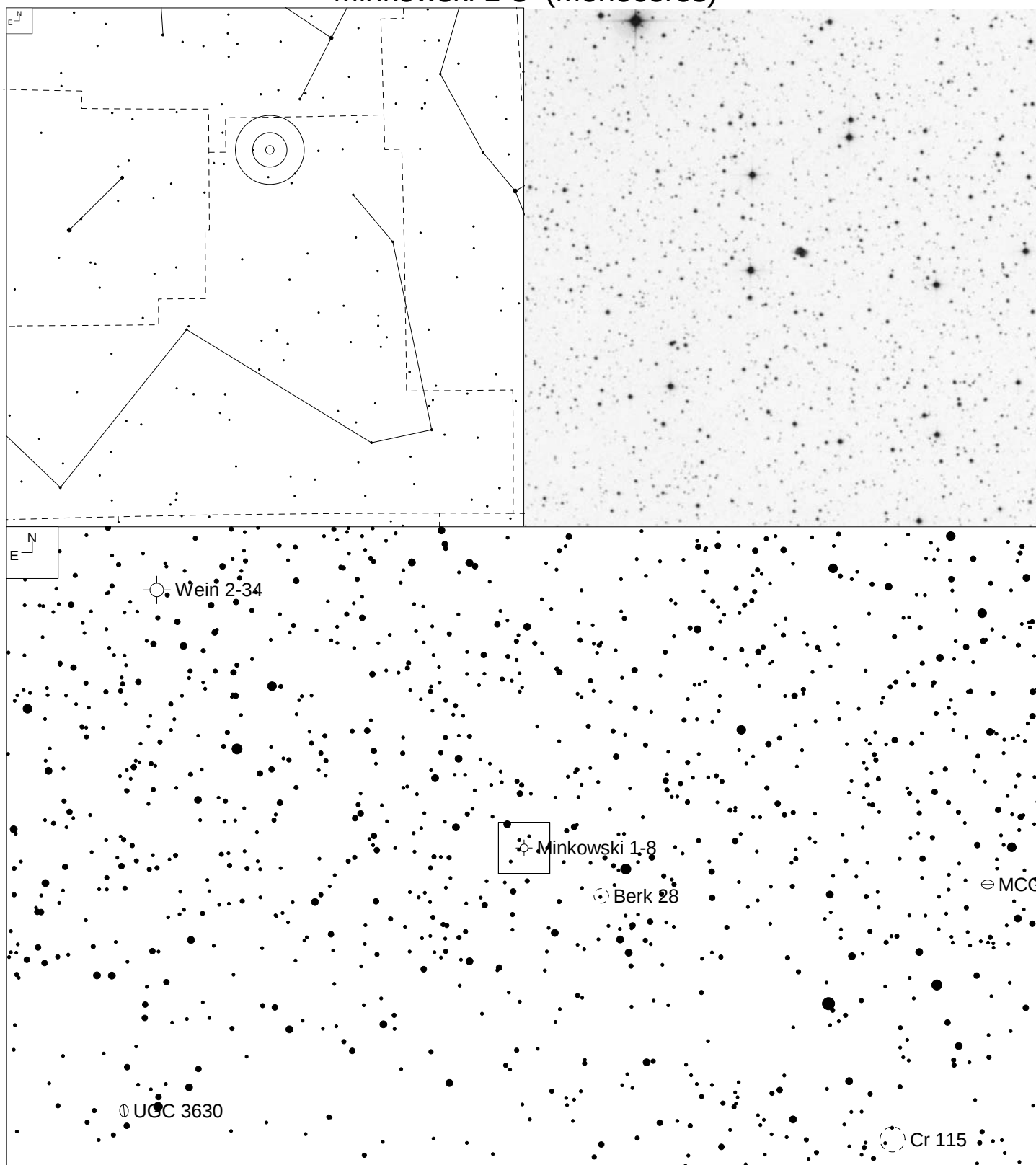
Kohoutek 2-2 (Monoceros)



LM = 11.0

Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 204+04.1	3	06 52 27.9	+09 57 40	12.5p	15	6.2'

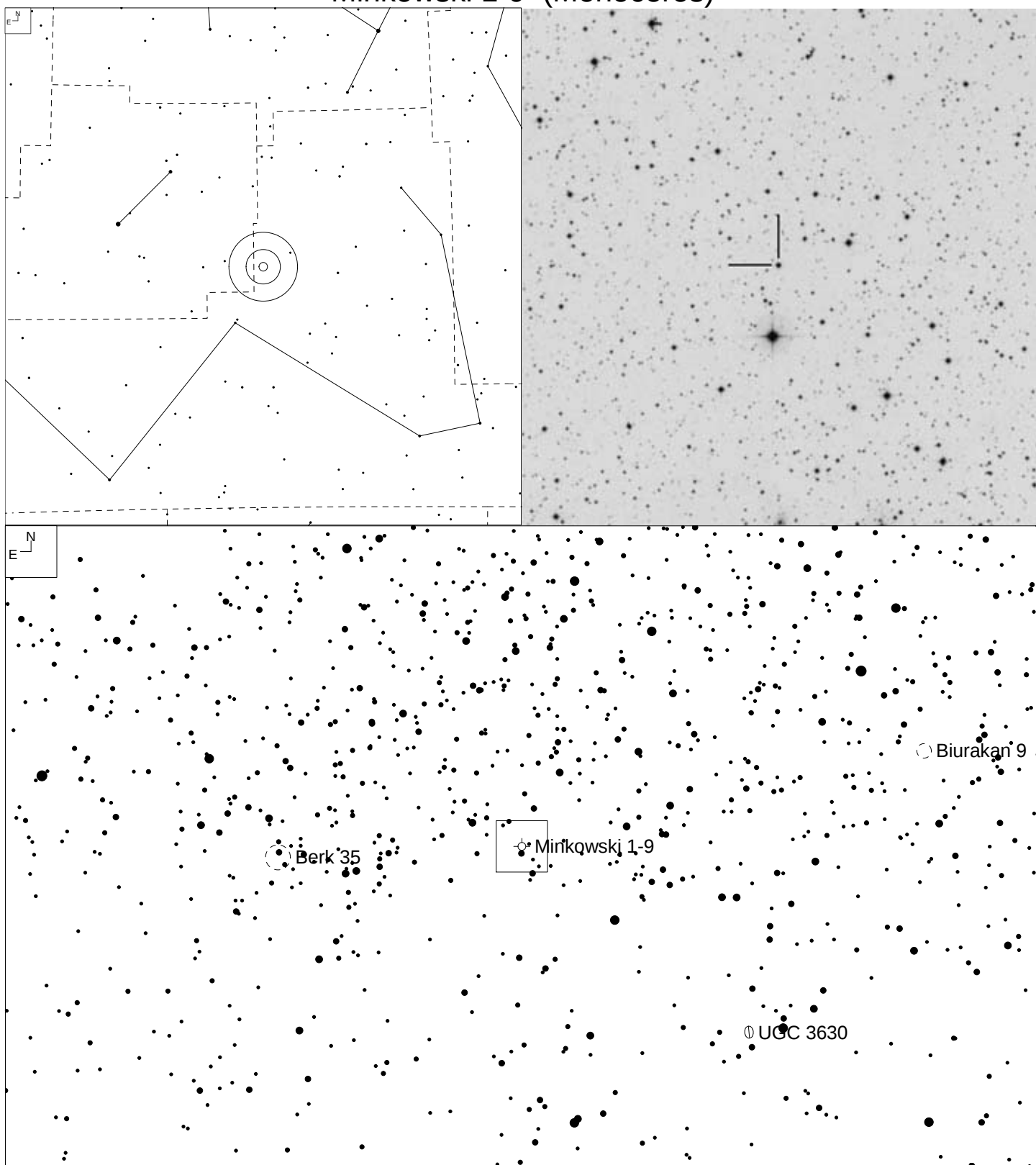
Minkowski 1-8 (Monoceros)



LM = 11.0

Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 210+1.1	-	06 53 33.8	+03 08 26	14.2p 14.5v	21.3	22x15"

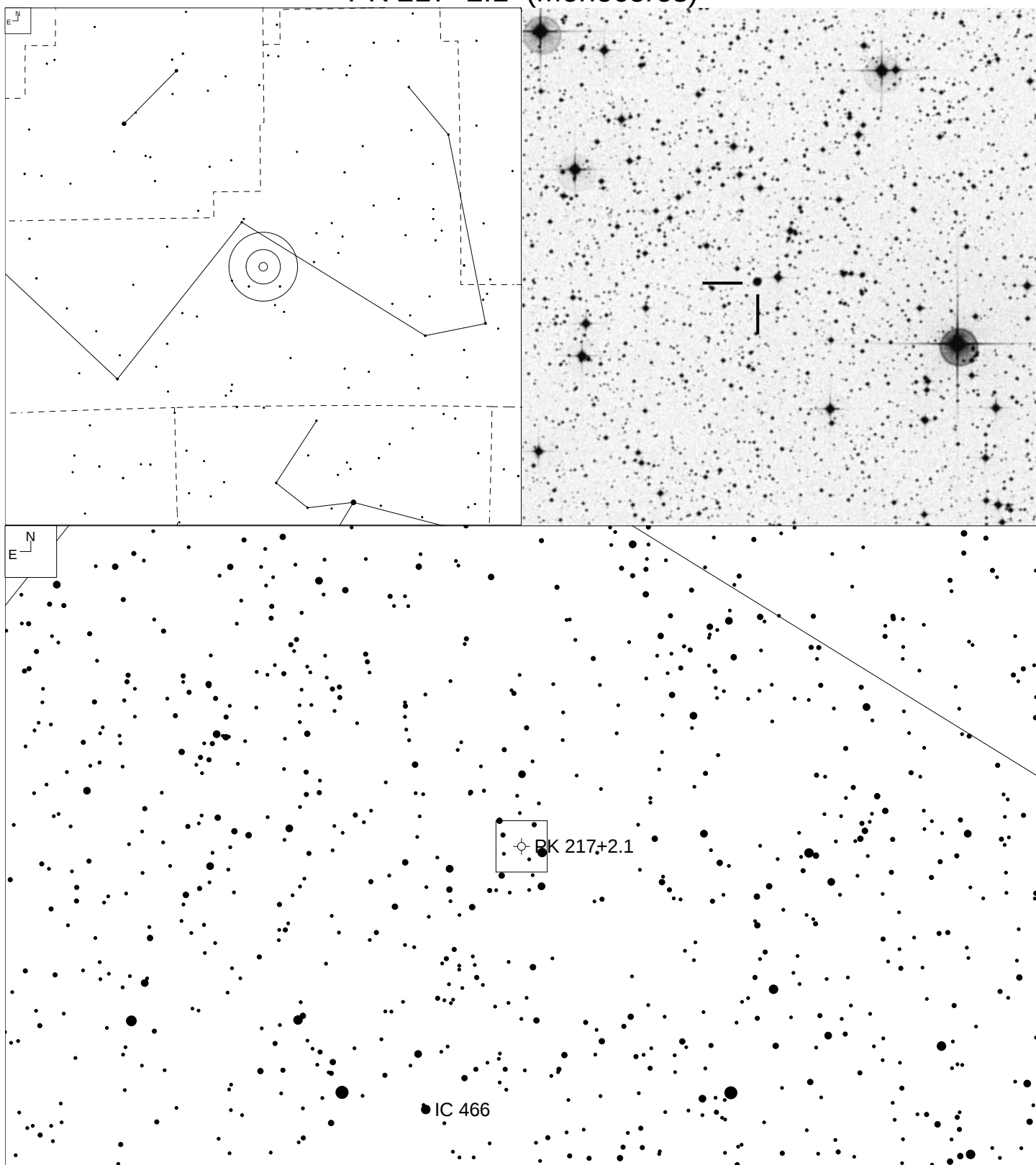
Minkowski 1-9 (Monoceros)



LM = 11.0

Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 212+4.1	1	07 05 19.3	+02 46 56	13.3p	15.6	12"

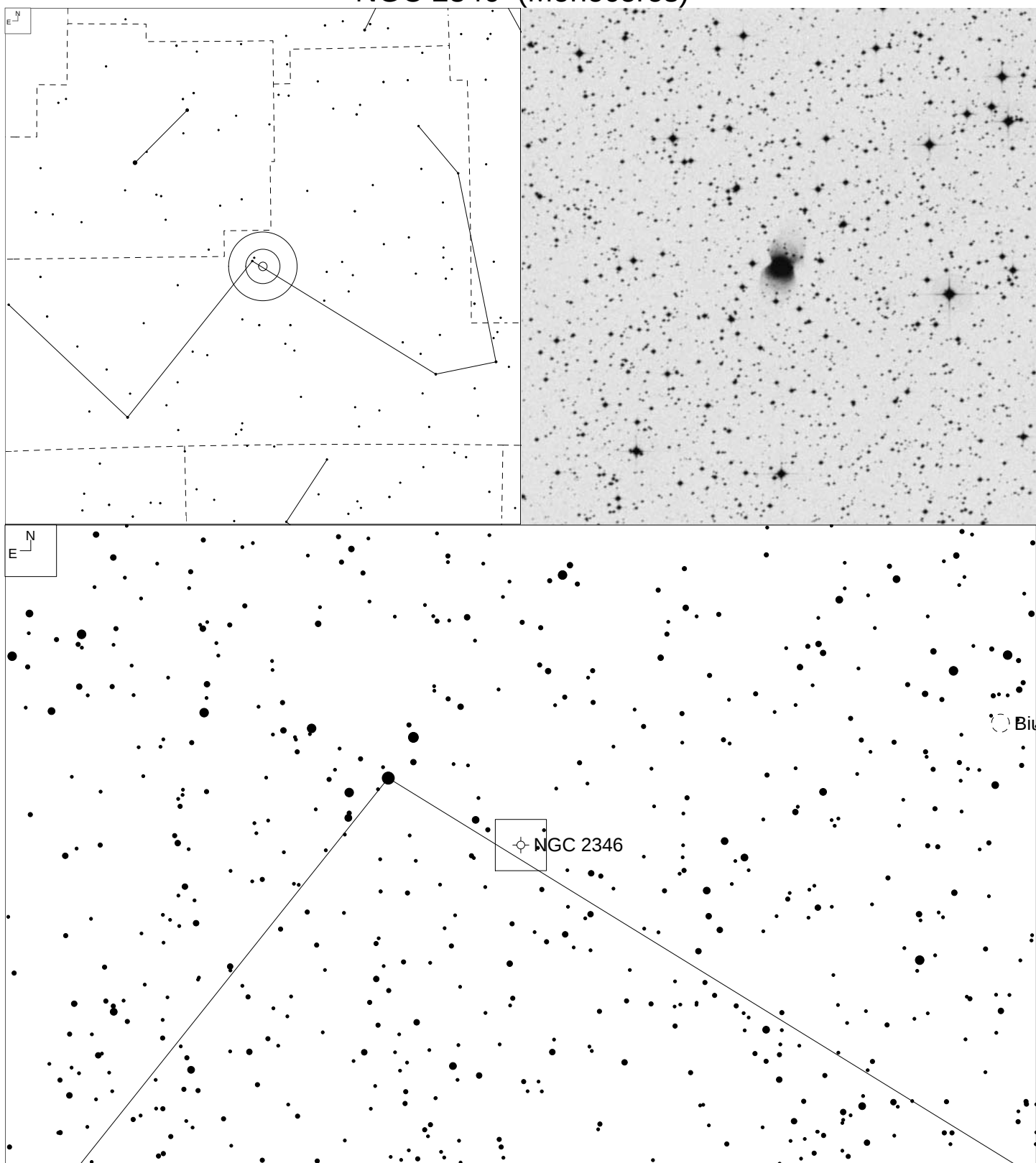
PK 217+2.1 (Monoceros)



LM = 11.0

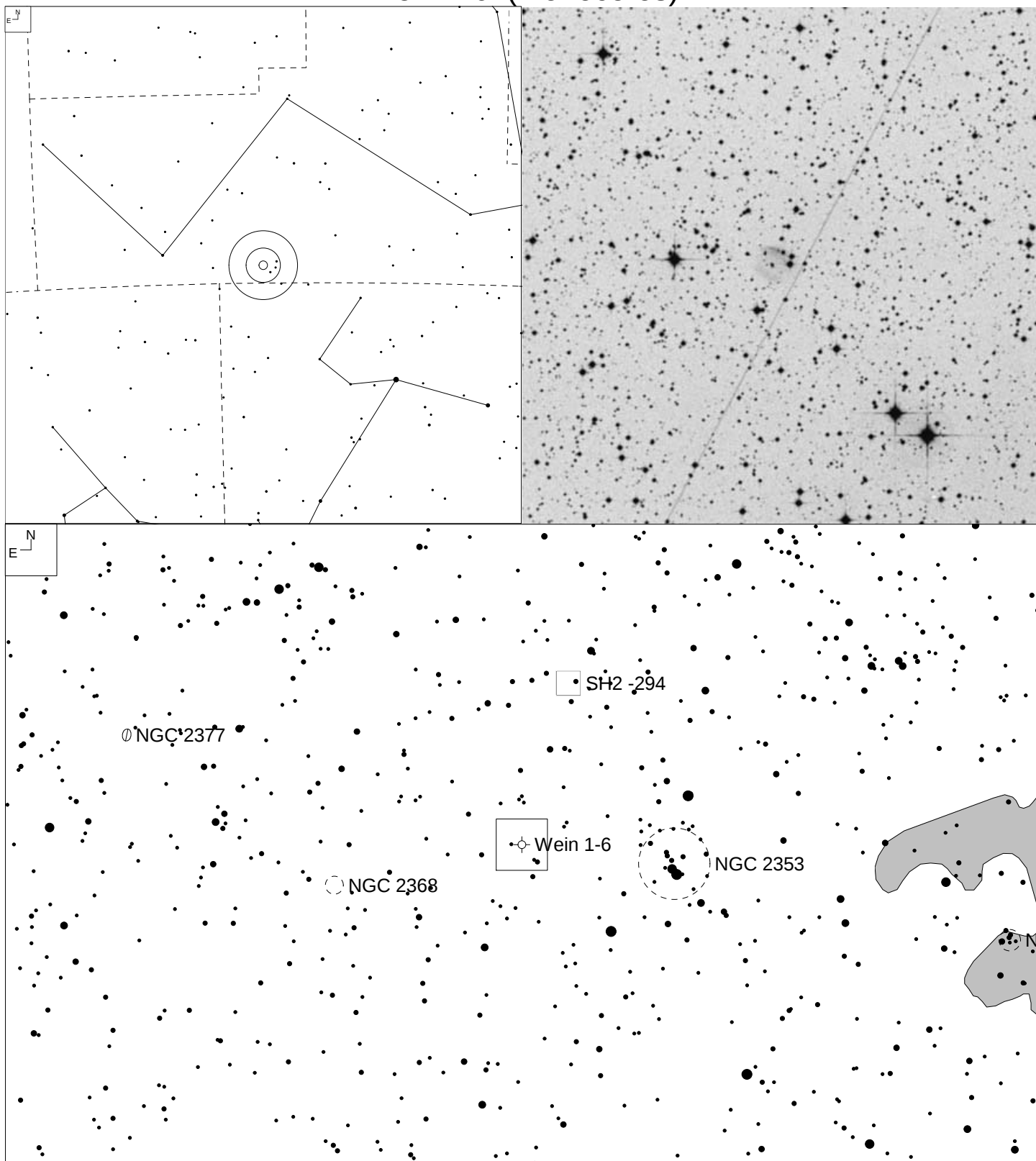
Other ID	Type	RA	Dec	Mag	* Mag	Size
Steph 3-1	3	07 06 51.0	-03 05 10	14.1p 14.5v	>21	15"

NGC 2346 (Monoceros)



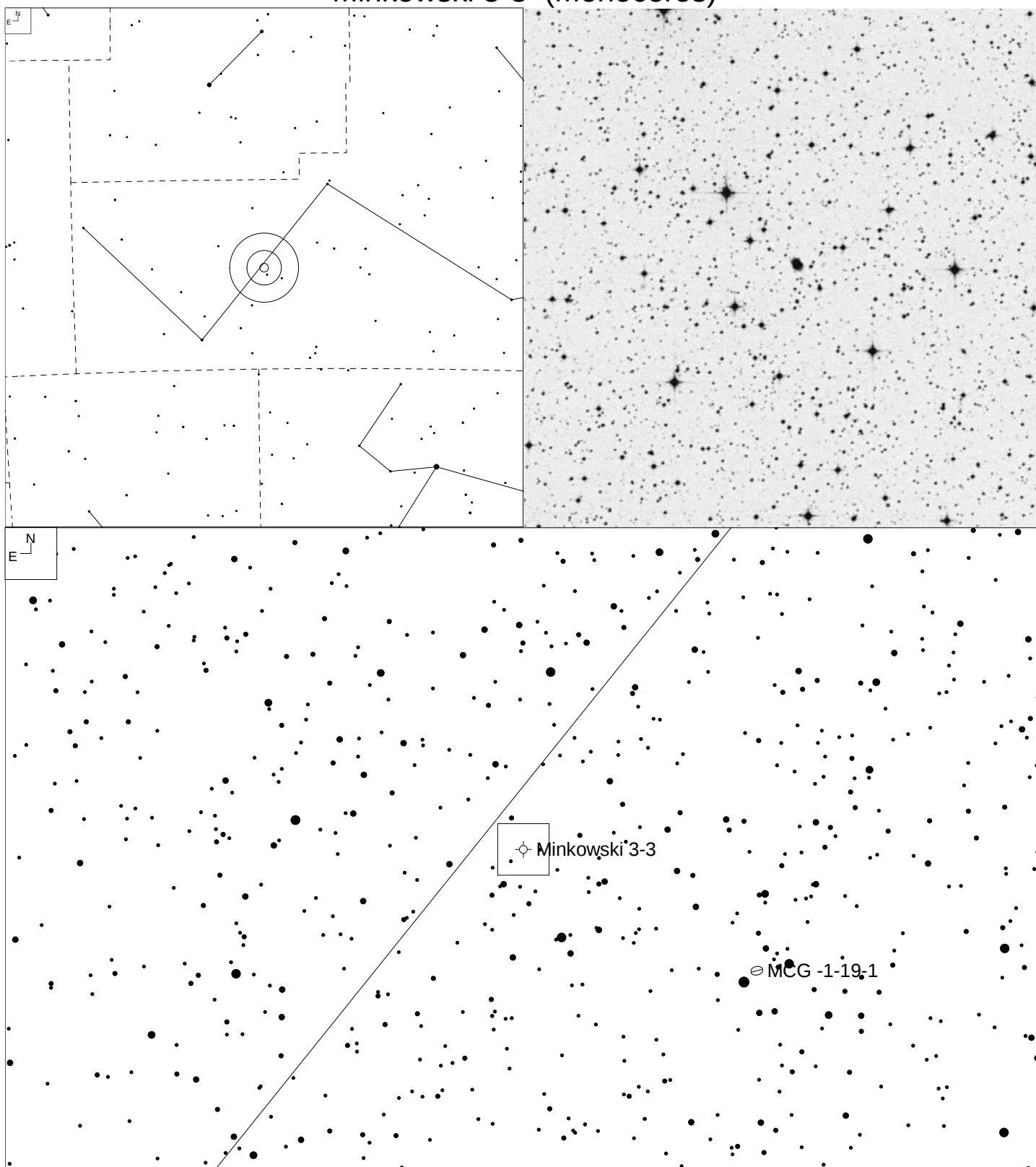
Other ID	Type	RA	Dec	Mag	* Mag	Size
Minkowski 1-10 PK 215+3.1	3b+6	07 09 22.4	-00 48 24	11.8p 11.6v	11.4	120"

Wein 1-6 (Monoceros)



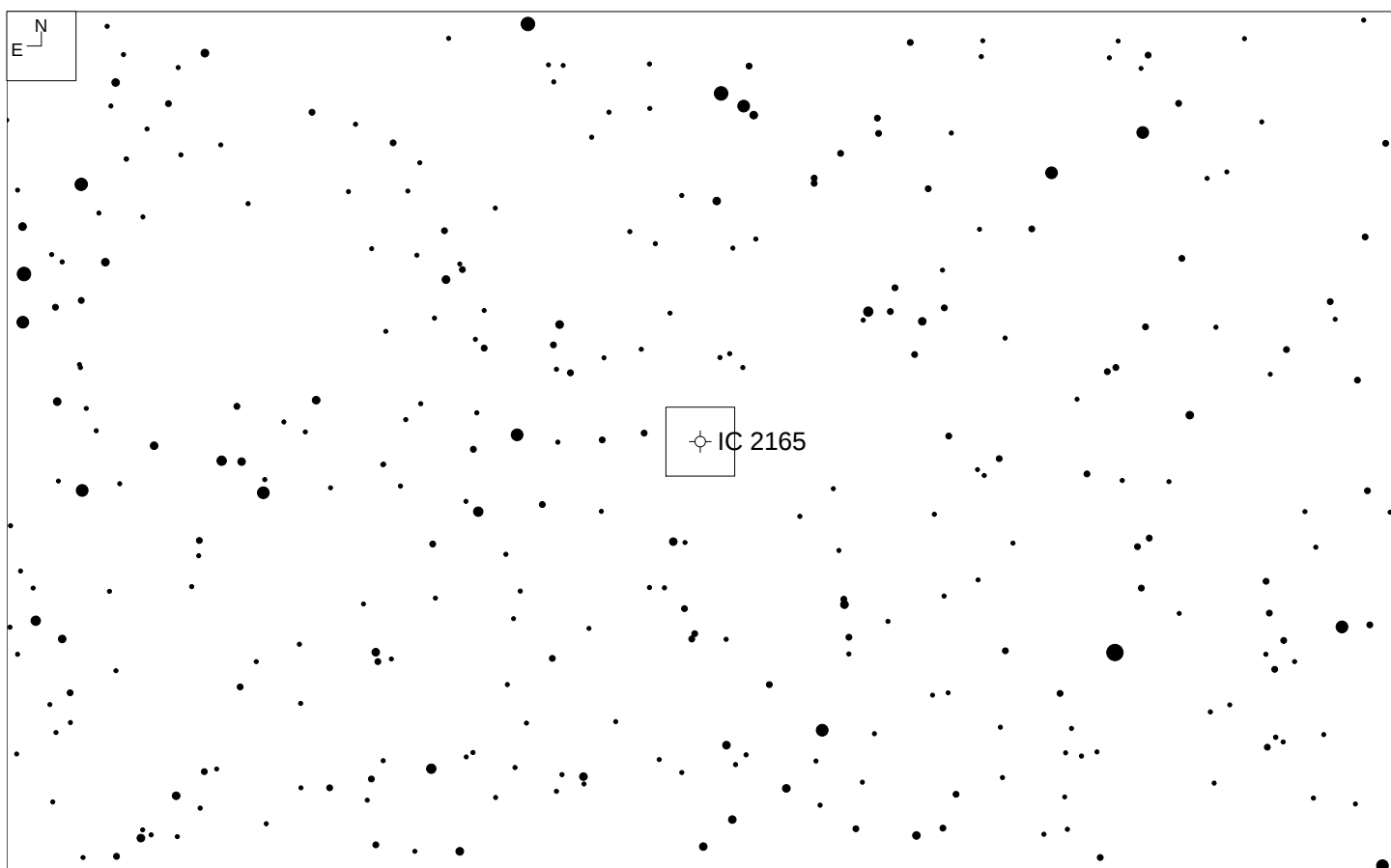
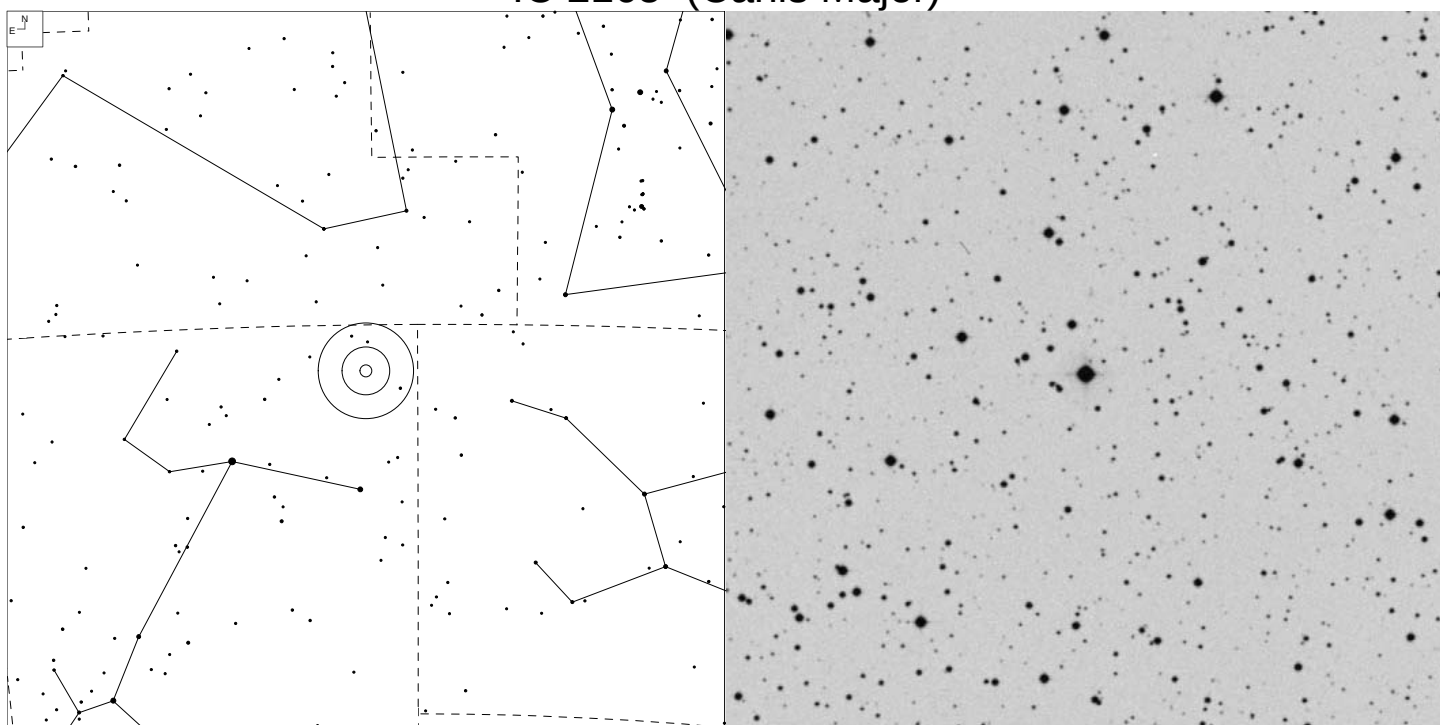
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 224+1.1	-	07 17 25.5	-10 10 39	-	16.8	62"

Minkowski 3-3 (Monoceros)



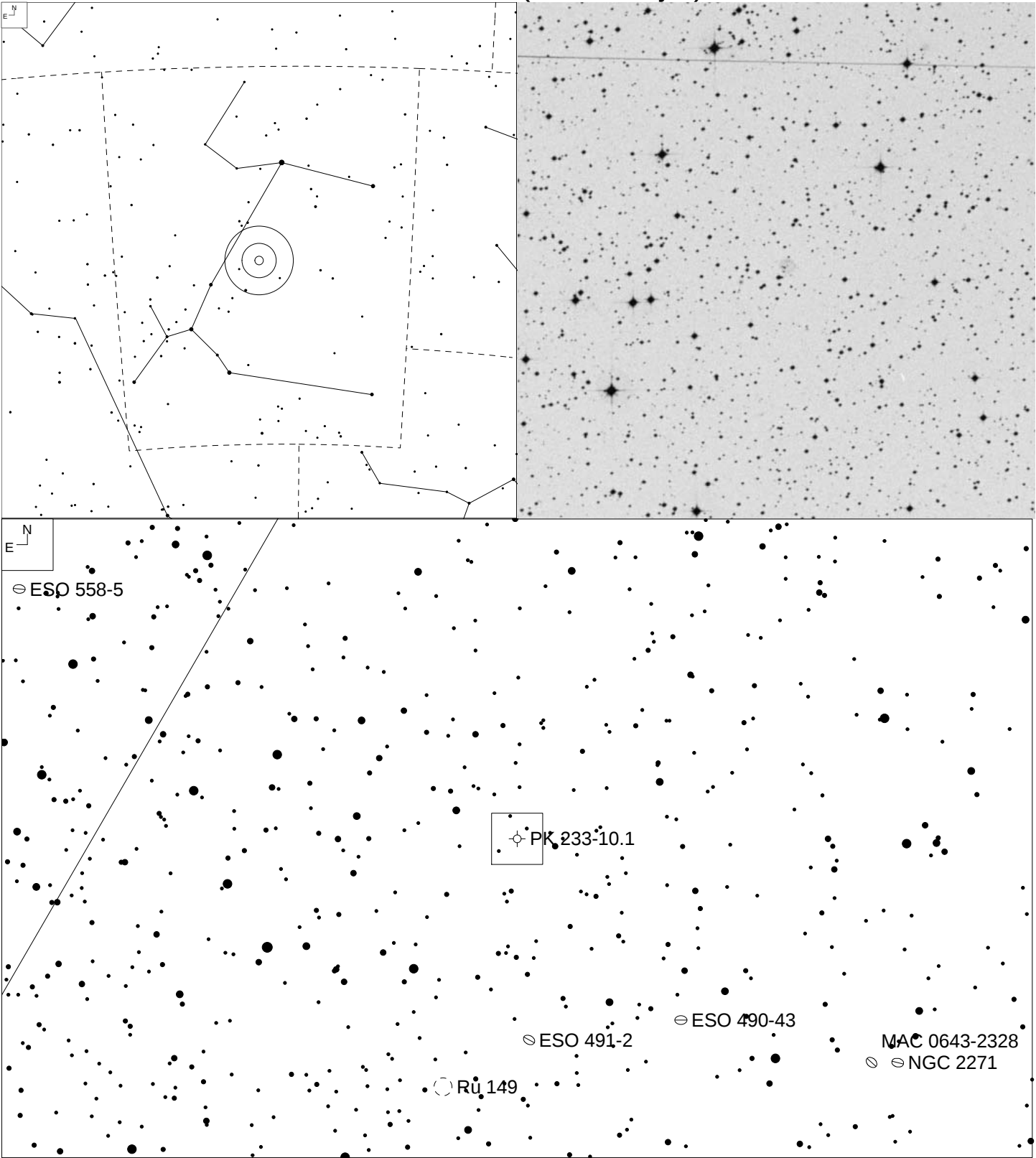
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 221+5.1	4	07 26 34.2	-05 21 52	14.2p 14.8v	-	12"

IC 2165 (Canis Major)



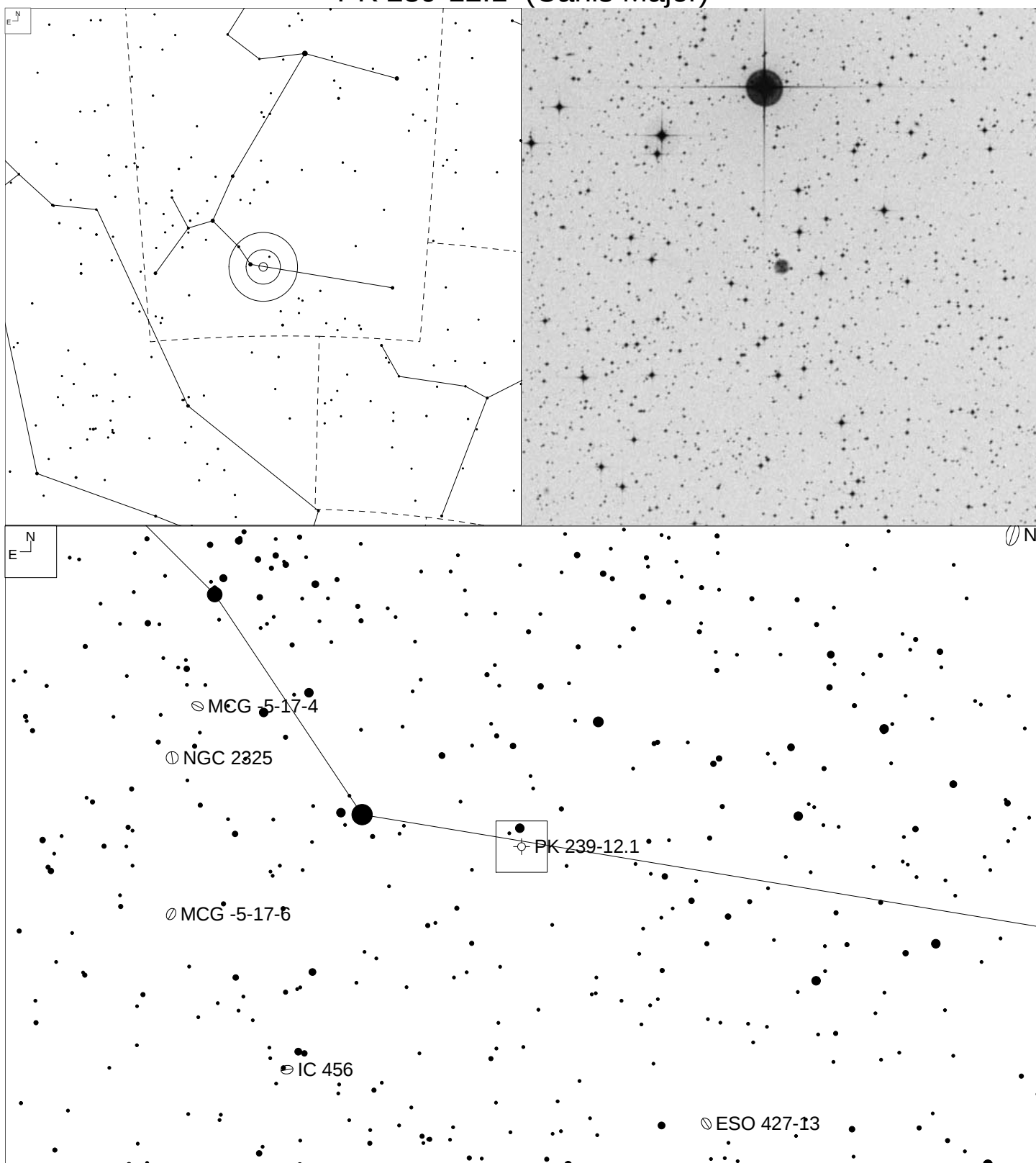
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 221-12.1	3b	06 21 42.7	-12 59 14	12.9p 10.5v	17.9	9x7"

PK 233-10.1 (Canis Major)



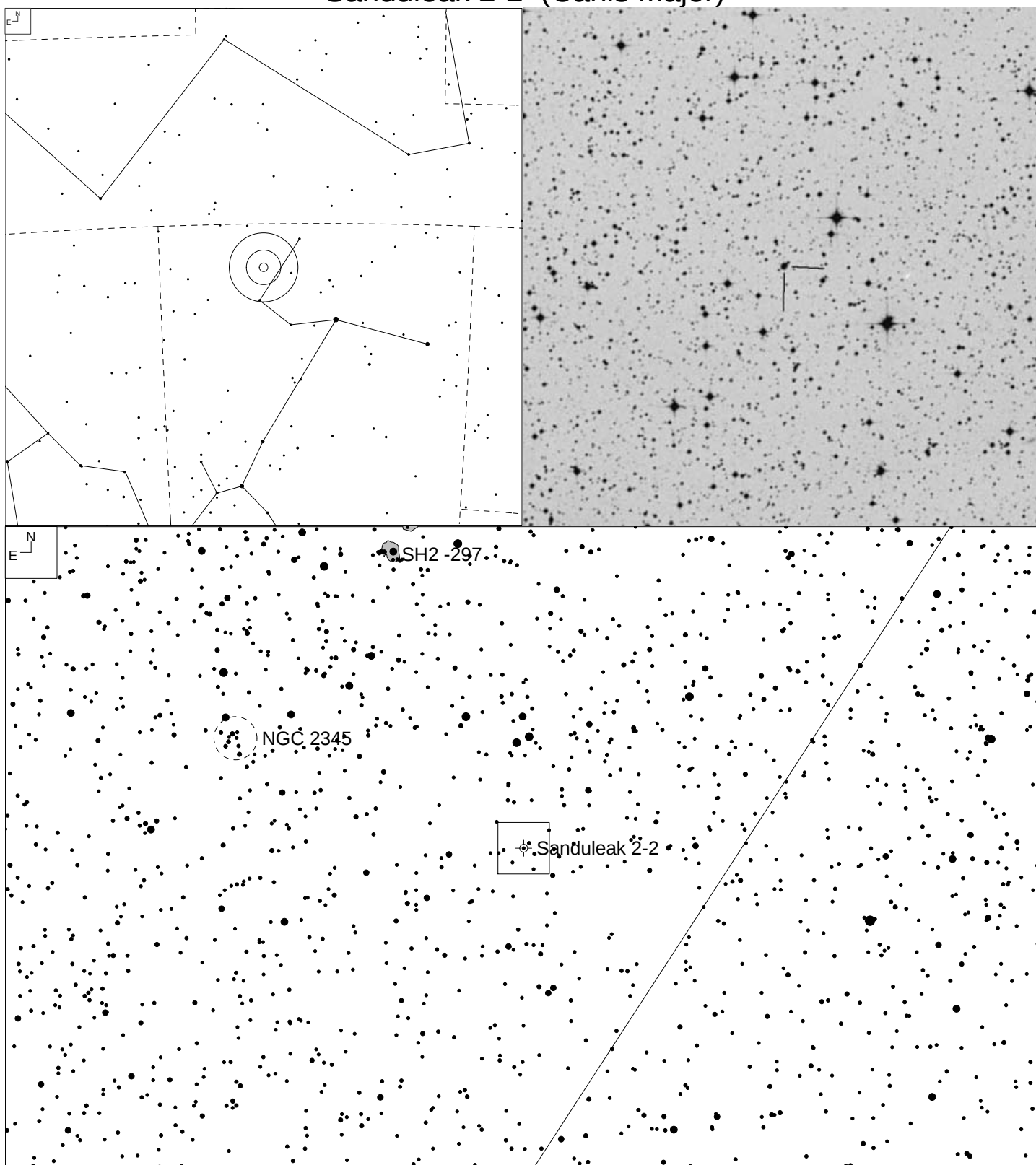
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	4	06 50 40.7	-22 26 15	16.3p	-	55"

PK 239-12.1 (Canis Major)



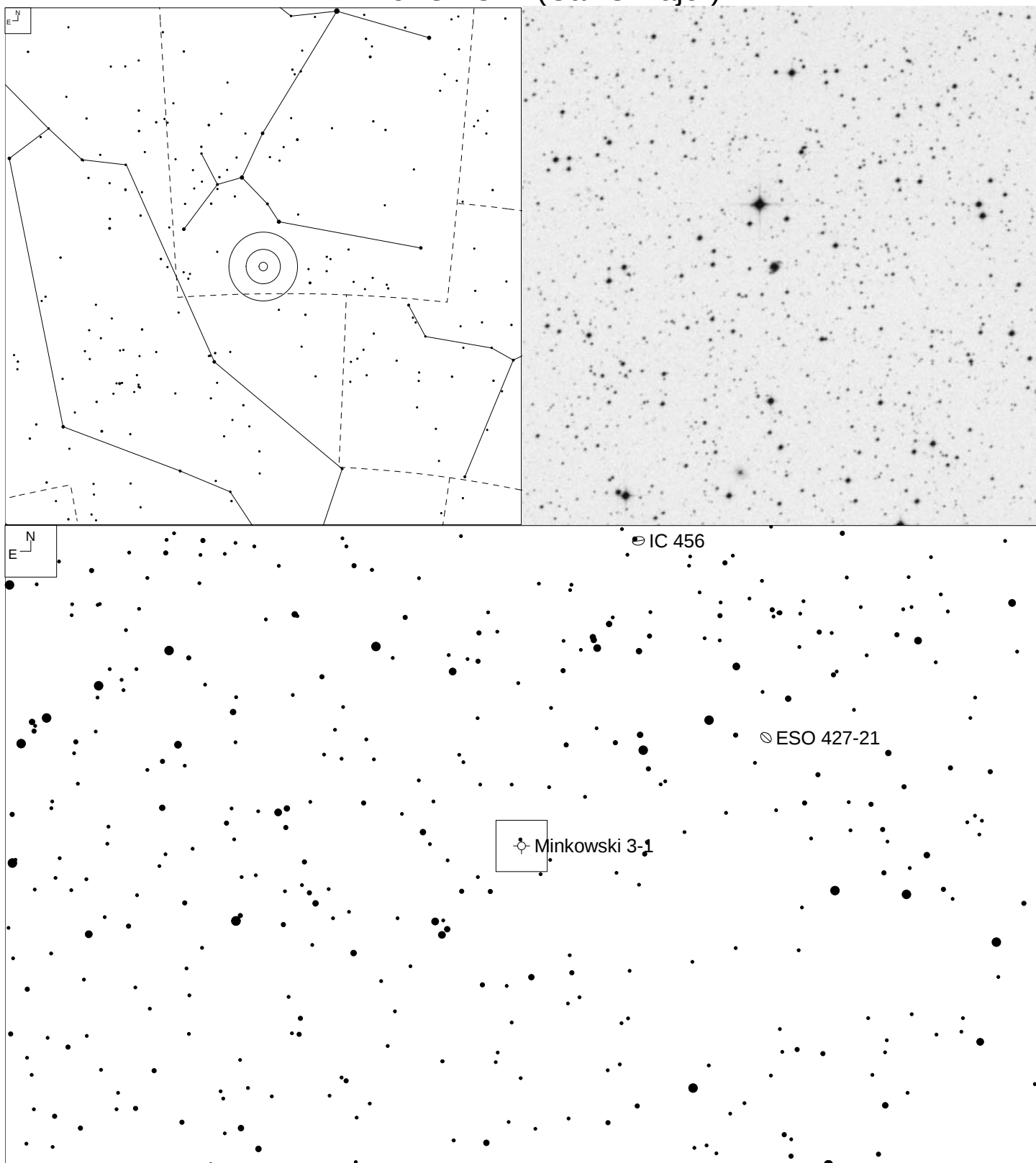
Other ID	Type	RA	Dec	Mag	* Mag	Size
ESO 427-19	-	06 55 12.3	-29 07 28	15.1p	19	24"

Sanduleak 2-2 (Canis Major)



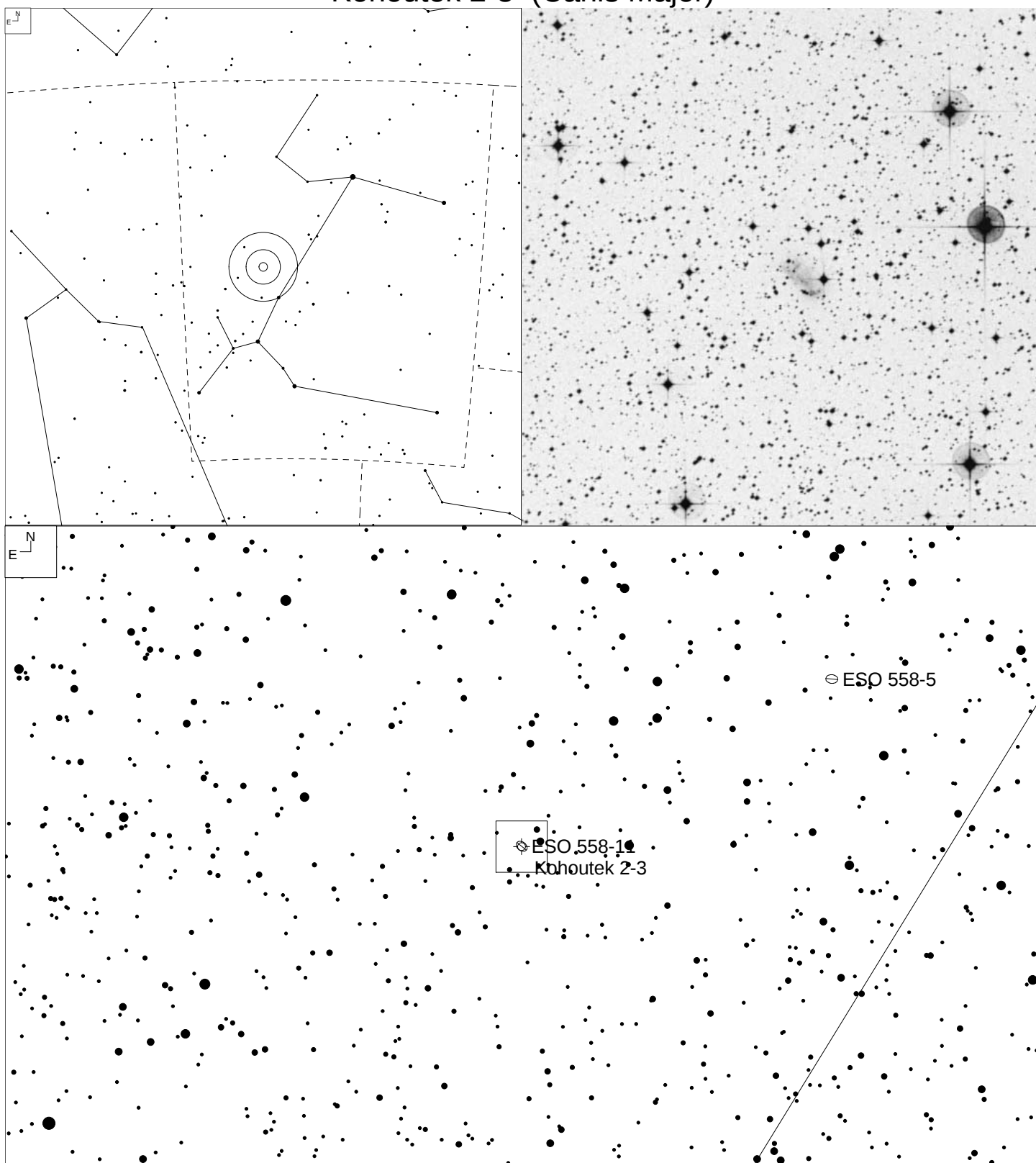
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 226-3.1	-	07 02 46.9	-13 42 37	13.3p	16.2	10"

Minkowski 3-1 (Canis Major)



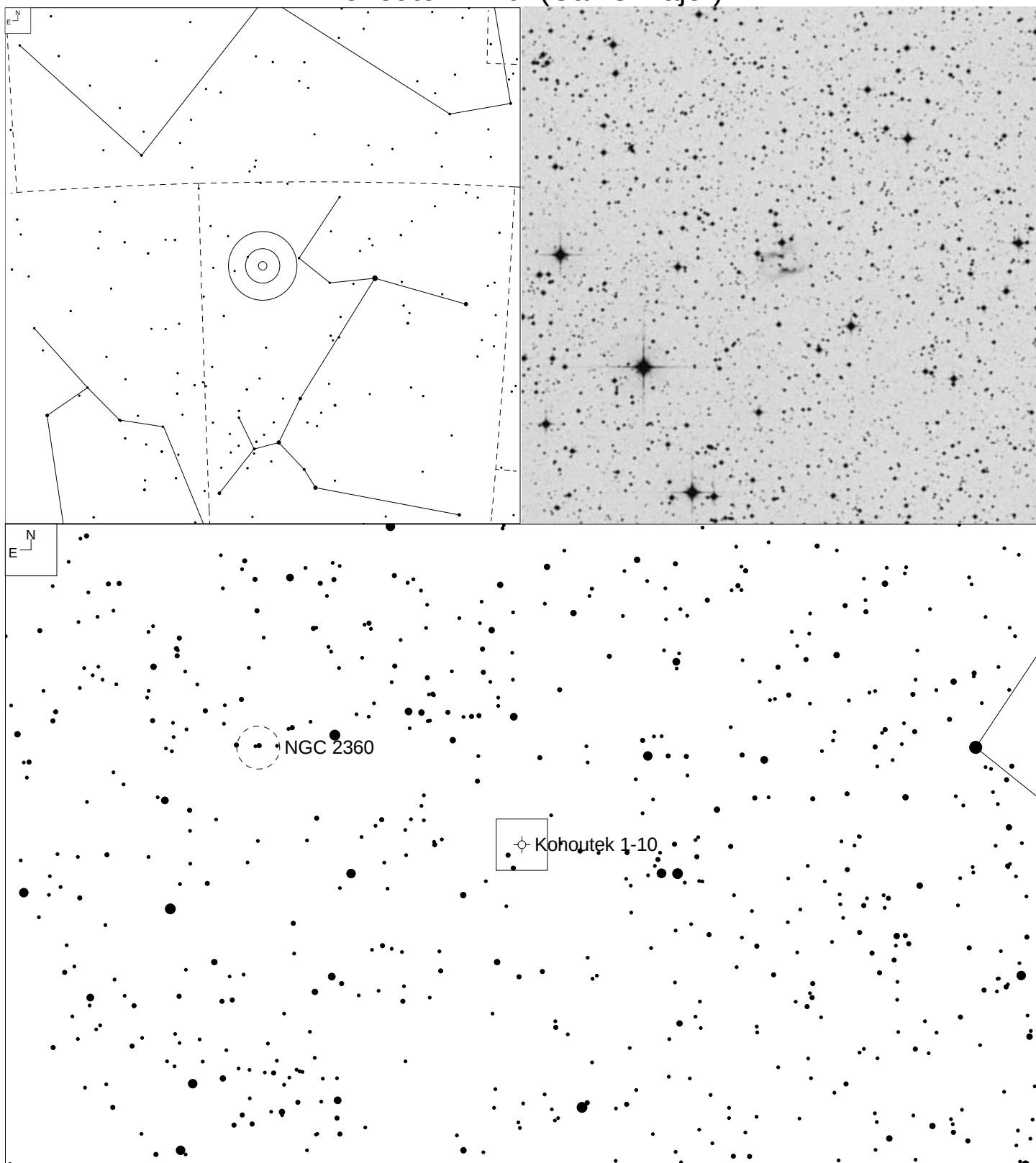
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 242-11.1	?+6	07 02 49.8	-31 35 30	11.9p	15.5	30 x 20"
Henize 2-1				12.3v		

Kohoutek 2-3 (Canis Major)



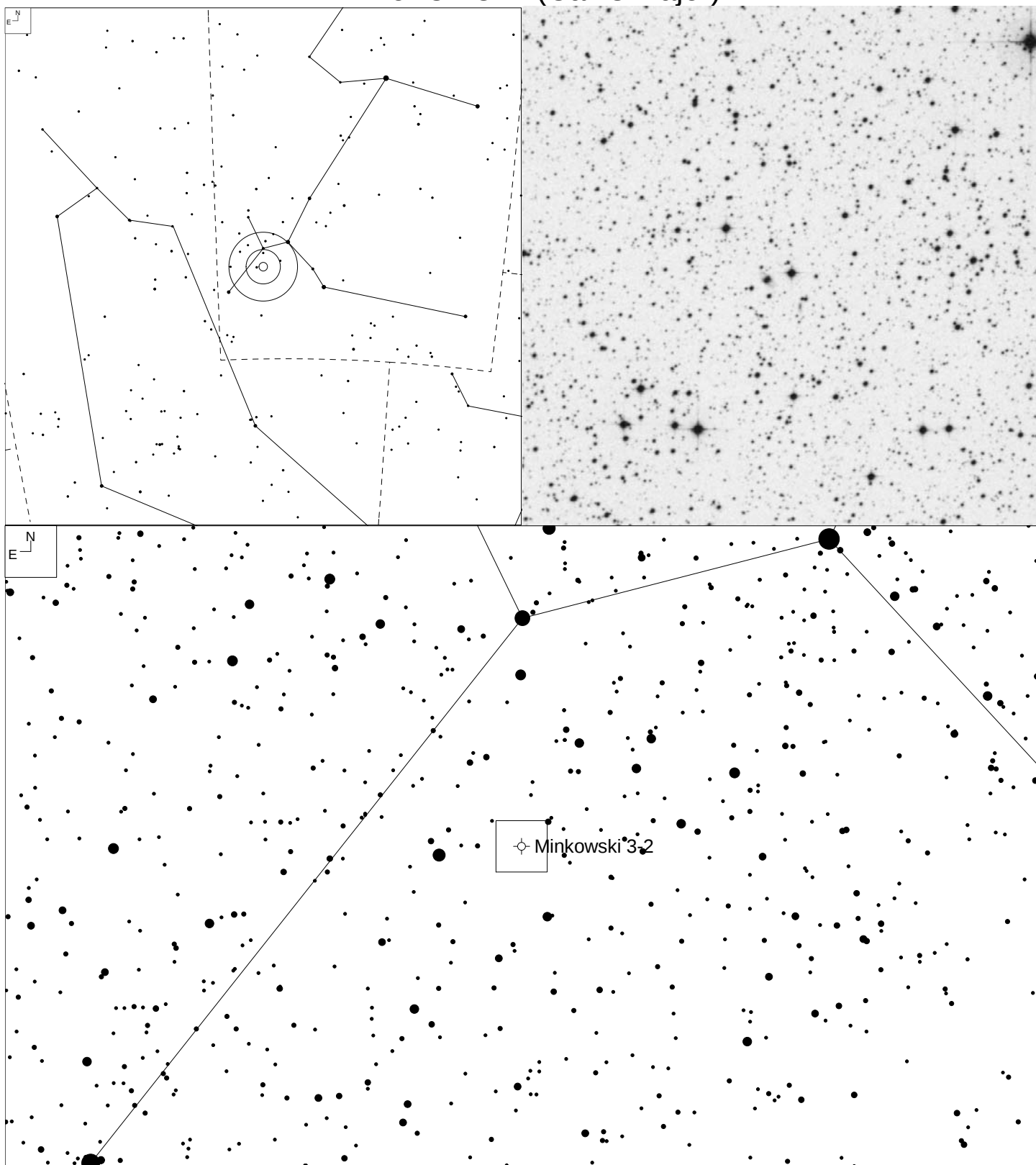
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 234-6.1	3	07 06 57.7	-22 02 21	15.1p 14.5v	21.0	90 X 40"

Kohoutek 1-10 (Canis Major)



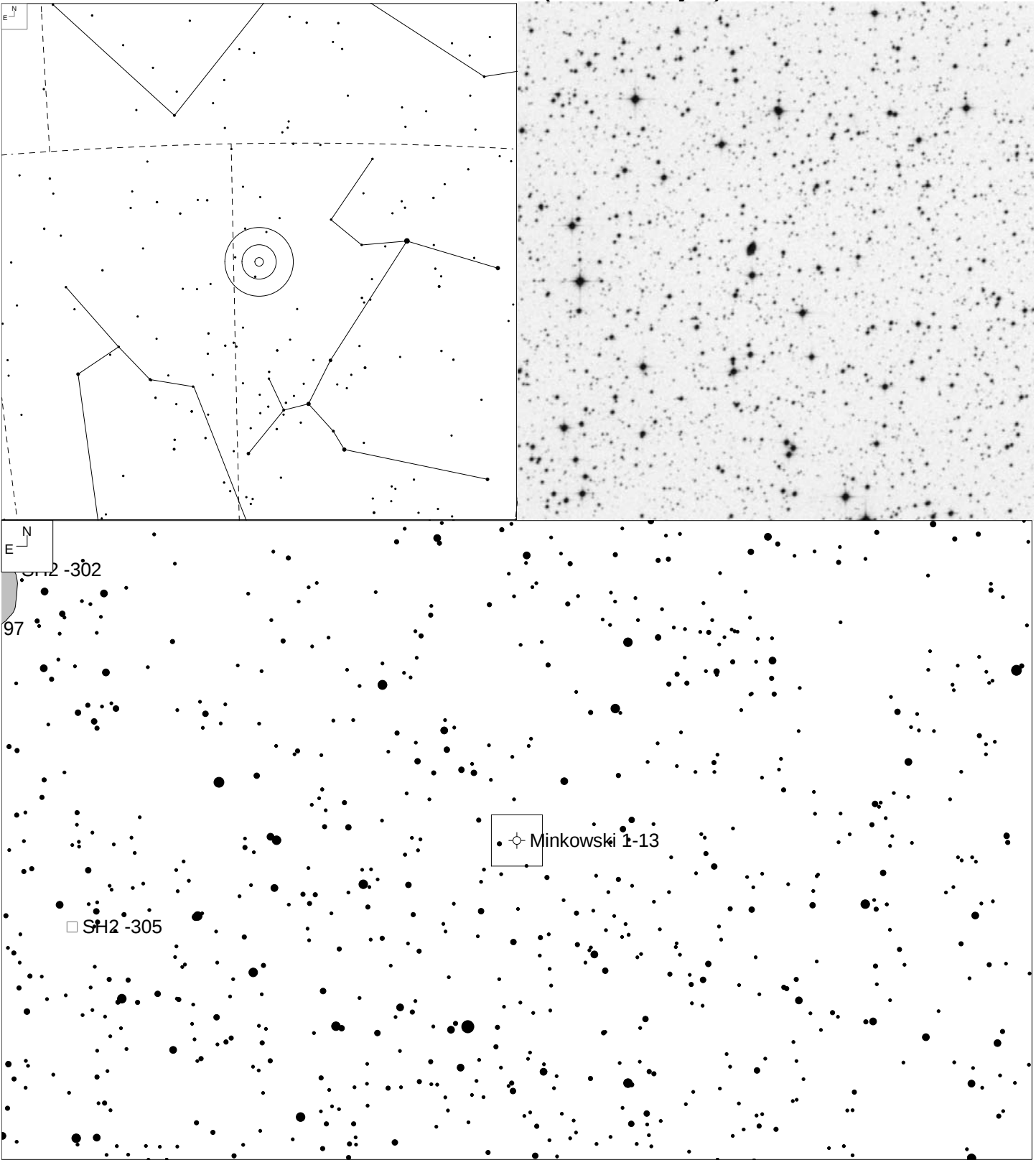
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 229.6-2.7	3b	07 12 35.9	-16 06 02	-	21.0	90 x 54"

Minkowski 3-2 (Canis Major)



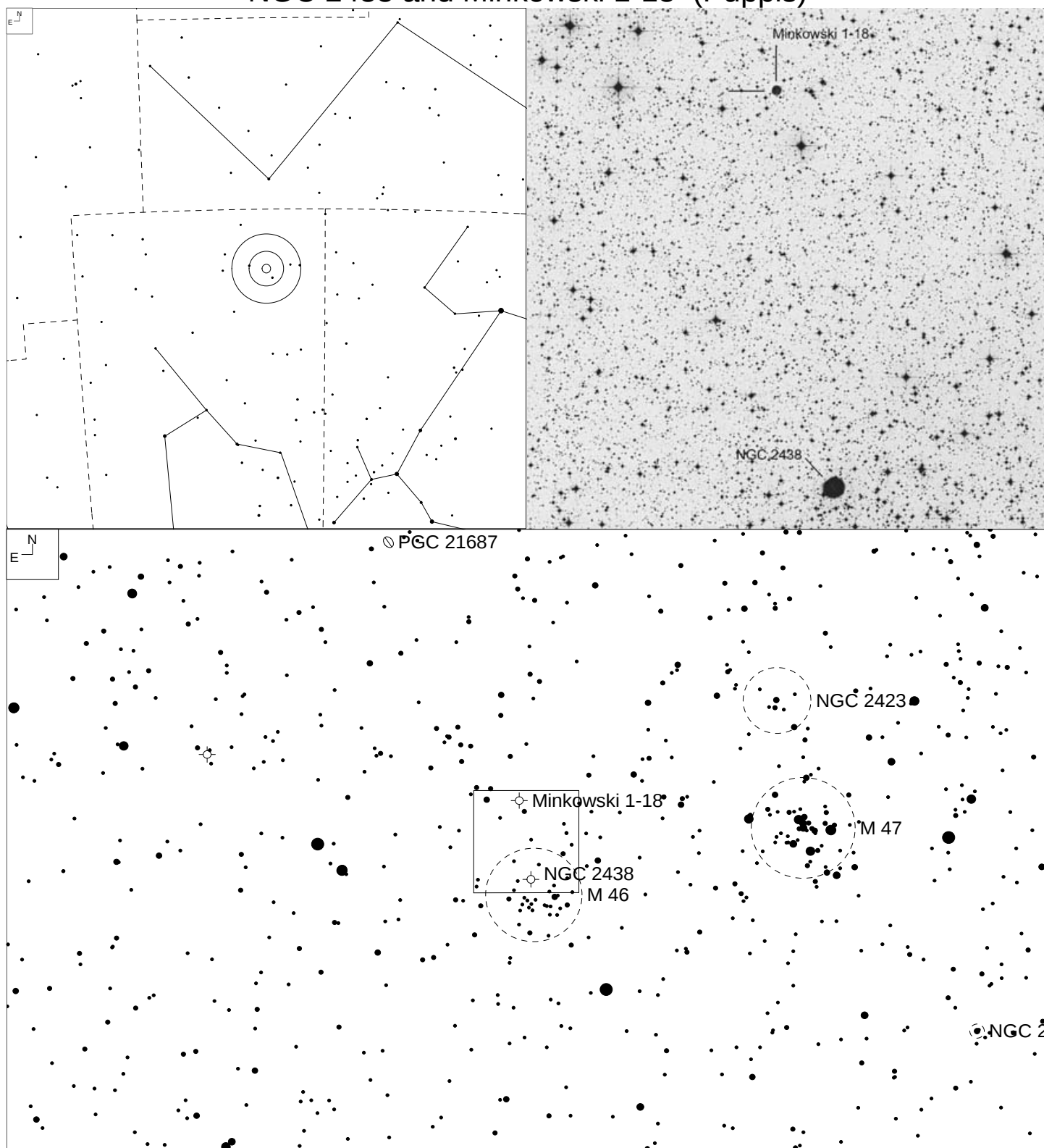
Other ID	Type	RA	Dec	Mag	* Mag	Size
Henize 2-2	3b	07 14 49.8	-27 50 24	15.7p	21.1	12 x 7"
PK 240-7.1				14.7v		

Minkowski 1-13 (Canis Major)



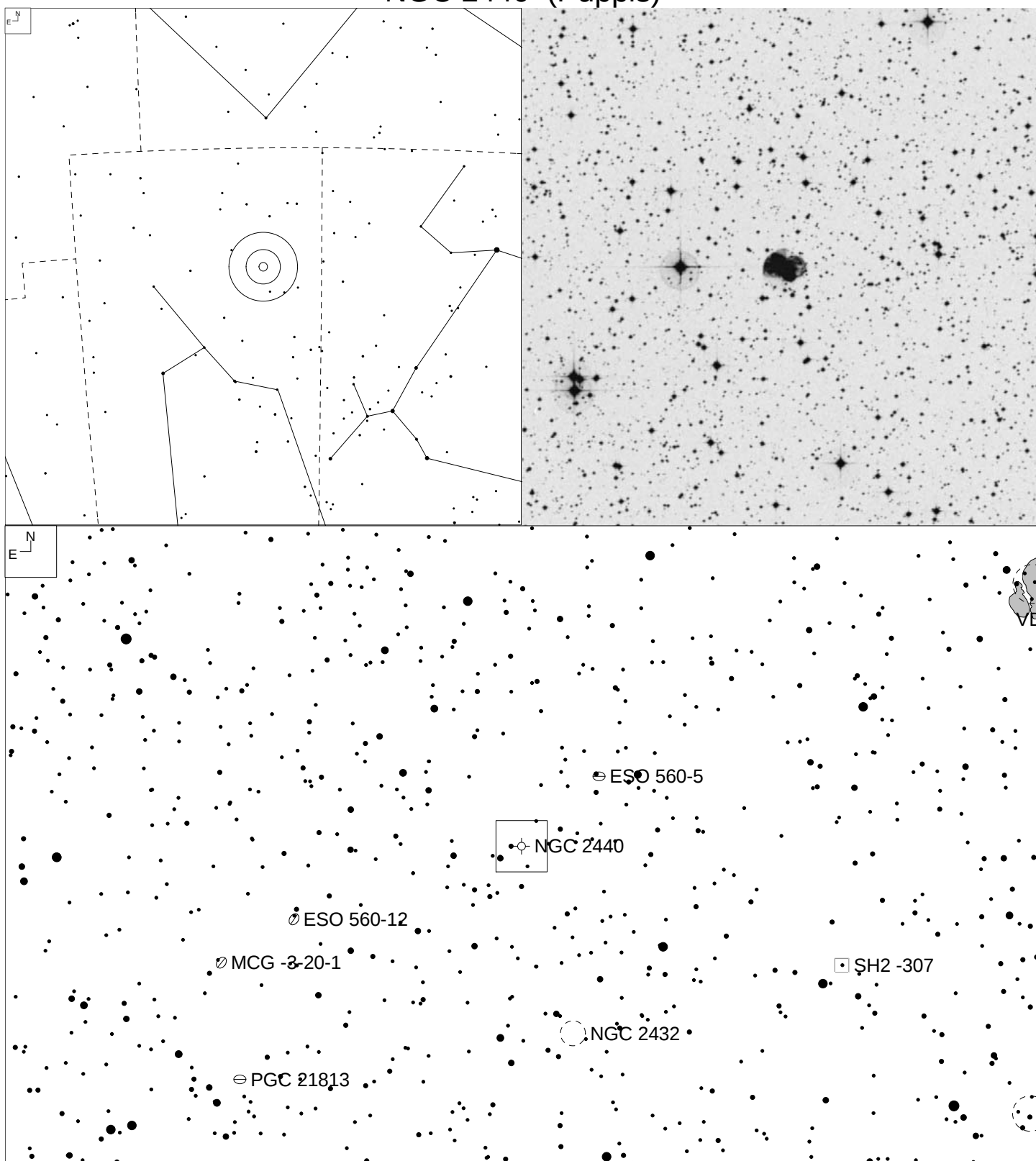
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 232-1.1	-	07 21 14.9	-18 08 37	12.9p 12.6v	-	42x30"

NGC 2438 and Minkowski 1-18 (Puppis)



Other ID	Type	RA	Dec	Mag	* Mag	Size
NGC 2438	4	07 41 50.4	-14 44 06	10.1p	17.5	64"
PK 231+4.2				10.8v		
Minkowski 1-18	2b	07 42 04.2	-14 21 19	14.0p	19.1	32"
PK 231+4.1				15.0v		

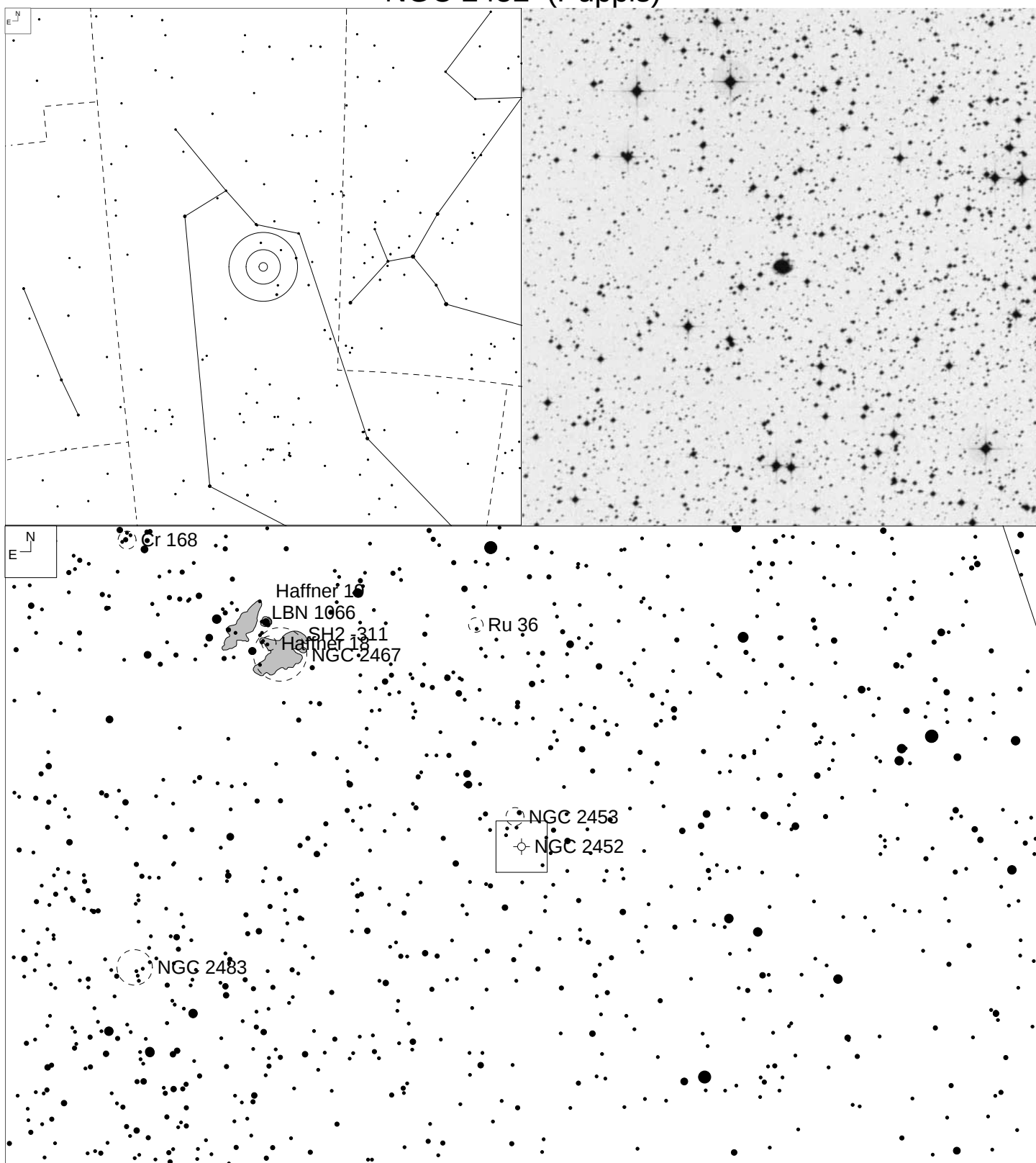
NGC 2440 (Puppis)



Bipolar halo requires large aperture and magnification to show structure.

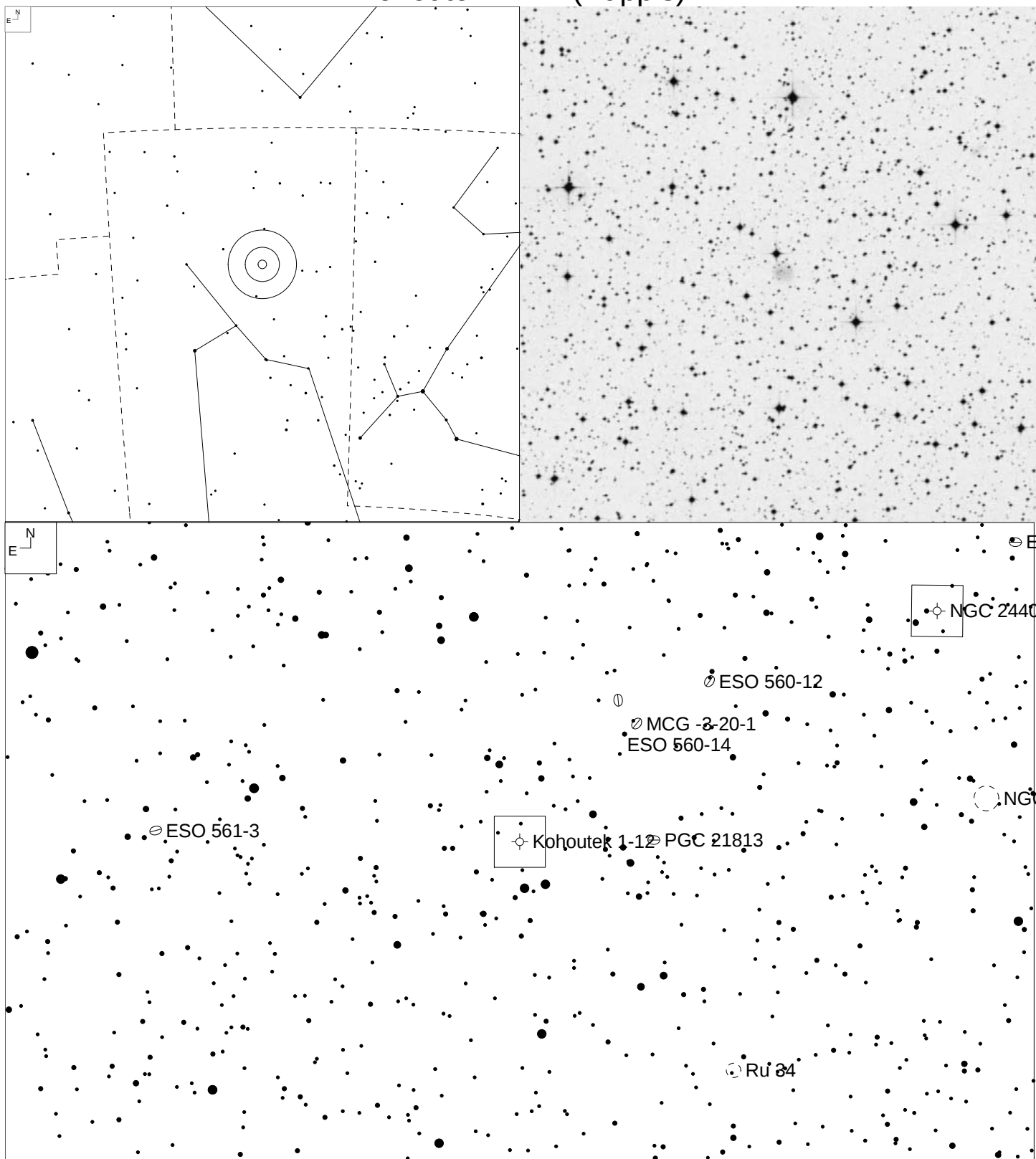
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 234+2.1	5+3	07 41 55.4	-18 12 31	10.8p 9.4v	17.6	70"

NGC 2452 (Puppis)



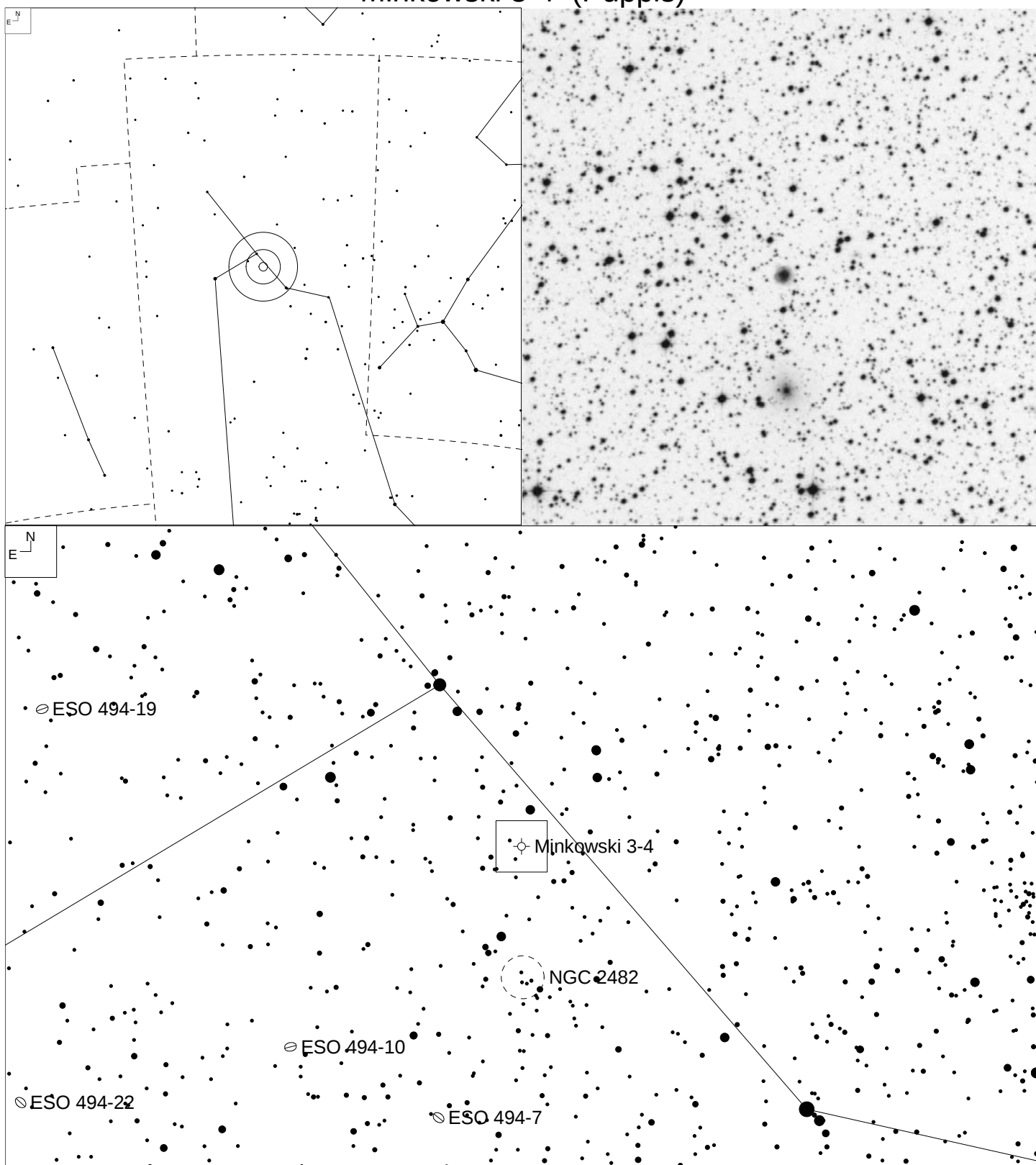
Other ID	Type	RA	Dec	Mag	* Mag	Size
Henize 2-4	4+3	07 47 26.5	-27 20 09	12.6p	17.7	30"
PK 243-1.1				12.0v		

Kohoutek 1-12 (Puppis)



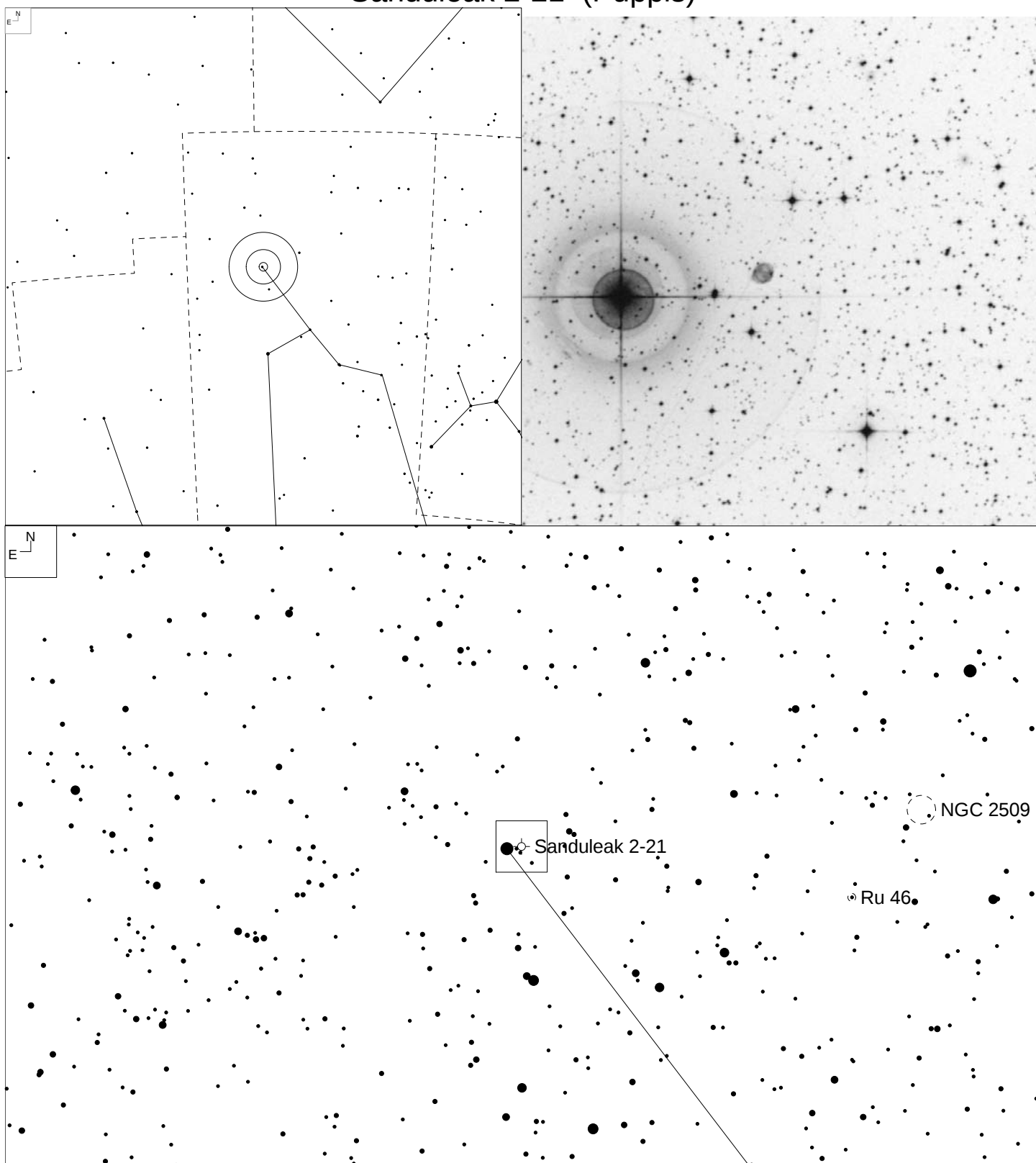
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 236+3.1	2	07 50 11.6	-19 18 16	15.9p	21	42"

Minkowski 3-4 (Puppis)



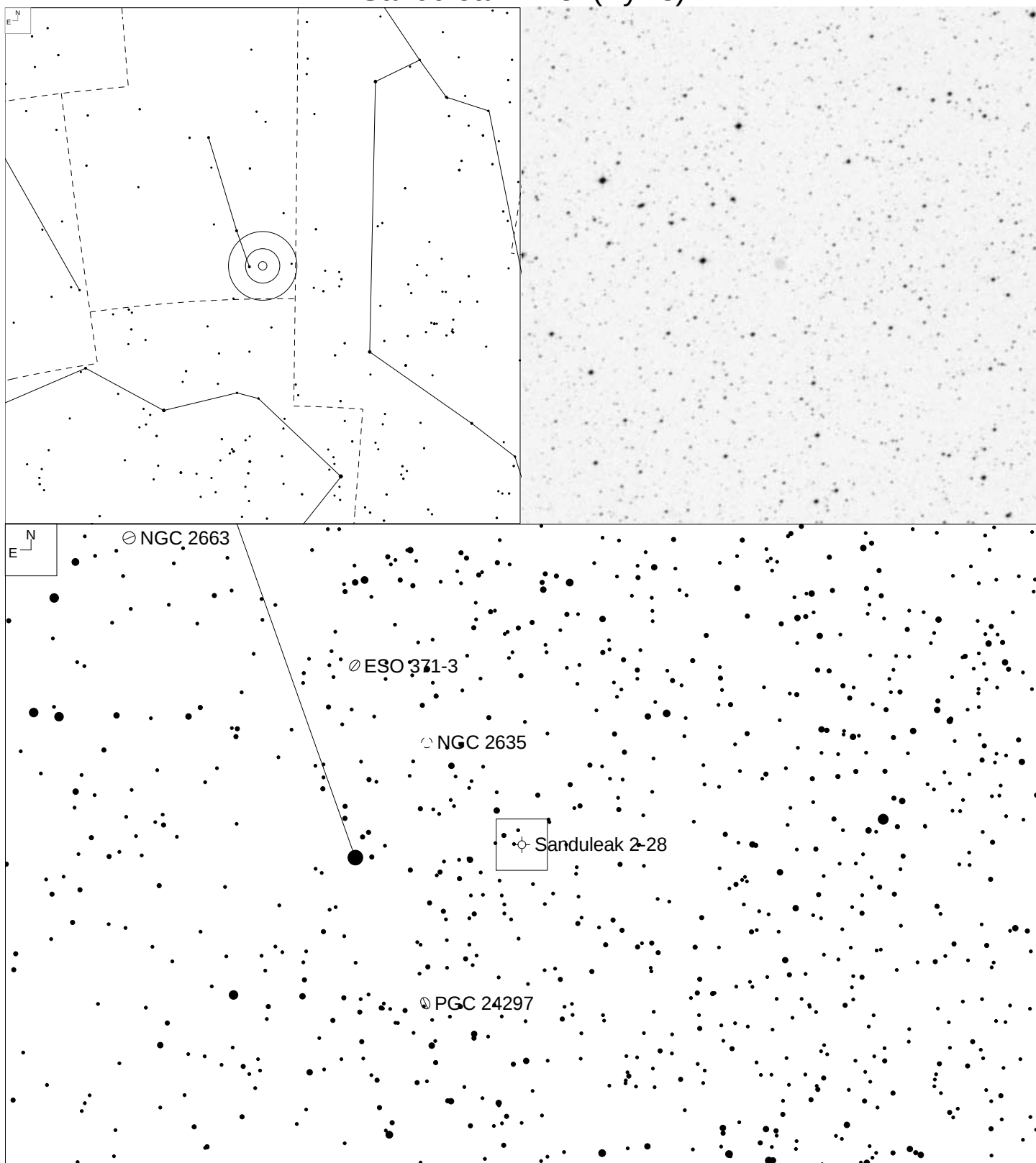
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 241+2.1	4	07 55 11.4	-23 38 13	11.8p	15.7	20"

Sanduleak 2-21 (Puppis)



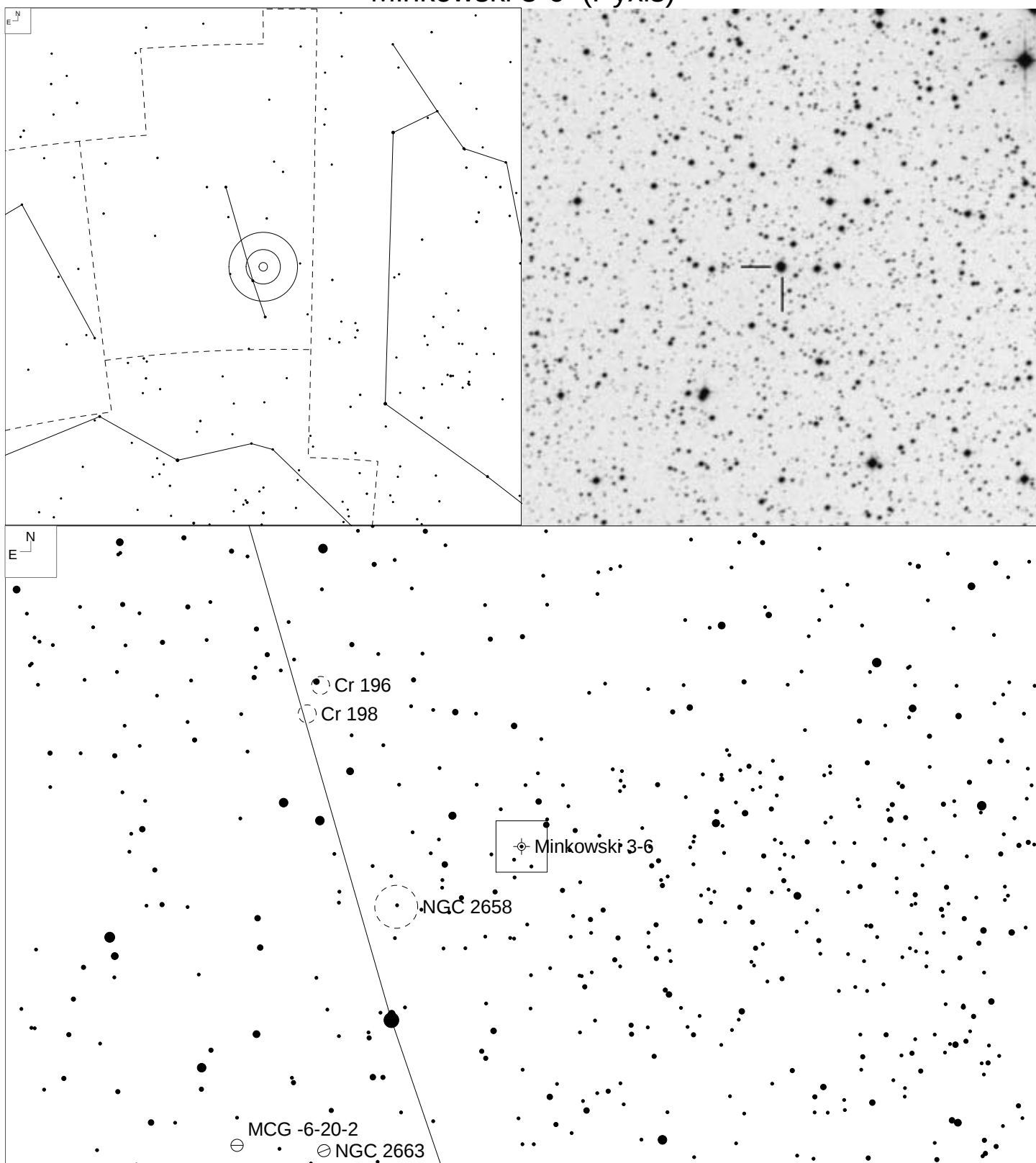
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 238+7.2	-	08 08 44.1	-19 14 01	13.6p	-	40"

Sanduleak 2-28 (Pyxis)



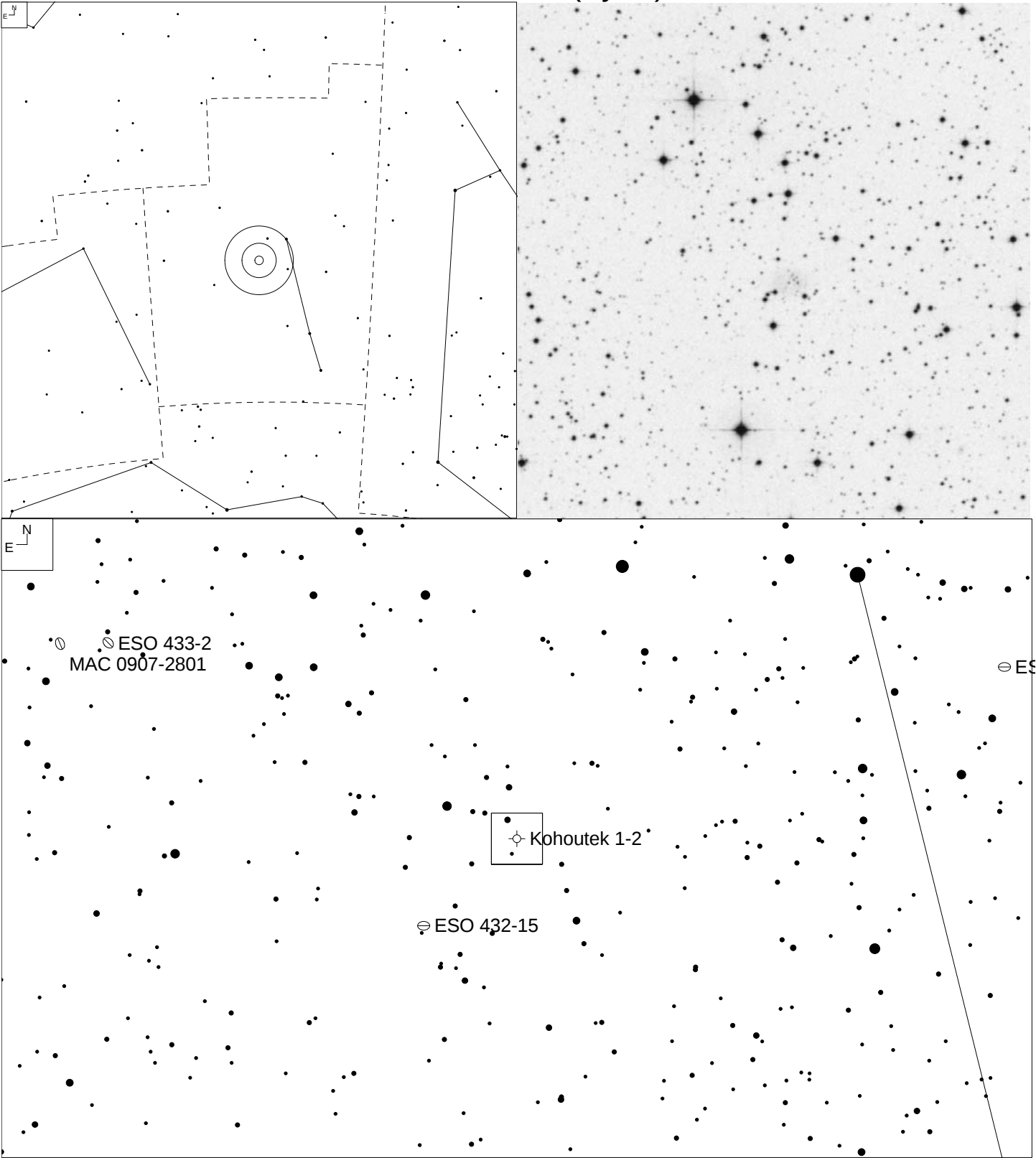
Other ID	Type	RA	Dec	Mag	* Mag	Size
Wray 16-22	-	08 36 16.4	-35 15 04	-	-	20"
PK 255+3						

Minkowski 3-6 (Pyxis)



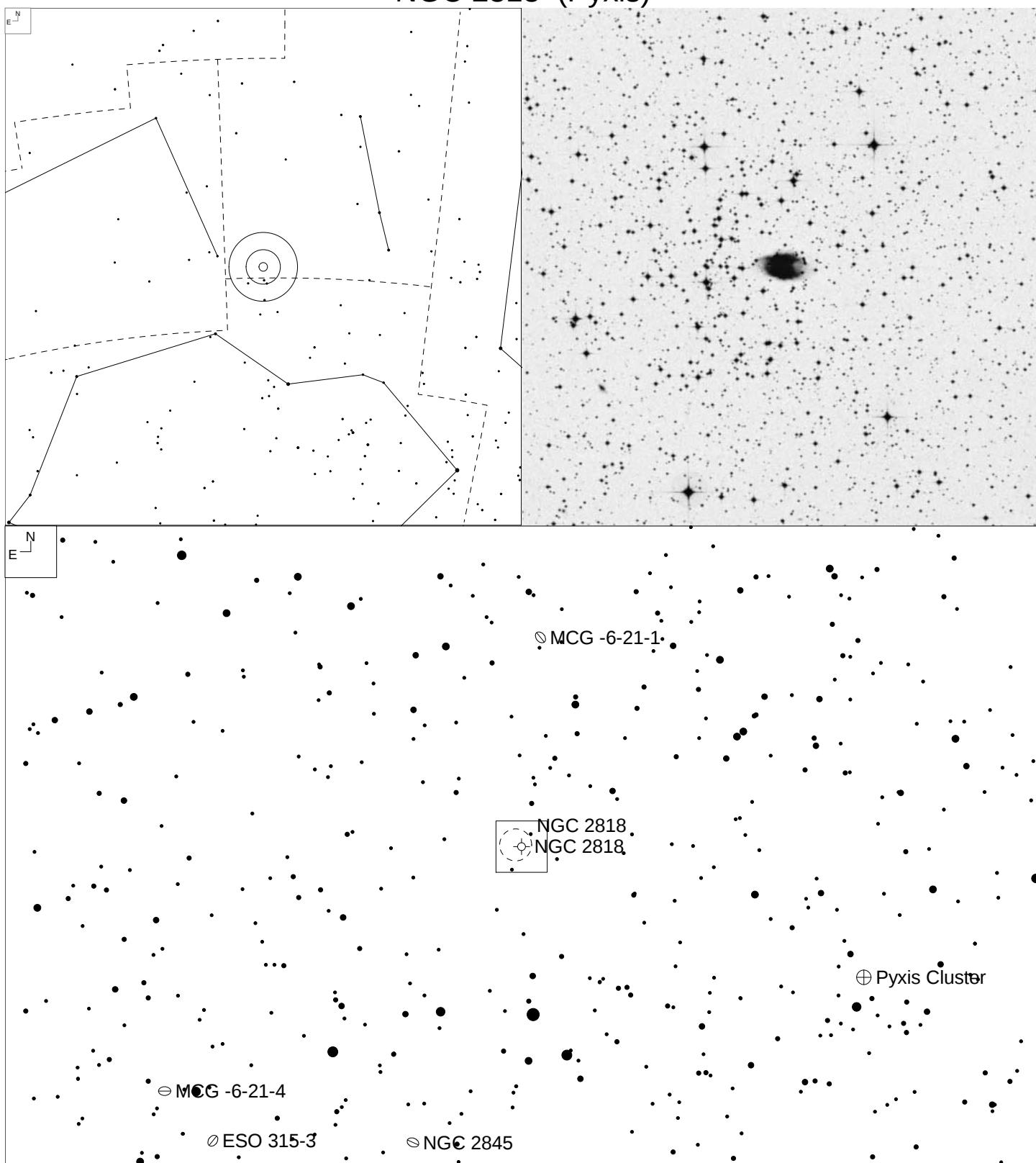
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 254+5.1	2a	08 40 40.3	-32 22 34	10.7p 10.9v	13.9	19"

Kohoutek 1-2 (Pyxis)



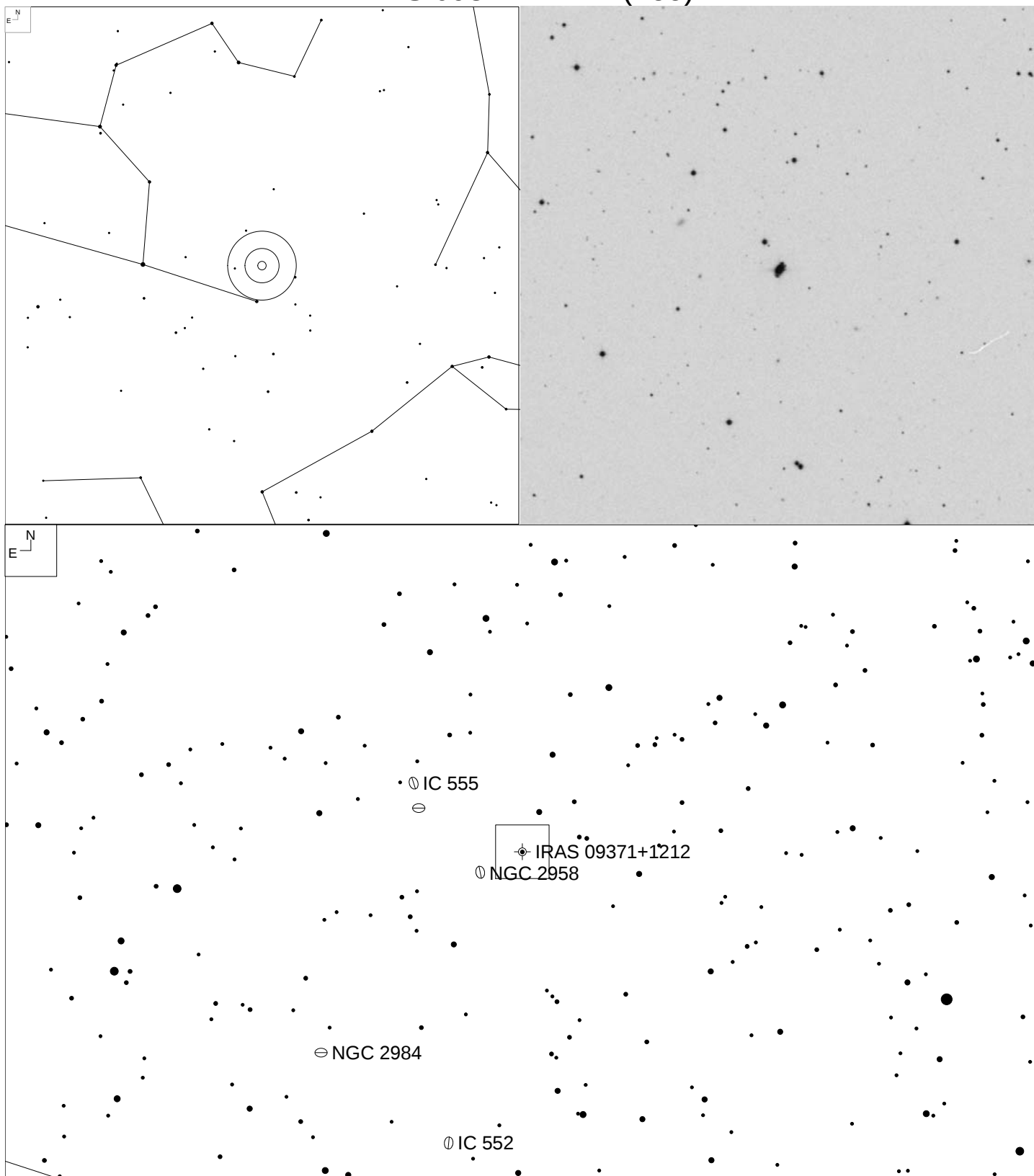
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 253+10.1	2	08 57 45.9	-28 57 36	15.3p	16.6	63x54"

NGC 2818 (Pyxis)



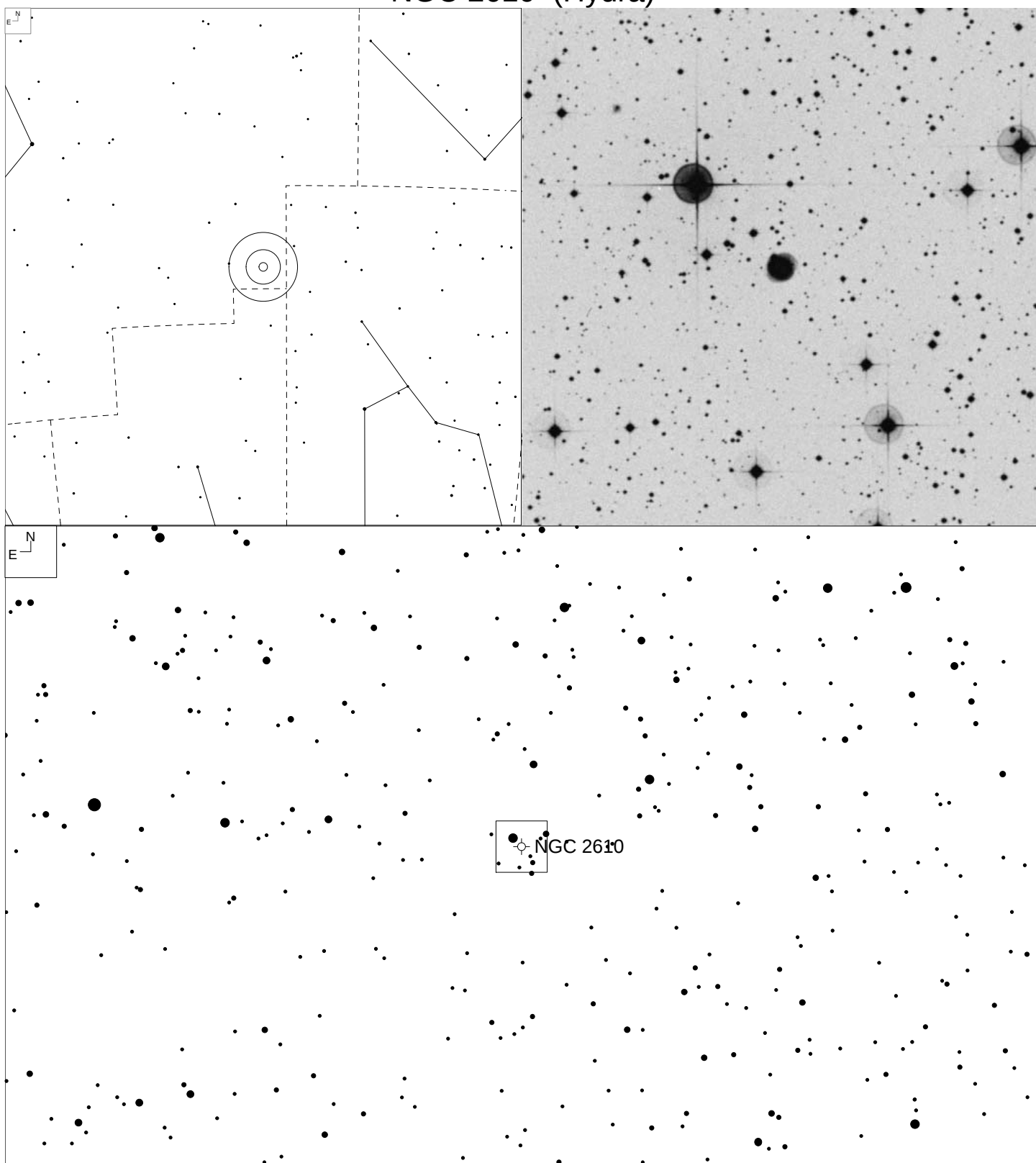
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 261+8.1	3b	09 16 01.5	-36 37 37	13.0p 11.6v	17.5	93 x 55"

IRAS 09371+1212 (Leo)



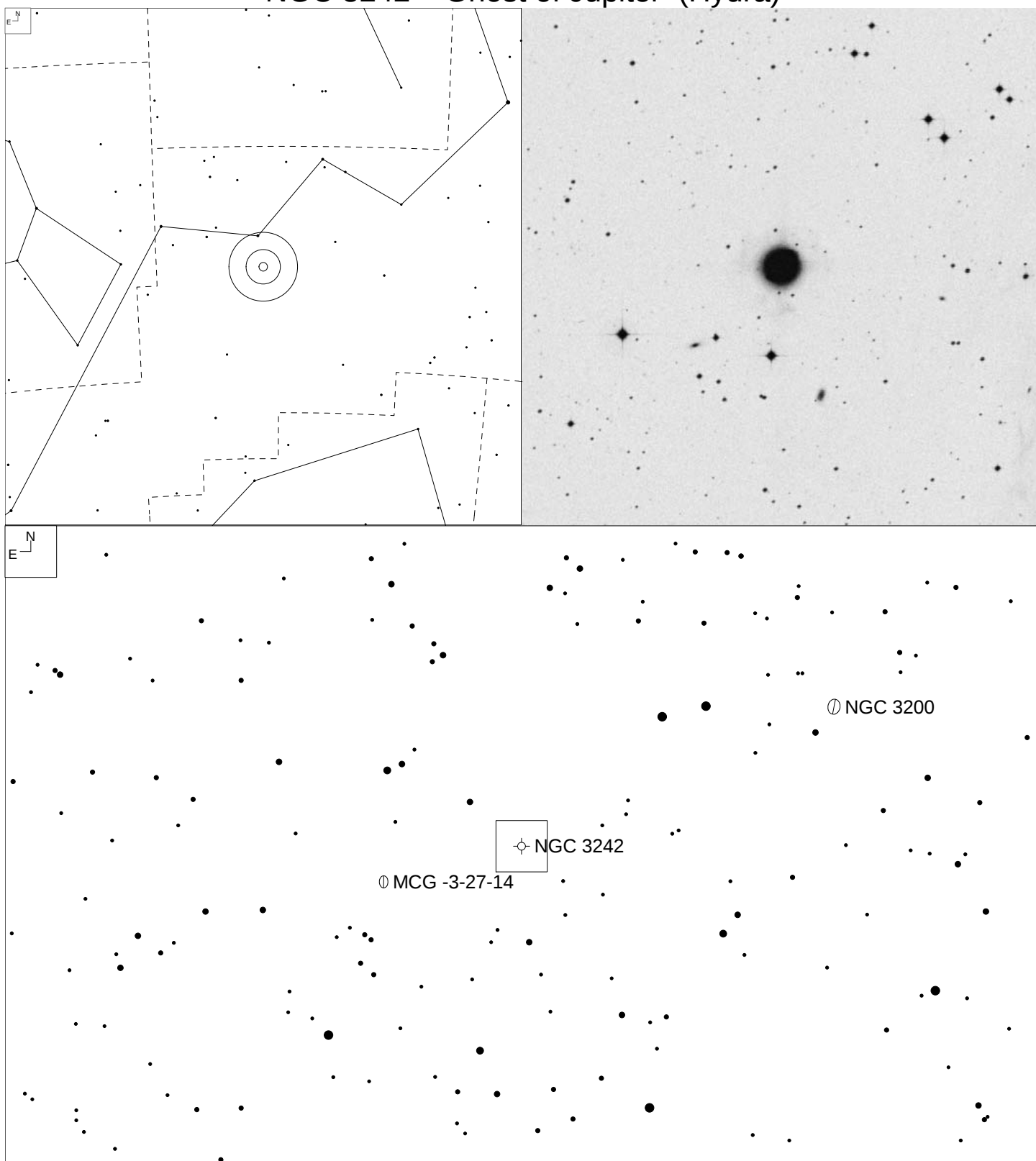
Other ID	Type	RA	Dec	Mag	* Mag	Size
Frosty Leo	Proto	09 39 54	+11 59	10.5	11	12"

NGC 2610 (Hydra)



Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 239+13.1	4+2	08 33 23.4	-16 08 58	13.6p 12.7v	15.9	58"

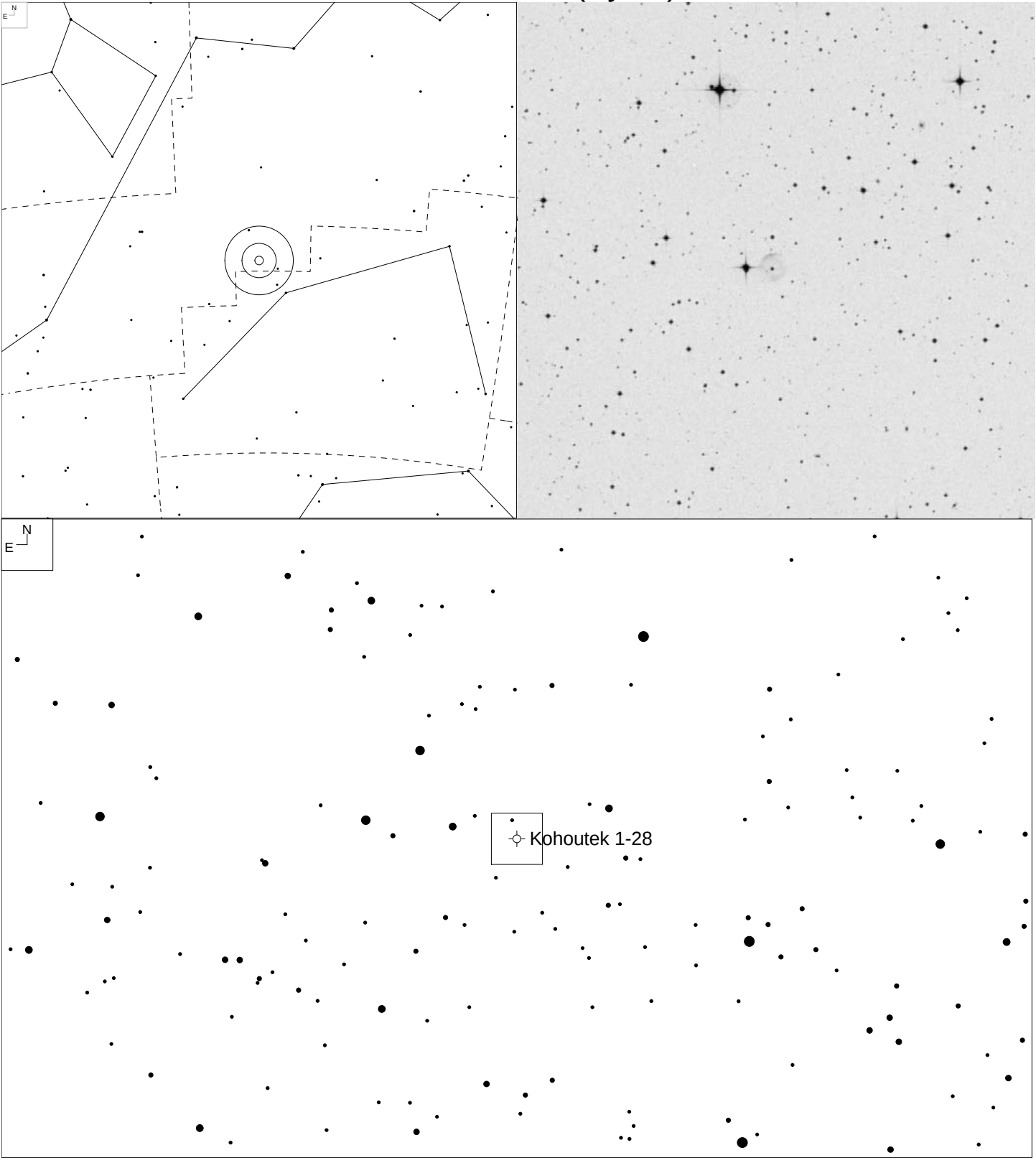
NGC 3242 – Ghost of Jupiter (Hydra)



Extension - Easy even without O-III filter. Filament ~12' WSW need large aperture.

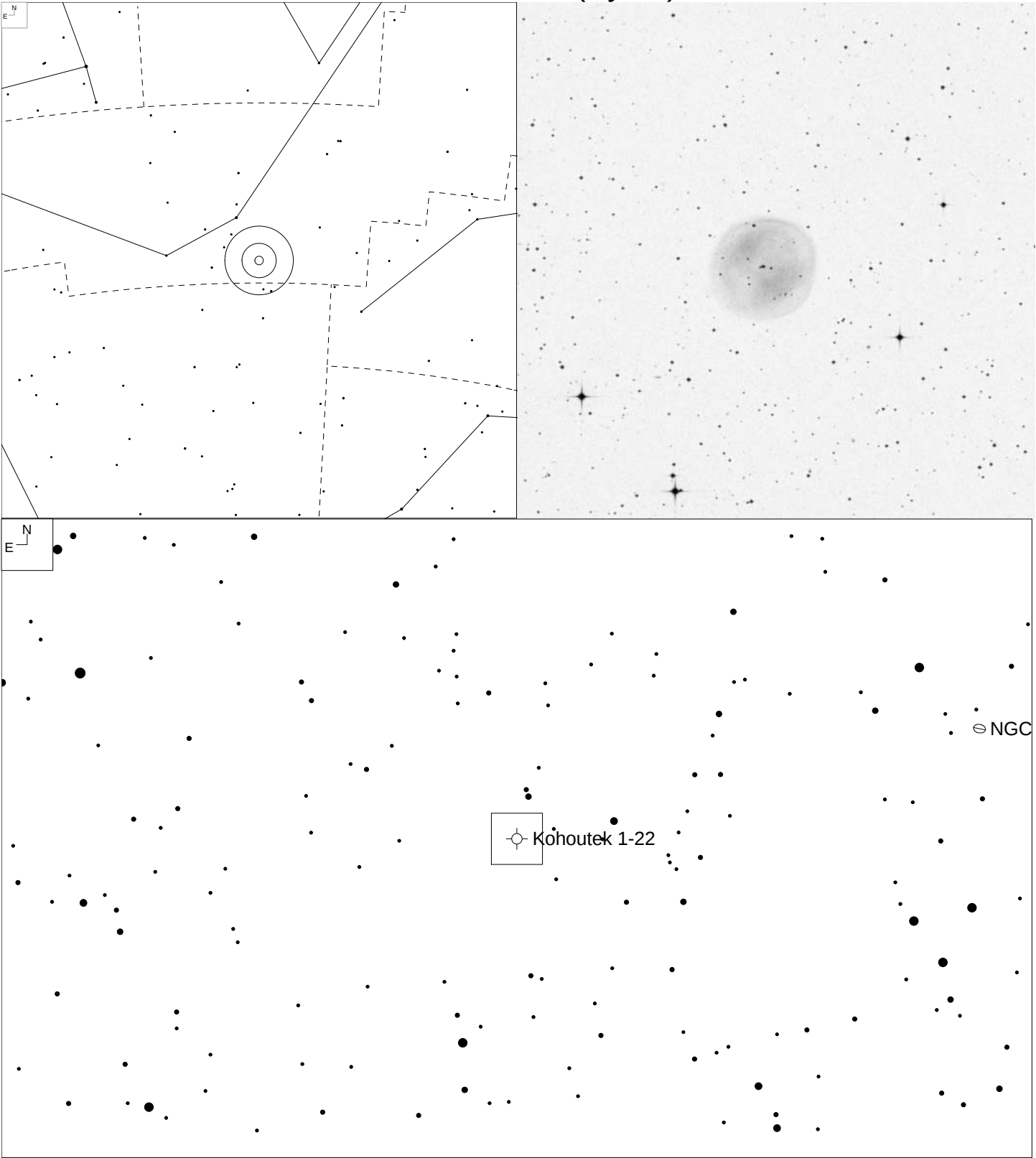
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 261+32.1	4+3b	10 24 46.2	-18 38 34	8.6p 7.7v	13.3	75"

Kohoutek 1-28 (Hydra)



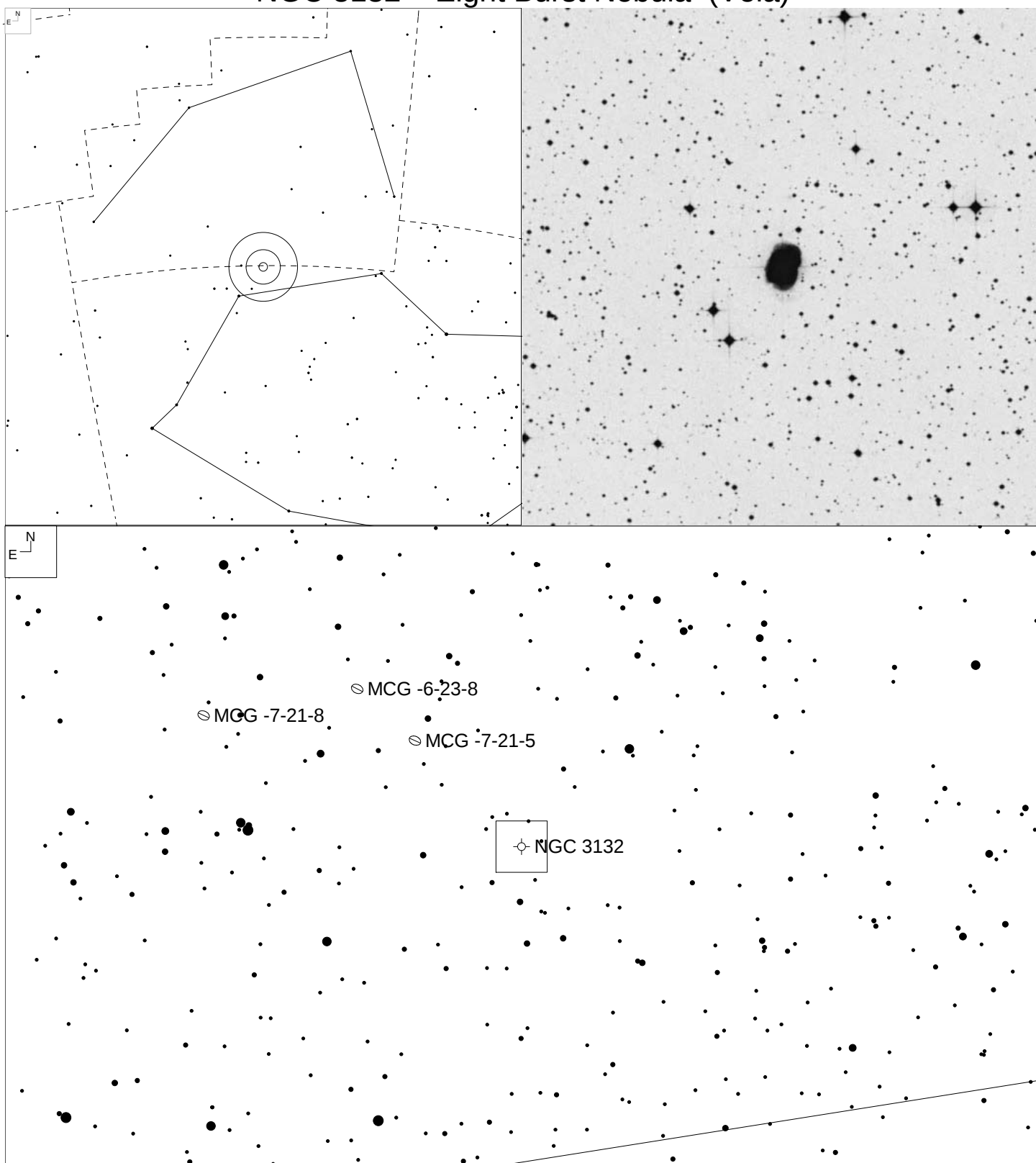
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 270+24.1	-	10 34 30.7	-29 11 16	14	16.7	54"

Kohoutek 1-22 (Hydra)



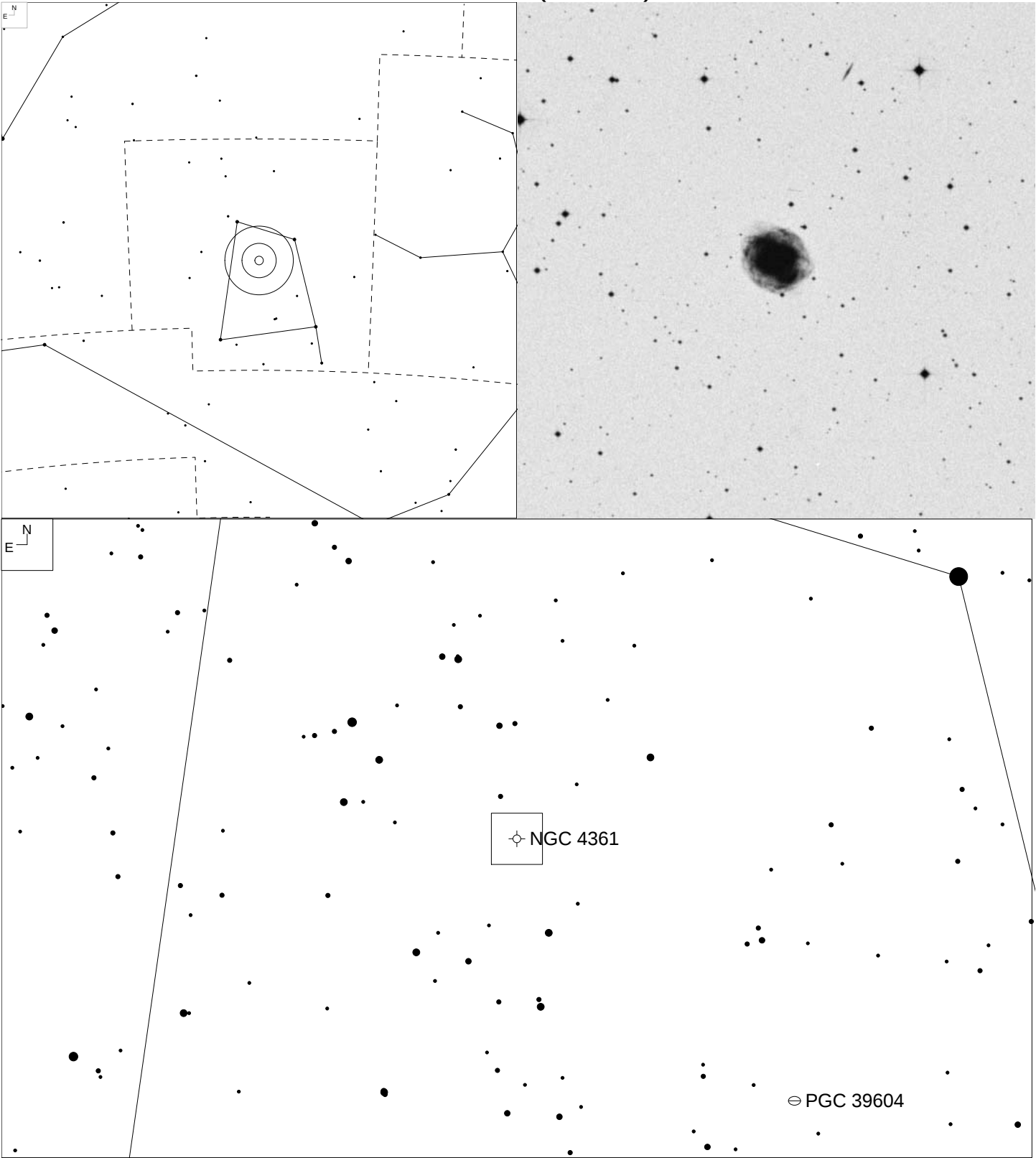
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 283+25.1	-	11 26 43.7	-34 22 18	12.6p 12.1v	17.4	3.0'

NGC 3132 – Eight Burst Nebula (Vela)



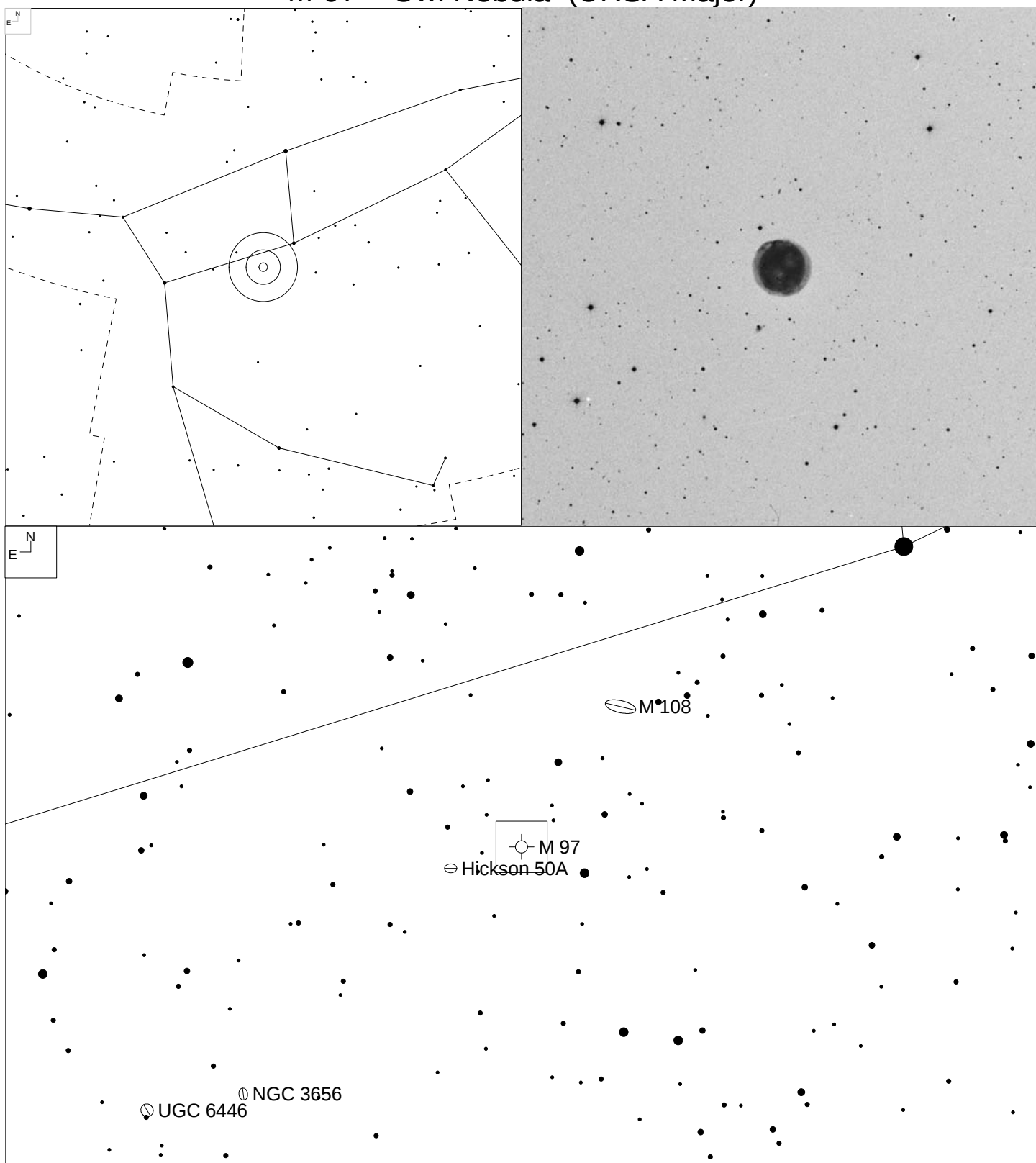
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 272+12.1	4+2	10 07 01.8	-40 26 09	8.2p 9.2v	10.07	88 x 58"

NGC 4361 (Corvus)



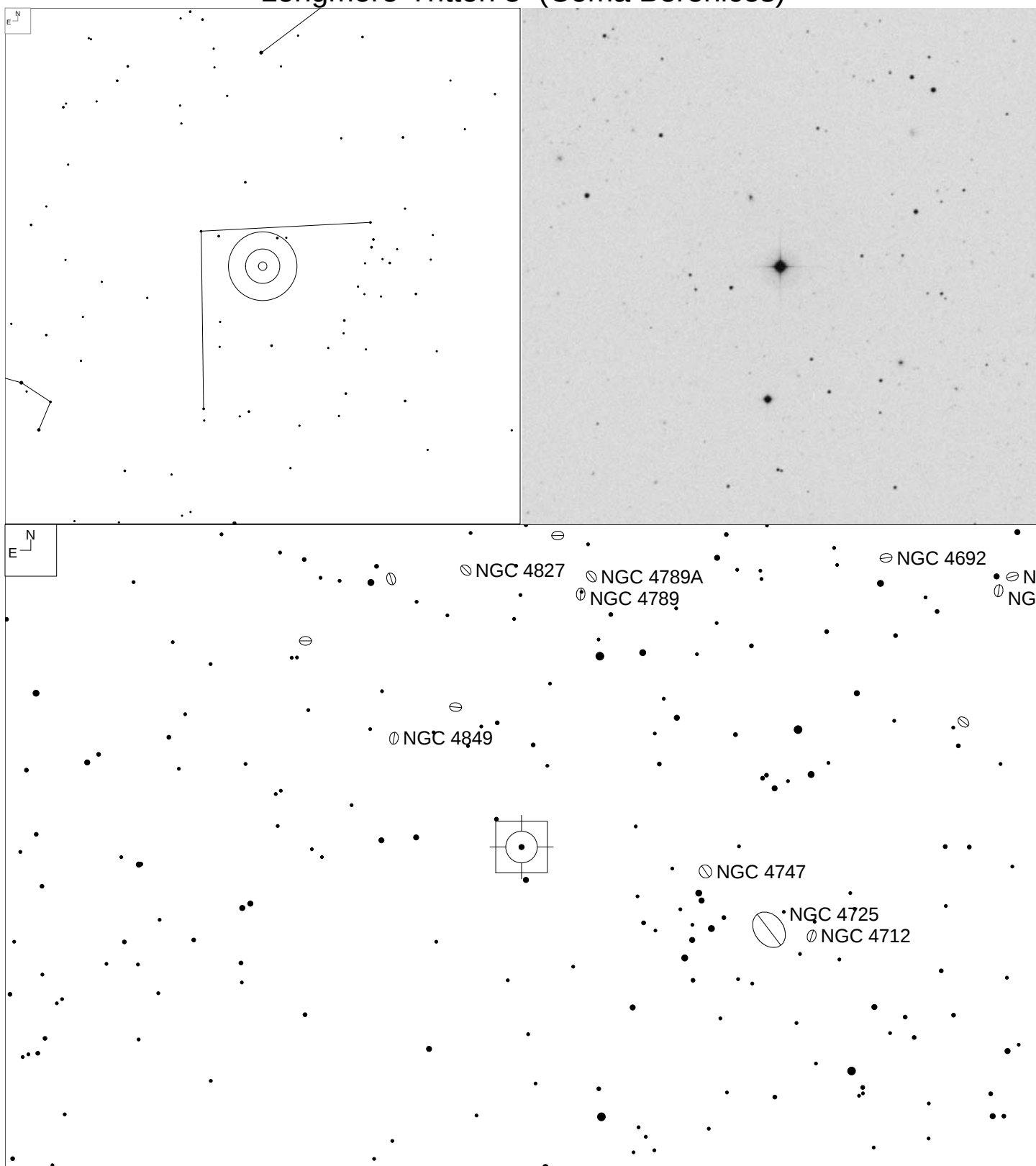
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 294+43.1	3a+2	12 24 30.8	-18 47 02	10.3p 10.9v	13.2	118"

M-97 – Owl Nebula (URSA Major)



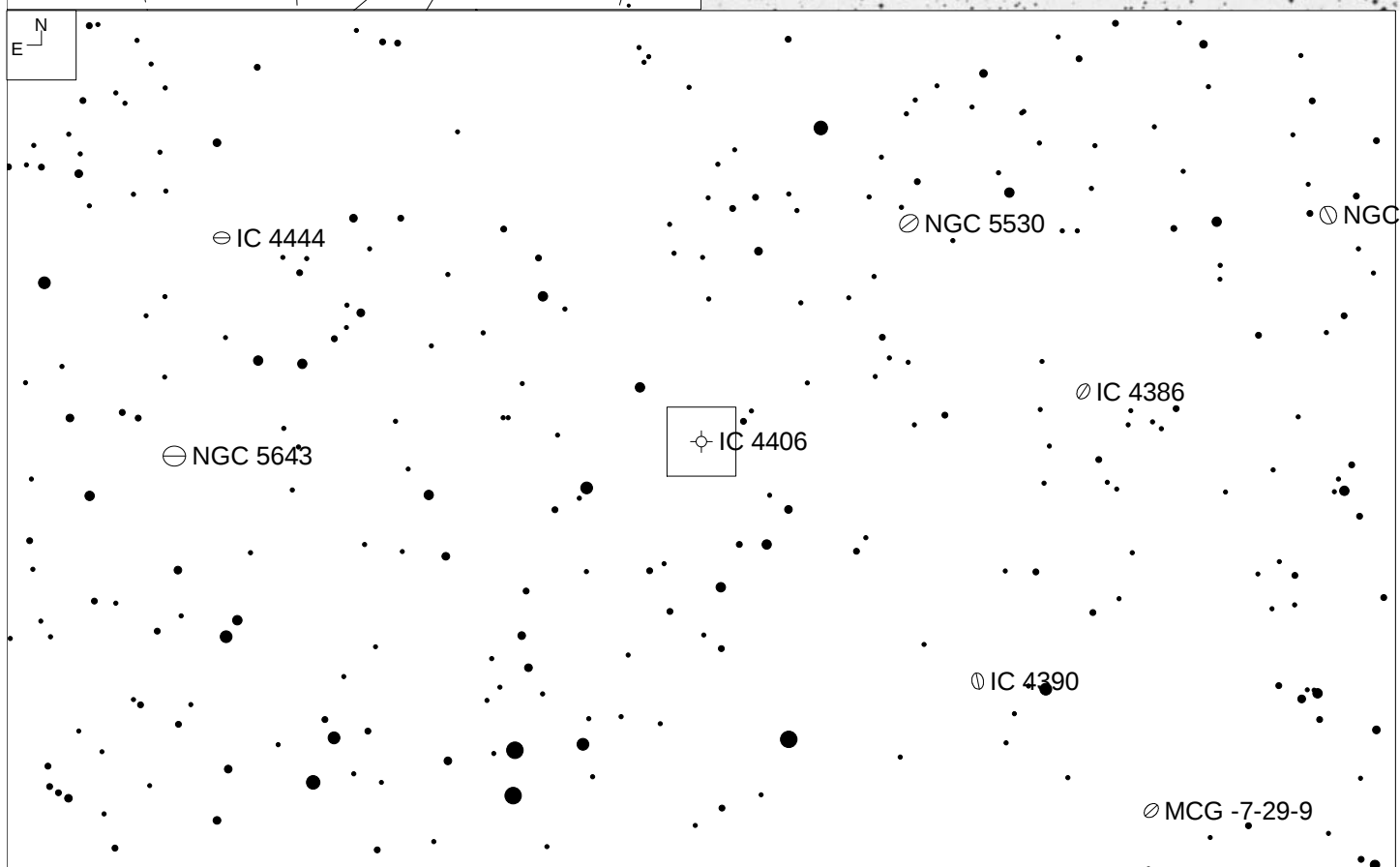
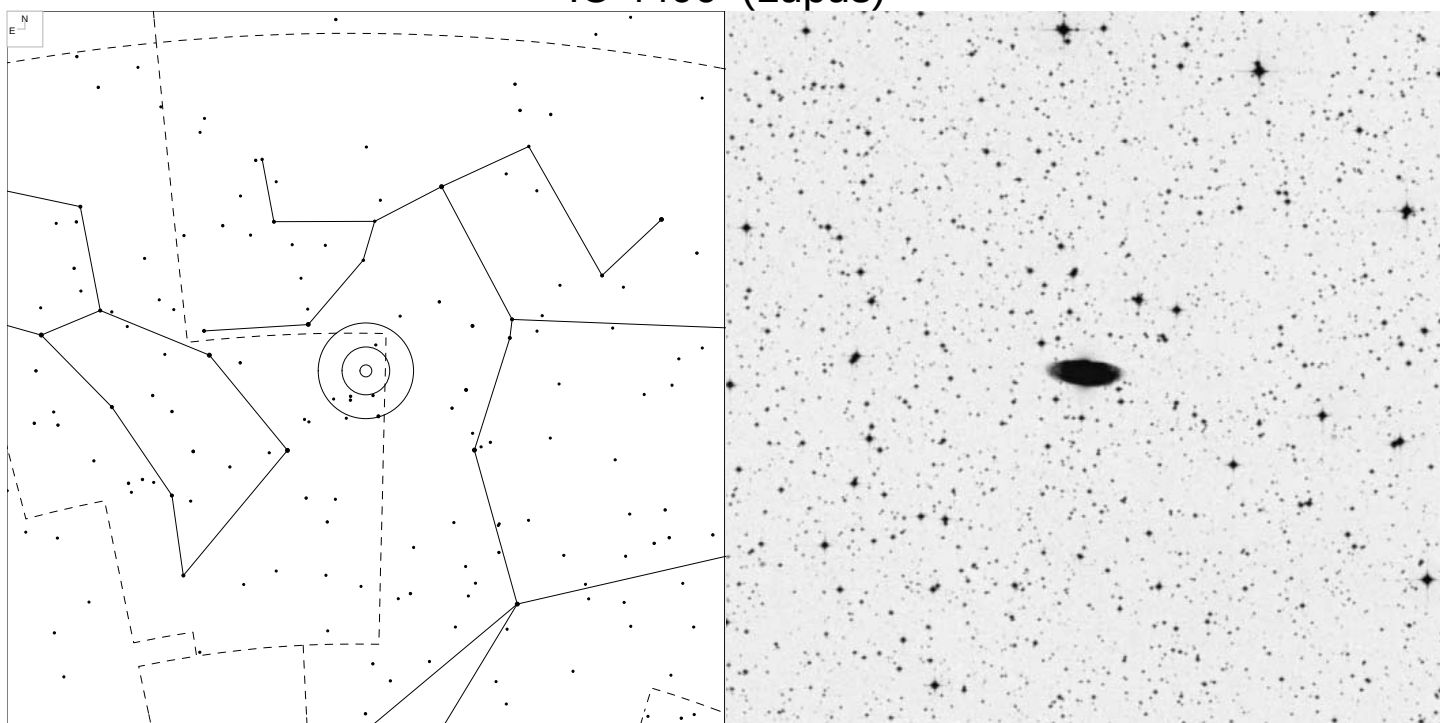
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 148+57.1	3a	11 14 47.8	+55 01 09	12.0p	13.2	3.4'
NGC 3587				9.9v		

Longmore-Tritton 5 (Coma Berenices)



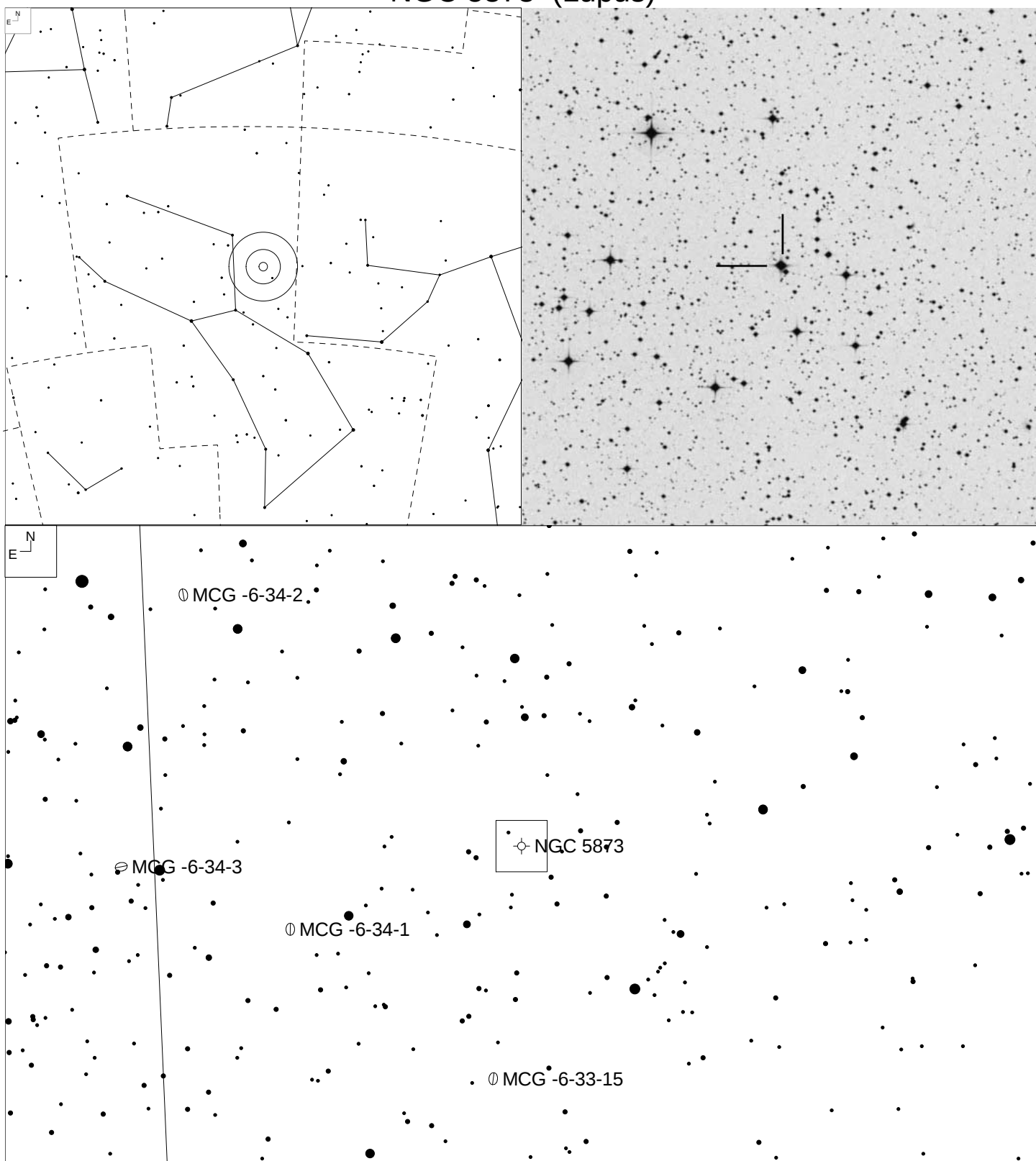
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 339+88.1	-	12 55 34	+25 53 31	-	14.9	8.8'

IC 4406 (Lupus)



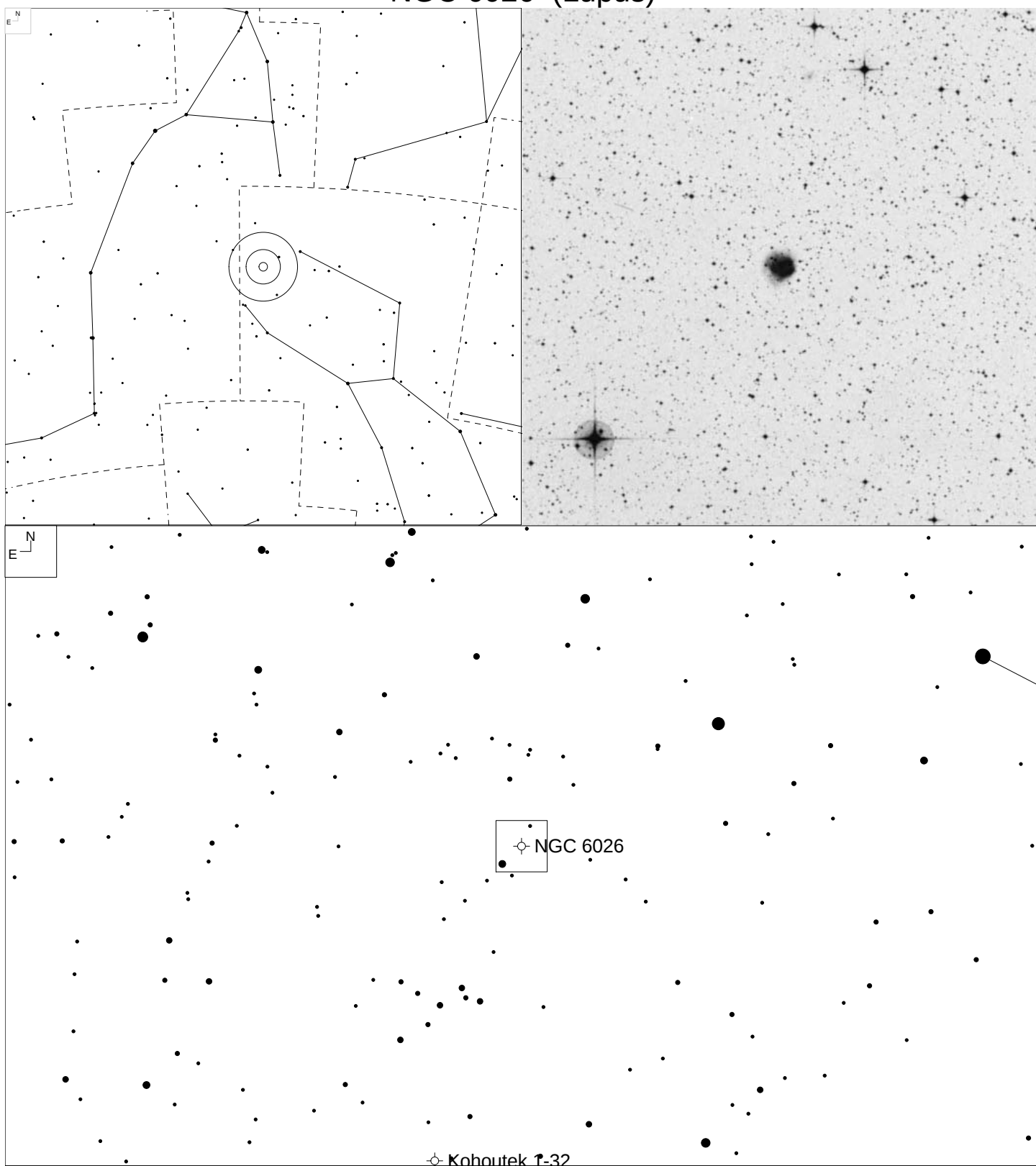
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 319+15.1	4+3	14 22 26.5	-44 09 05	10.6p 10.2v	17.4	100x37"

NGC 5873 (Lupus)



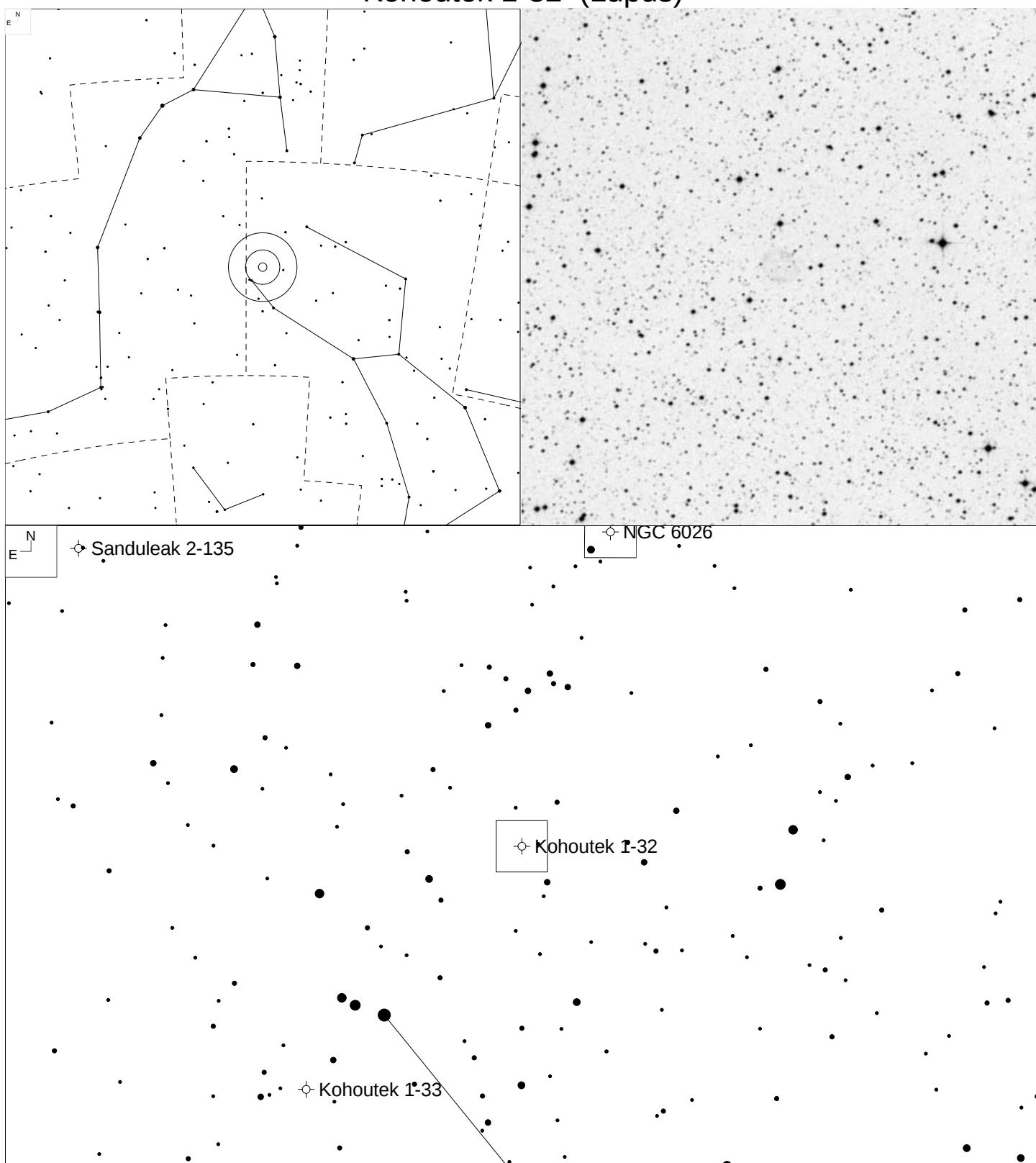
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 331+16.1	2	15 12 51.1	-38 07 33	13.3p 11.0v	15.5	7"

NGC 6026 (Lupus)



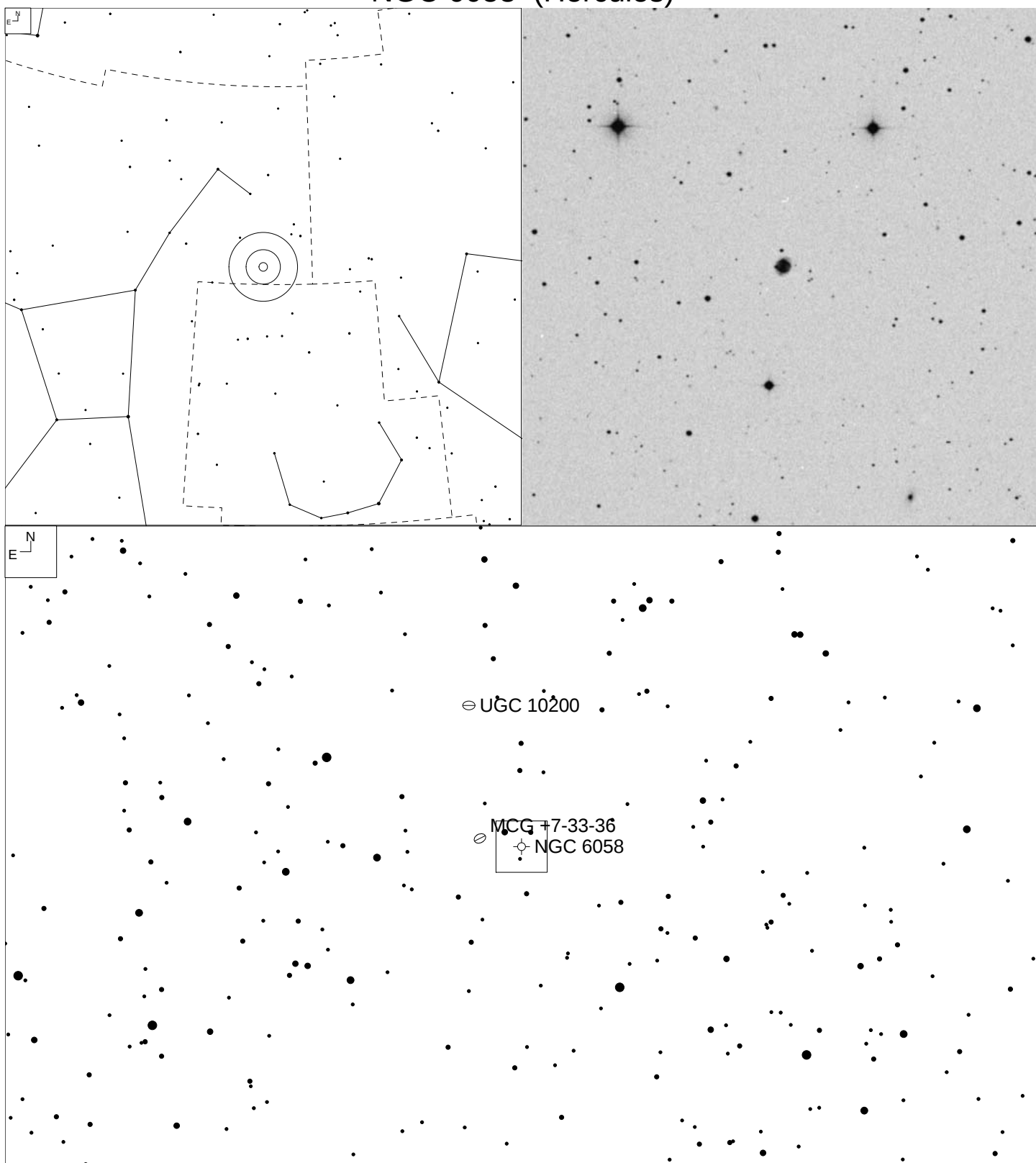
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 341+13.1	4	16 01 21.0	-34 32 36	13.2p 12.9v	13.29	54x36"

Kohoutek 1-32 (Lupus)



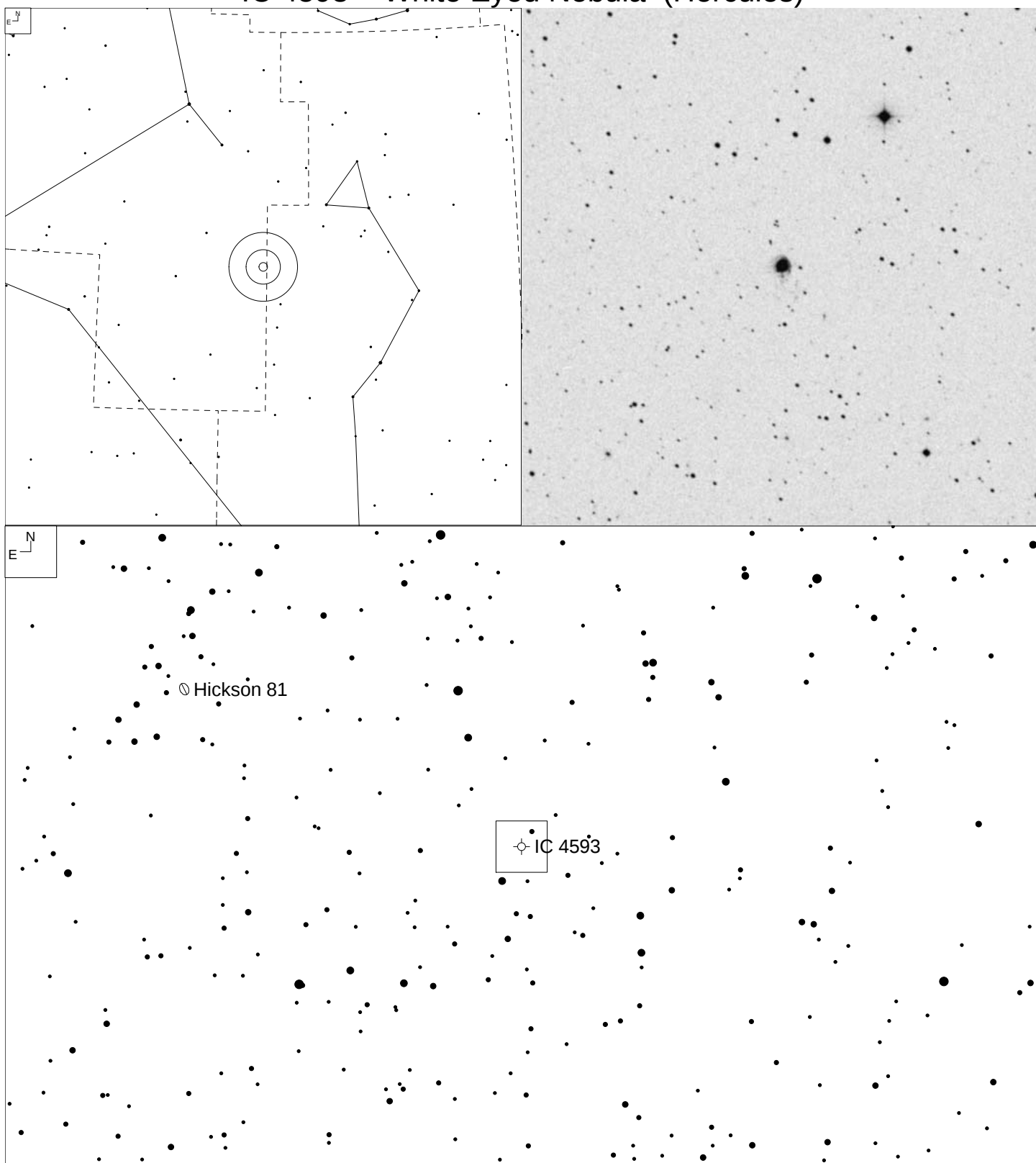
Other ID	Type	RA	Dec	Mag	* Mag	Size
Longmore 11 PK 340+12.1	-	16 03 22.0	-36 00 54	-	19.0	60"

NGC 6058 (Hercules)



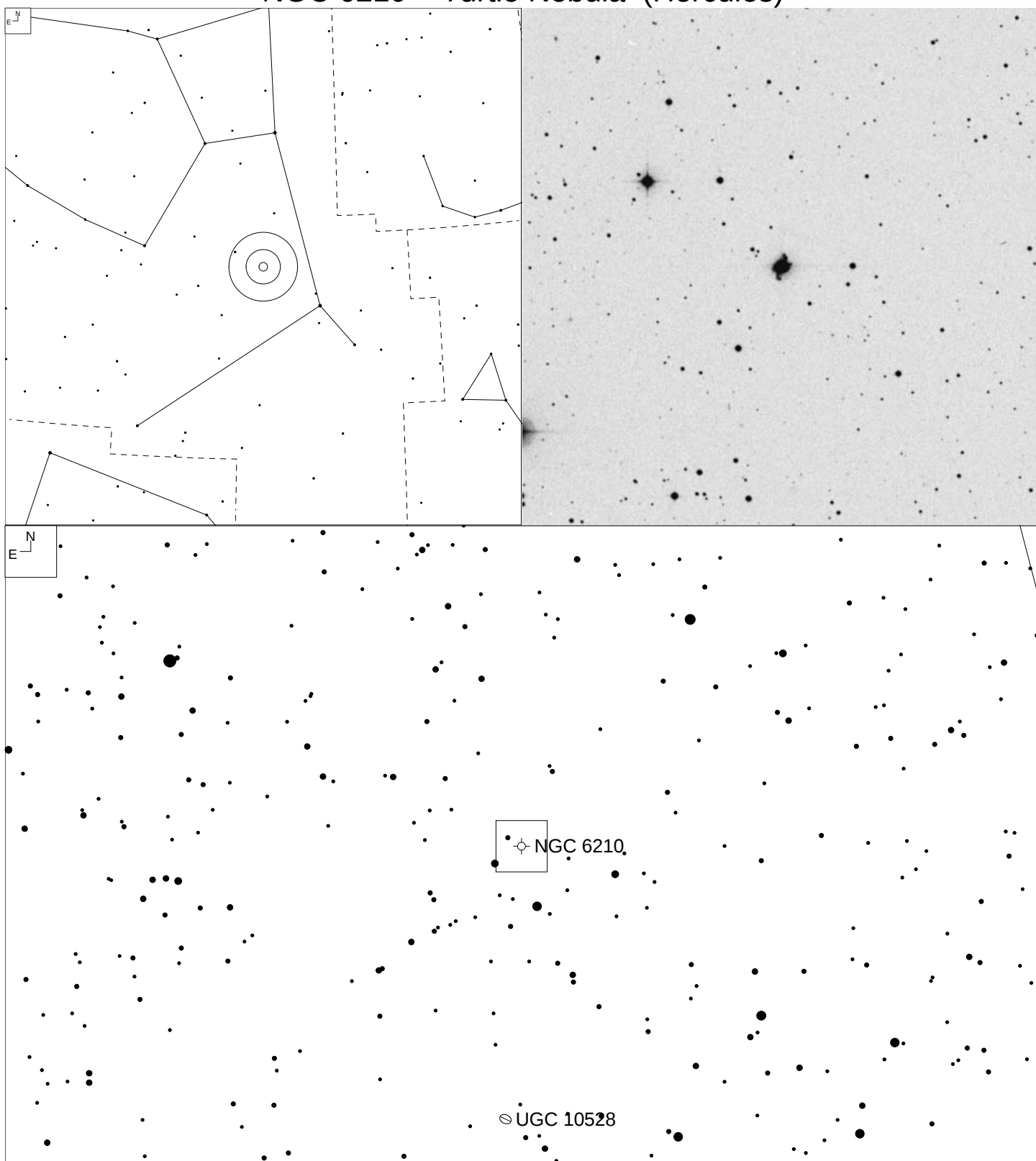
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 64+48.1	3+2	16 04 26.6	+40 40 59	13.3p 12.9v	13.9	35"

IC 4593 – White Eyed Nebula (Hercules)



Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 25+40.1	2+2	16 11 44.5	+12 04 17	10.9p 10.7v	11.2	30"

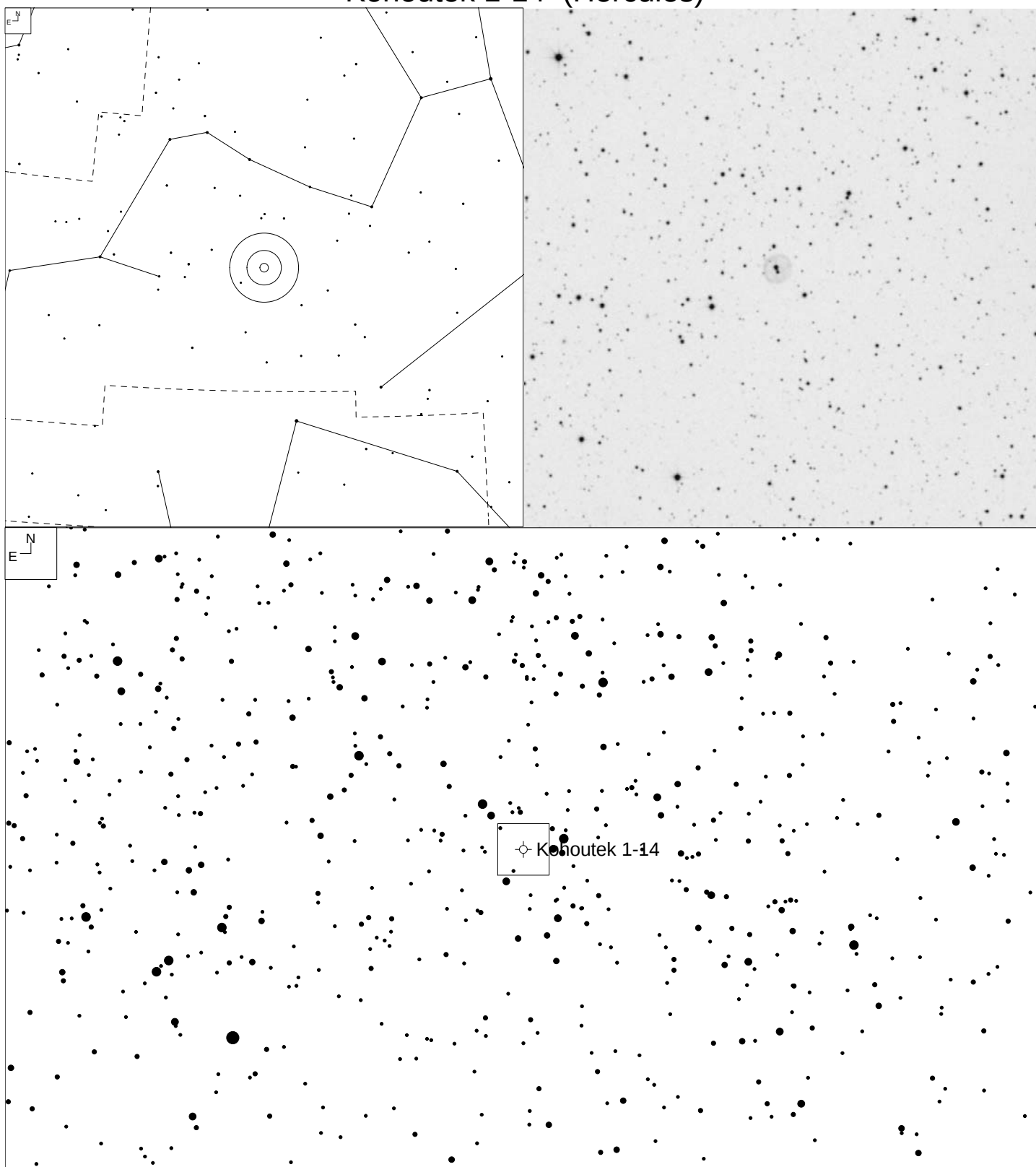
NGC 6210 – Turtle Nebula (Hercules)



Look for extended out halo to the north and west fringes.

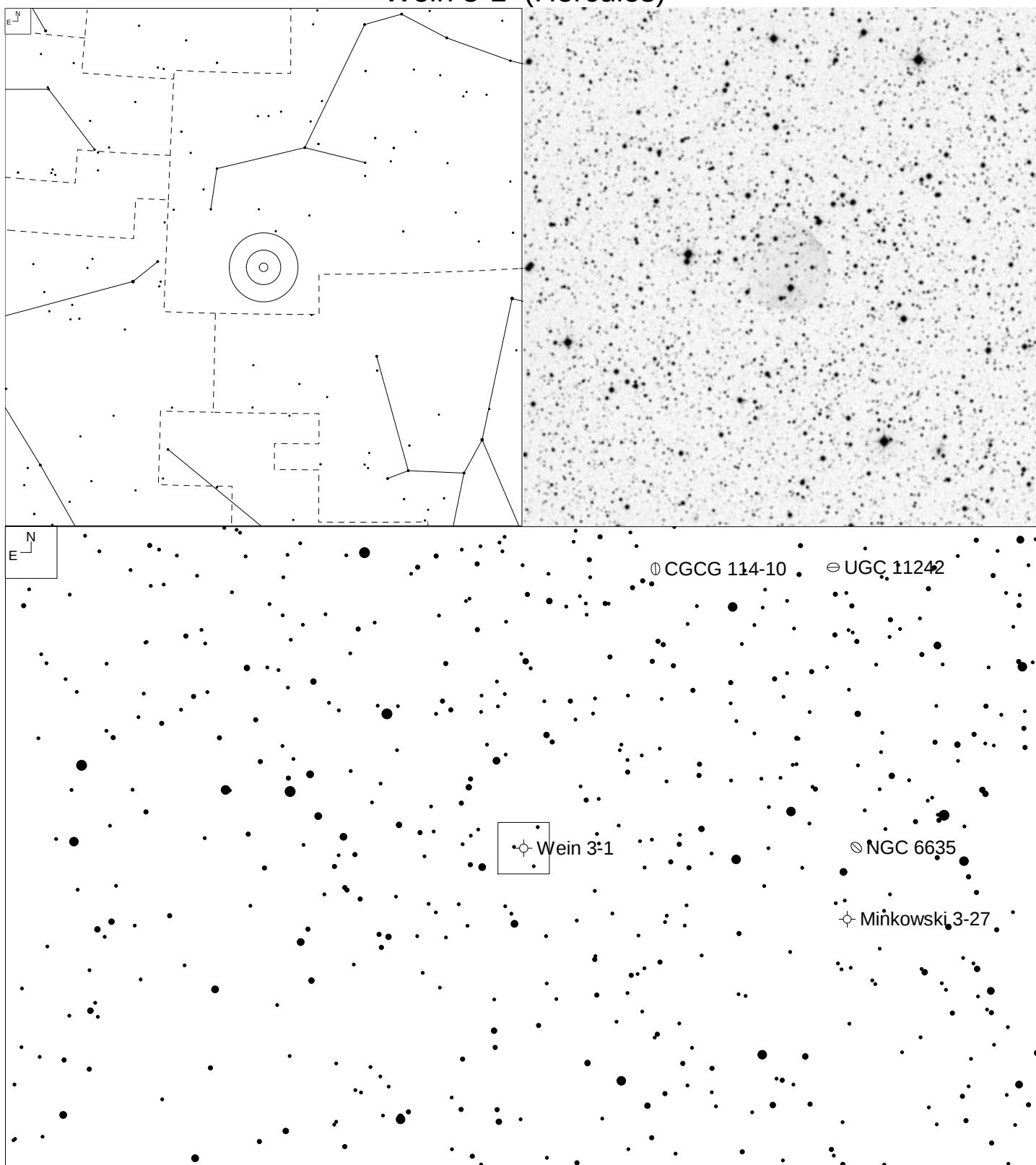
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 43+37.1	2+3b	16 44 29.7	+23 47 58	9.3p 8.8v	12.6	30"

Kohoutek 1-14 (Hercules)



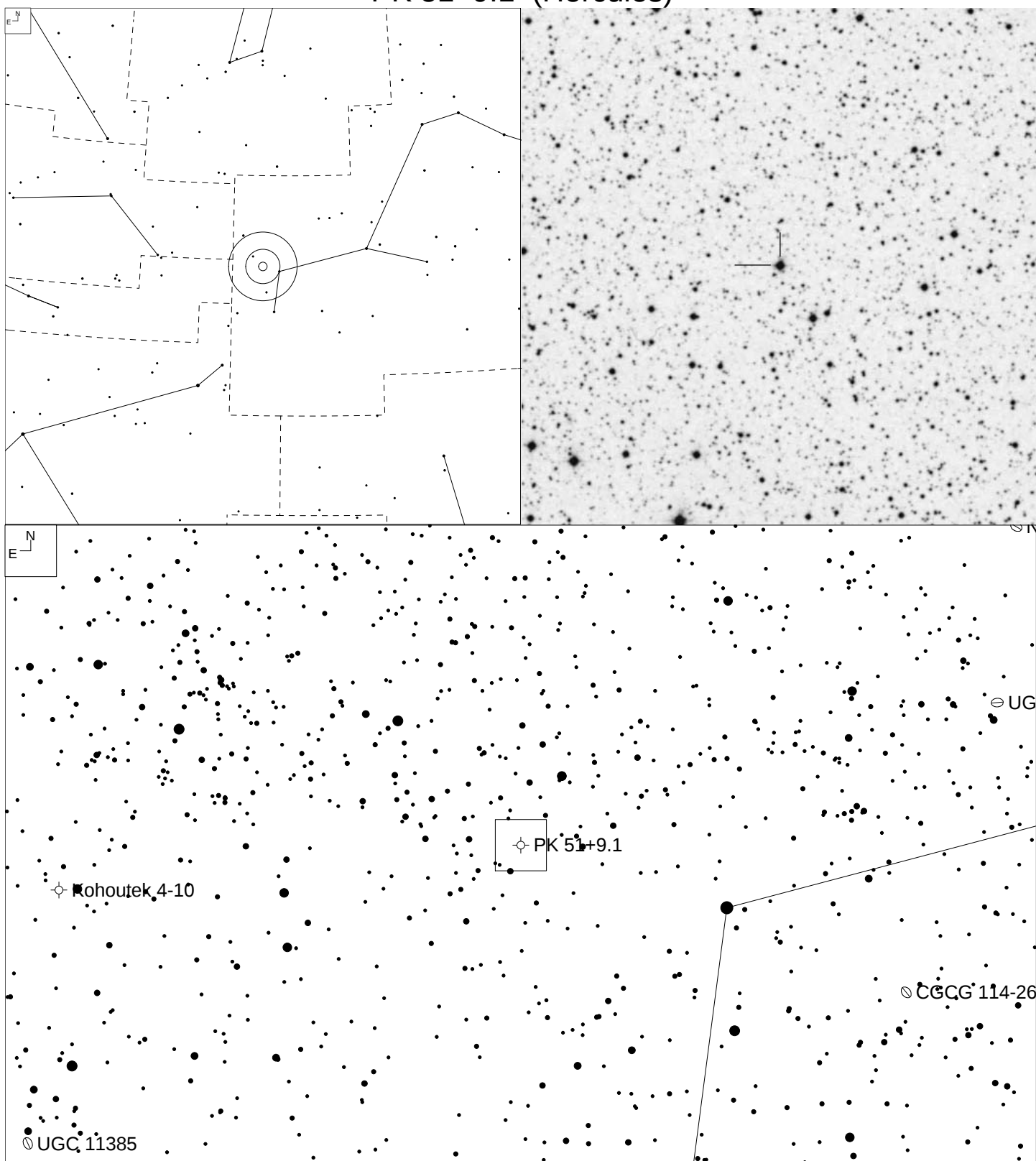
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 45+24.1	4	17 42 36.6	+21 27 01	15.5p 15.1v	16.4	47"

Wein 3-1 (Hercules)



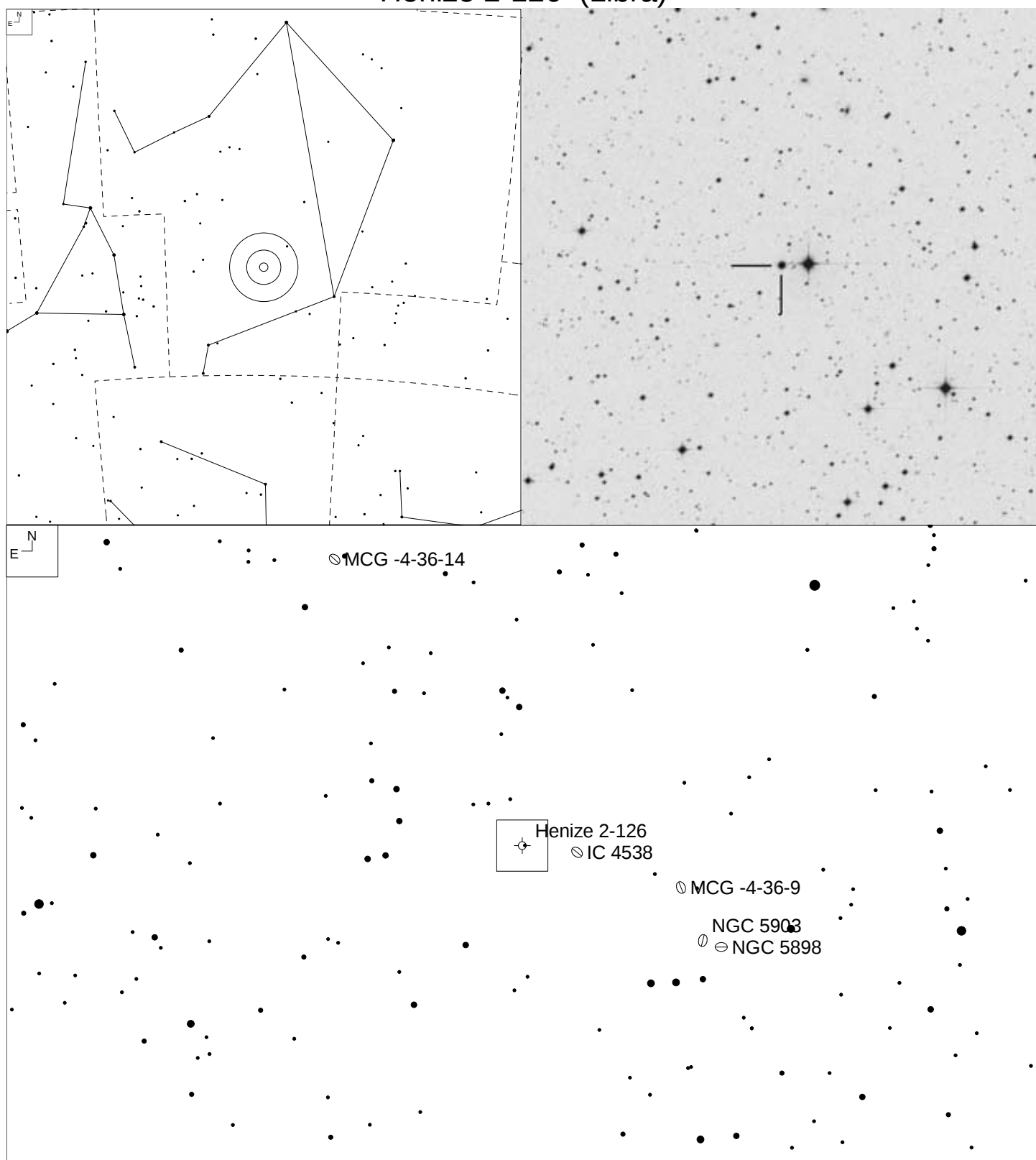
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 44+10.1	-	18 34 03.1	+14 49 17	-	-	2.3'

PK 51+9.1 (Hercules)



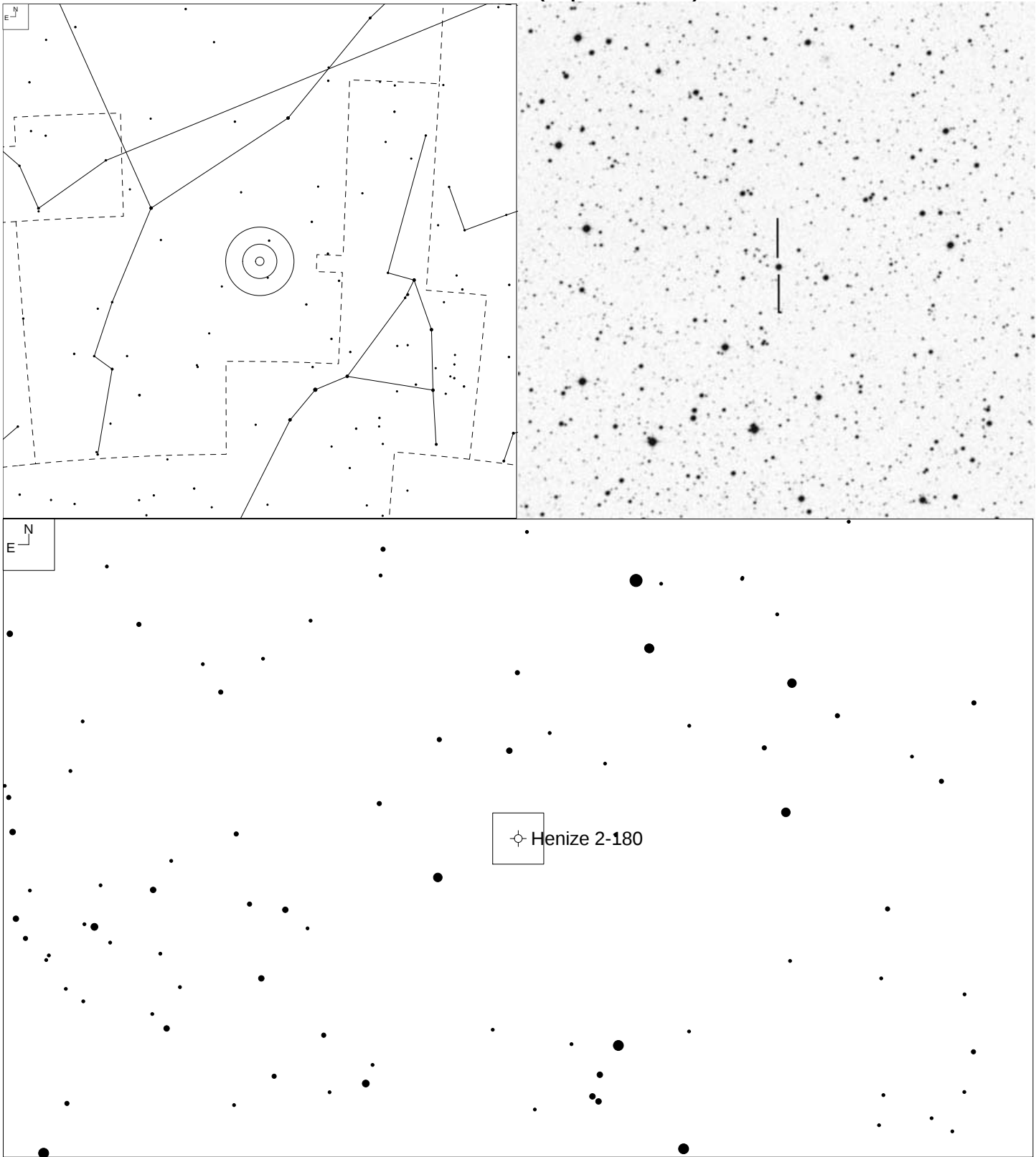
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	18 49 47.6	+20 50 36	12.2p 11.4v	13.4	3"

Henize 2-126 (Libra)



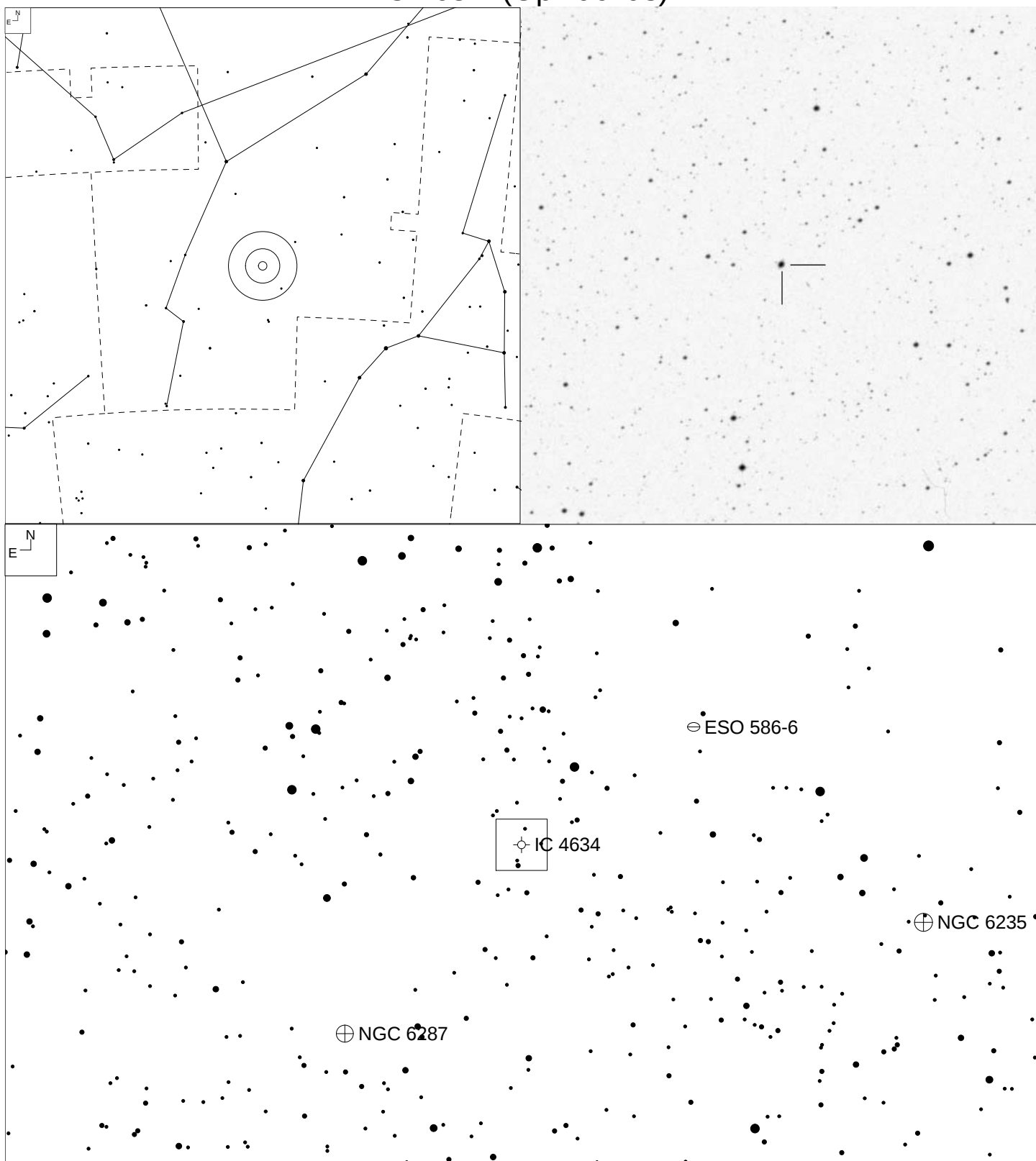
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 342+27.1	2	15 22 19.4	-23 37 33	11.5p	18.8	16"
Sanduleak 2-120				11.6v		

Henize 2-180 (Ophiuchus)



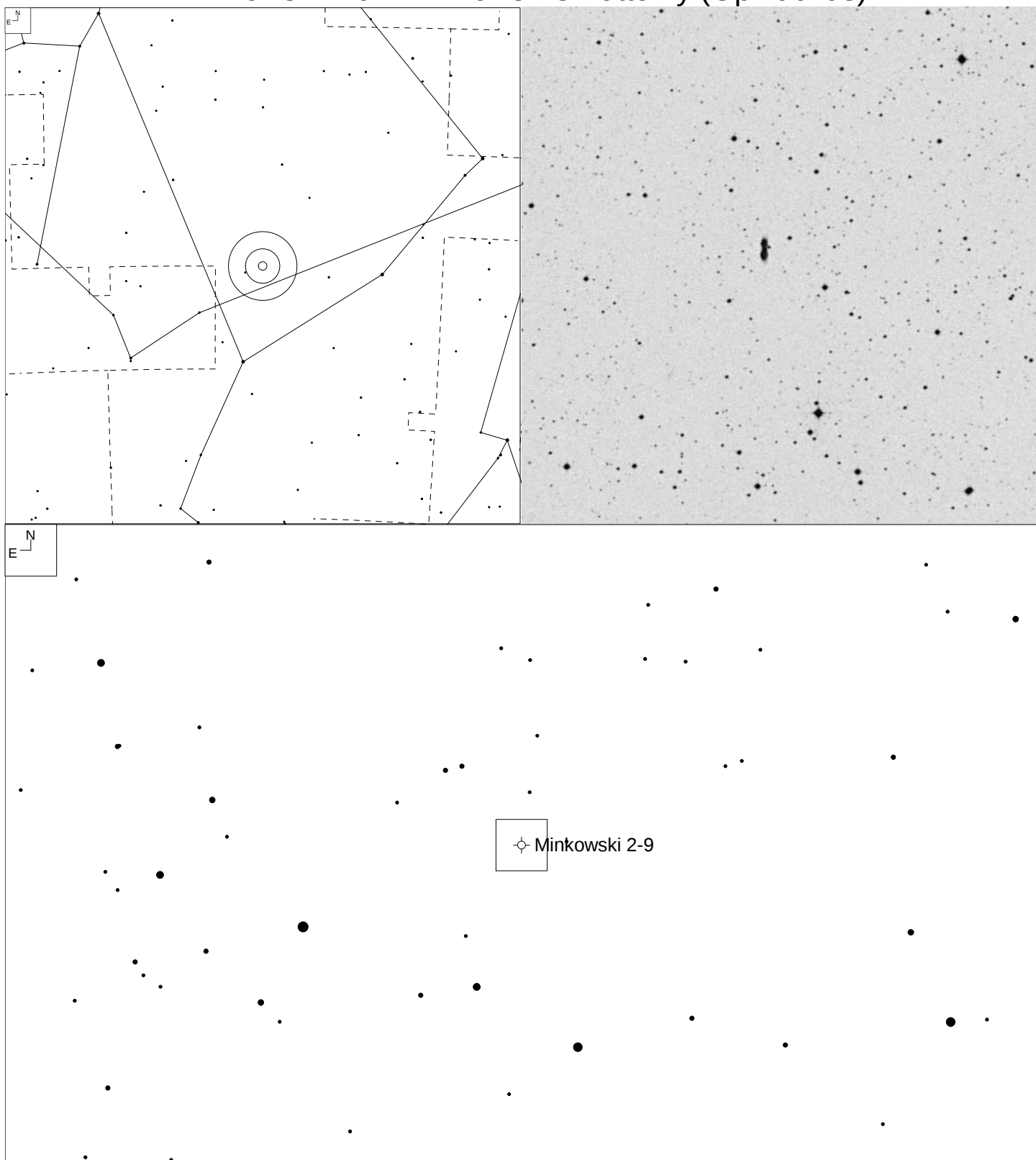
Other ID	Type	RA	Dec	Mag	* Mag	Size
Sanduleak 2-152 PK 0+17.1	1	16 43 53.9	-18 57 14	14.4	15.2	12"

IC 4634 (Ophiuchus)



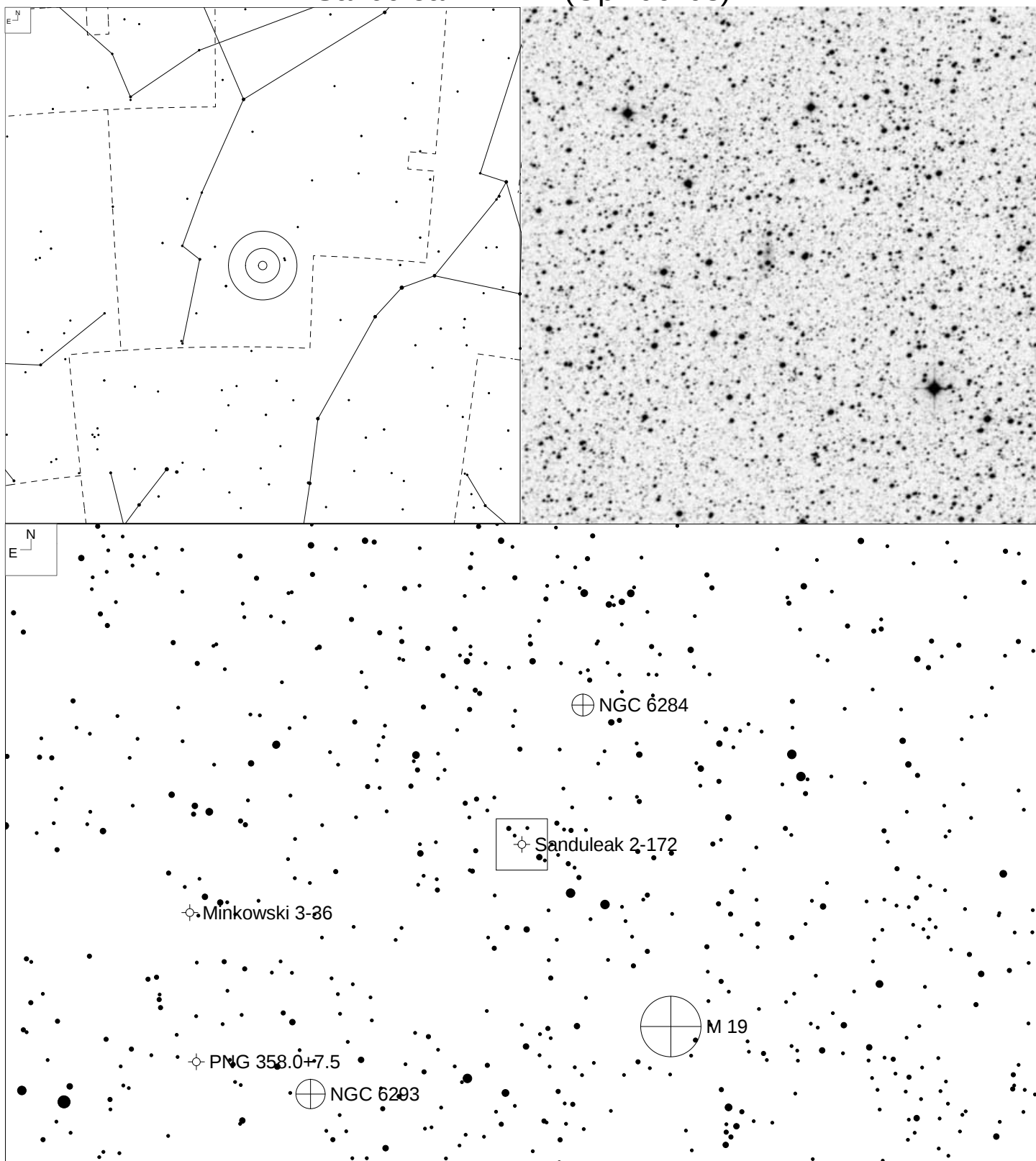
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 0+12.1	2a+3	17 01 33.8	-21 49 34	10.7p 10.9v	13.9	12"

Minkowski 2-9 – Minkowski's Butterfly (Ophiuchus)



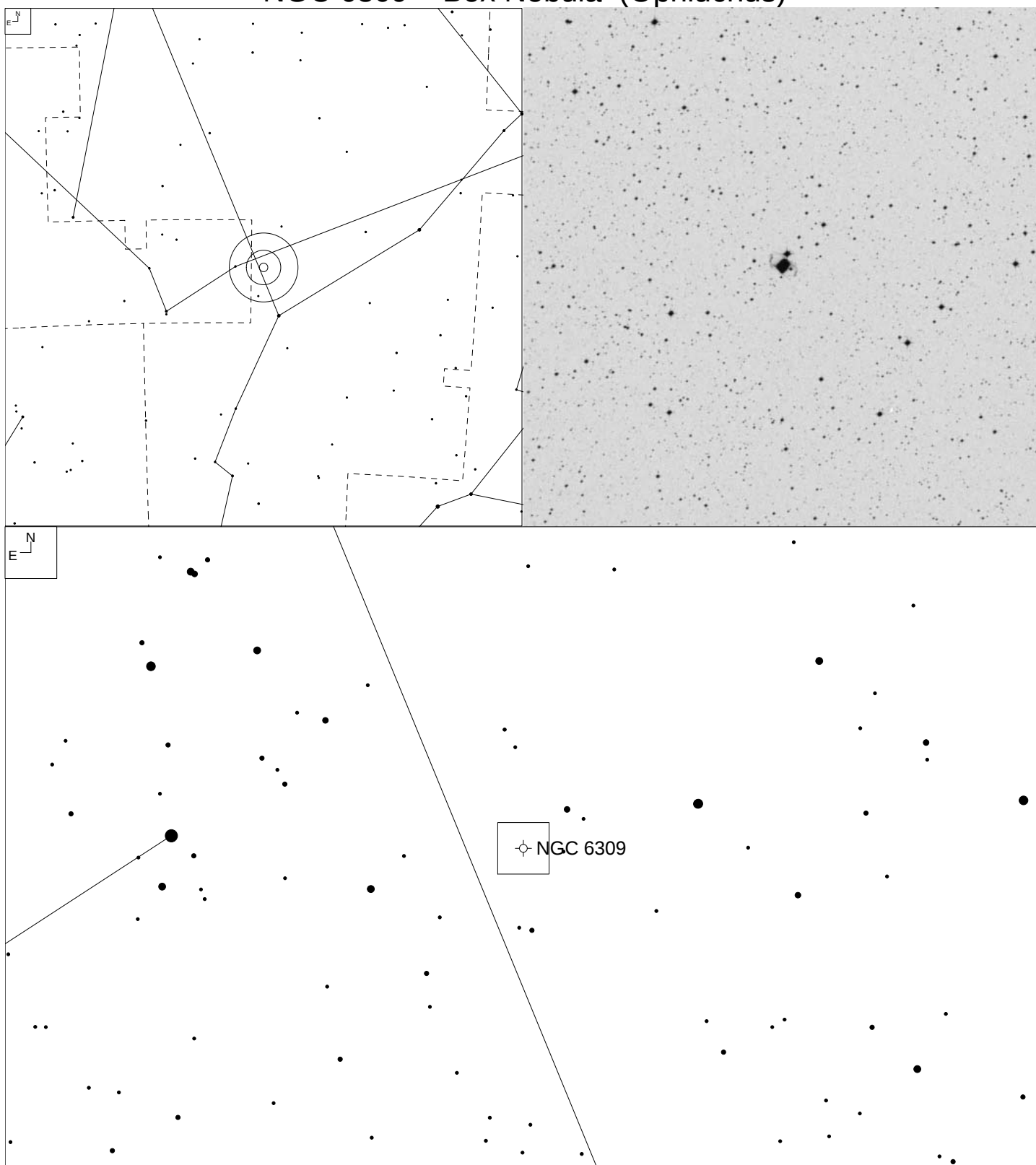
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 10+18.2	?+6	17 05 37.9	-10 08 32	13.2p 14.6v	15.6	50 x 20"

Sanduleak 2-172 (Ophiuchus)



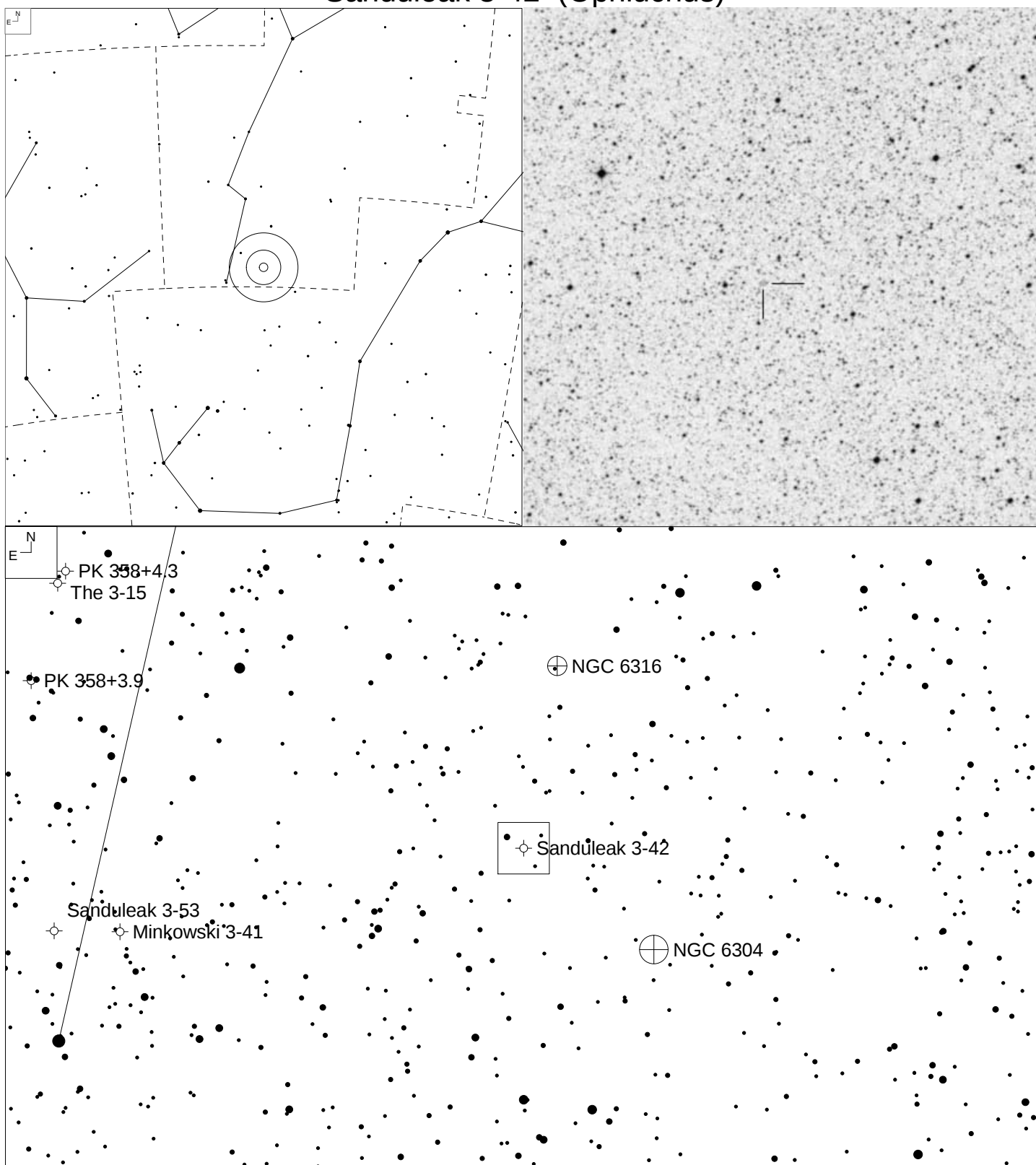
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 358+9.1	-	17 05 44.6	-25 25 02	14.9	17.8	10"

NGC 6309 – Box Nebula (Ophiuchus)



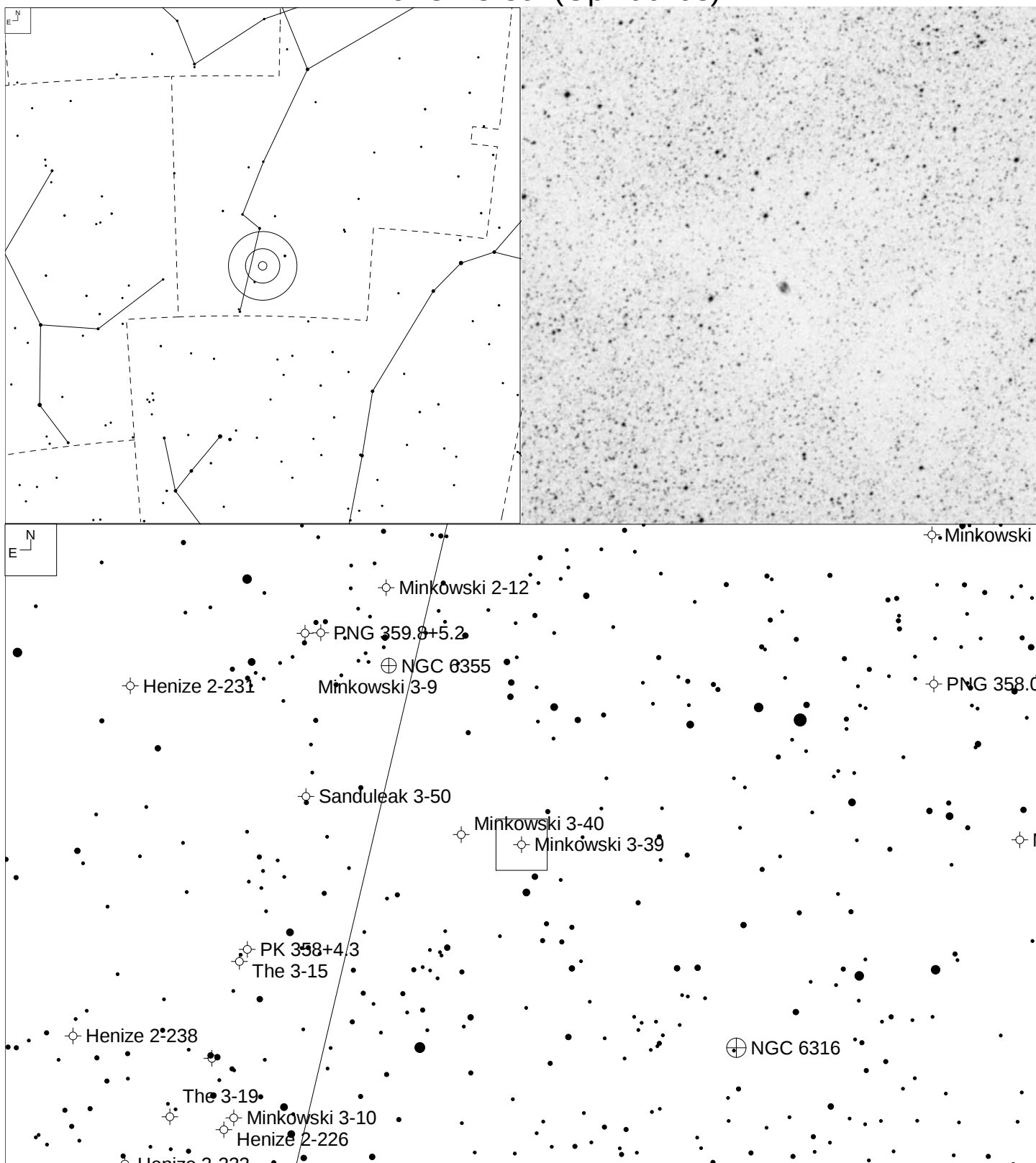
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 9+14.1	3b+6	17 14 04.5	-12 54 41	10.8p 11.5v	16.5	21x12"

Sanduleak 3-42 (Ophiuchus)



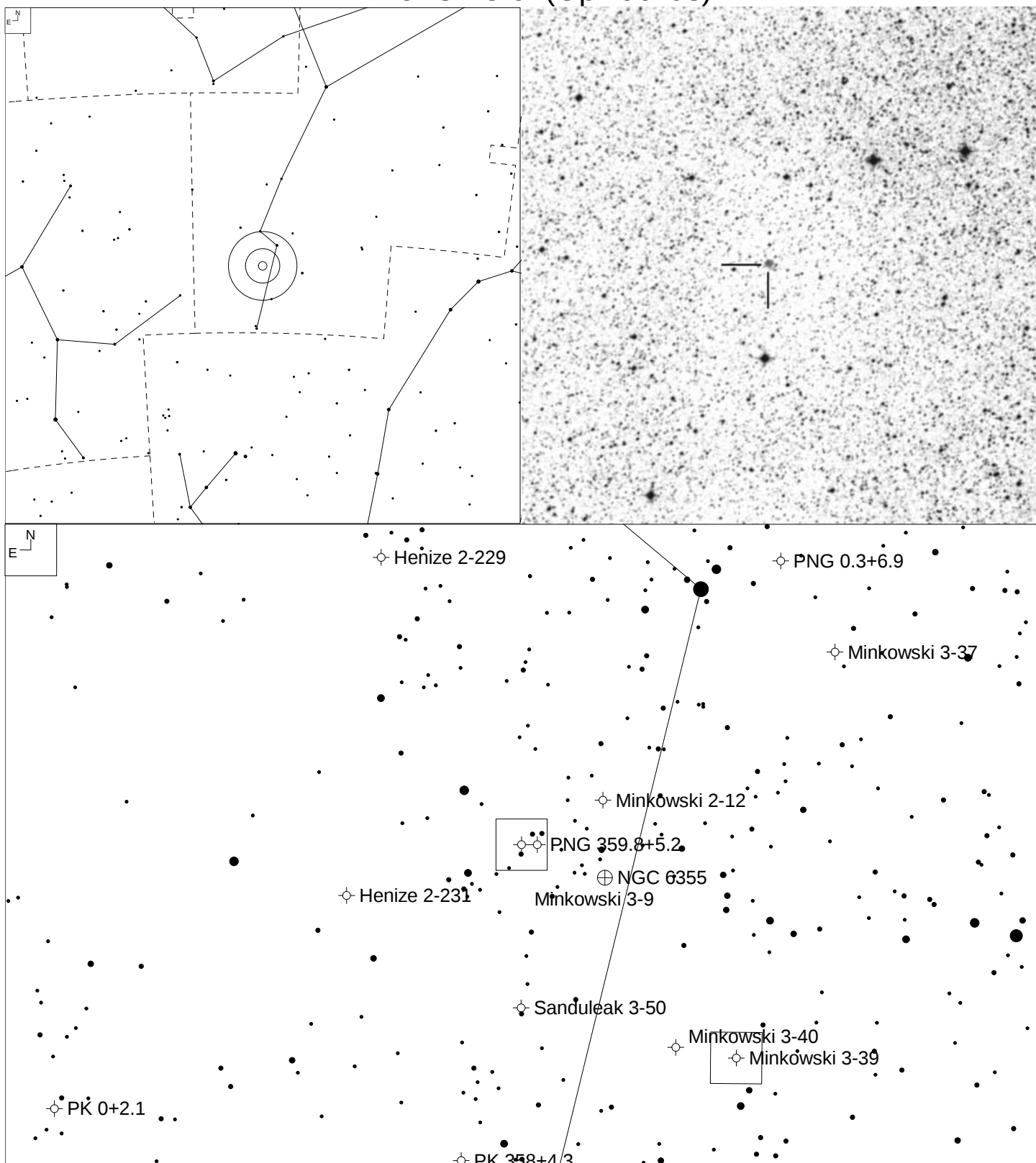
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 356+5.1	-	17 17 20.3	-28 59 27	16.4p	-	17"

Minkowski 3-39 (Ophiuchus)



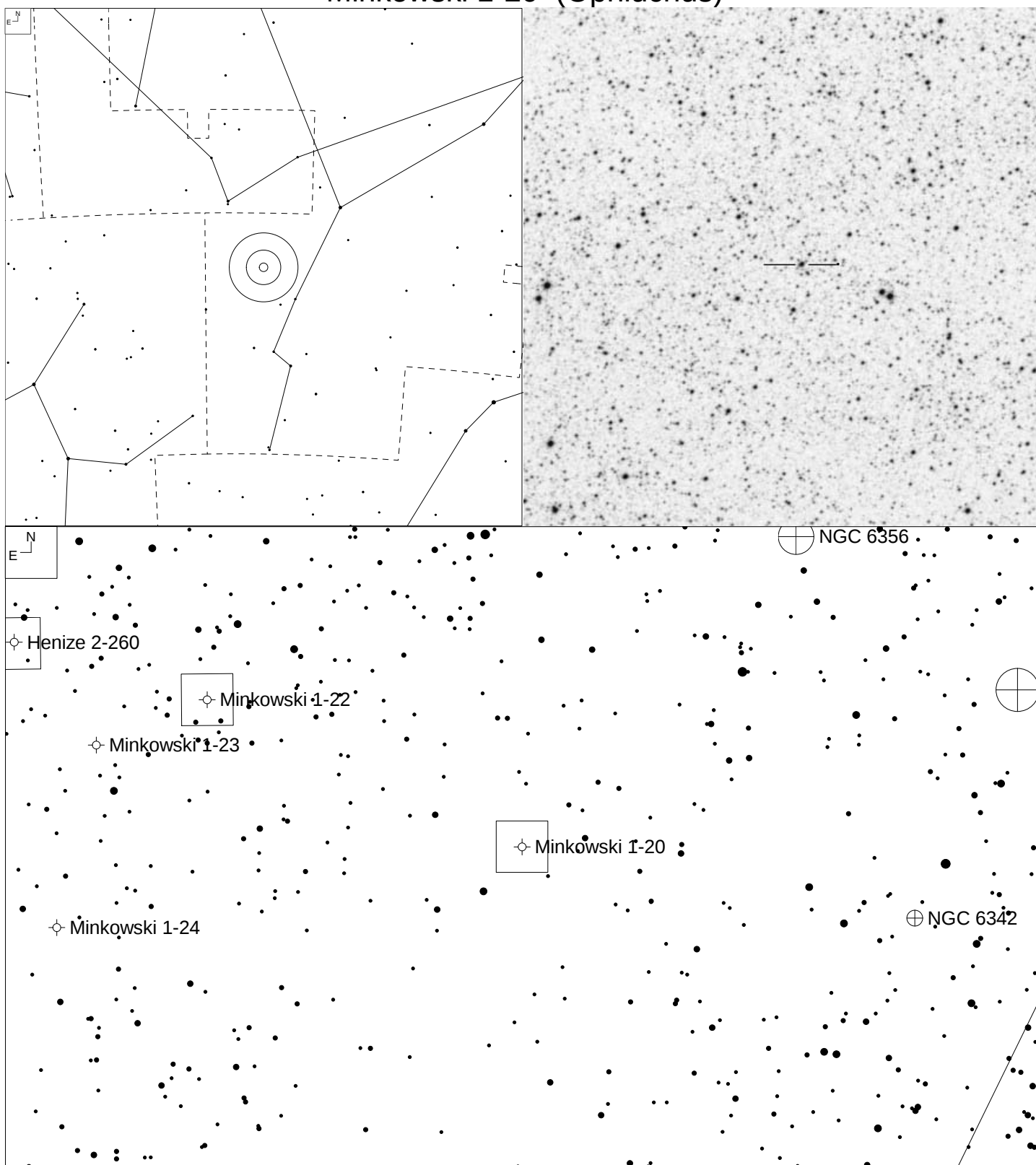
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 358+5.1	3+2	17 21 11.7	-27 11 37	15.2p 15.2v	-	21x15"

Minkowski 3-9 (Ophiuchus)



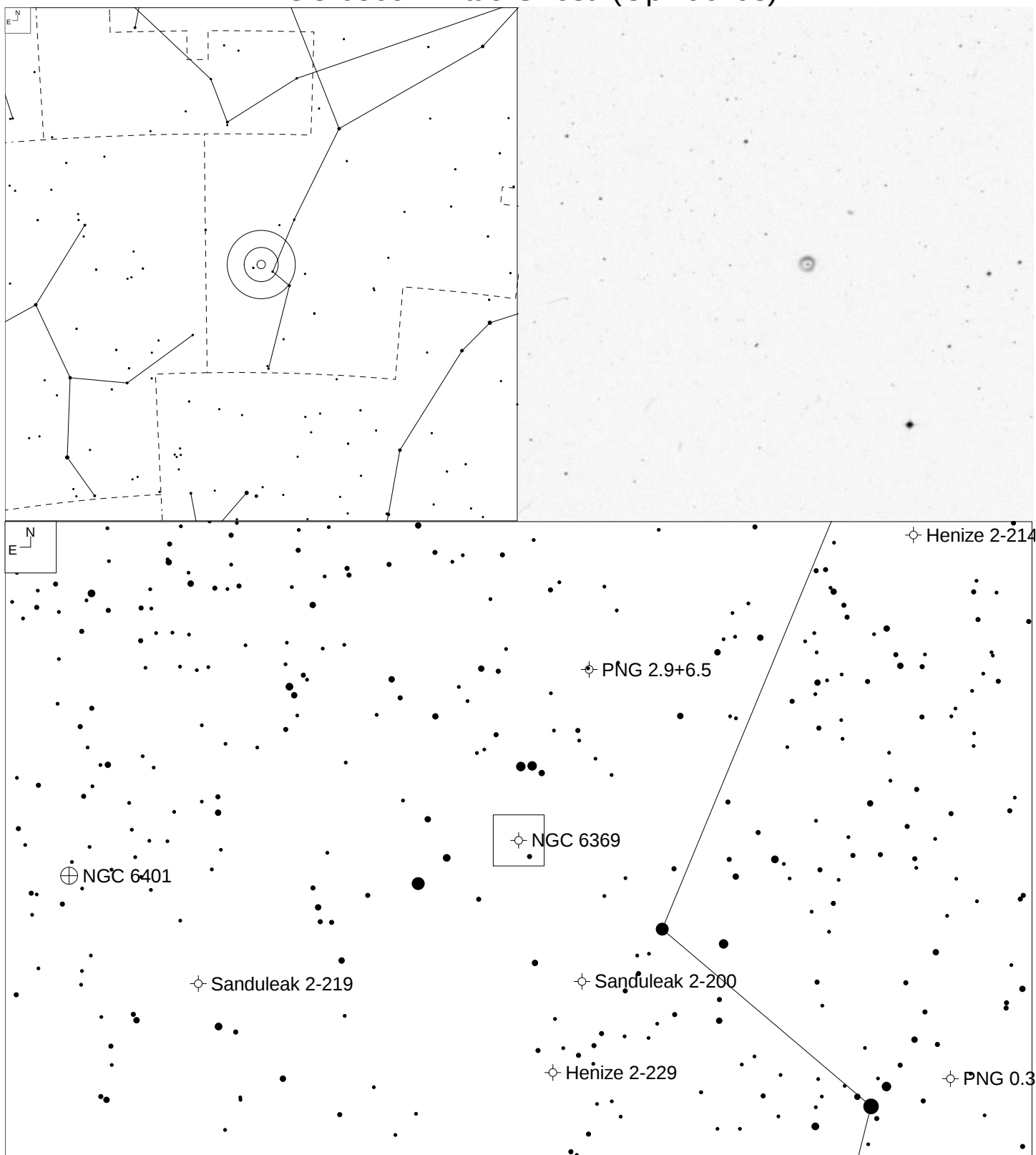
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 359+5.2	3	17 25 43.4	-26 11 56	15.0p 15.v	18.8	17"

Minkowski 1-20 (Ophiuchus)



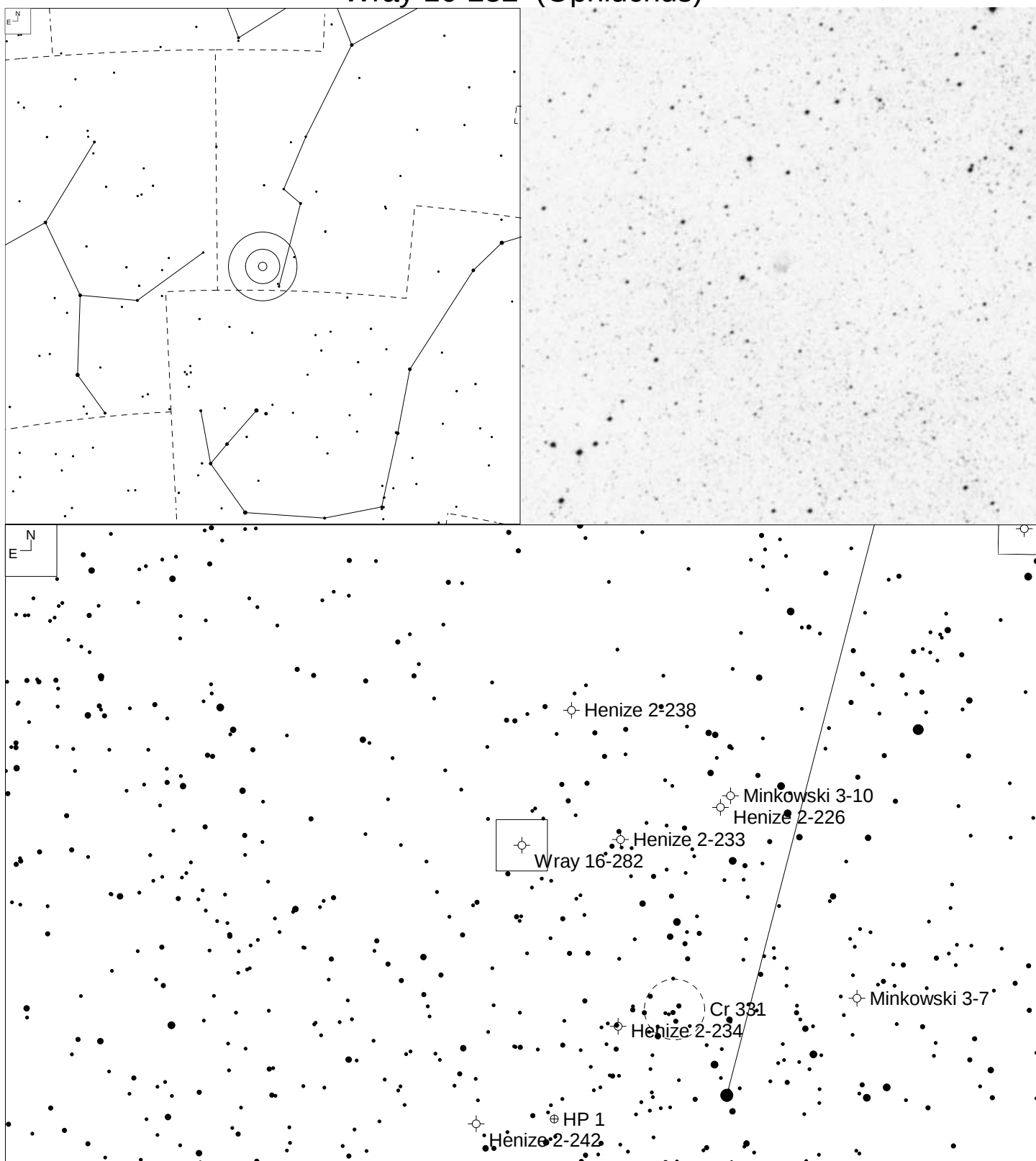
Other ID	Type	RA	Dec	Mag	* Mag	Size
Henize 2-235	1	17 28 57.7	-19 15 53	13.4p	17.1	7"
PK 6+8.1						

NGC 6369 – Little Ghost (Ophiuchus)



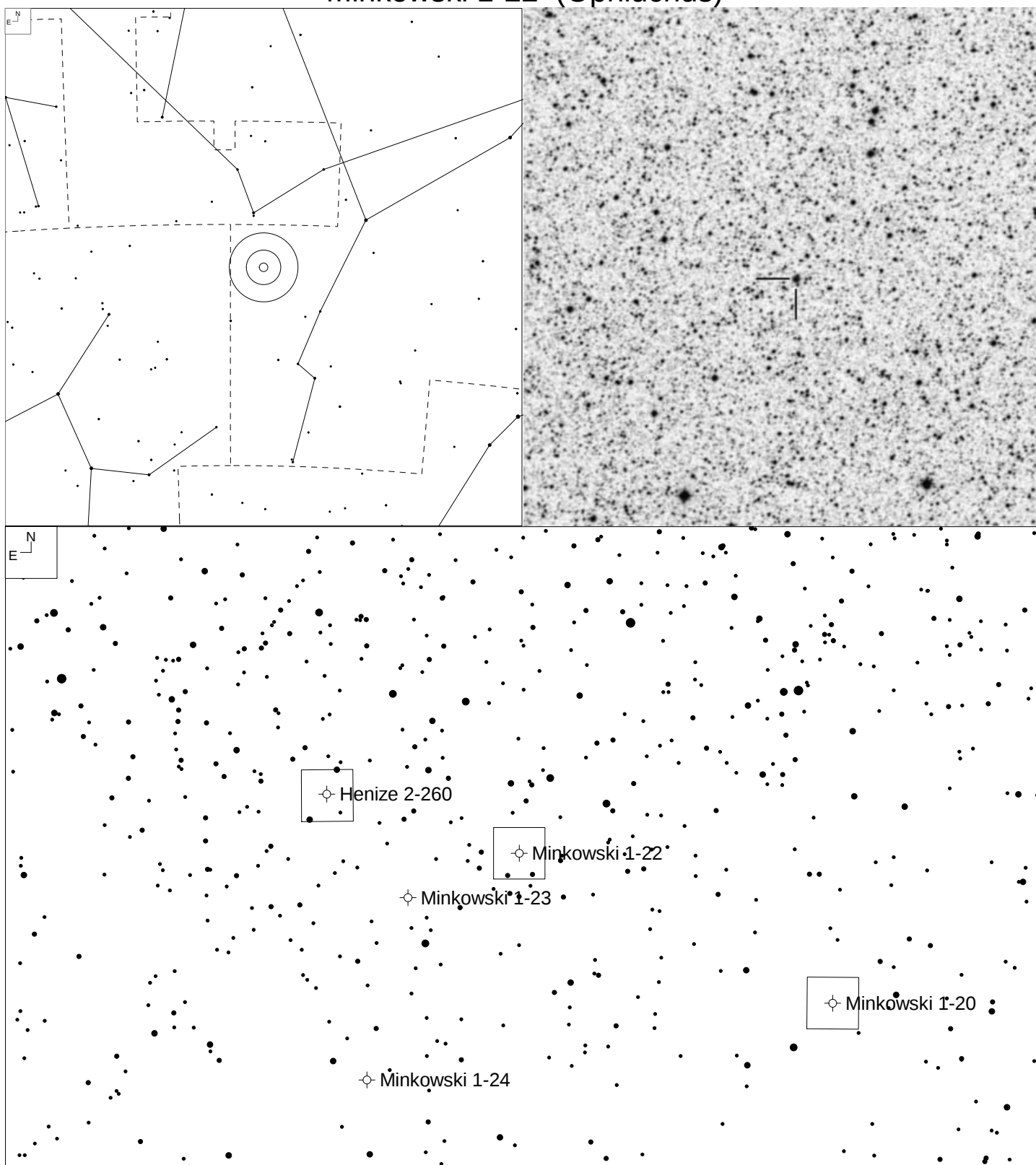
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 2+5.1	4+2	17 29 20.5	-23 45 34	12.9p 11.4v	15.9	38"

Wray 16-282 (Ophiuchus)



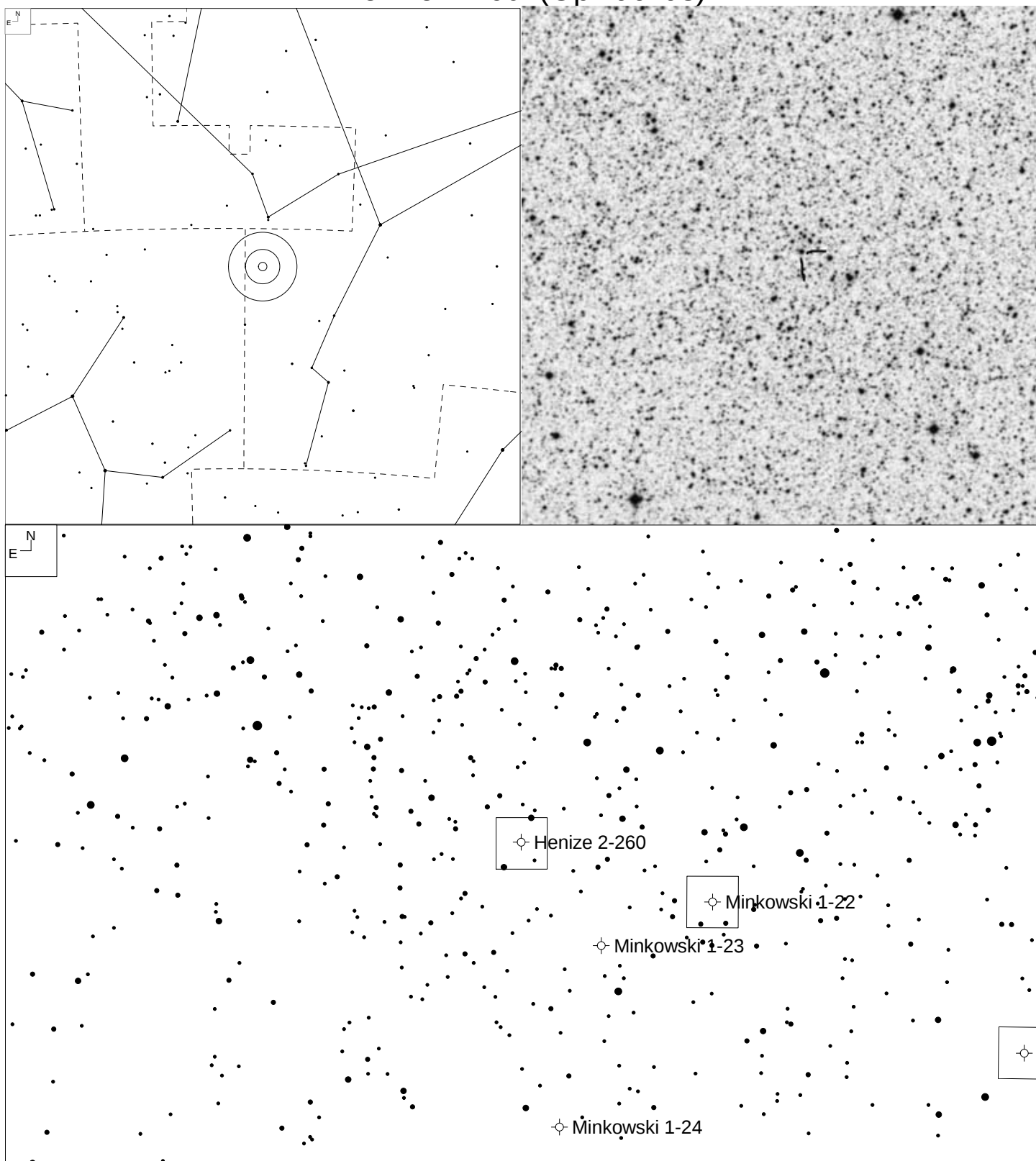
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 358+2.5	3	17 31 47.3	-28 42 04	14.9p	-	37"

Minkowski 1-22 (Ophiuchus)



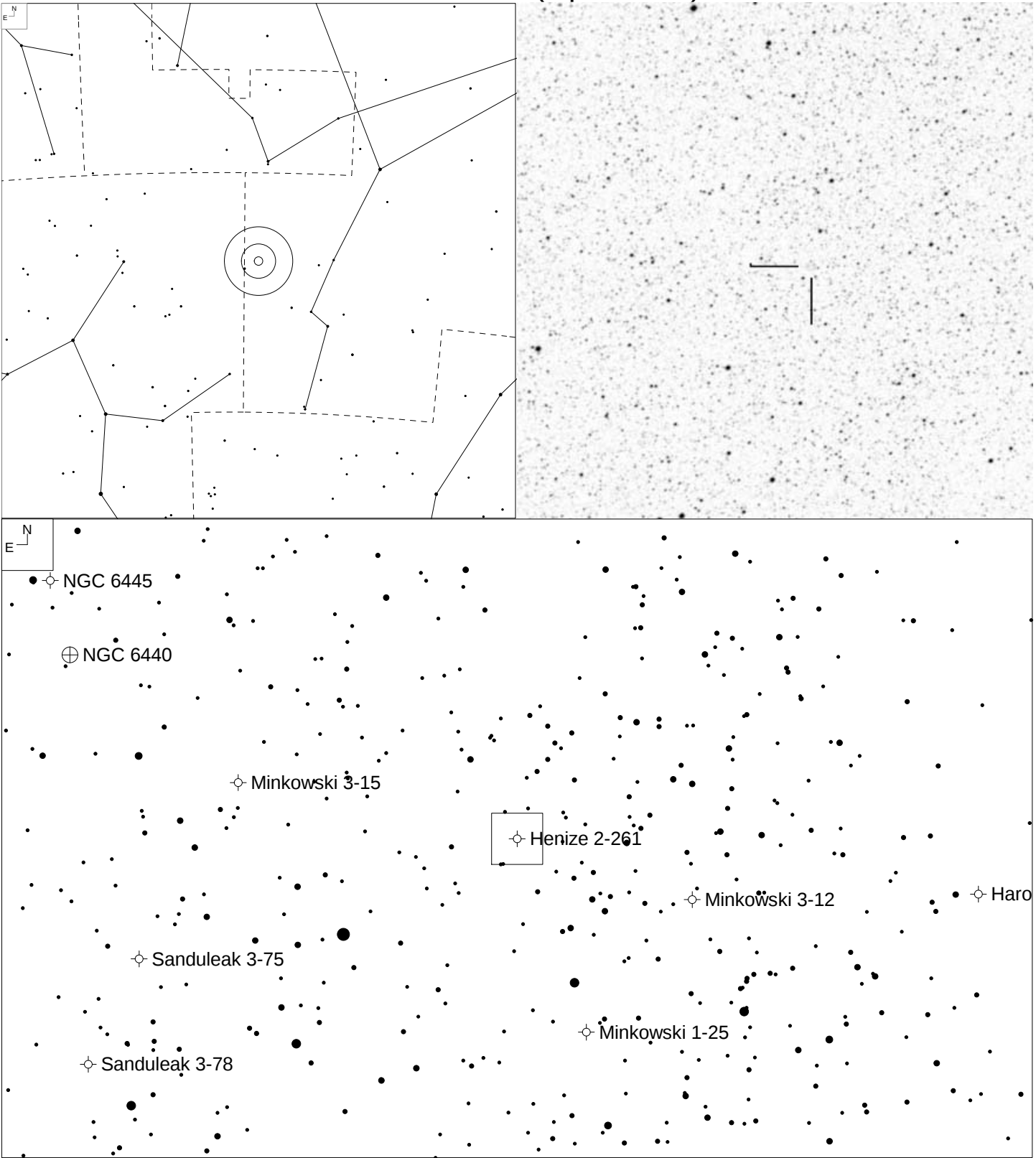
Other ID	Type	RA	Dec	Mag	* Mag	Size
Henize 2-252 PK 7+7.1	4	17 35 10.1	-18 34 20	13.3p	-	9"

Henize 2-260 (Ophiuchus)



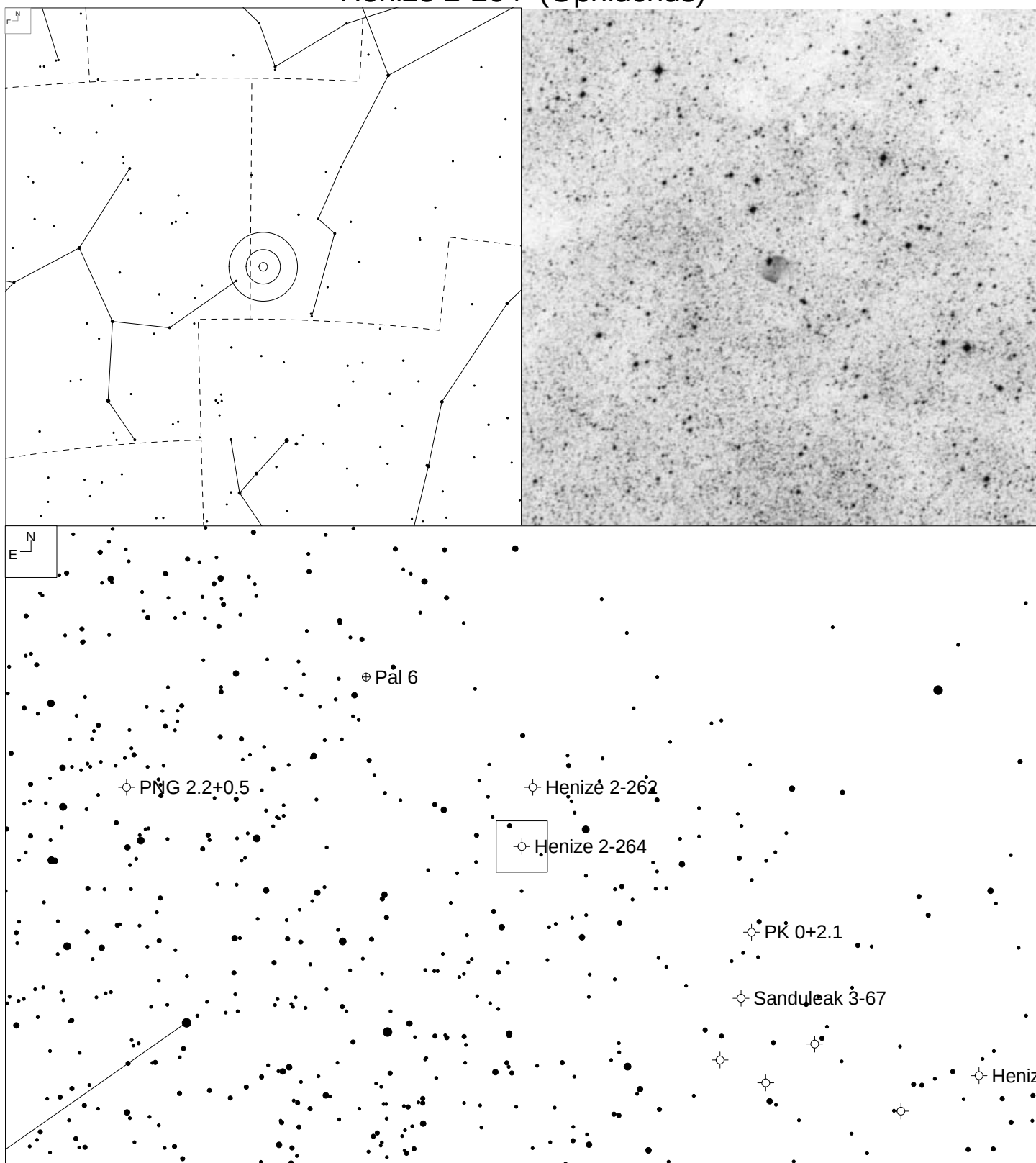
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 8+6.1	-	17 38 57.4	-18 17 35	11.0v	14.2	10"

Henize 2-261 (Ophiuchus)



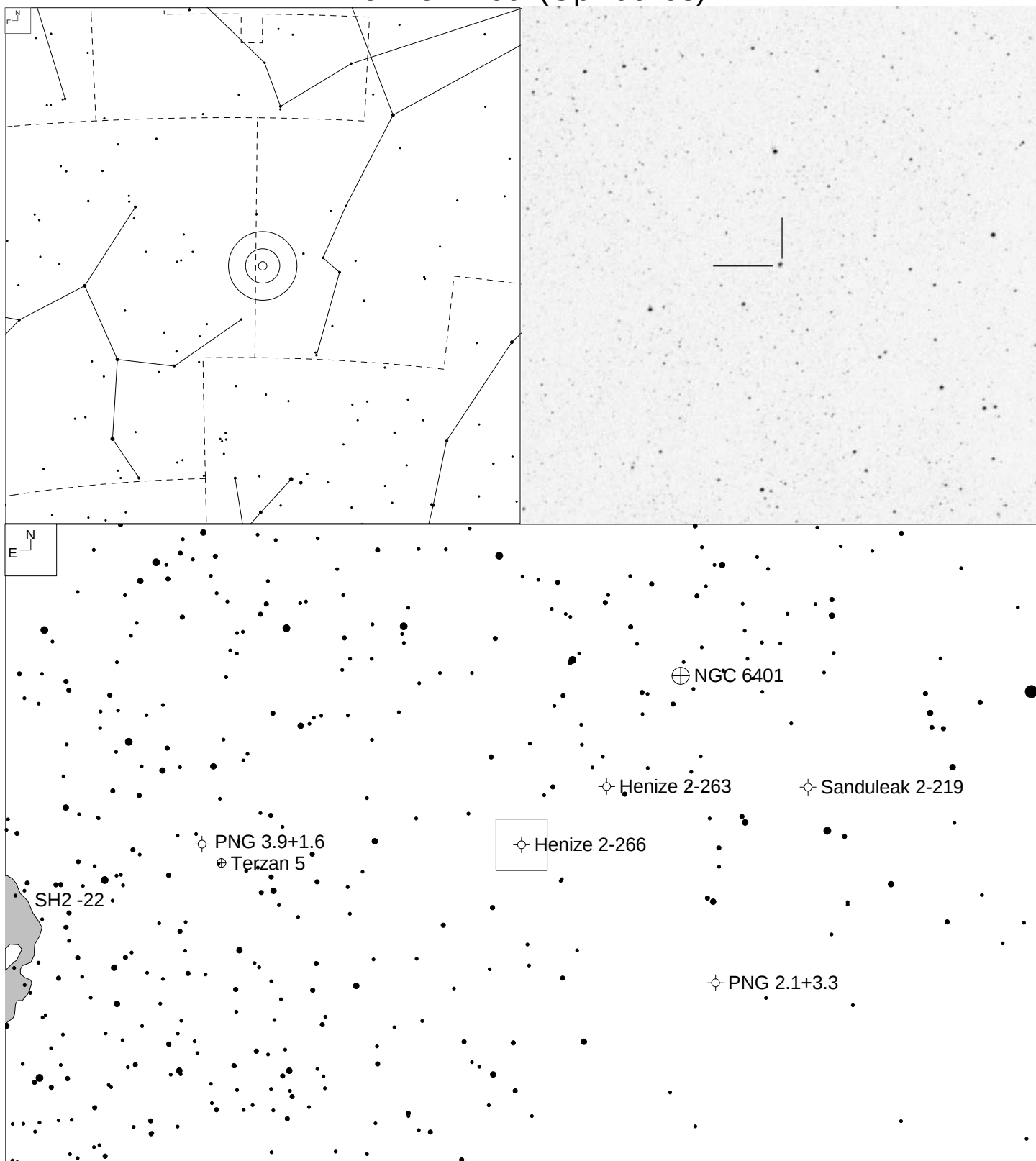
Other ID	Type	RA	Dec	Mag	* Mag	Size
Sanduleak 2-226 PK 5+5.2	3	17 39 54.8	-21 14 14	15.3p	-	17"

Henize 2-264 (Ophiuchus)



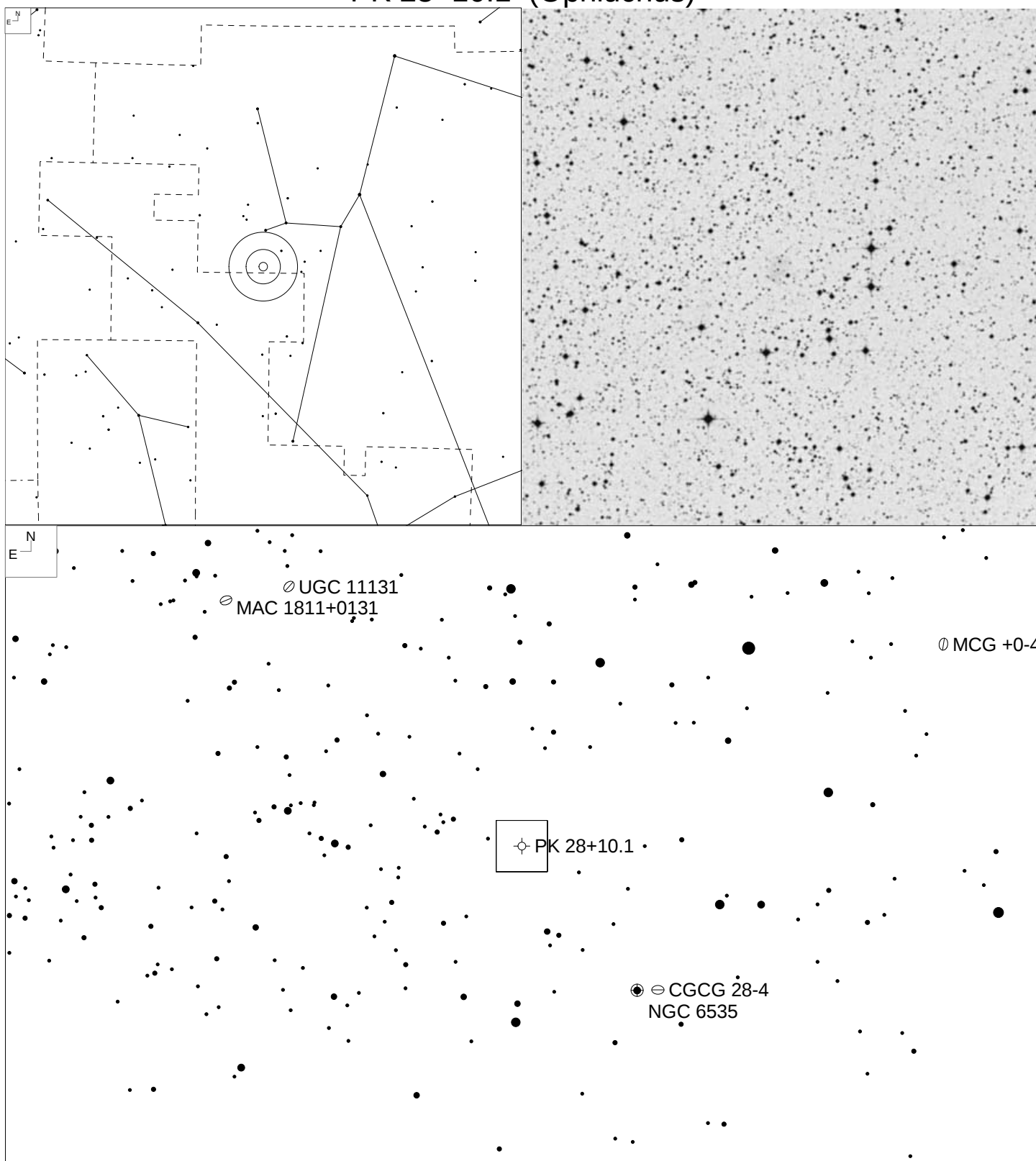
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 1+1.1	3	17 40 26.8	-27 01 03	-	20.3	37"

Henize 2-266 (Ophiuchus)



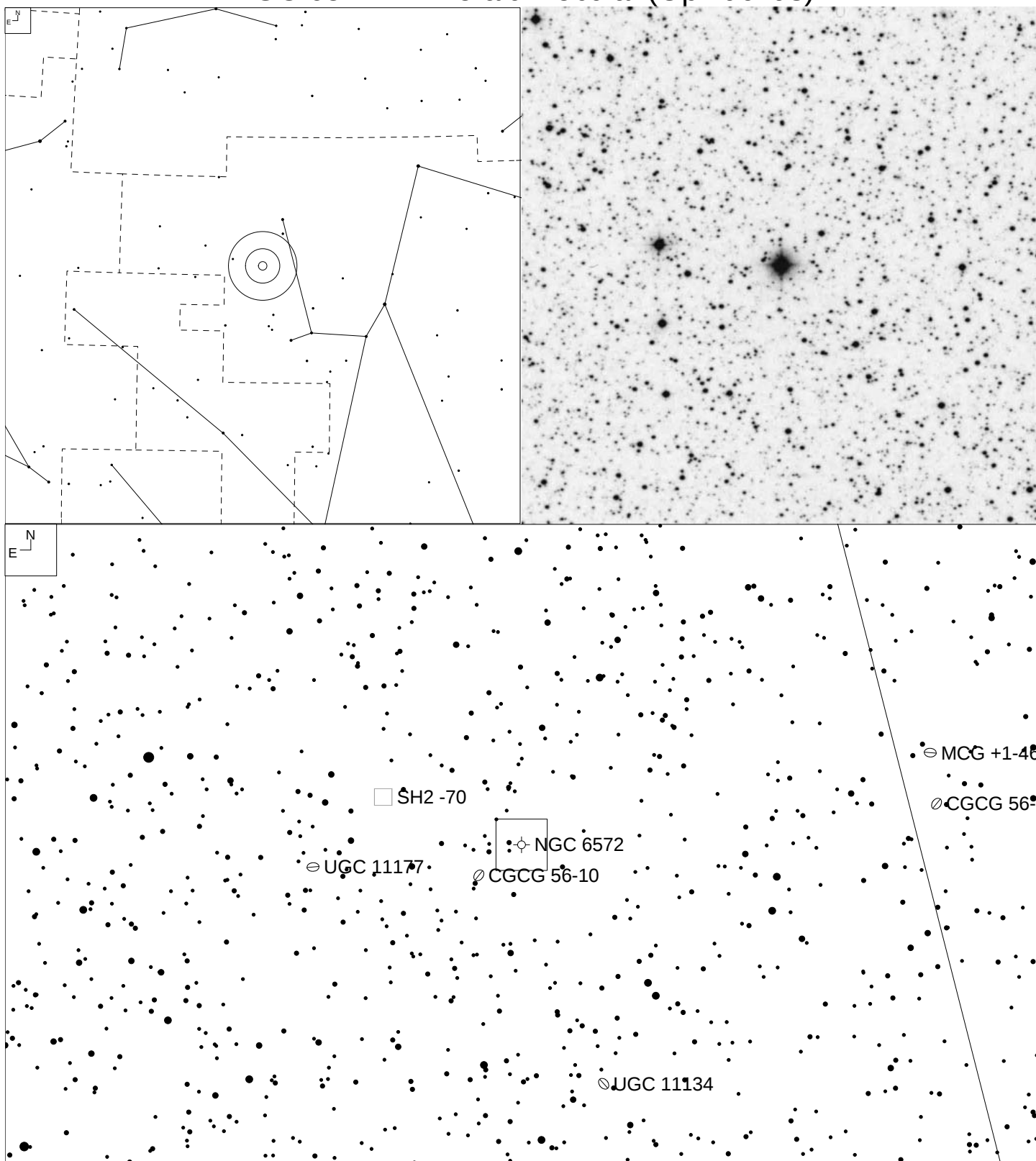
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 3+2.1	3b	17 41 52.8	-24 42 08	13.1p	17.0	6"
Sanduleak 2-228				13.0v		

PK 28+10.1 (Ophiuchus)



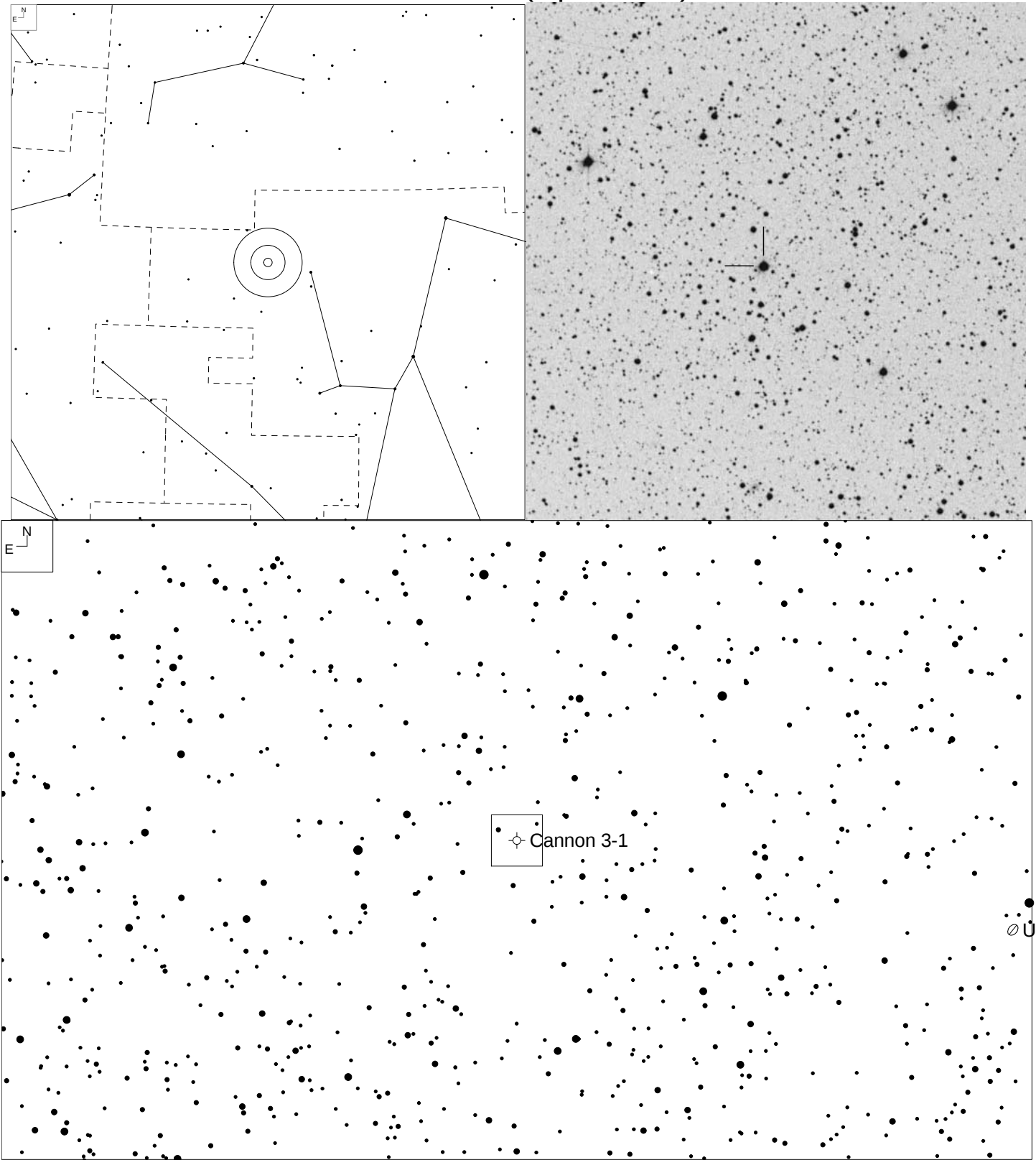
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	18 06 00.5	+00 22 42	16.8p	16.8	36"

NGC 6572 – Emerald Nebula (Ophiuchus)



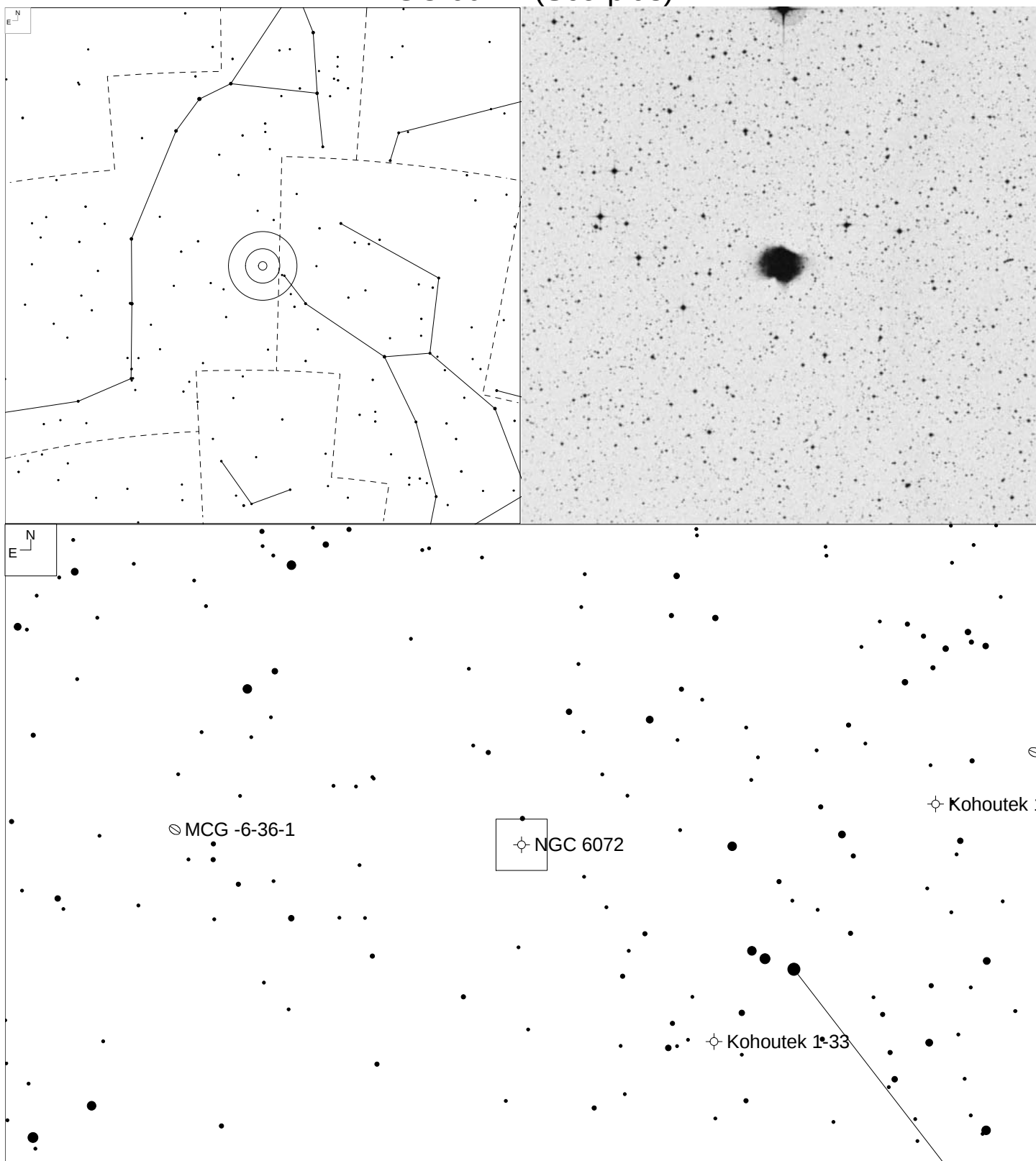
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 34+11.1	2a	18 12 06.4	+06 51 11	9.0p 8.1v	13.1	14x9"

Cannon 3-1 (Ophiuchus)



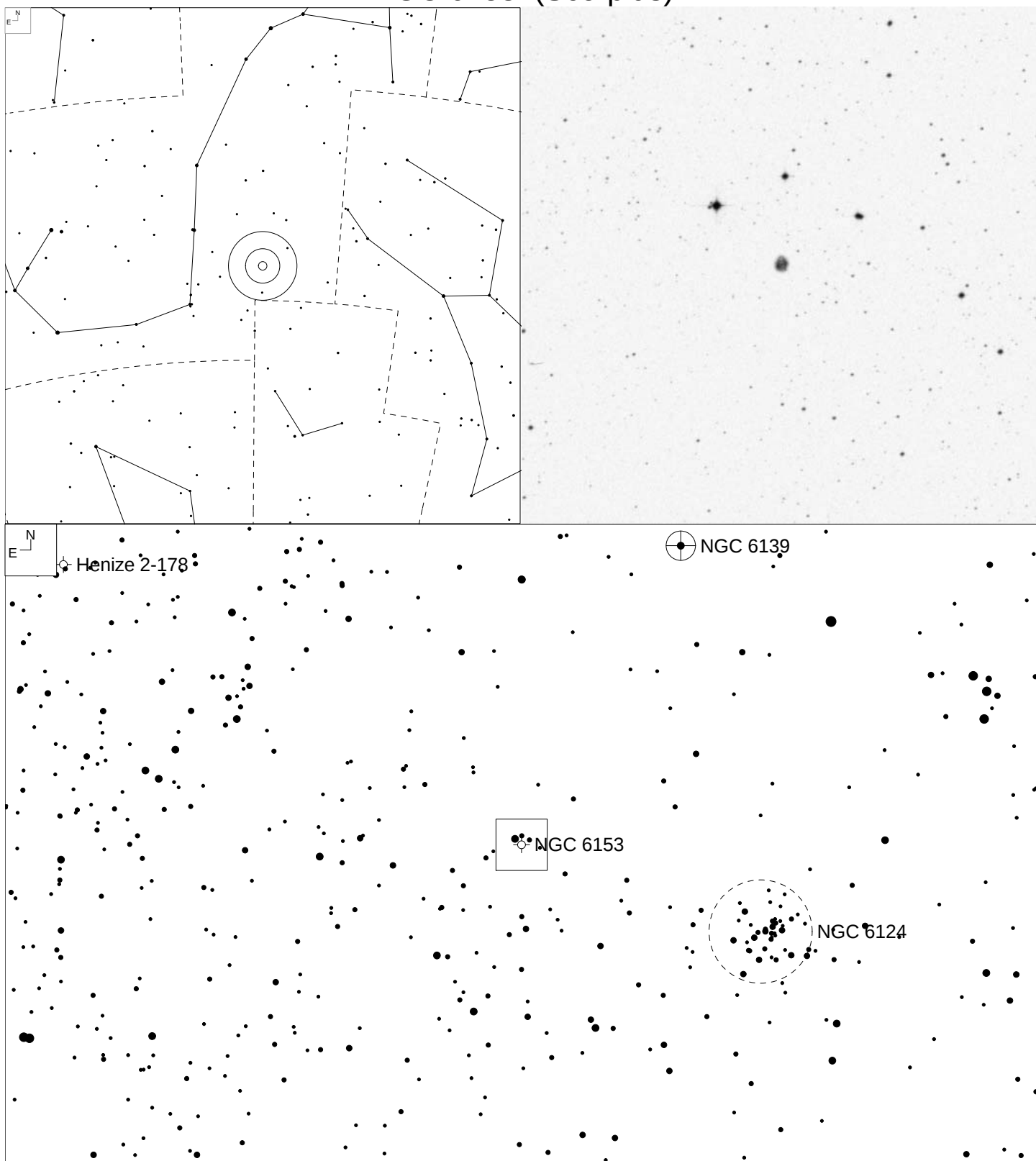
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 38+12.1	2	18 17 34.2	+10 09 01	12.4p	12.5	5"

NGC 6072 (Scorpius)



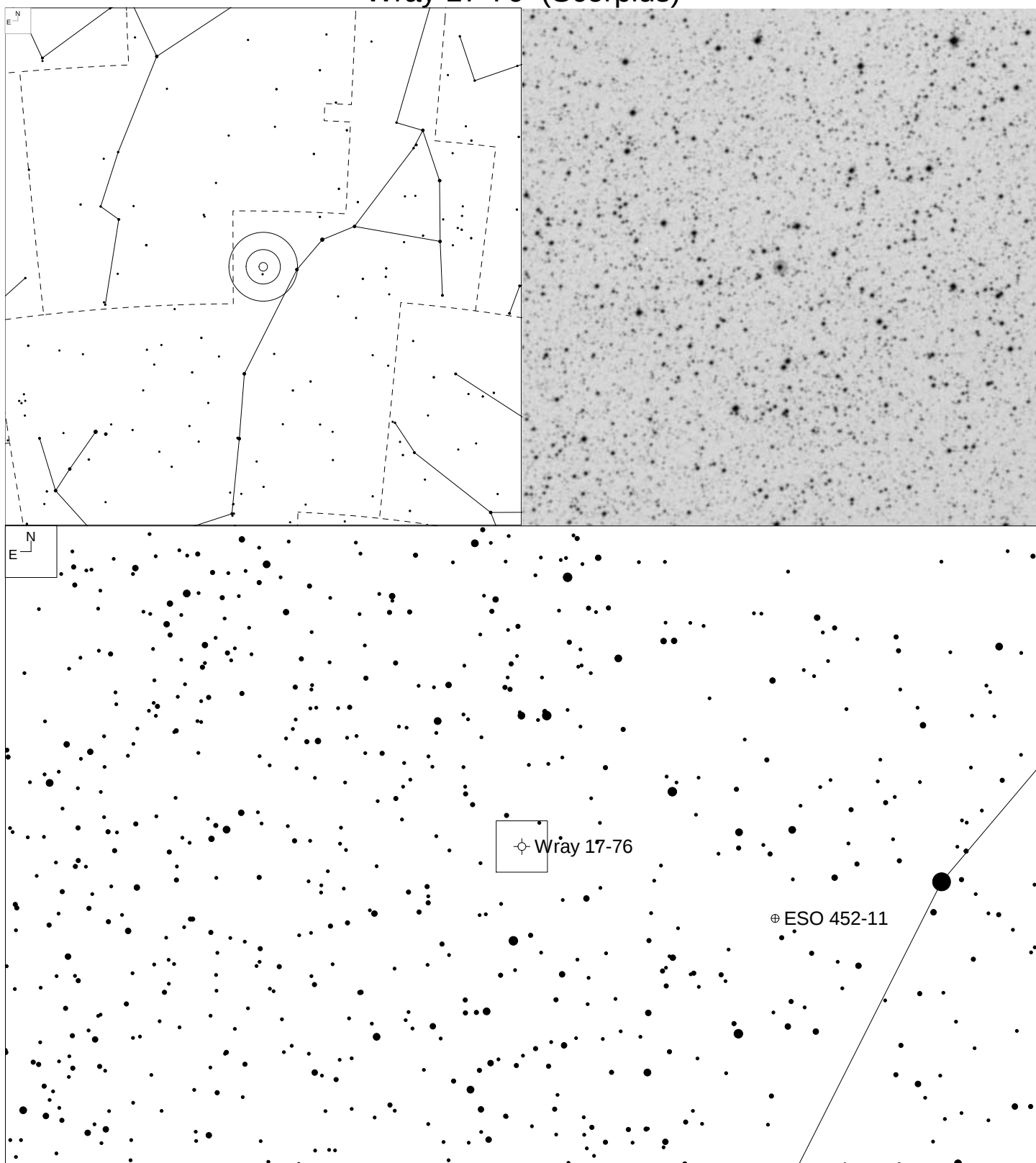
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 342-10.1	3a	16 12 58.3	-36 13 48	14.1p 11.7v	19.3	98 x 72"

NGC 6153 (Scorpius)



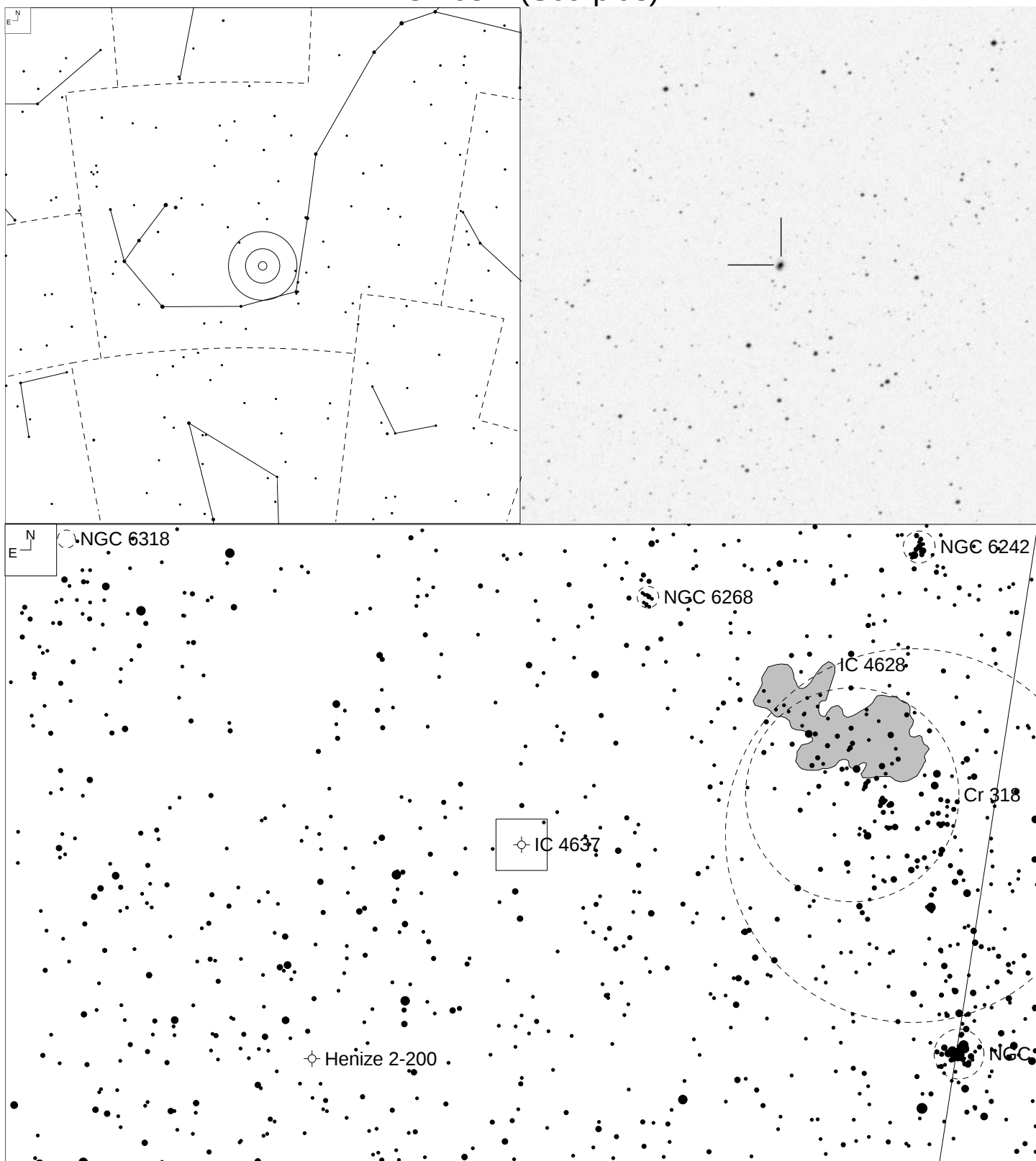
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 341+5.1	4	16 31 30.6	-40 15 12	11.5p 10.9v	16.1	25"

Wray 17-76 (Scorpius)



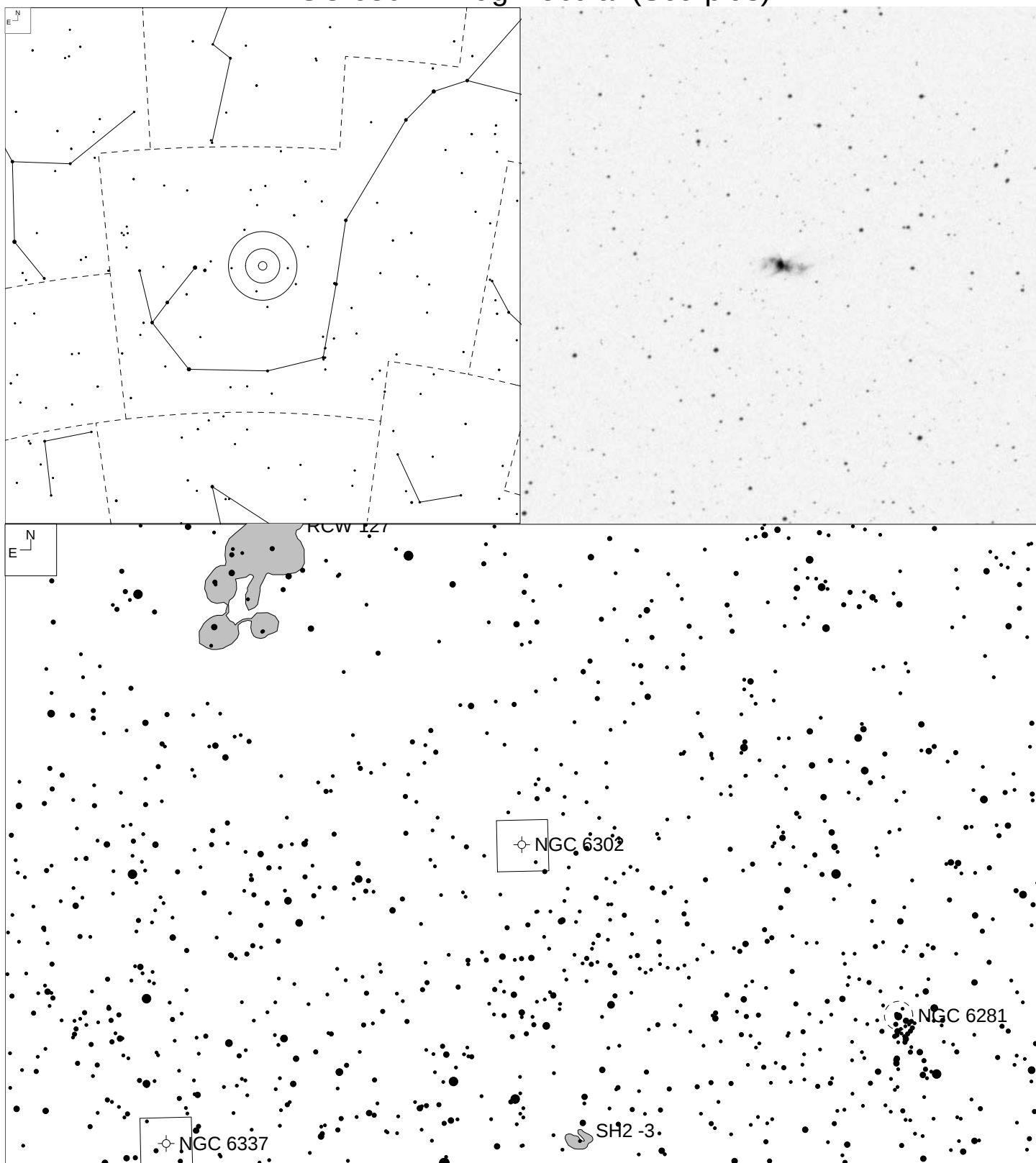
Other ID	Type	RA	Dec	Mag	* Mag	Size
Kohoutek 2-16 PK 352+11.2	-	16 44 49.1	-28 04 06	11.0IR	12.7	23"

IC 4637 (Scorpius)



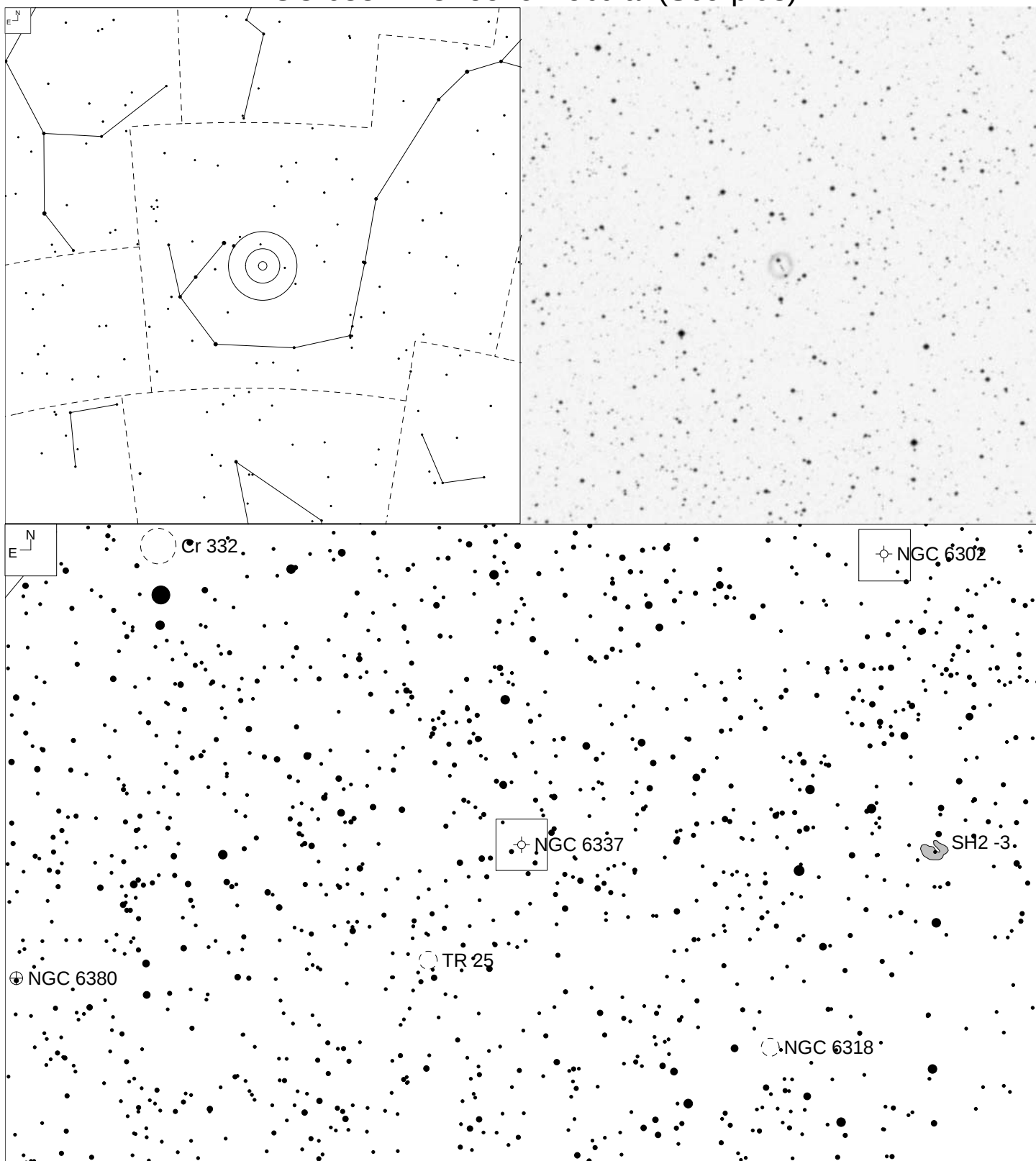
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 345+0.1	3	17 05 10.5	-40 53 09	13.6p 12.5v	12.47	21x17"

NGC 6302 – Bug Nebula (Scorpius)



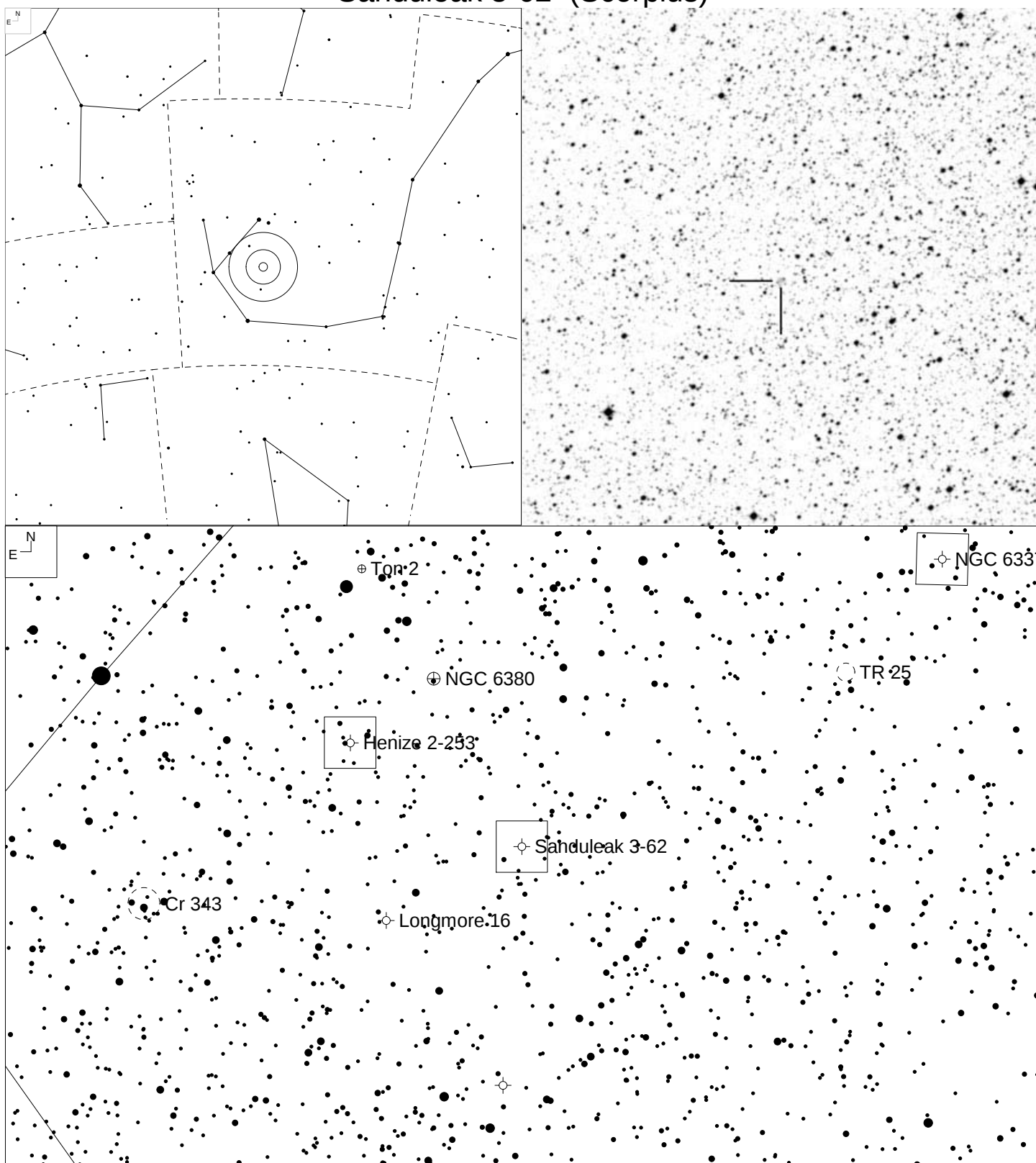
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 349+1.1	6	17 13 44.3	-37 06 13	12.8p 9.6v	16.0	83x24"

NGC 6337 – Cheerio Nebula (Scorpius)



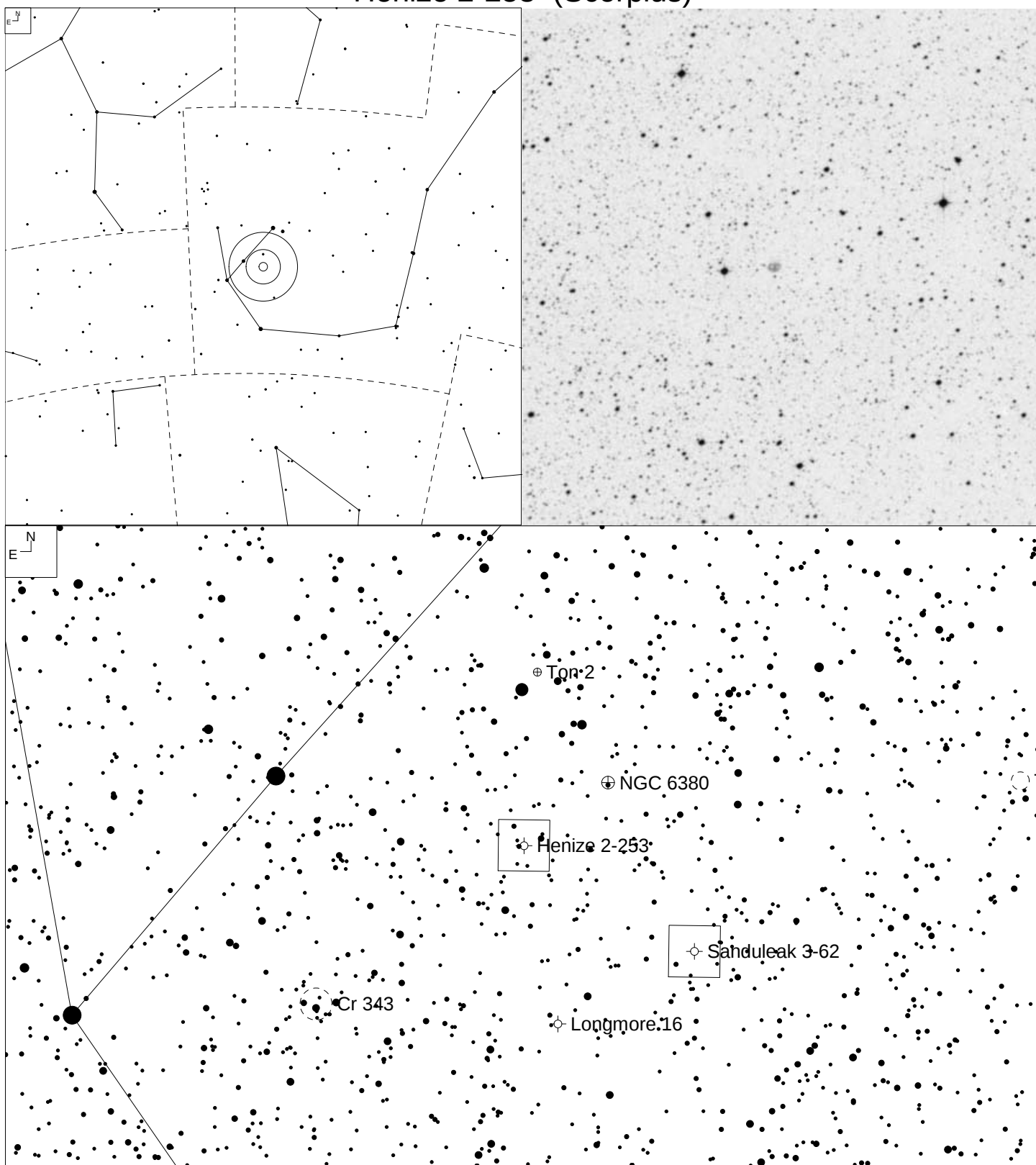
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 349-1.1	4	17 22 15.6	-38 29 02	11.9p 12.3v	14.90	40"

Sanduleak 3-62 (Scorpius)



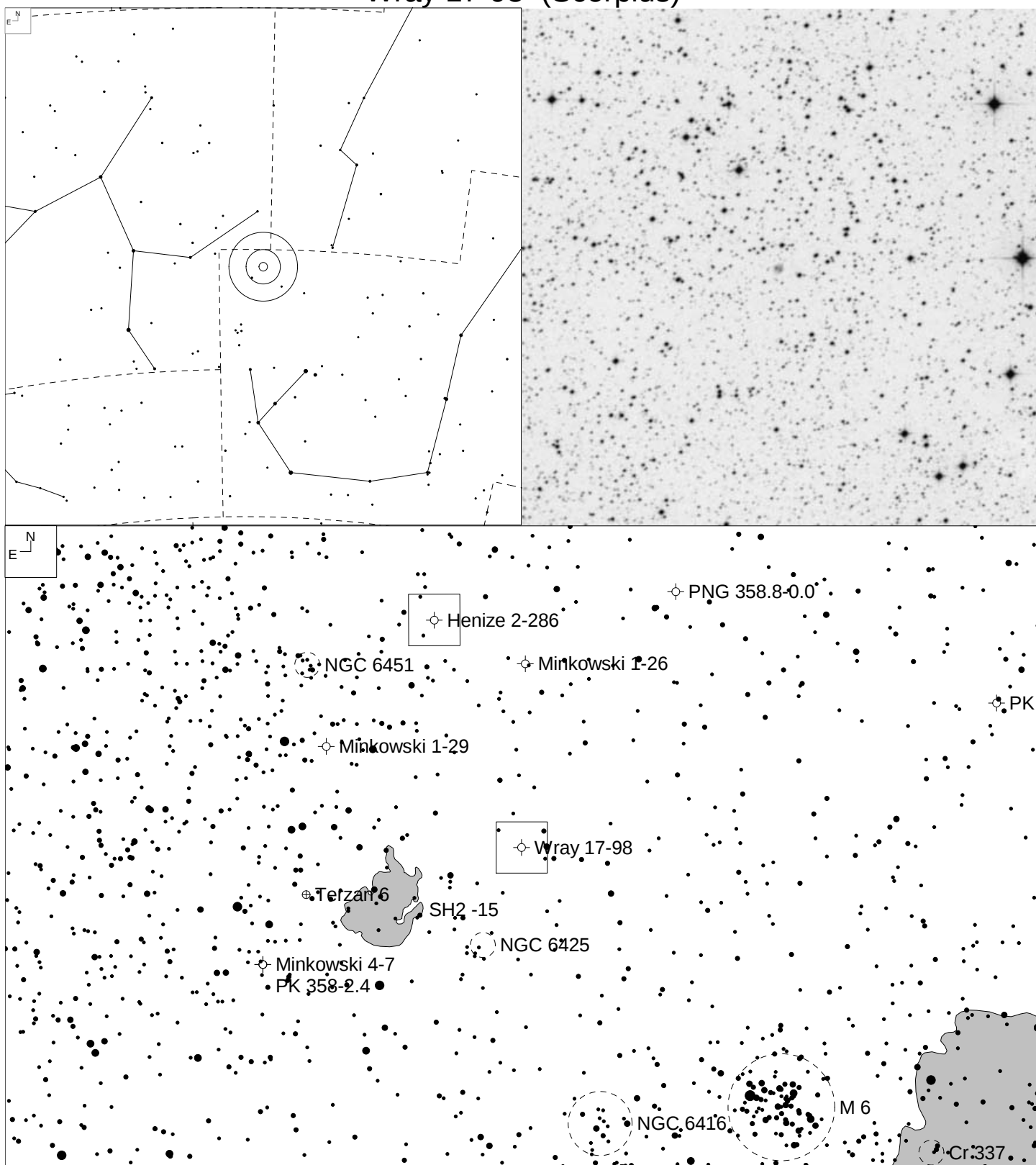
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 349-3.1	-	17 32 20.0	-39 51 23	15.8p	-	20"

Henize 2-253 (Scorpius)



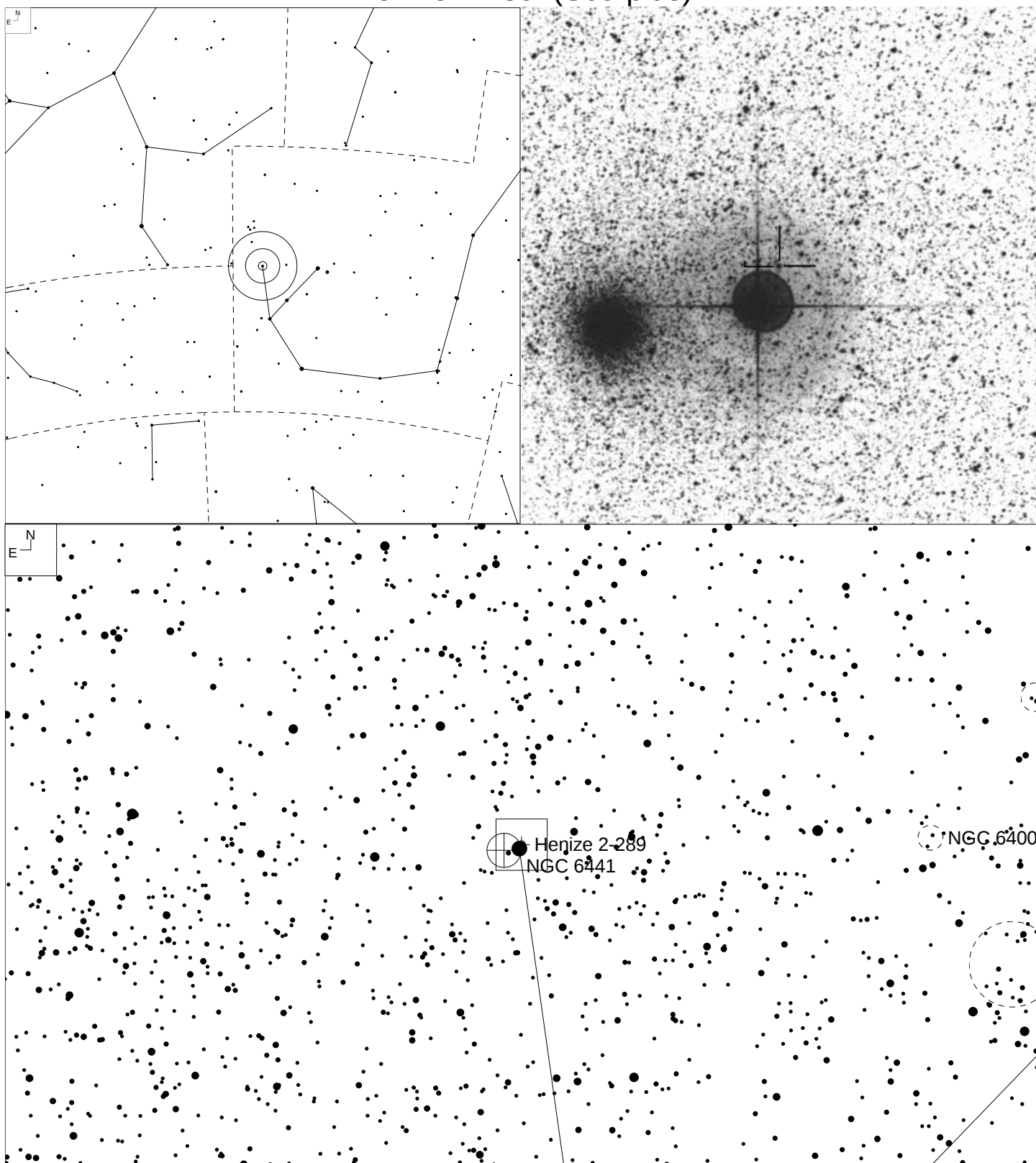
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 350-3.1	4	17 36 29.8	-39 21 57	14.4p	-	18"

Wray 17-98 (Scorpius)



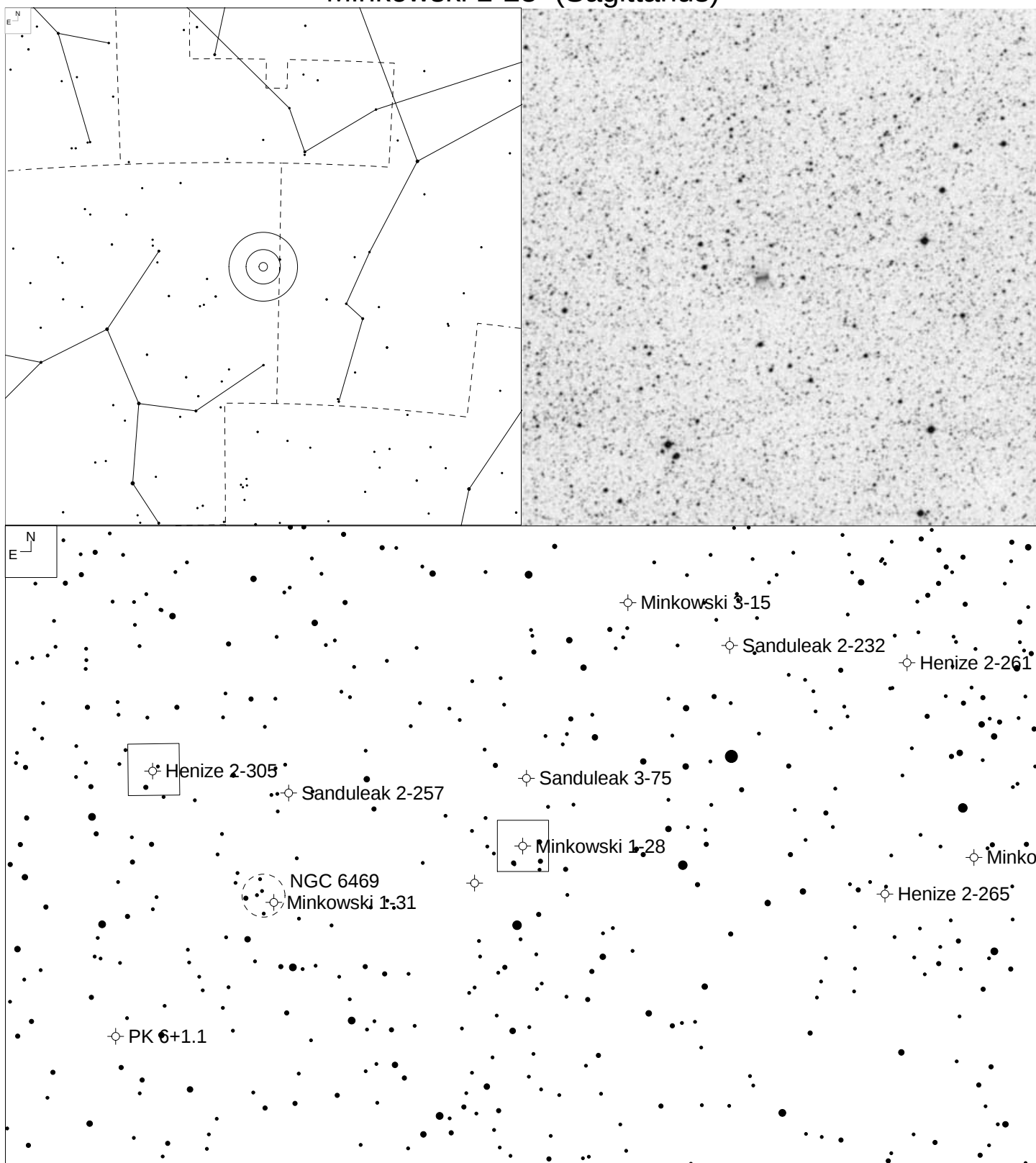
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 358-1.1	3+2	17 46 02.5	-31 03 36	-	-	13"

Henize 2-289 (Scorpius)



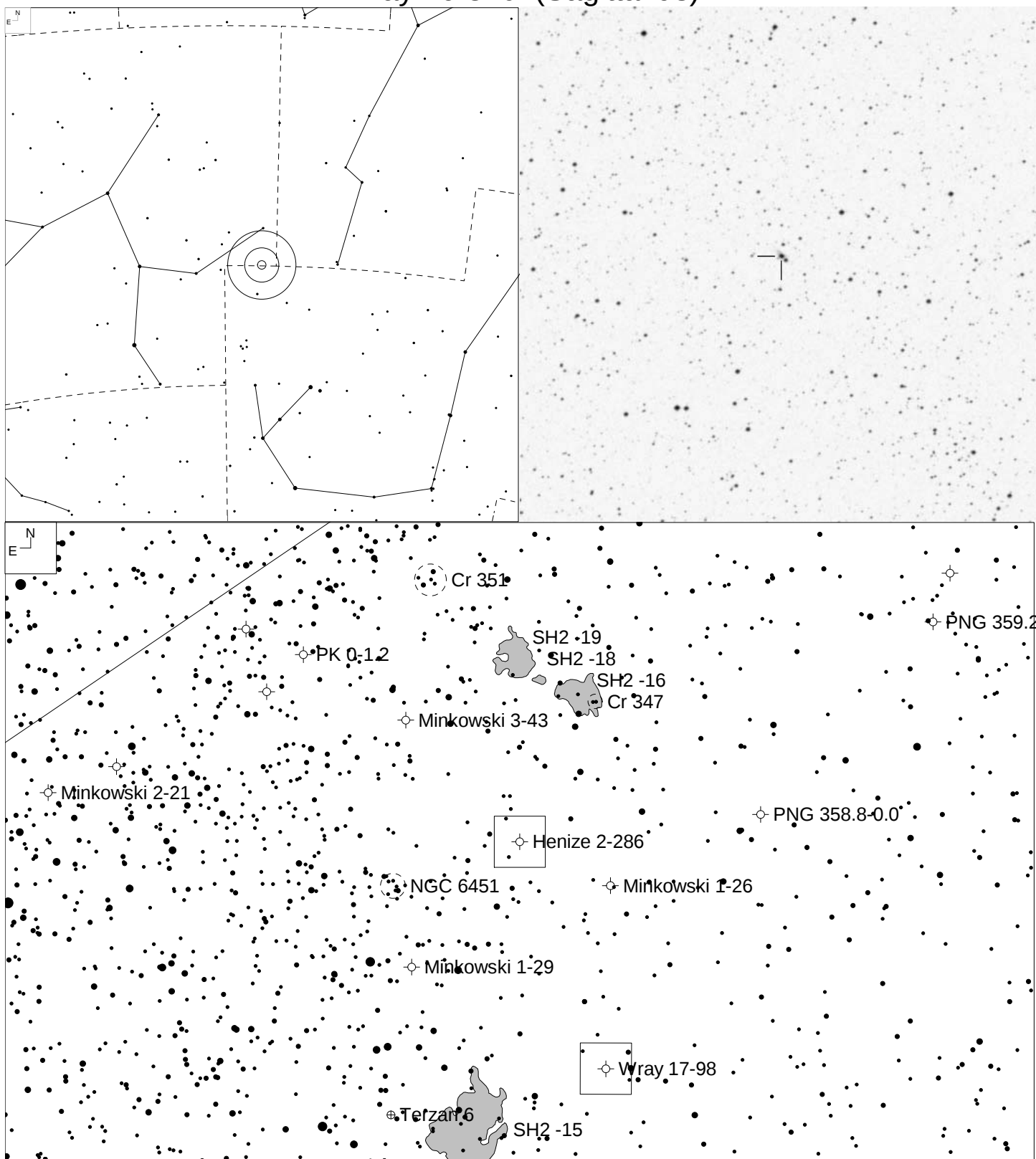
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 353.5-4.9	-	17 49 48.2	-37 01 28	12.0p	16.8	10"

Minkowski 1-28 (Sagittarius)



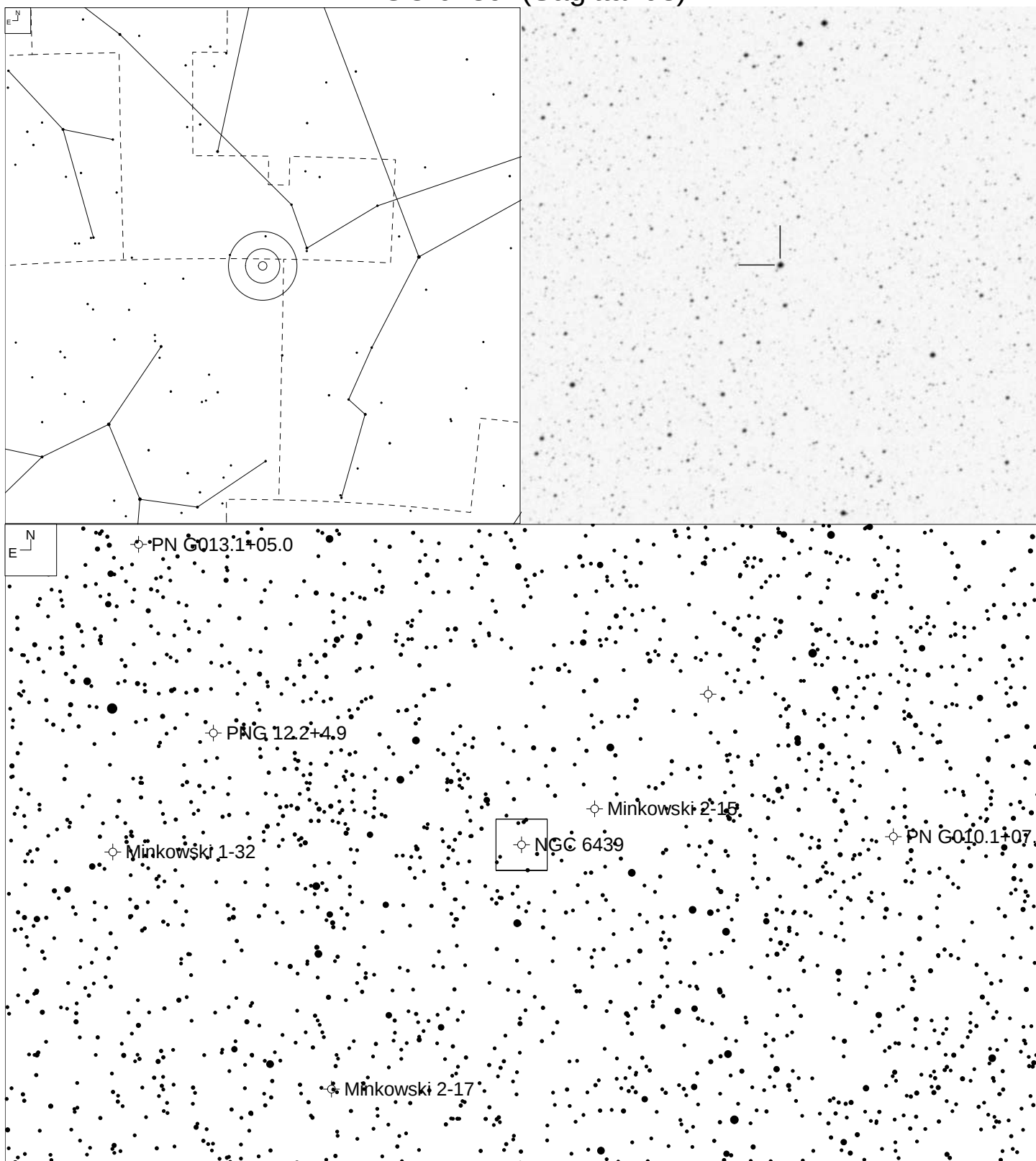
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 6+3.2	3+6	17 47 38.4	-22 06 20	16.8p	20.8	15"

Wray 16-310 (Sagittarius)



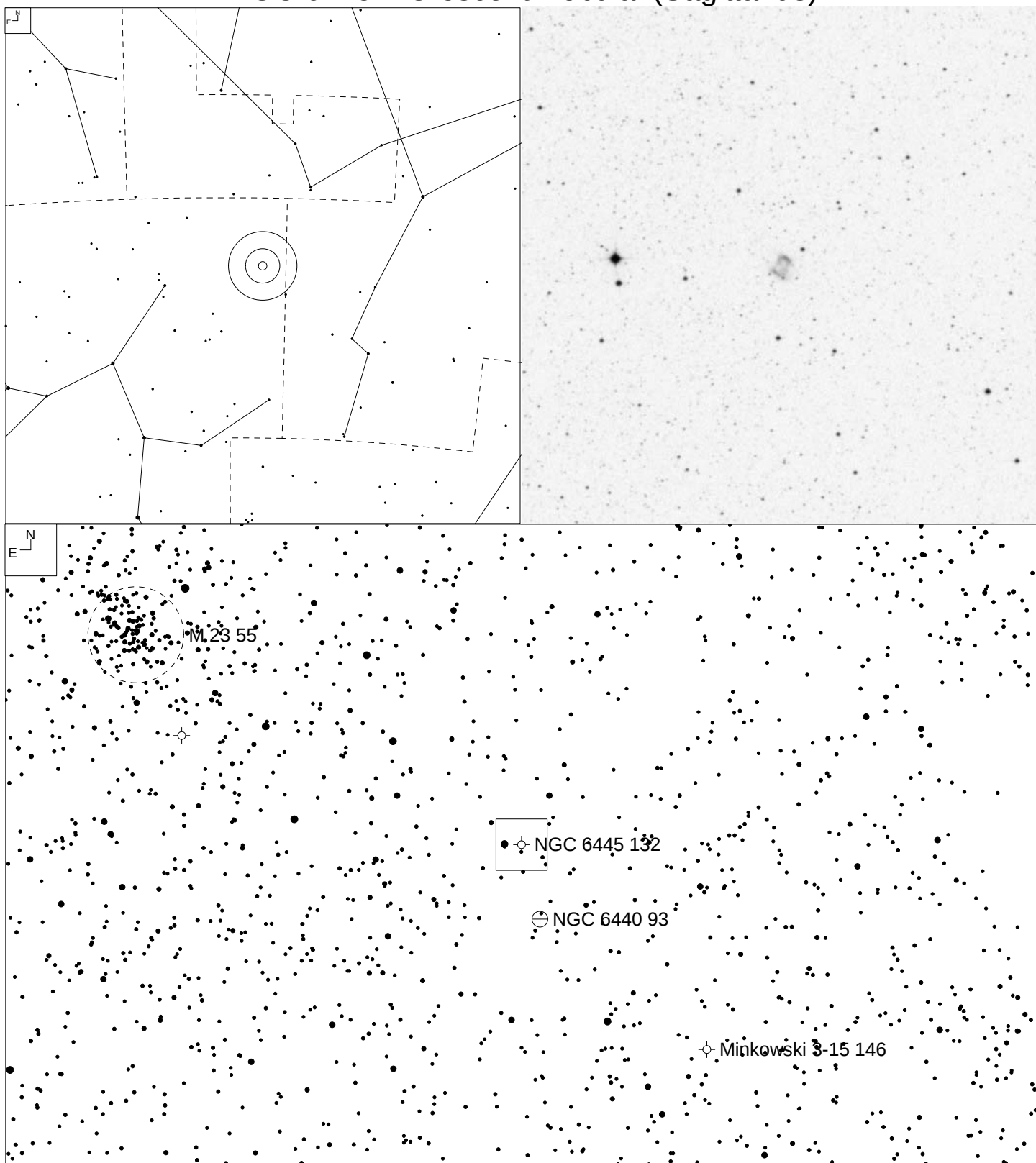
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 359-0.1	2+6	17 47 56.2	-29 59 40	13.6p	18.6	3"
Henize 2-286				11.8v		

NGC 6439 (Sagittarius)



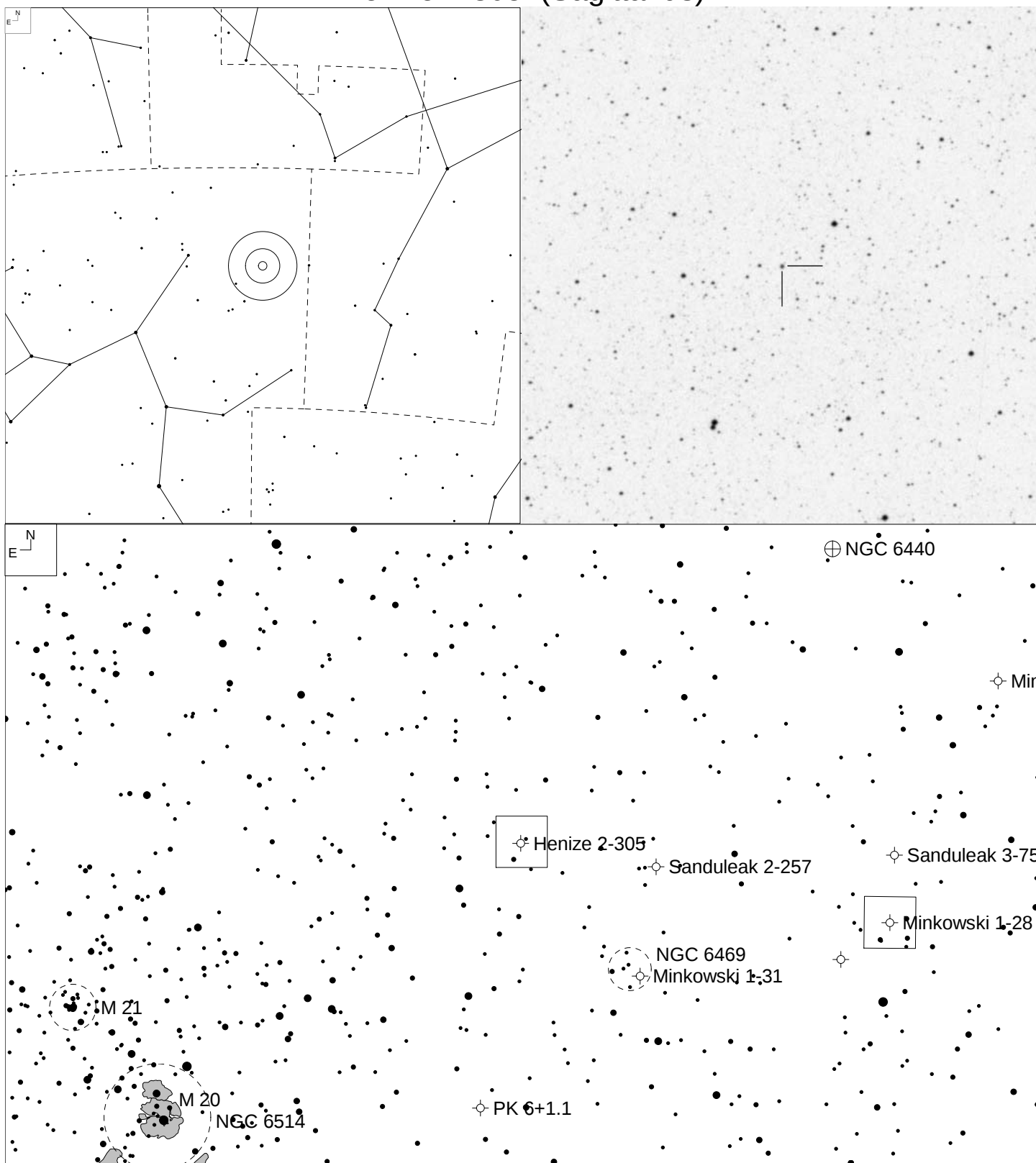
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 11+5.1	2a	17 48 20.3	-16 27 35	13.8p 12.6v	20.2	5"

NGC 6445 – Crescent Nebula (Sagittarius)



Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 8-3.1	3b+3	17 49 14.9	-20 00 36	13.2p 11.2v	19.0	38x29"

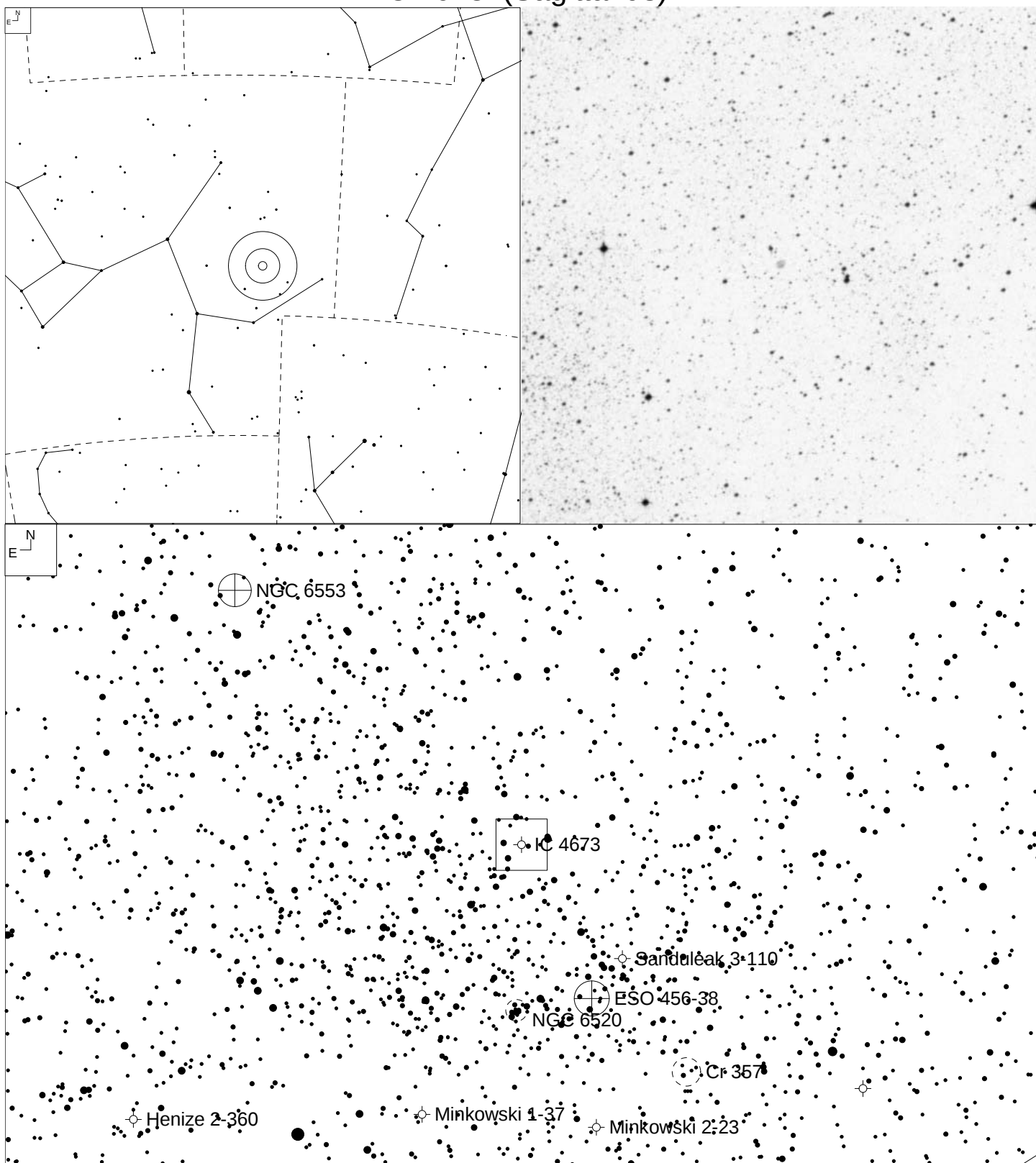
Henize 2-305 (Sagittarius)



Other ID	Type	RA	Dec	Mag	* Mag	Size
IC 4670	2	17 55 07.0	-21 44 40	13.1p	14.72	5"
PK 7+1.1				12.0v	Var	
Hubble 6						

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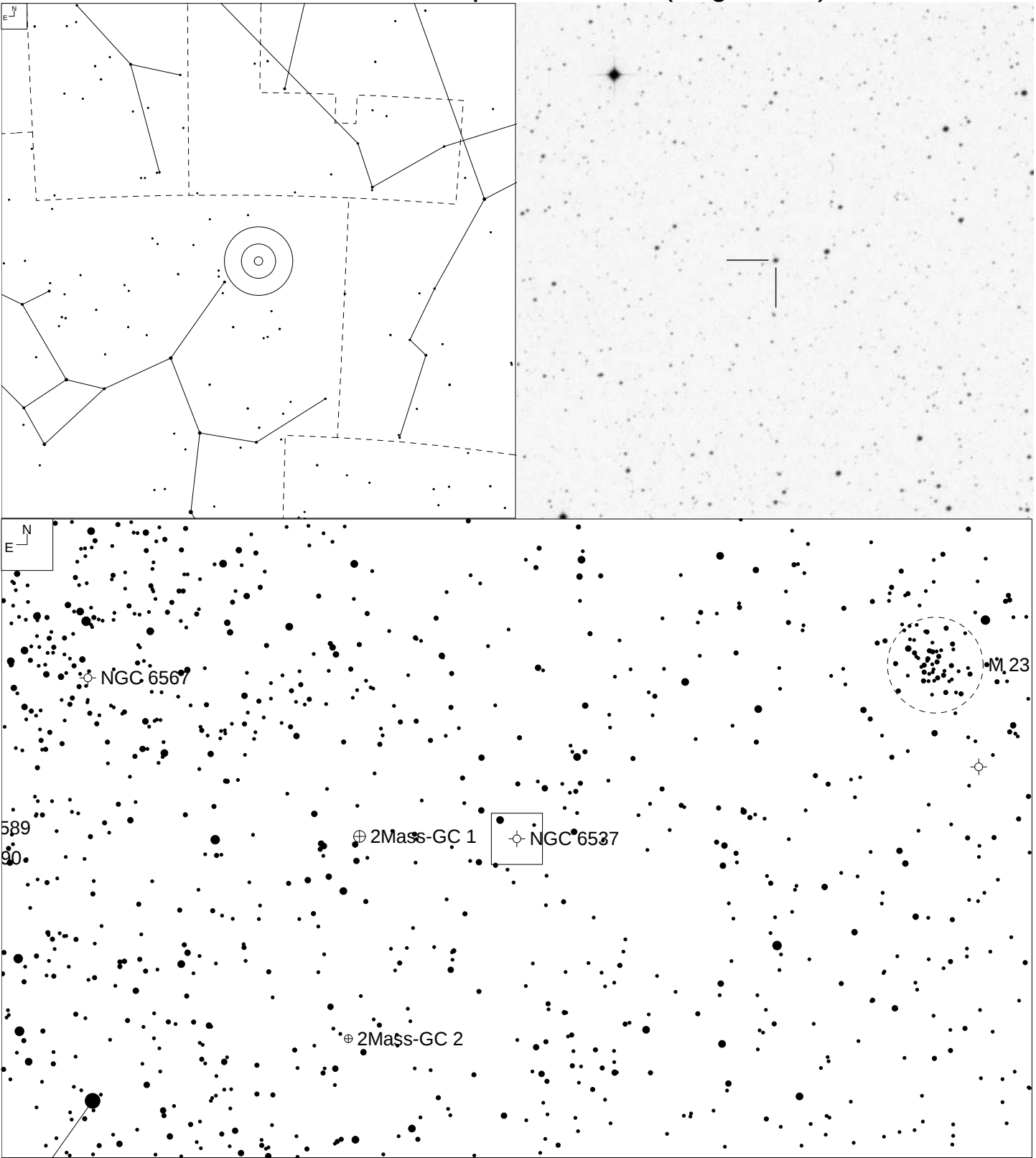
IC 4673 (Sagittarius)



Note: star LM = 12.0

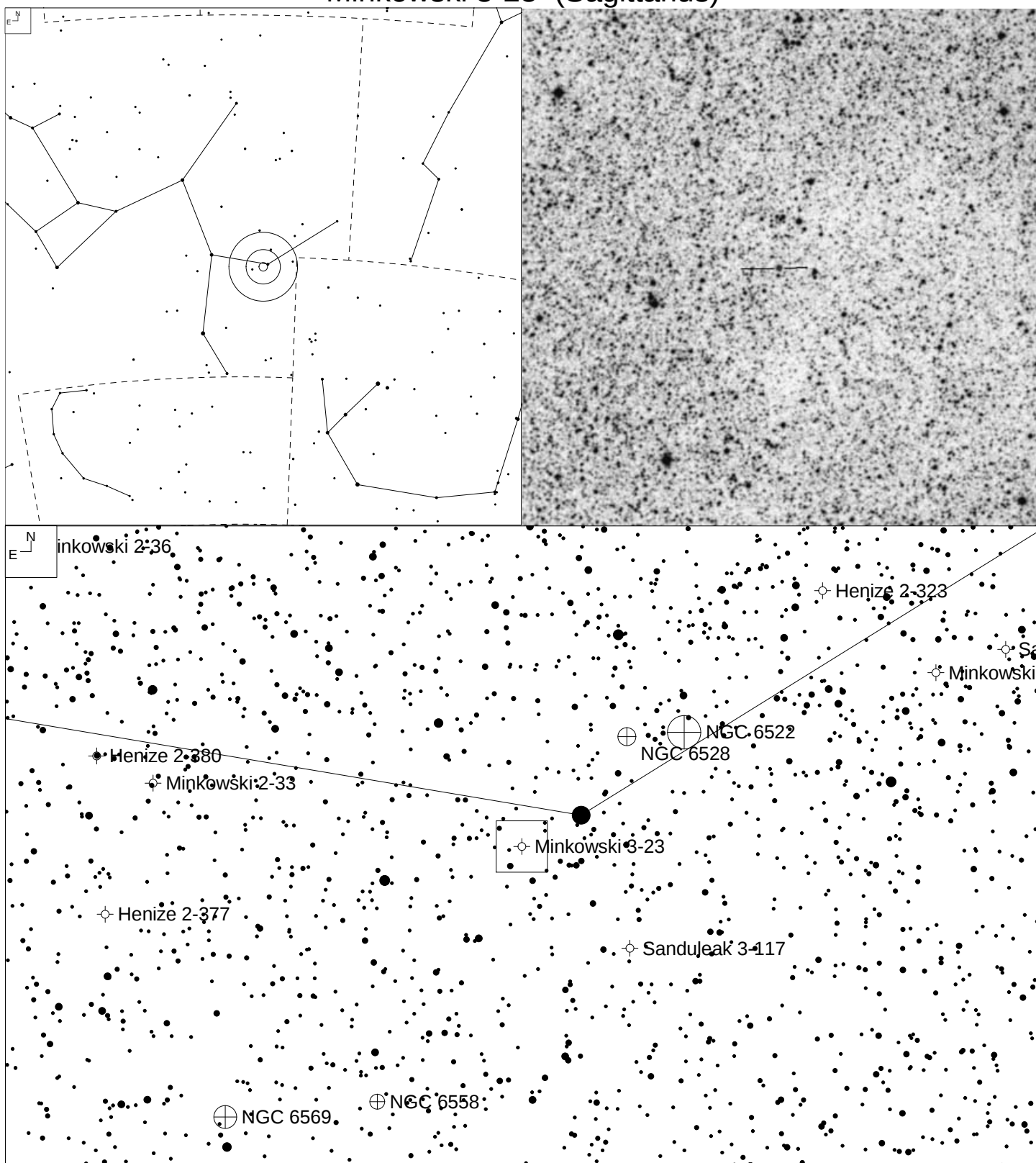
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 3-2.3	4	18 03 18.5	-27 06 22	12.9p 13.0v	17.58	16"

NGC 6537 – Red Spider Nebula (Sagittarius)



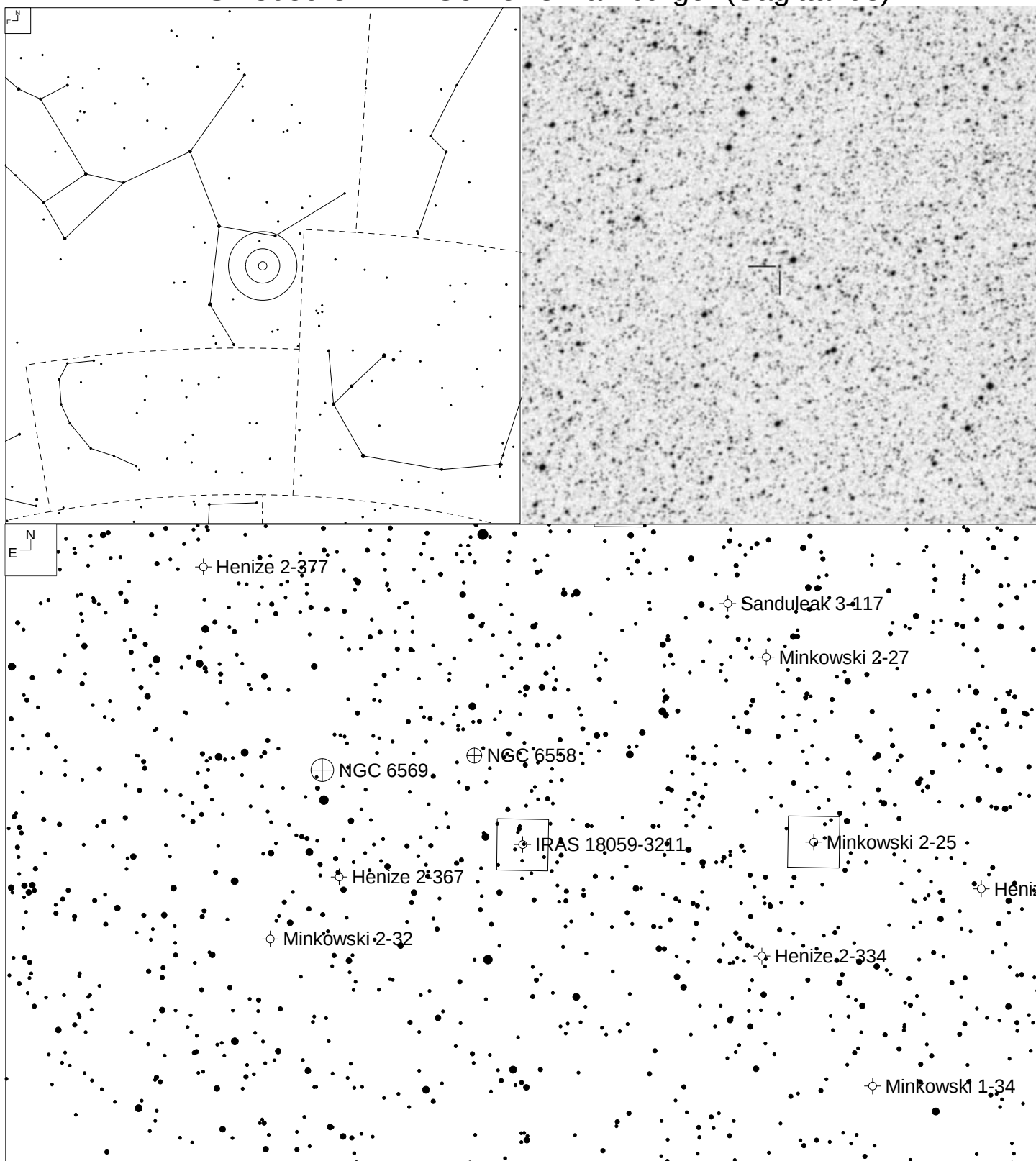
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 10+0.1	2a+6	18 05 13.1	-19 50 35	12.5p 11.6v	18.8	10"

Minkowski 3-23 (Sagittarius)



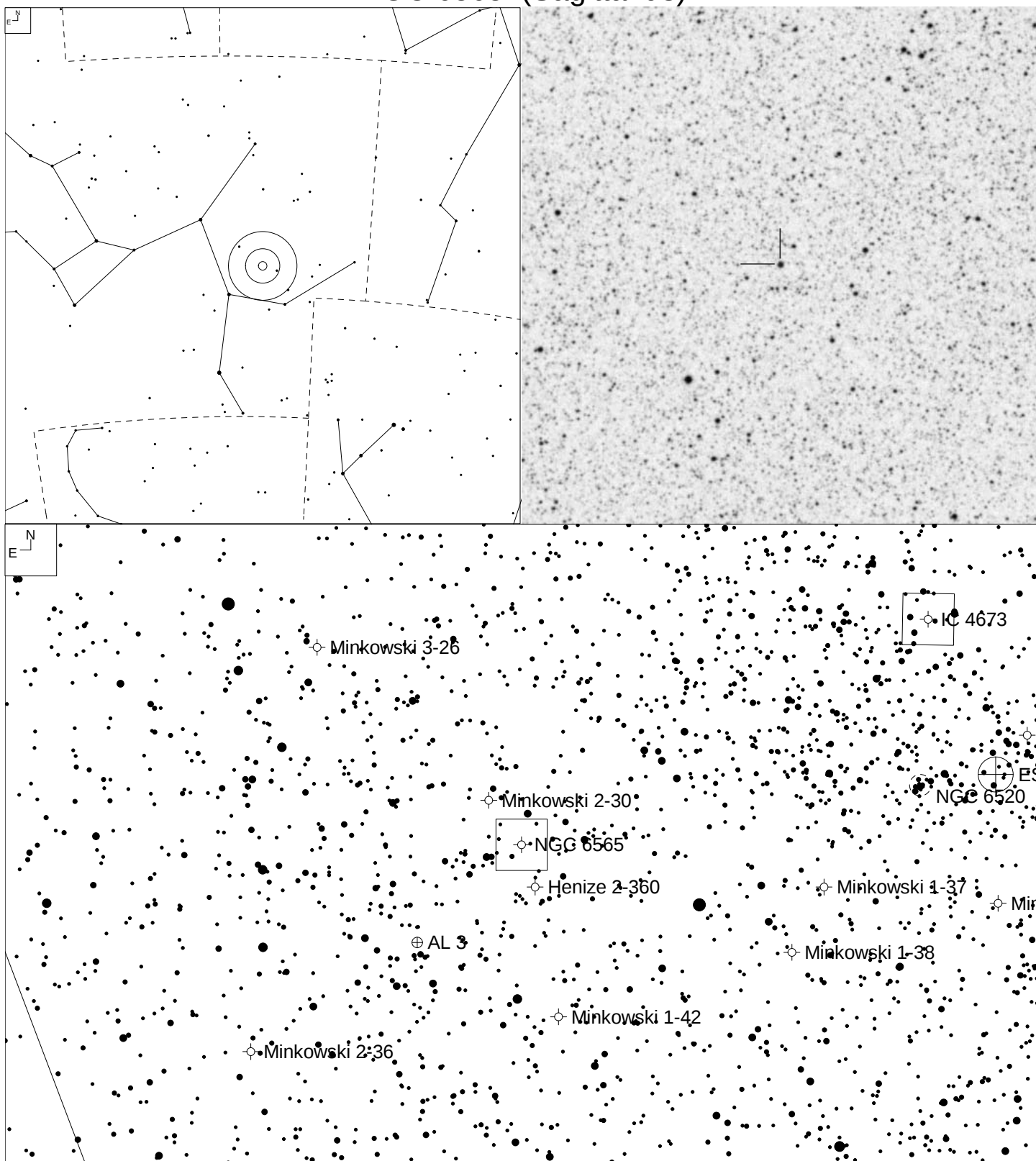
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 0-4.2	2	18 07 06.1	-30 34 17	13.8p	-	11"

IRAS 18059-3211 – Gomez's Hamburger (Sagittarius)



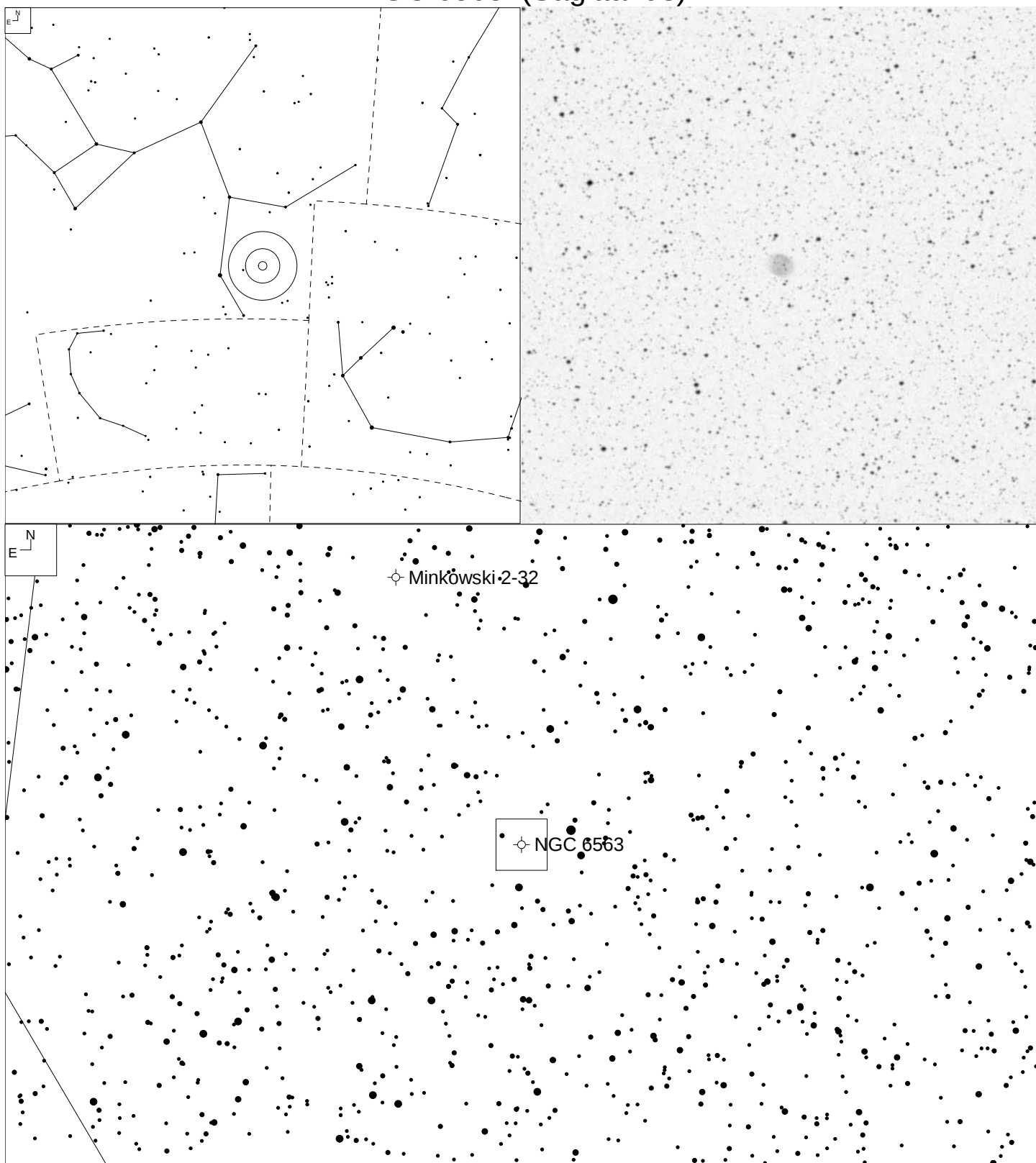
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	18 09 13.3	-32 10 48	14.4p 14.0v	-	6x4"

NGC 6565 (Sagittarius)



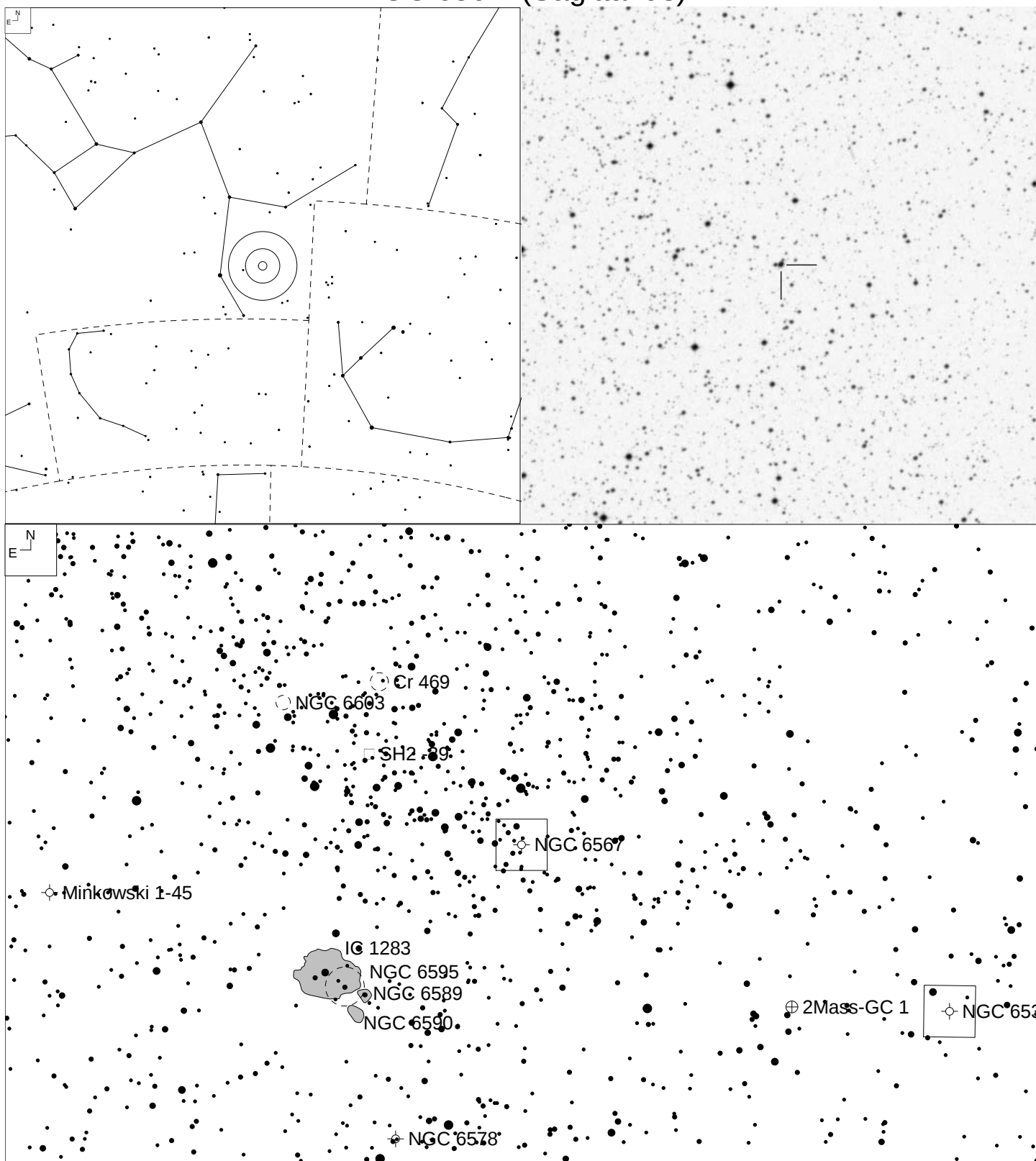
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 3-4.5	4	18 11 52.6	-28 10 42	13.2p 11.6v	18.5	14"

NGC 6563 (Sagittarius)



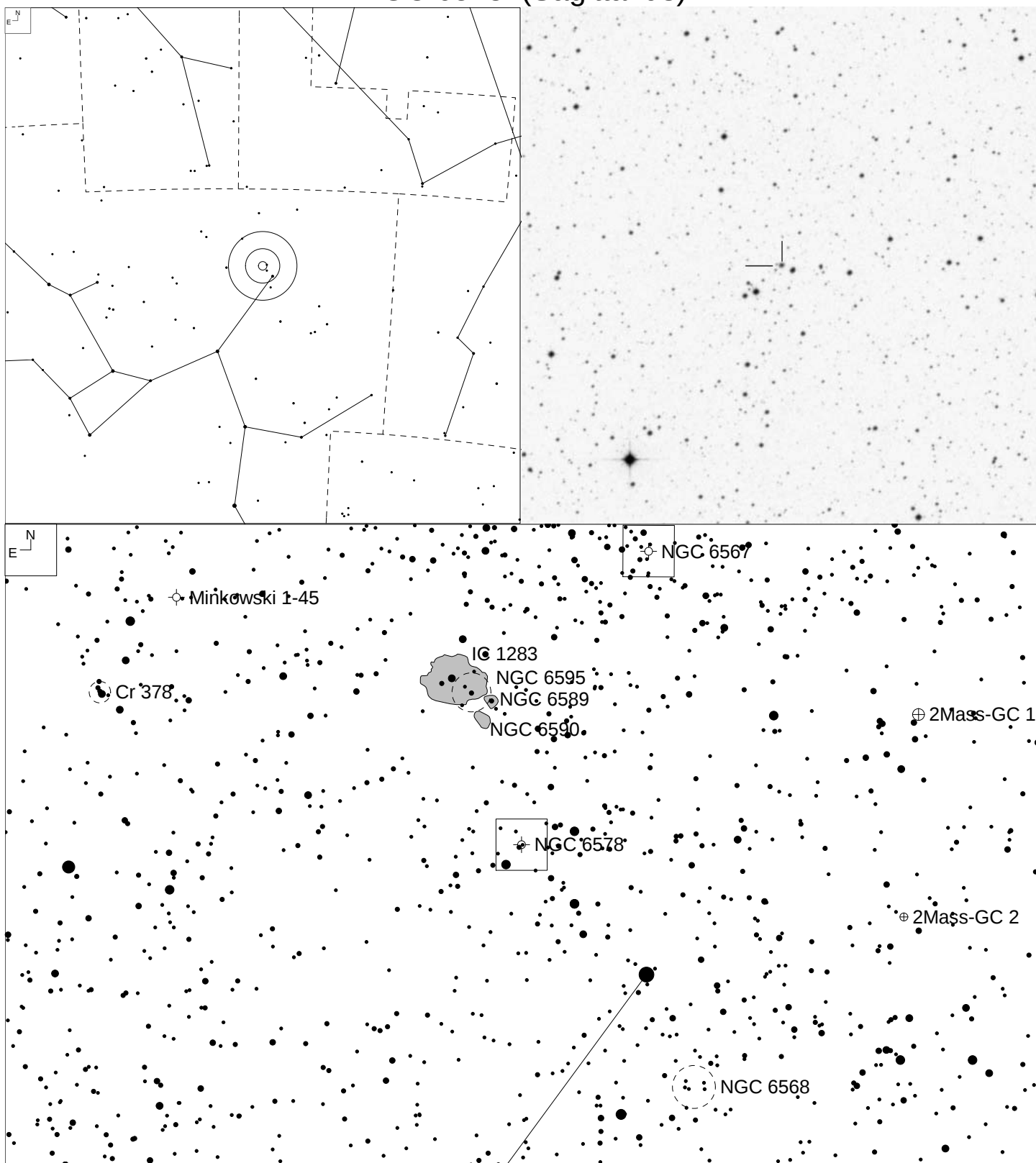
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 358-7.1	3a	18 12 02.5	-33 52 06	13.8p 11.0v	15.38	50x37"

NGC 6567 (Sagittarius)



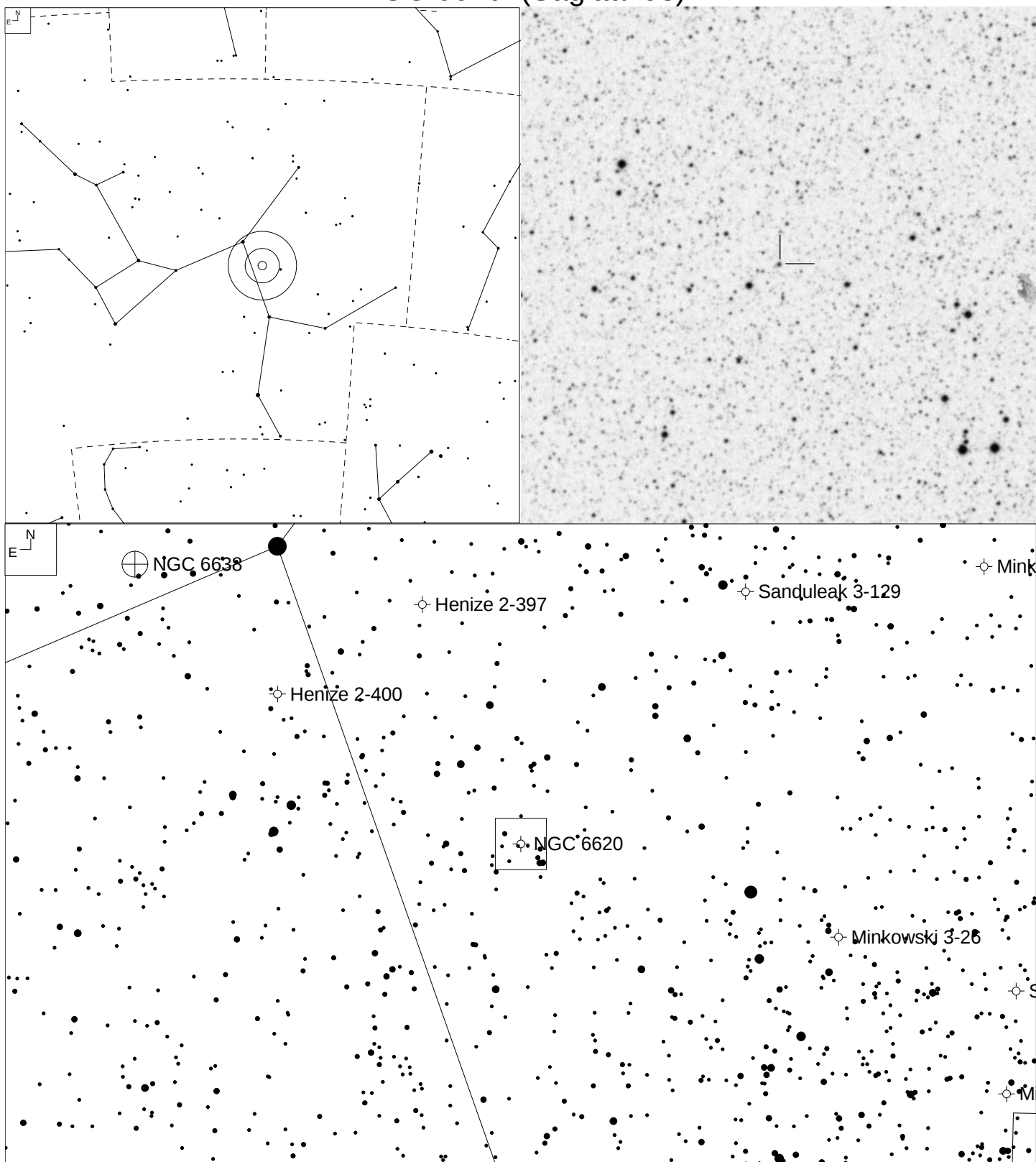
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 11-0.2	2a+2	18 13 45.2	-19 04 33	11.7p 11.0v	14.43	12"

NGC 6578 (Sagittarius)



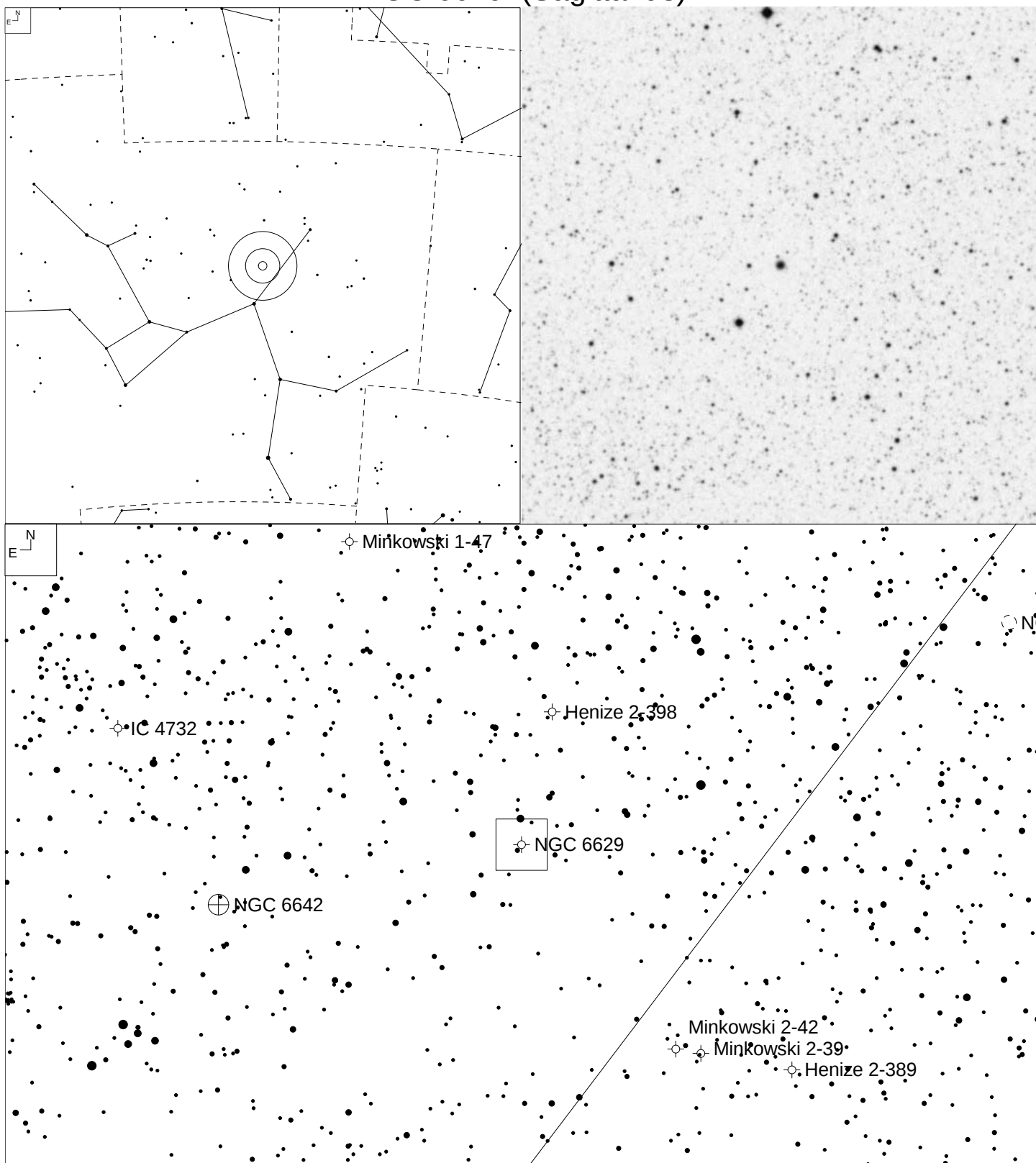
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 10-1.1	2a	18 16 16.6	-20 27 03	13.1p 12.9v	15.8	8"

NGC 6620 (Sagittarius)



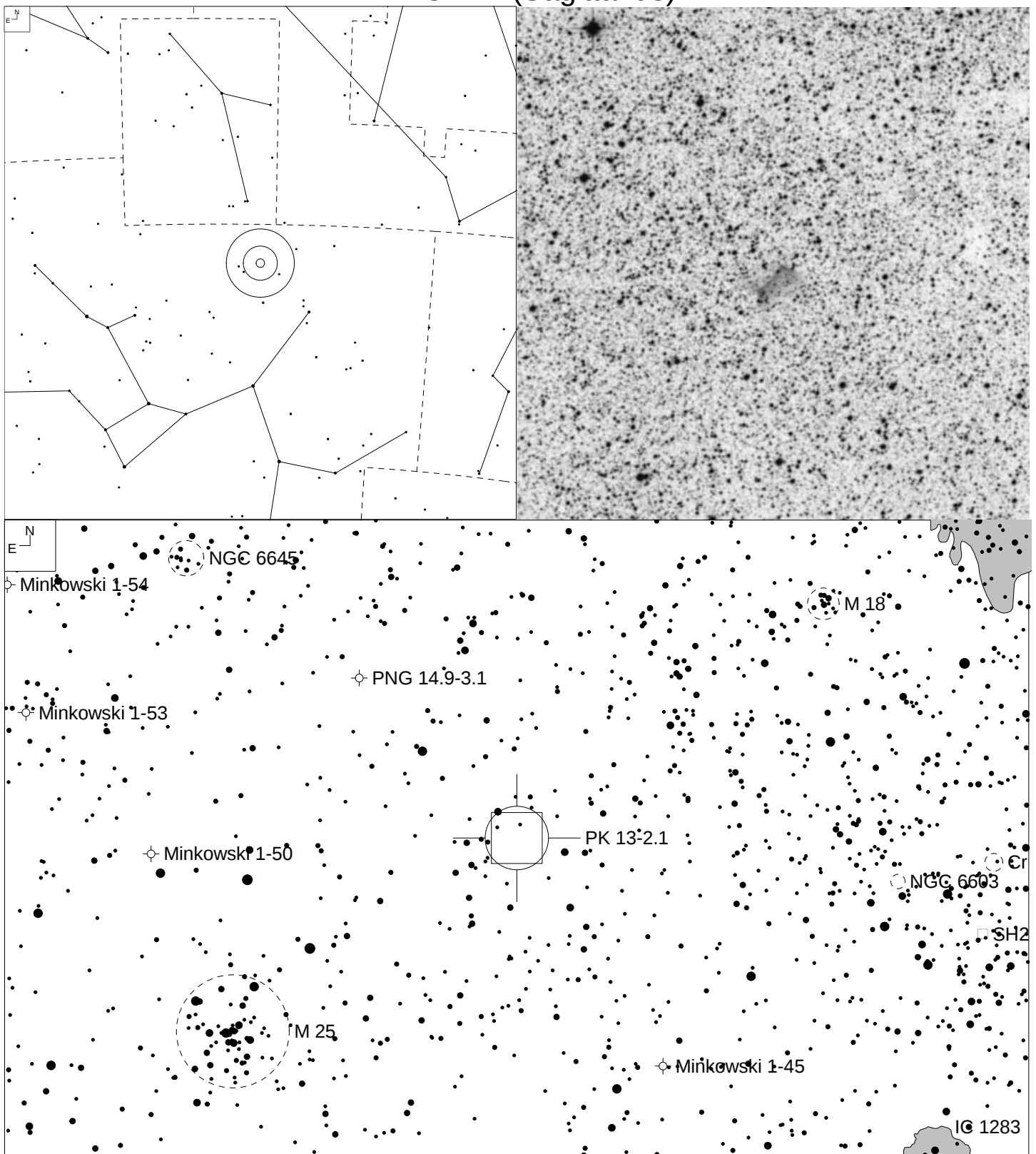
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 5-6.1	2b	18 22 54.3	-26 49 18	15.0p 12.7v	16.25	5"

NGC 6629 (Sagittarius)



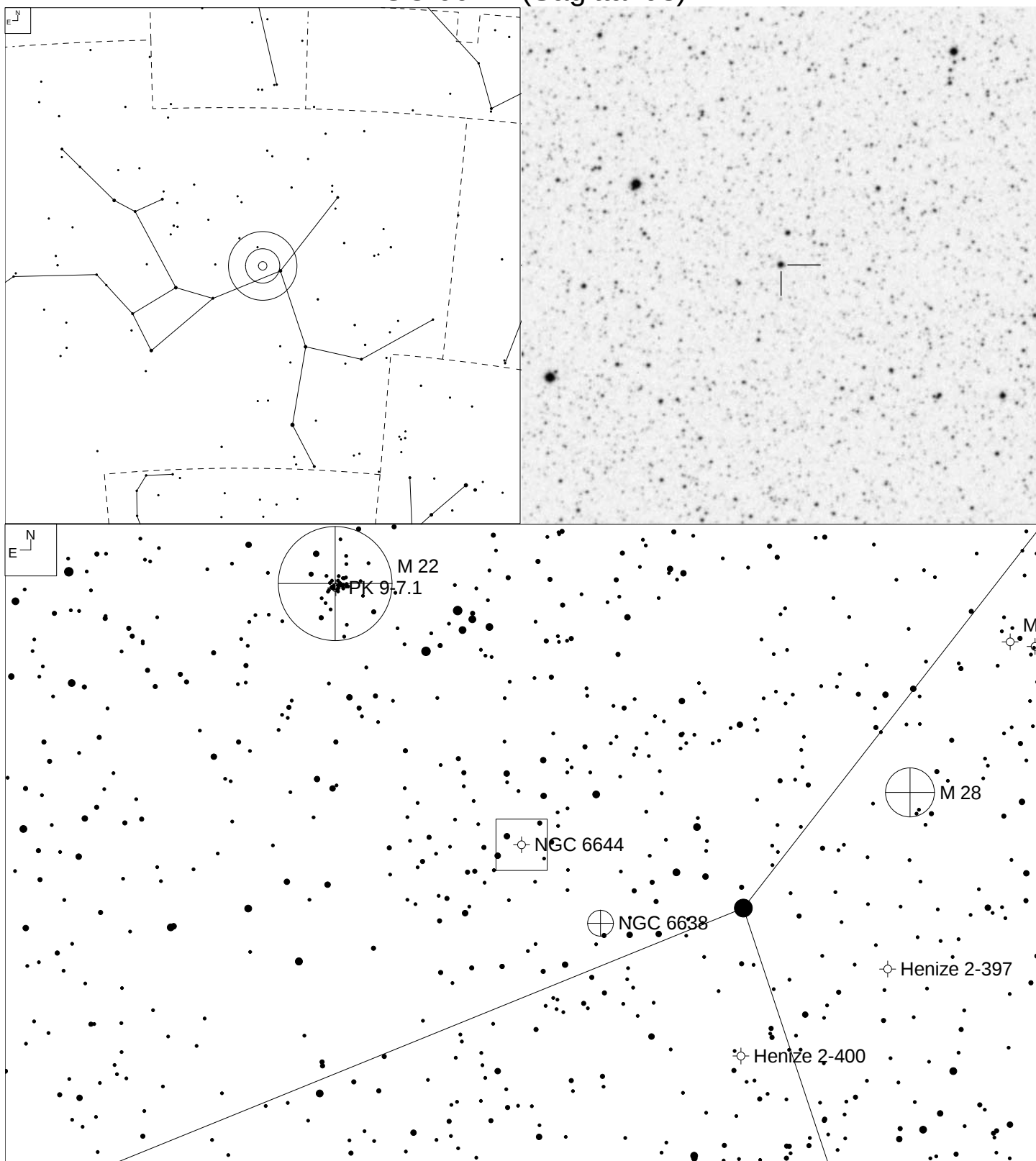
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 9-5.1	2a	18 25 42.4	-23 12 10	11.6p 11.3v	12.82	16x14"

PK 13-2.1 (Sagittarius)



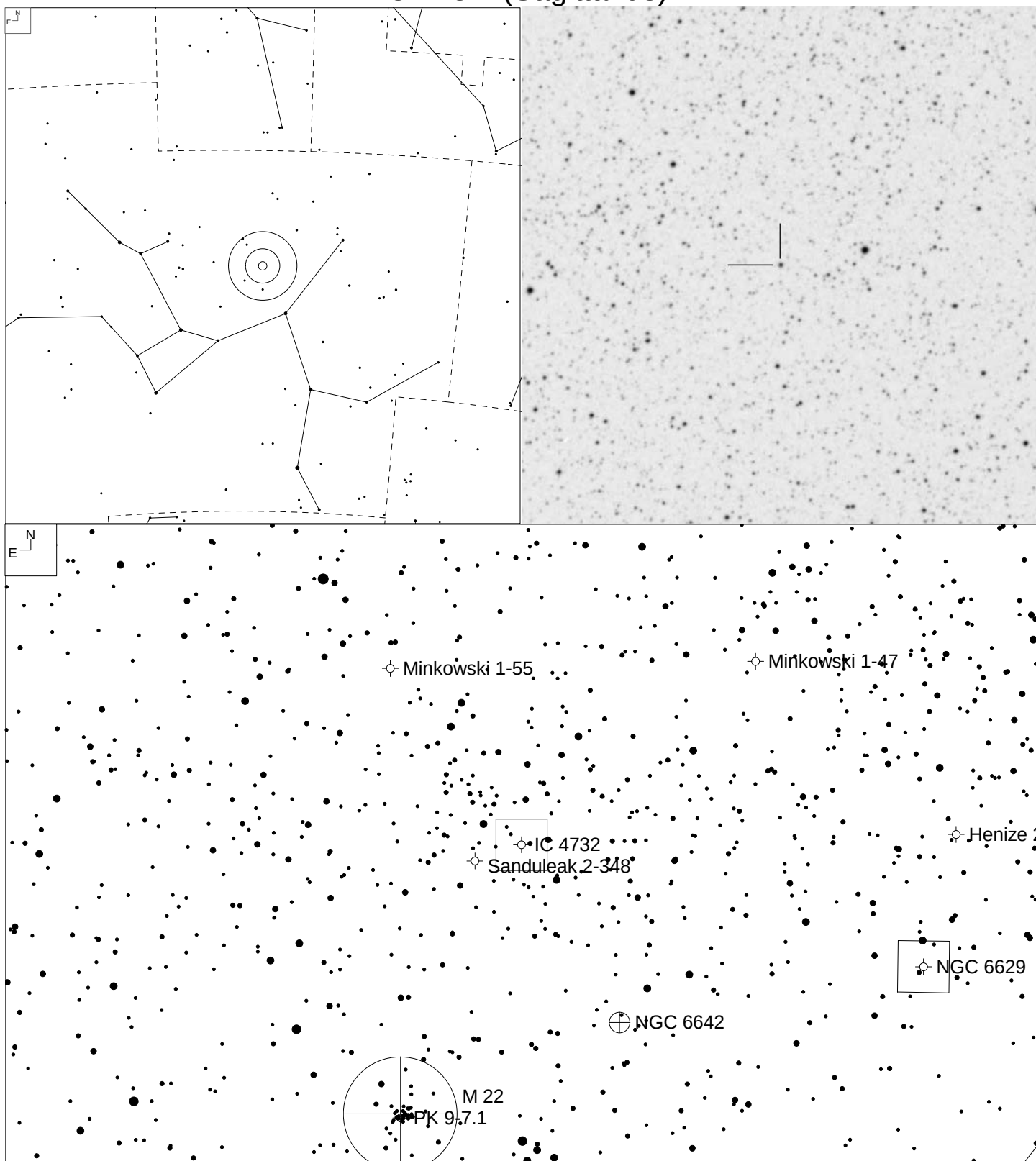
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	18 26 03.9	-18 12 37	15.2	-	18'

NGC 6644 (Sagittarius)



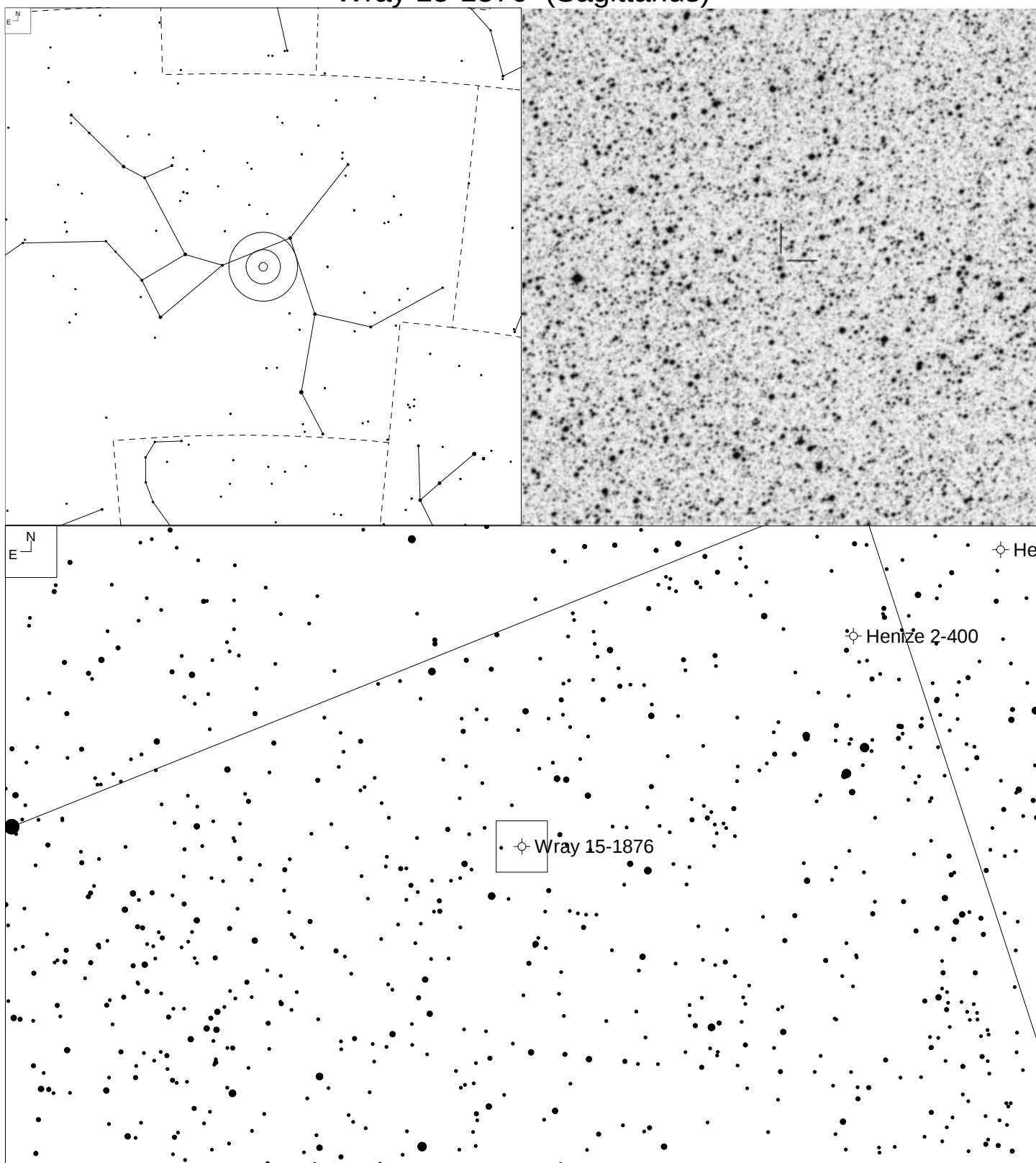
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 8-7.2	2	18 32 34.7	-25 07 44	12.2p 10.7v	15.63	3"

IC 4732 (Sagittarius)



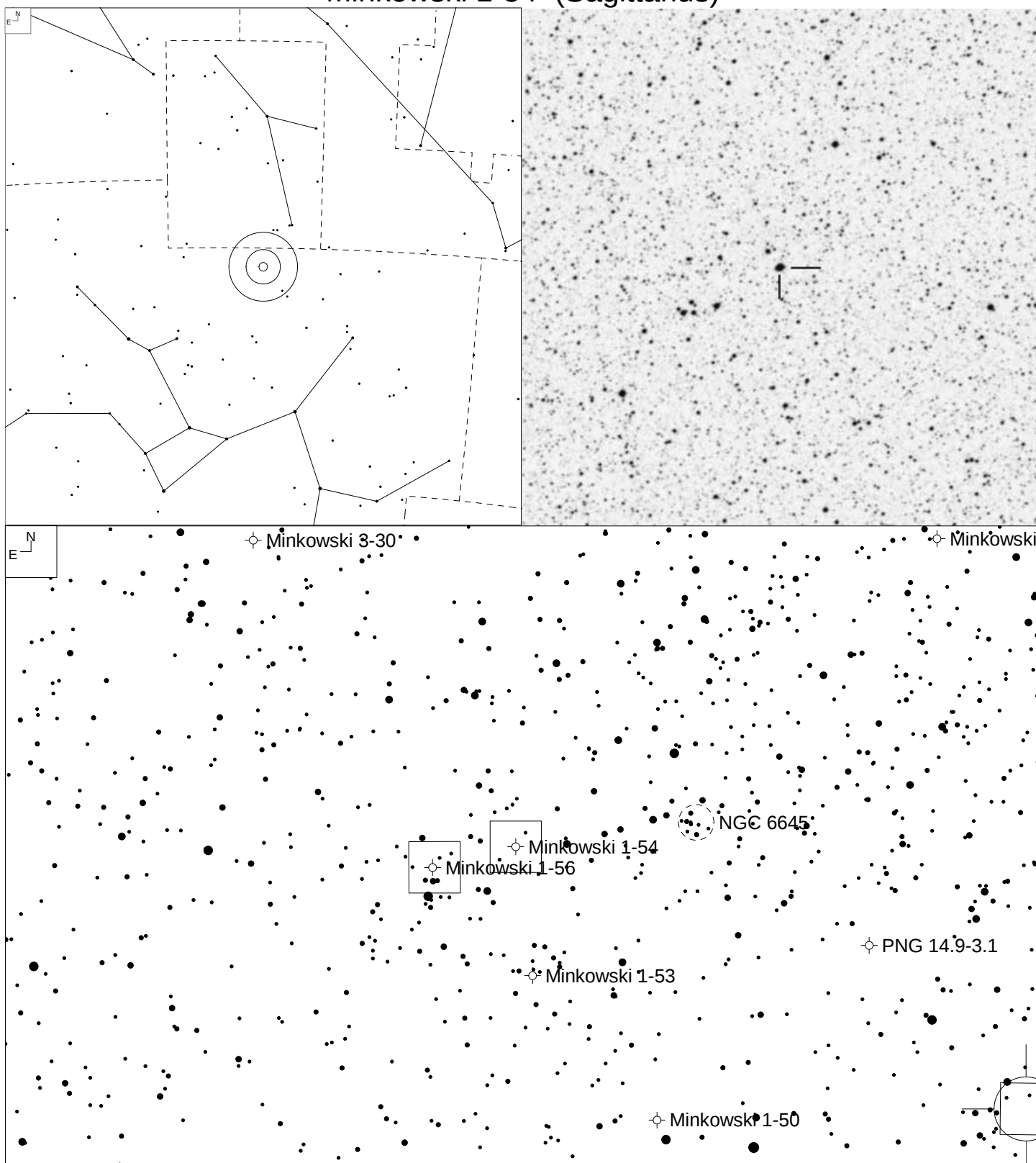
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 10-6.1	1	18 33 54.6	-22 38 41	13.3p 12.1v	16.9	10"

Wray 15-1876 (Sagittarius)



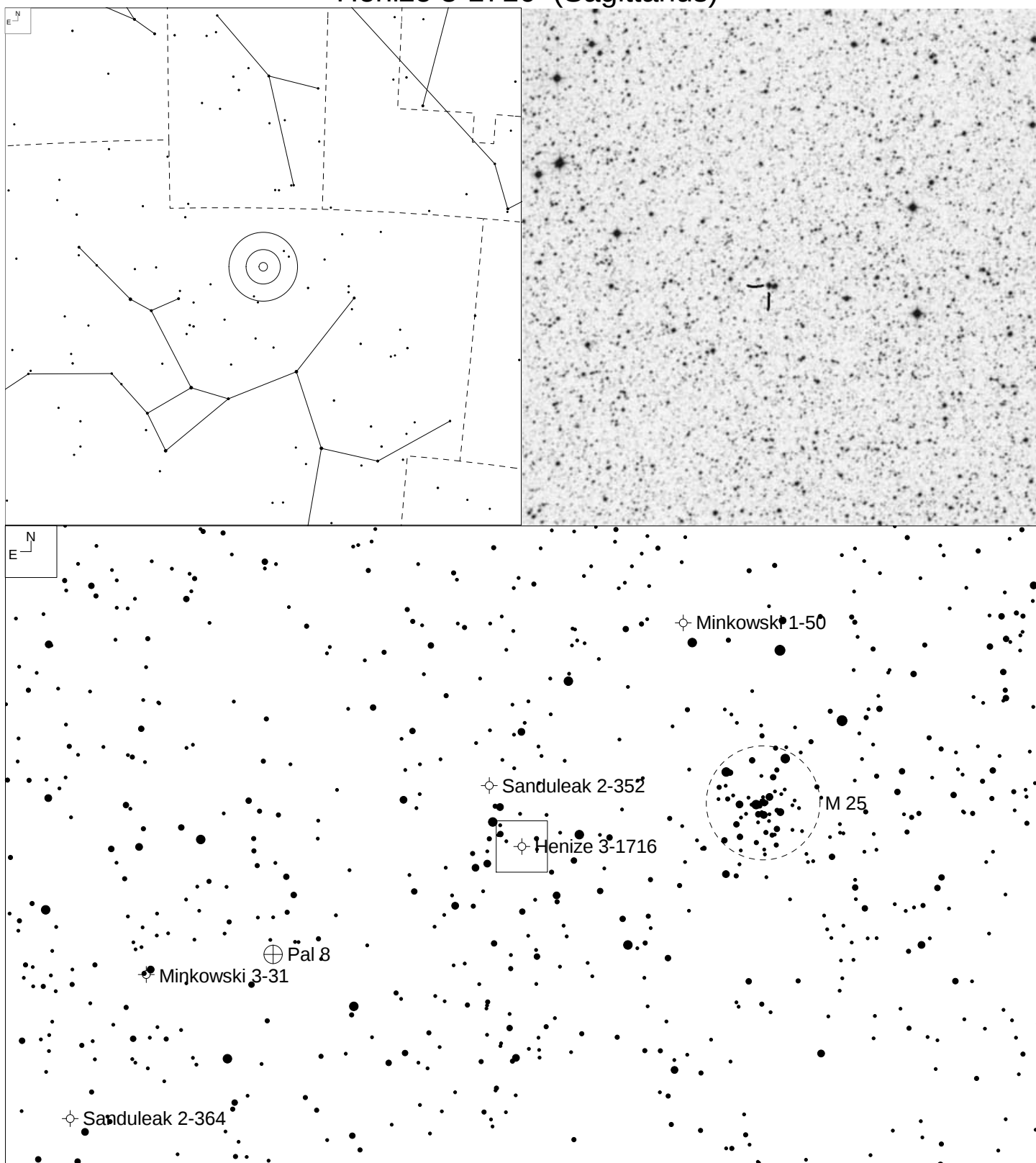
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 6-8.1	-	18 34 55.4	-27 06 32	15.2p	18.0	13"

Minkowski 1-54 (Sagittarius)



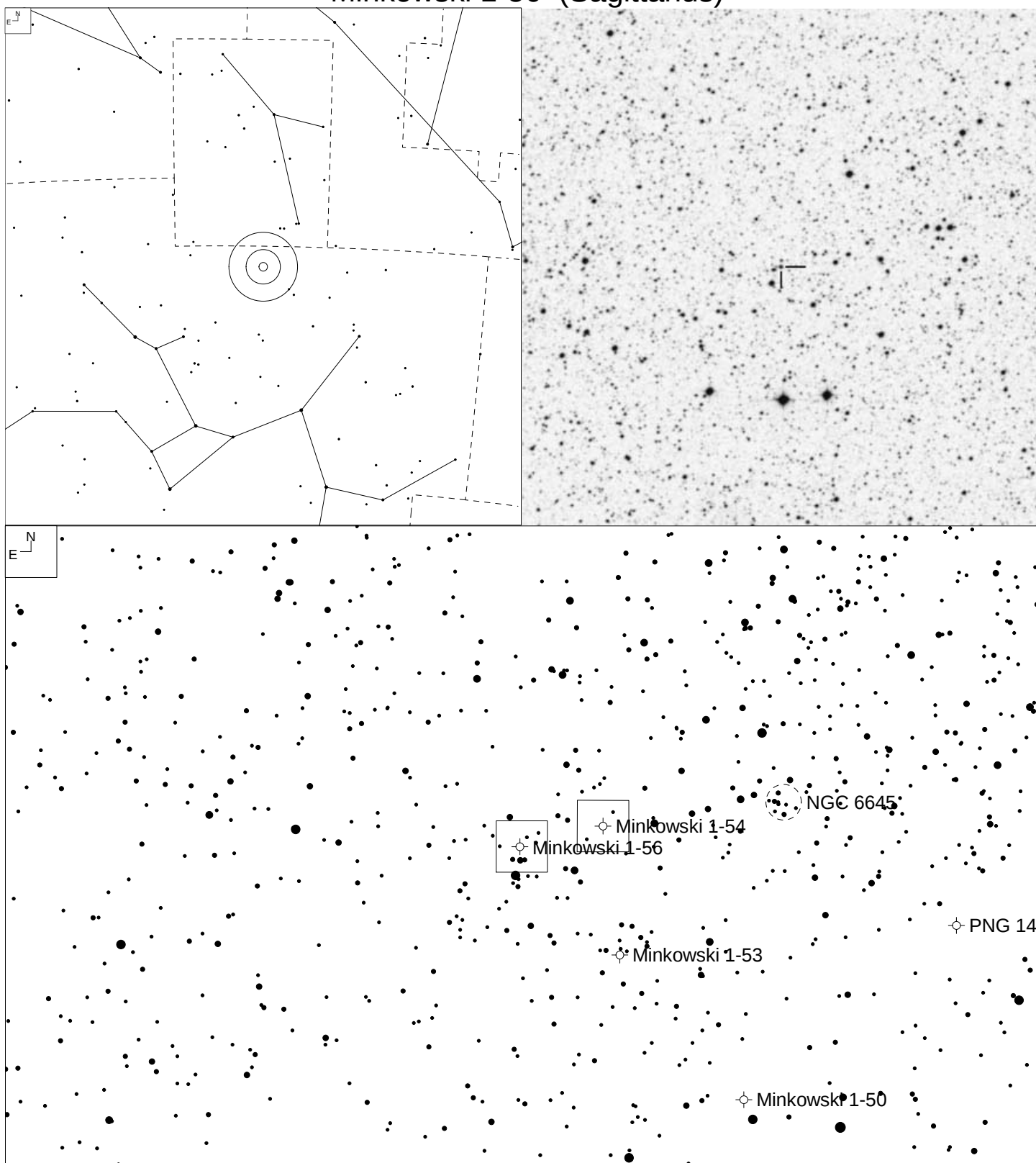
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 16-4.1	3	18 36 08.3	-16 59 57	12.5p	-	13"

Henize 3-1716 (Sagittarius)



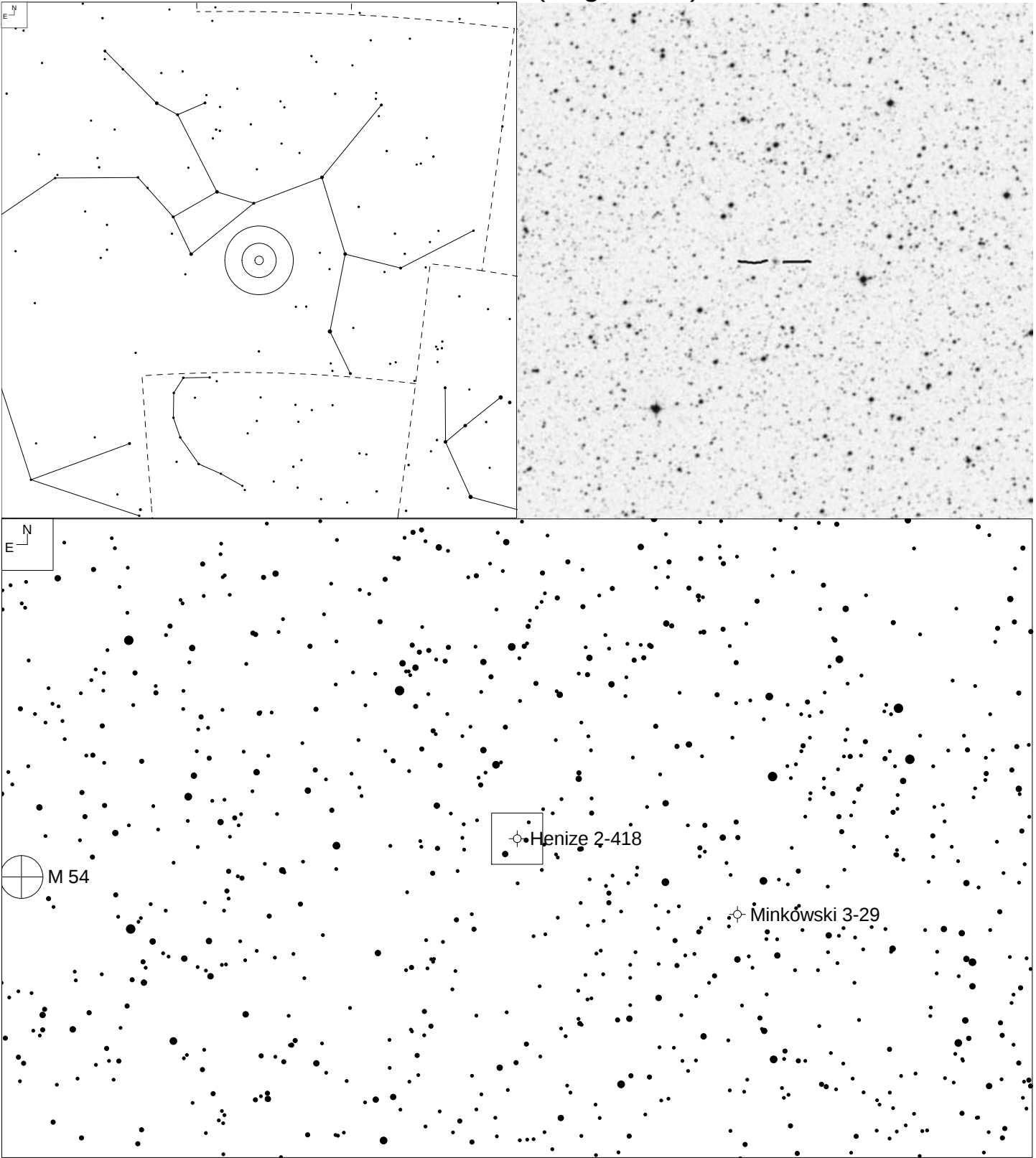
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 14-5.1	-	18 36 32.3	-19 19 29	15.1p	13.2	-

Minkowski 1-56 (Sagittarius)



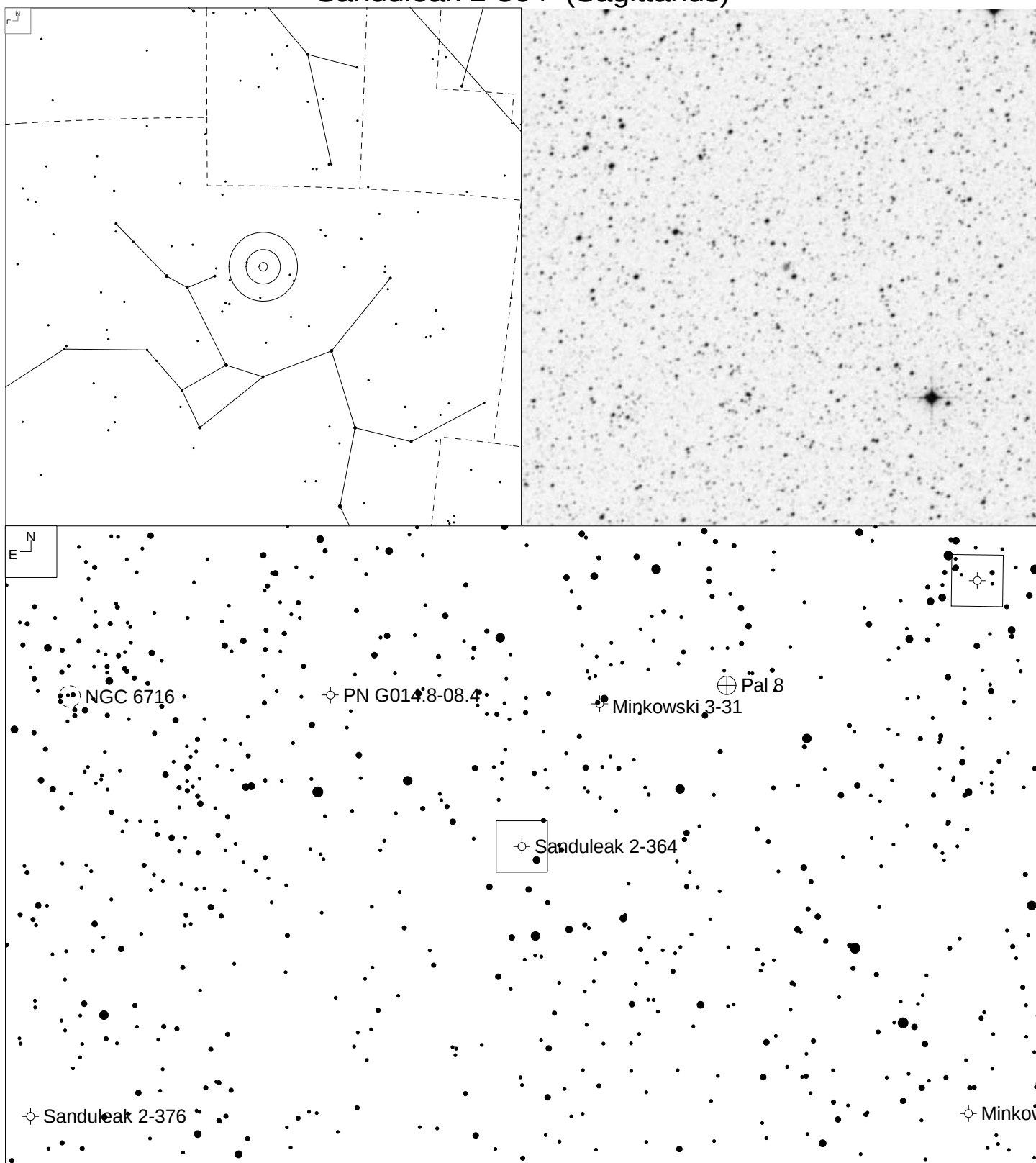
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 16-4.2	1	18 37 46.3	-17 05 47	13.3p	16.2	10"

Henize 2-418 (Sagittarius)



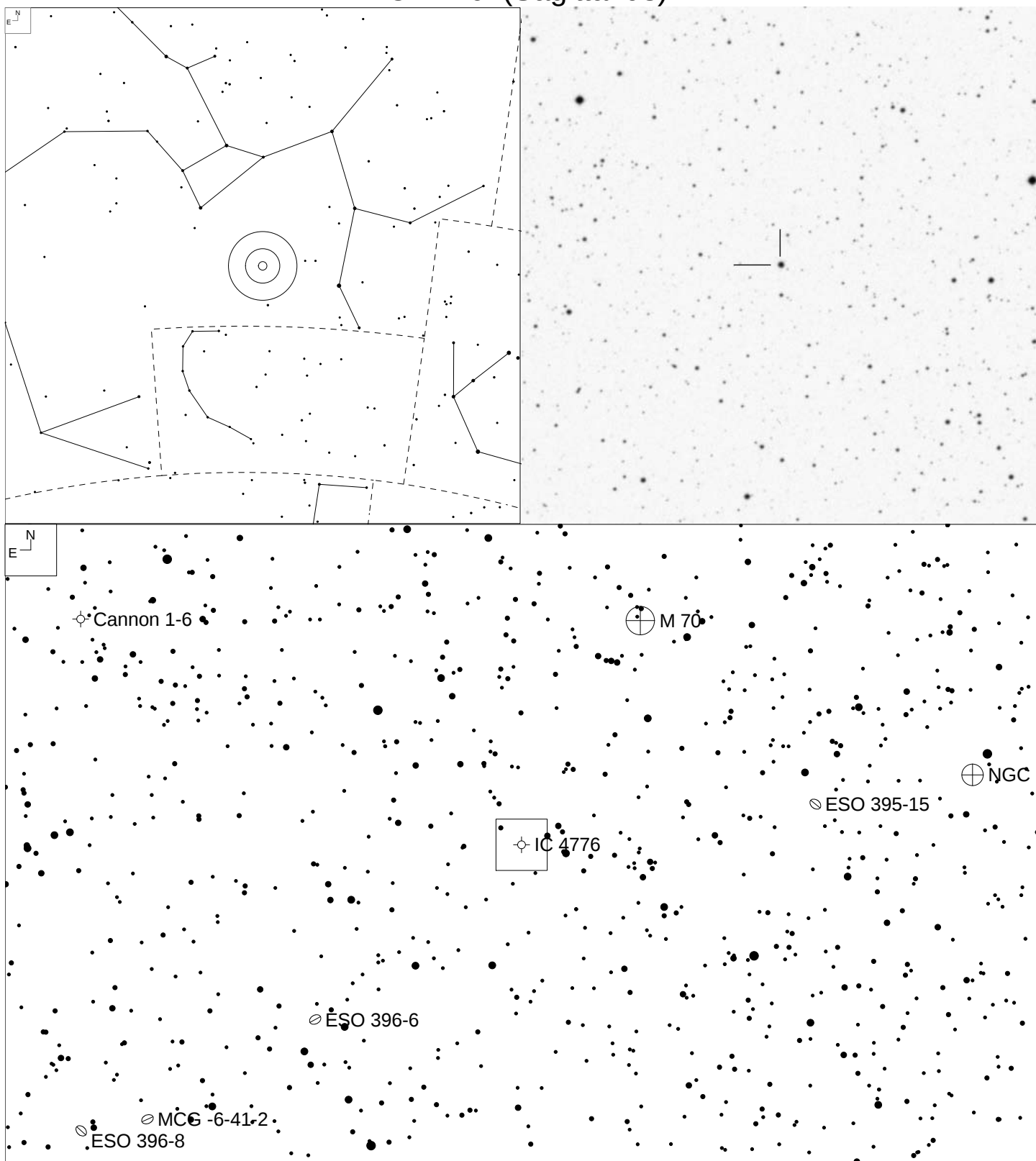
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 4-11.2	-	18 44 14.6	-30 19 36	15.1	15.6	13"

Sanduleak 2-364 (Sagittarius)



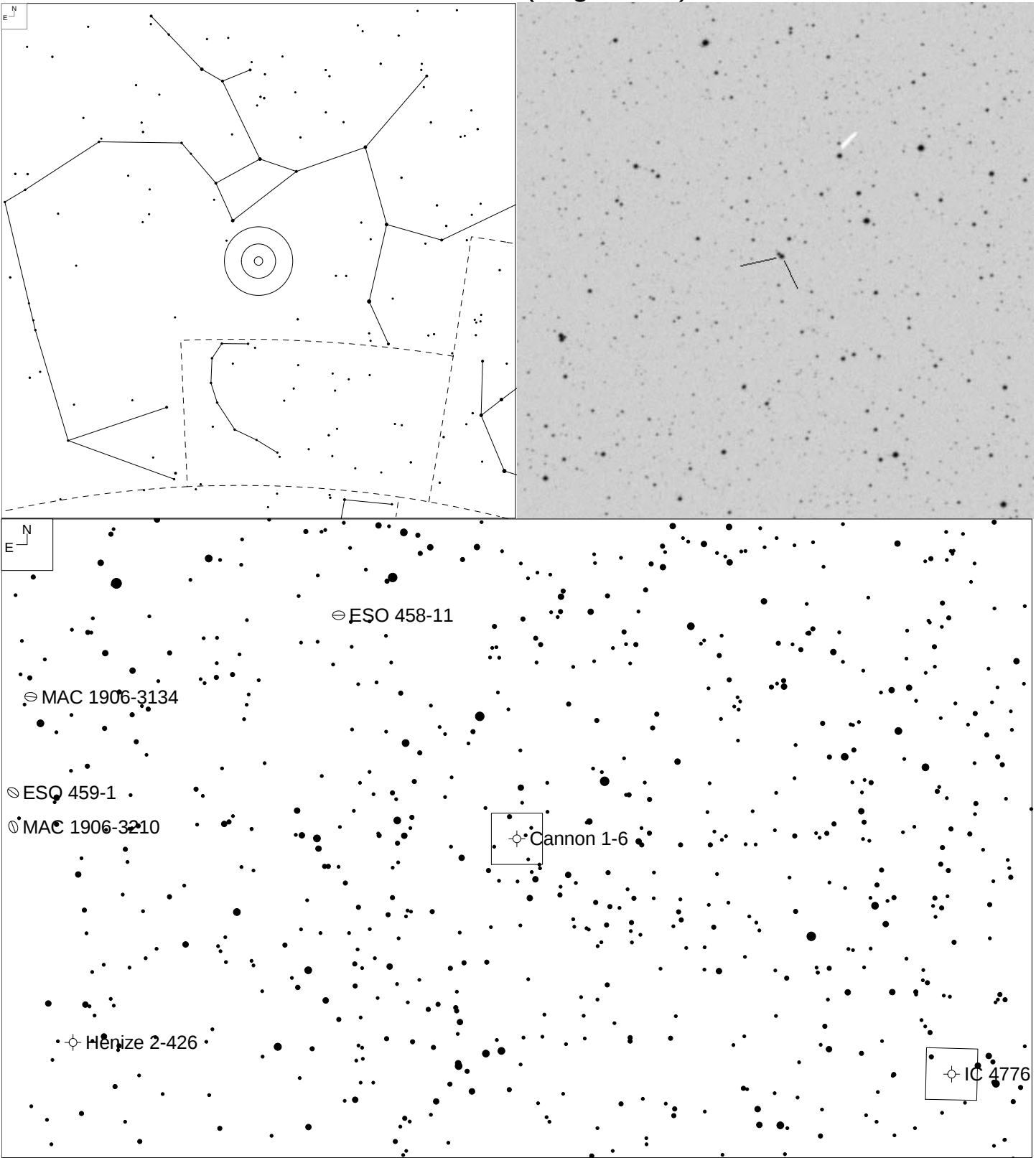
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 13-7.1	?+3	18 45 35.2	-20 34 59	13.9p	18.4	13"

IC 4776 (Sagittarius)



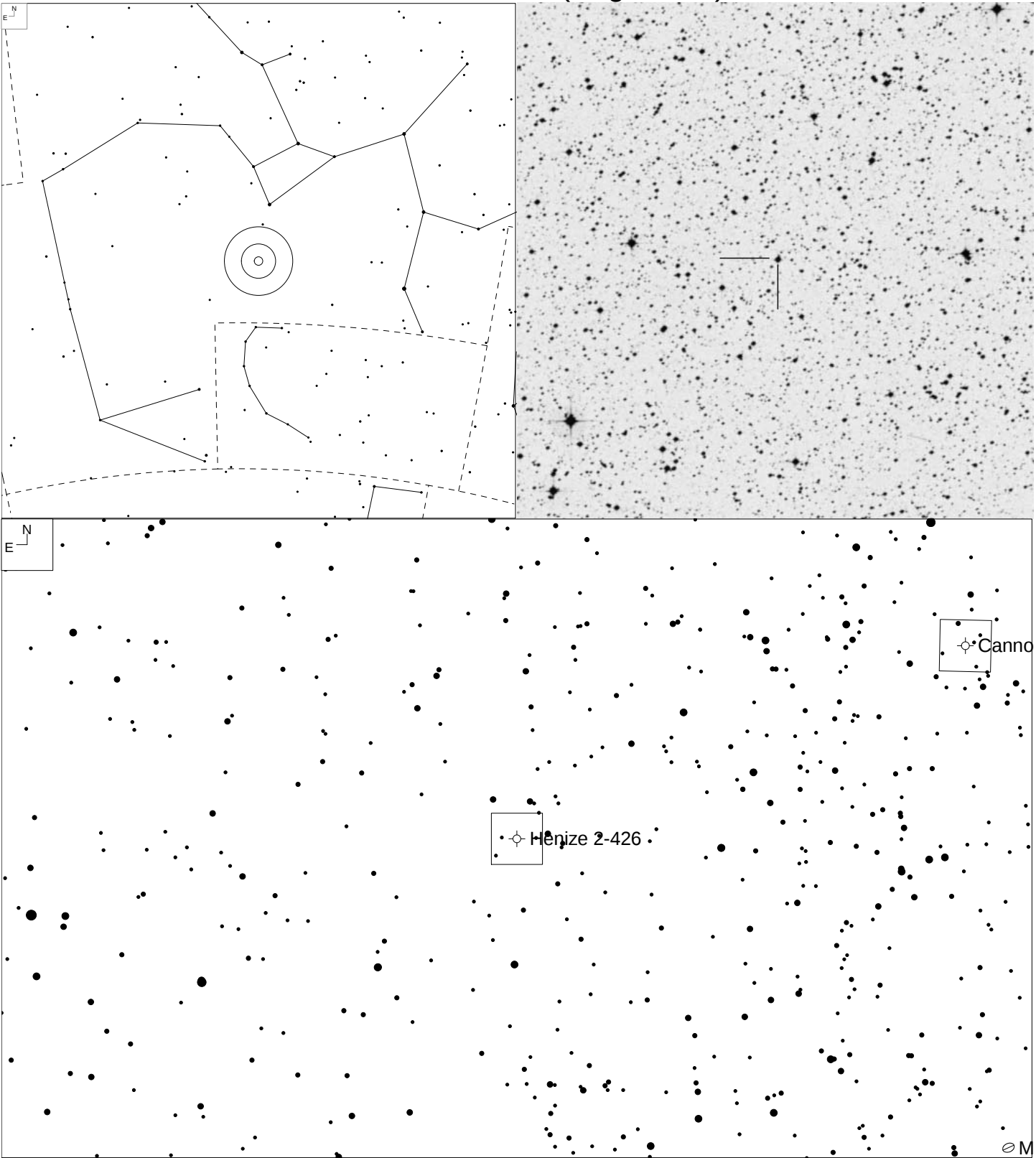
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 2-13.1	2a	18 45 50.9	-33 20 36	11.7p 10.8v	14.47	8x6"

Cannon 1-6 (Sagittarius)



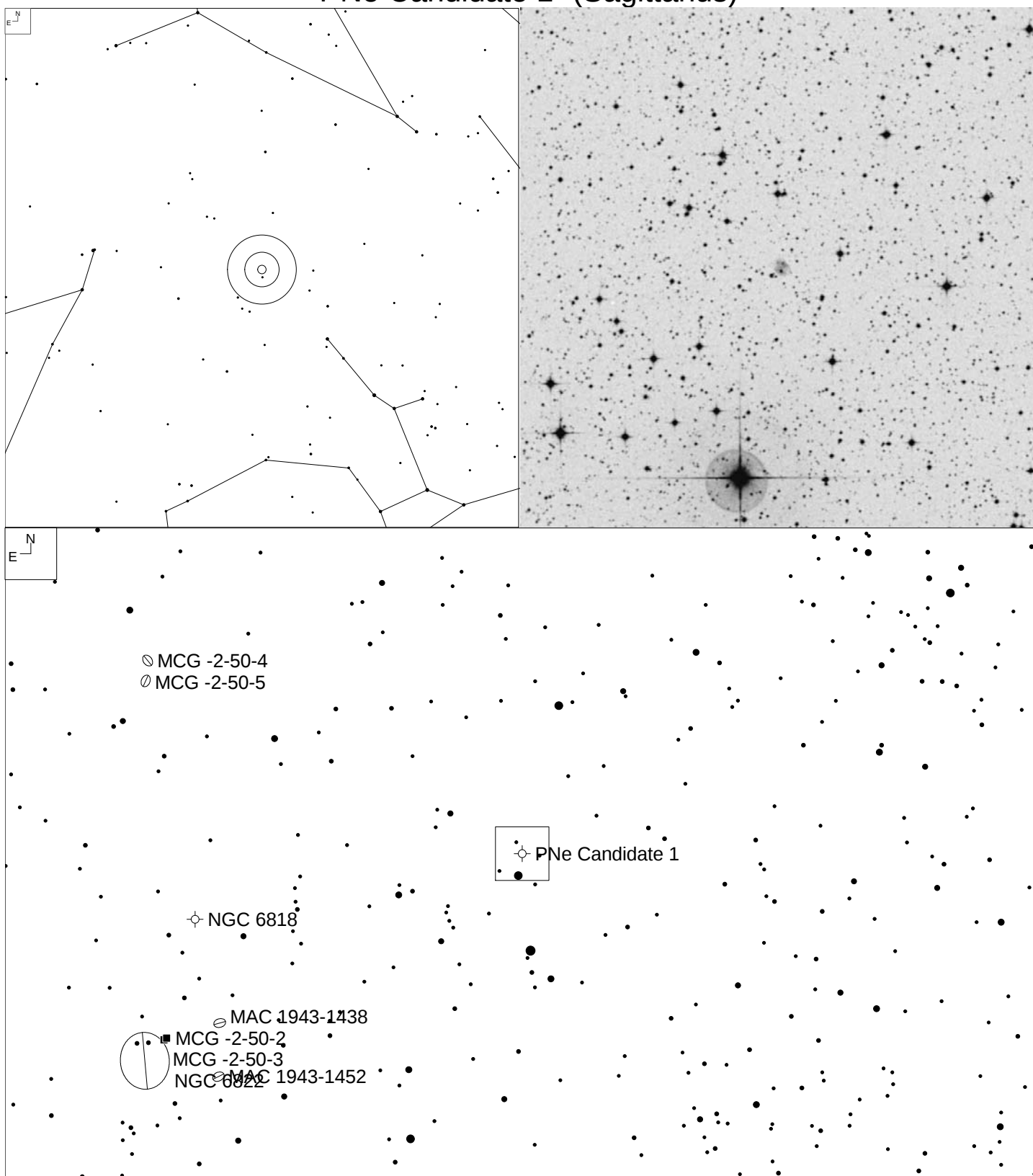
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 3-14.1	2	18 55 37.8	-32 15 48	10.9p	13.97	4"
Sand 2-375						
Henize 2-425						

Sanduleak 2-381 (Sagittarius)



Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 3-17.1	2	19 05 35.9	-33 11 37	13.4p	-	5"
Henize 2-426				12.5v		
Hubble 8						

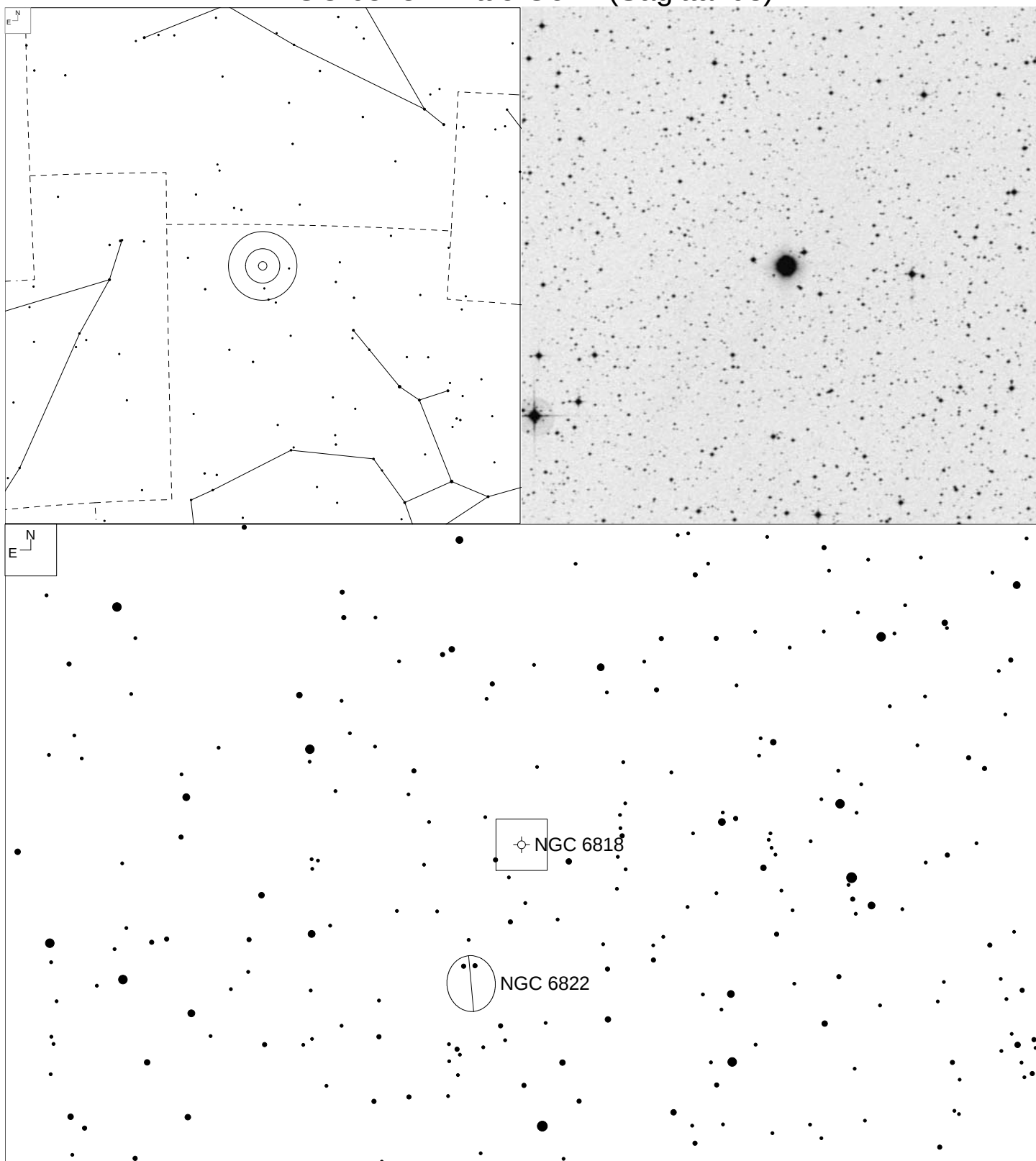
“PNe Candidate 1” (Sagittarius)



Other ID	Type	RA	Dec	Mag	* Mag	Size
		19 37 44	-13 51 20	-	-	34"

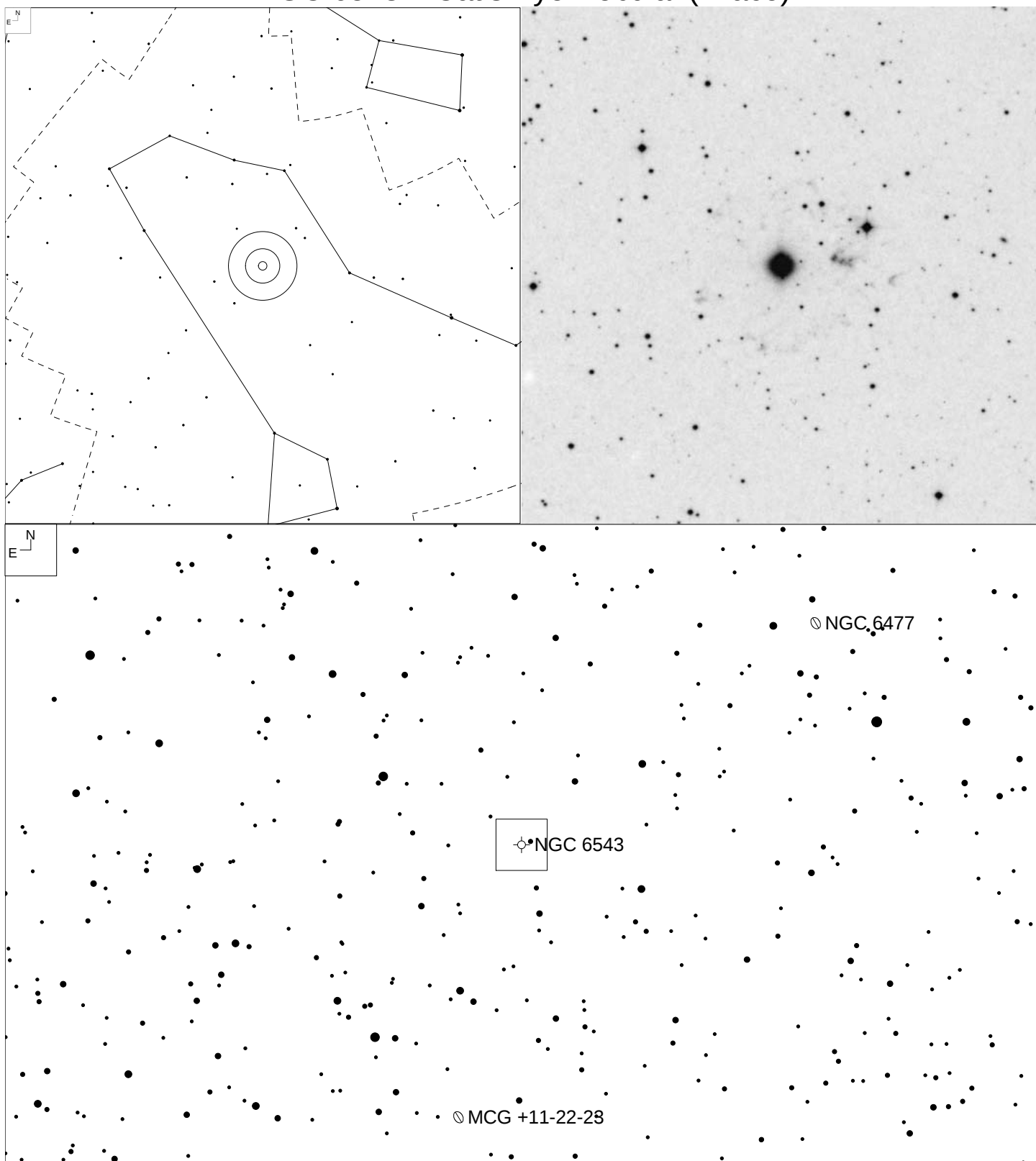
This candidate was posted by Matthias Kronberger on AmAstro July 27, 2009

NGC 6818 – Little Gem (Sagittarius)



Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 25-17.1	4	19 43 57.8	-14 09 10	9.8p 8.8v	10.6	48"

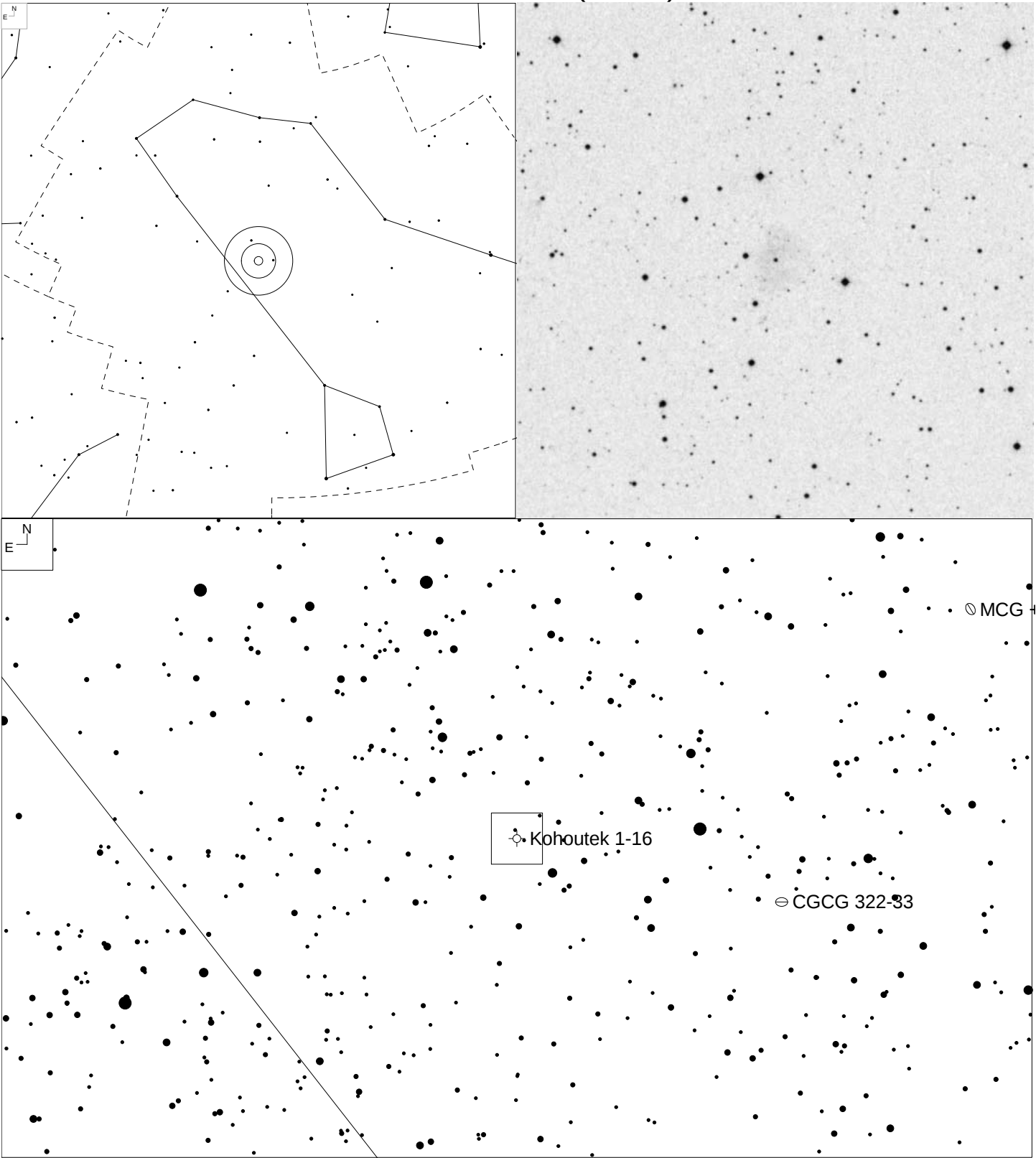
NGC 6543 – Cat's Eye Nebula (Draco)



Look for the extension to the west.

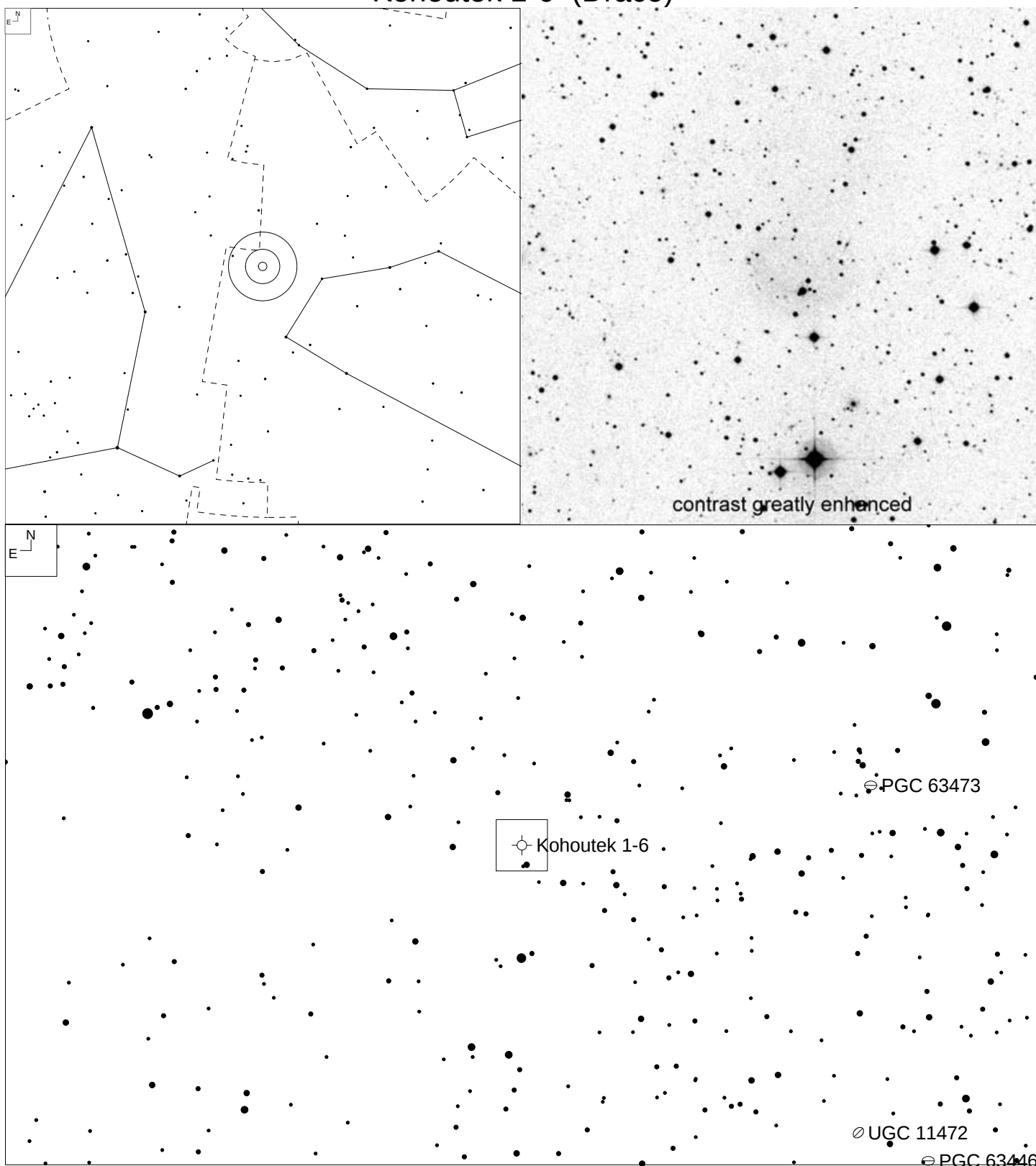
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 96+29.1	3a+2	17 58 33.5	+66 37 59	8.8p 8.1v	10.9	23x18"

Kohoutek 1-16 (Draco)



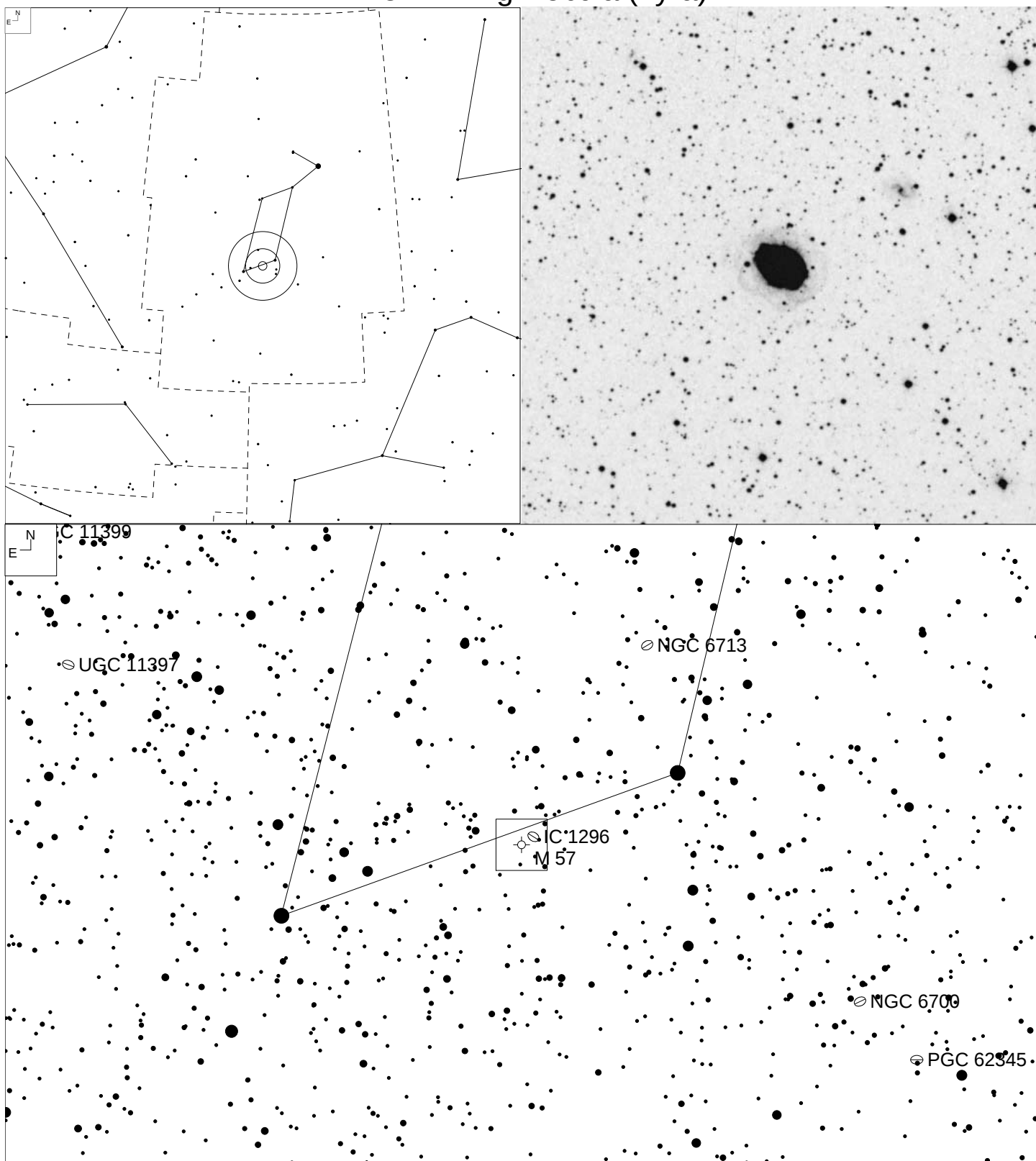
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 94+27.1	3	18 21 52.2	+64 21 53	14.5p 14.2v	15.09 var	110"

Kohoutek 1-6 (Draco)



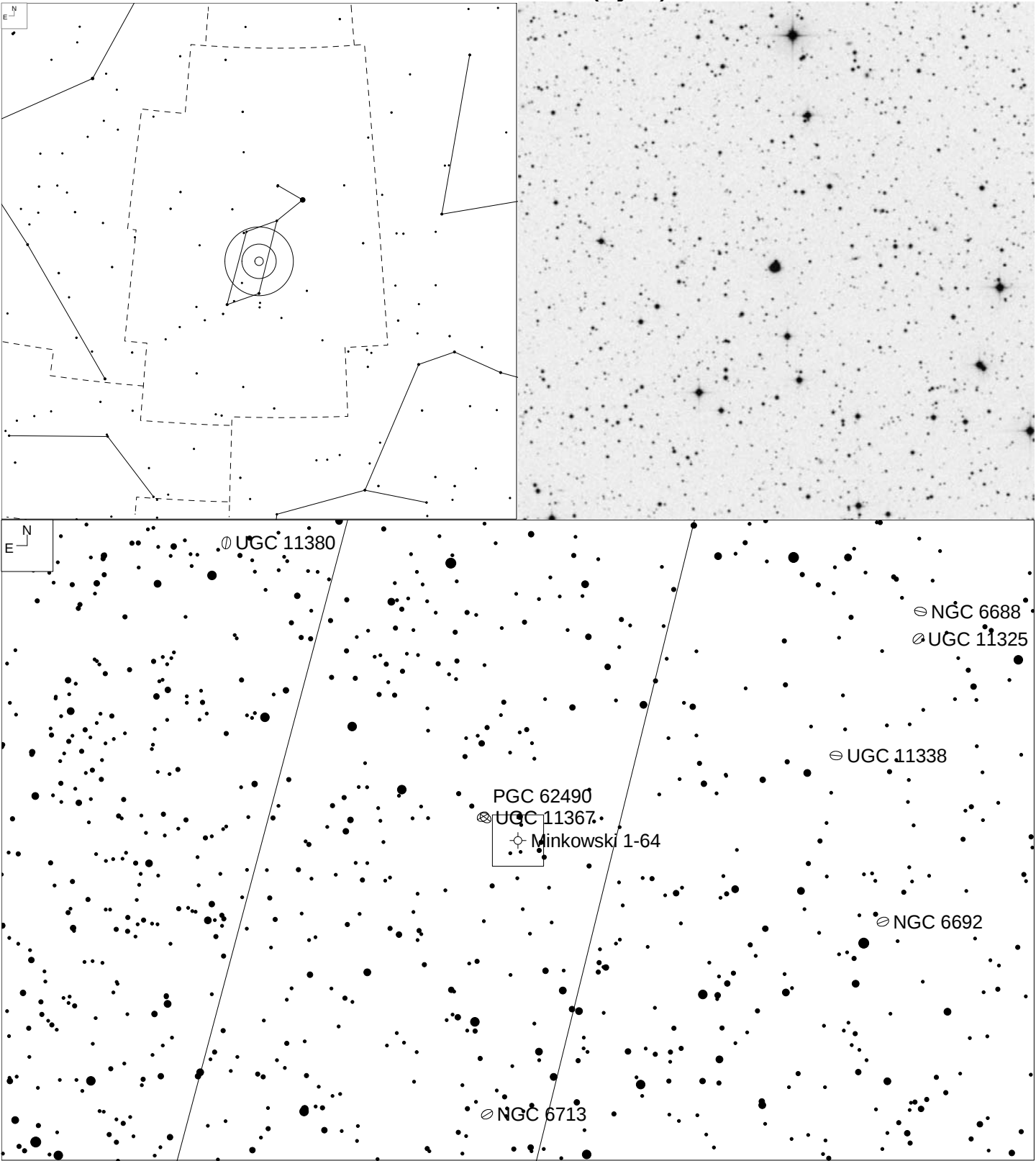
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 107+21.1	2	20 04 24.9	+74 26 17	-	17.6	2.7'

M-57 – Ring Nebula (Lyra)



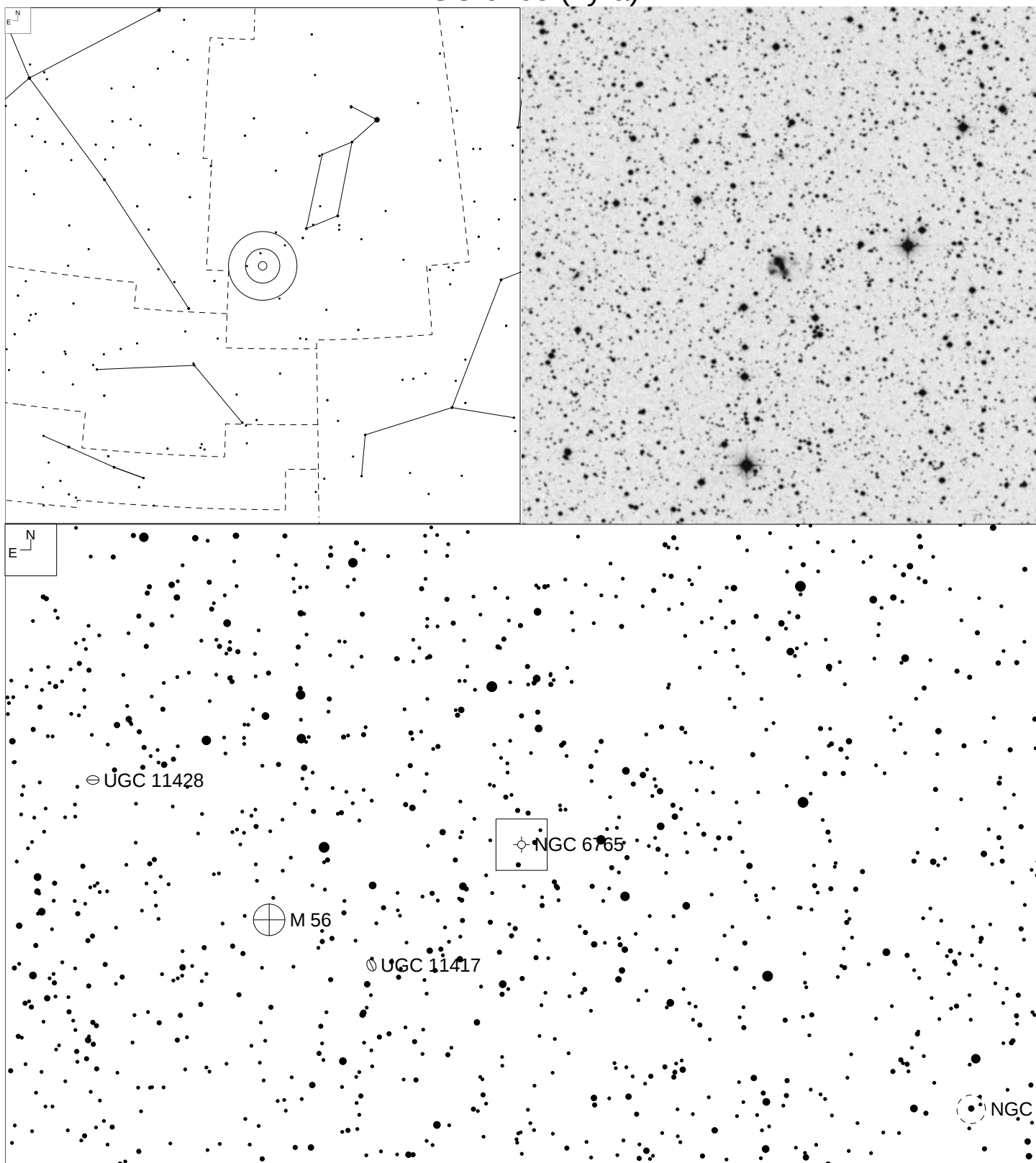
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 63+13.1	4+3	18 53 35.2	+33 01 44	9.7p 8.8v	14.7	1.8 x 1.4'

Minkowski 1-64 (Lyra)



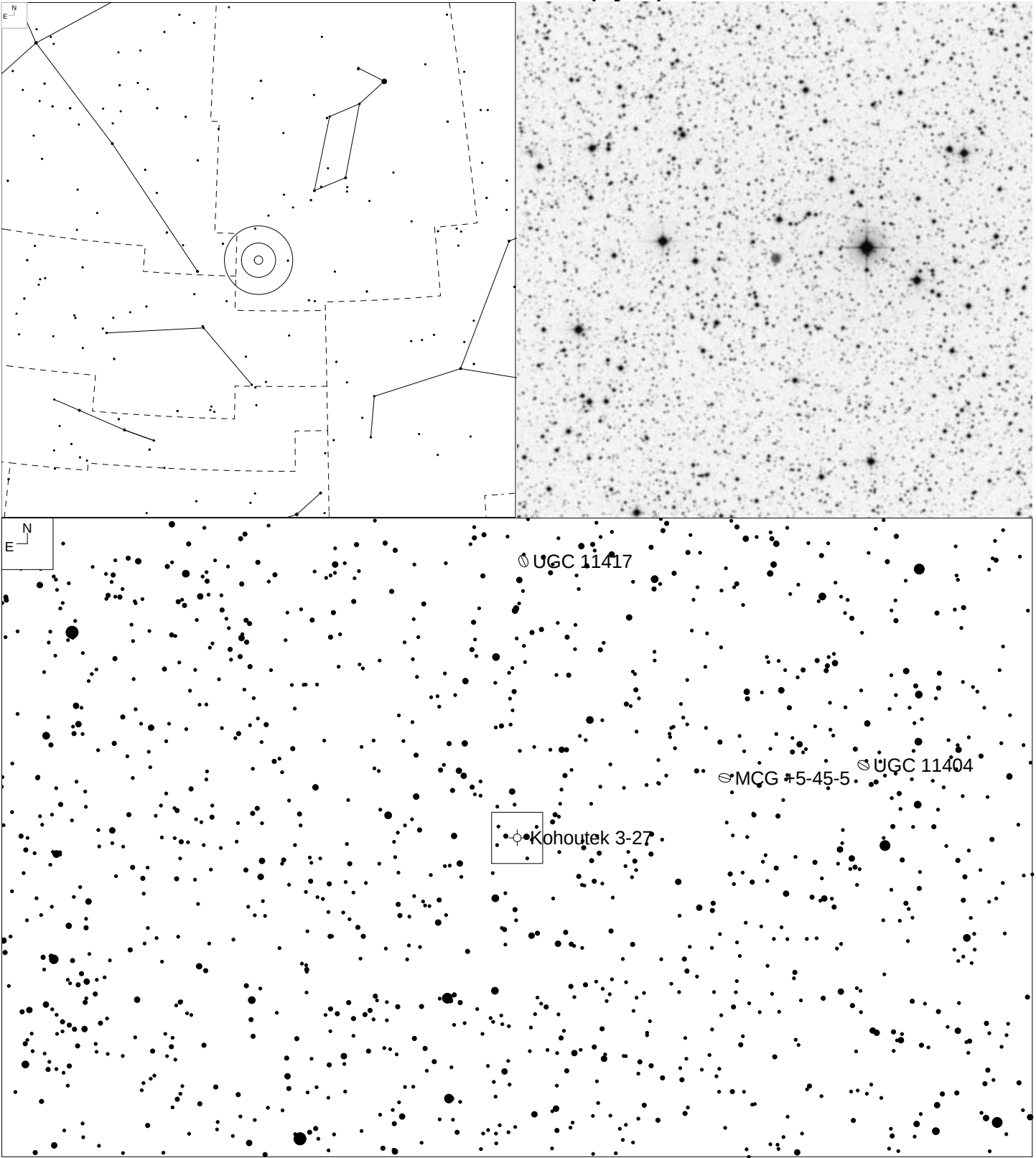
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 64+15.1	4	18 50 02.3	+35 14 33	12.8p 13.3v	-	24"

NGC 6765 (Lyra)



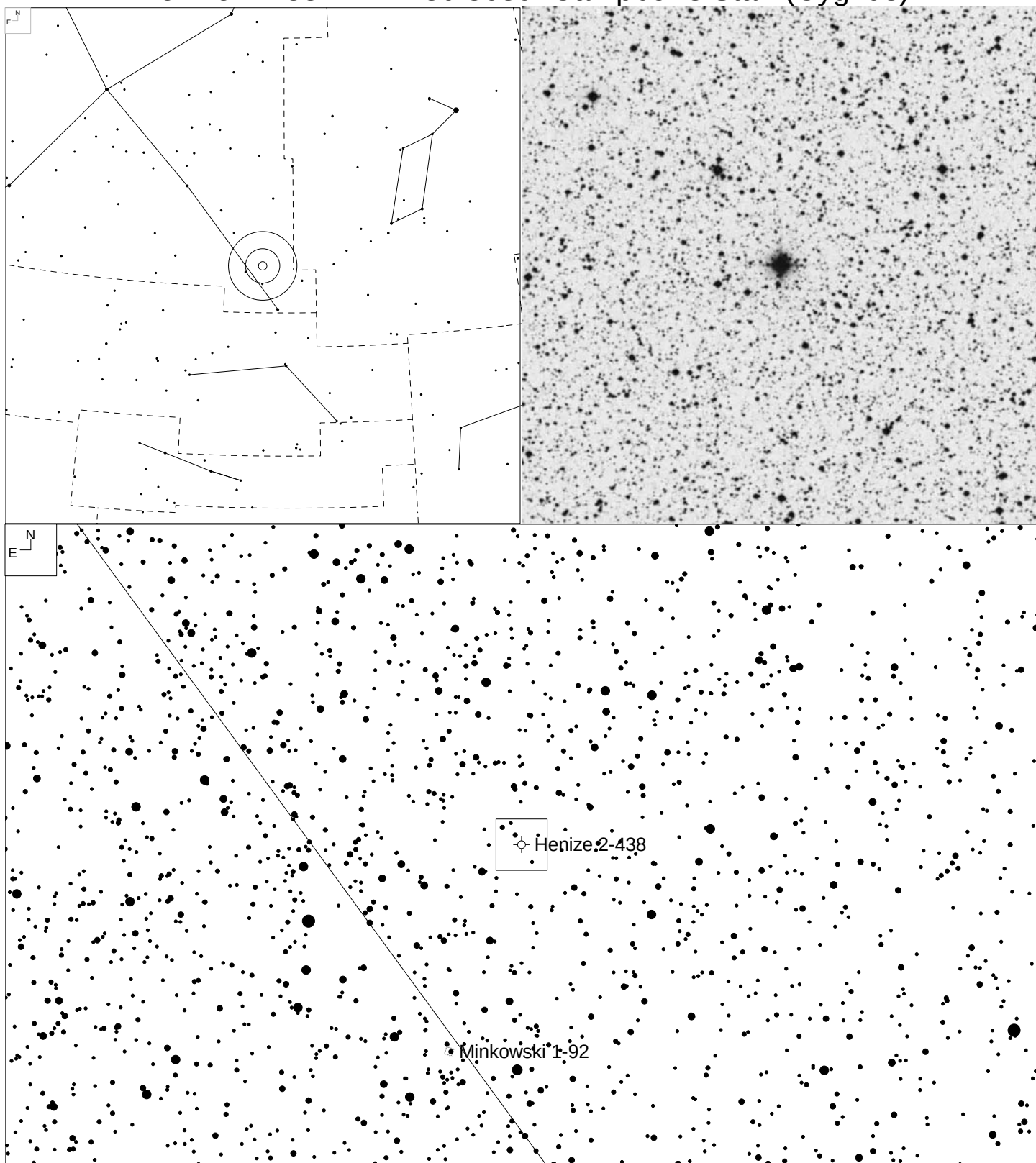
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 62+9.1	5	19 11 06.8	+30 32 39	13.1p 12.9v	16.0	38"

Kohoutek 3-27 (Lyra)



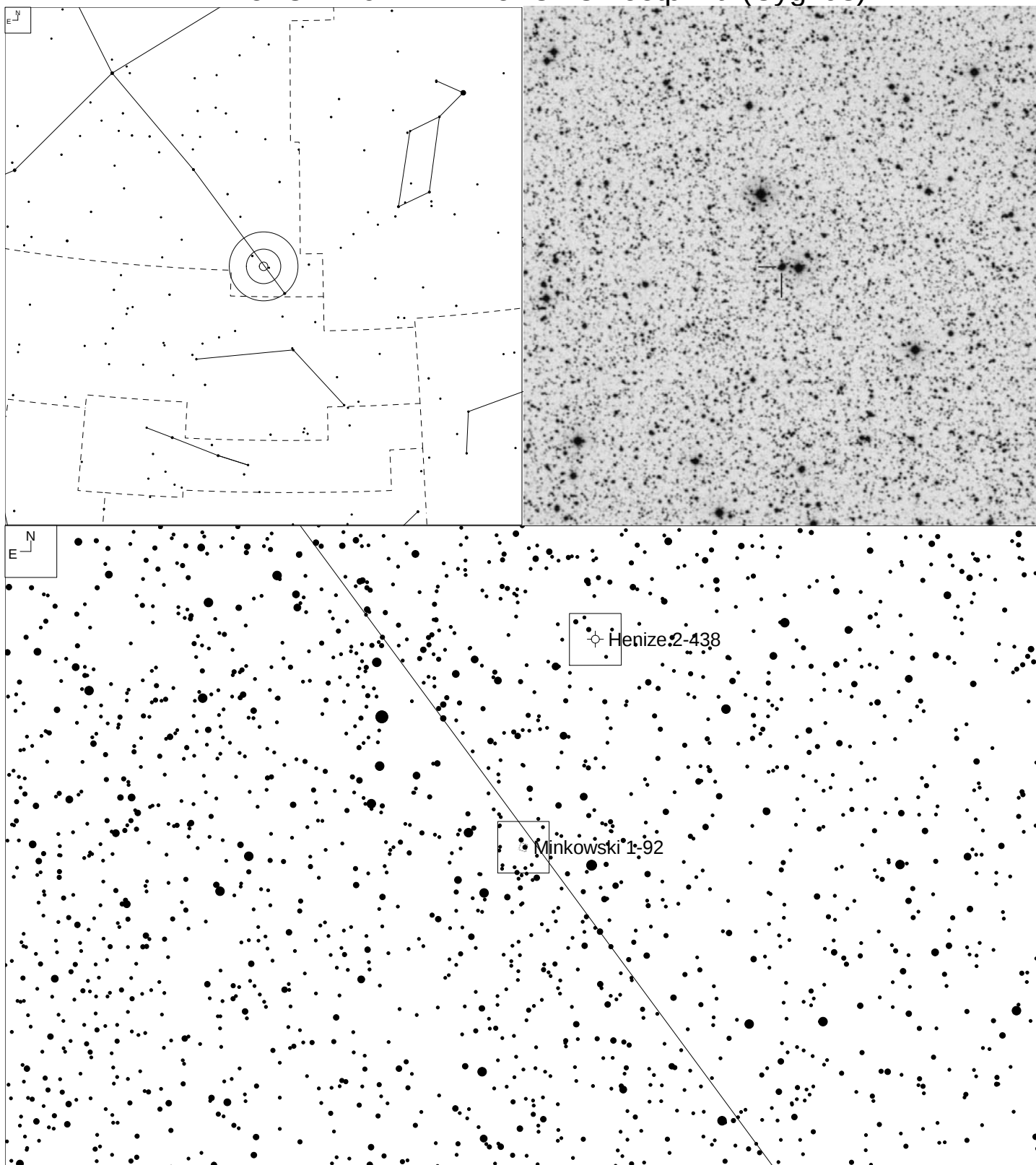
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 61+8.1	-	19 14 30.2	+28 40 43	14.9p	17.2	16"

Henize 2-438 = BD +30 3639 Campbell's Star (Cygnus)



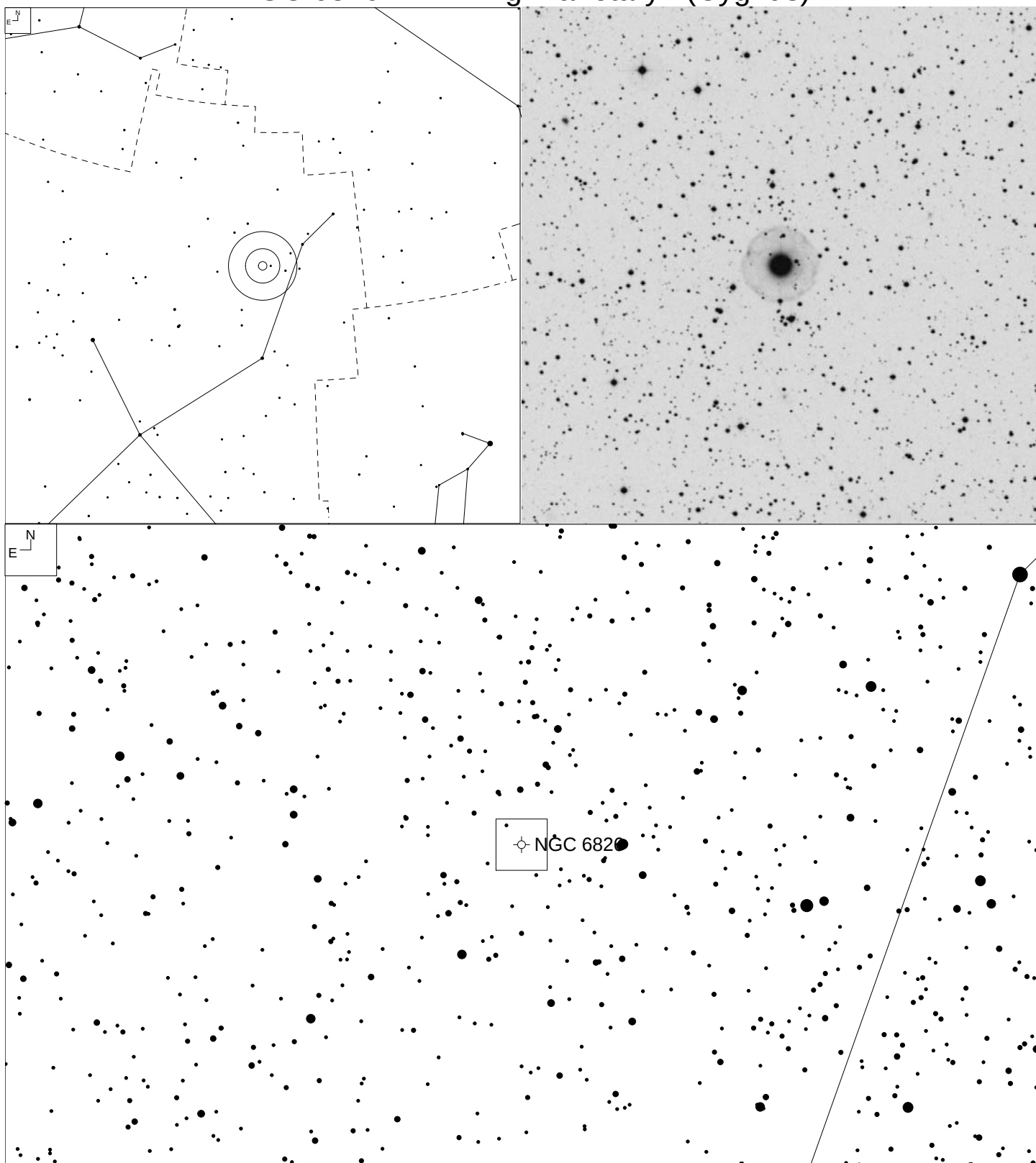
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 64+5.1	4	19 34 45.2	+30 31 01	9.6p 11.3v	10.0	3"

Minkowski 1-92 – Minkowski's Footprint (Cygnus)



Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	19 36 18.9	+29 32 51	11.7v	-	20 x 4"

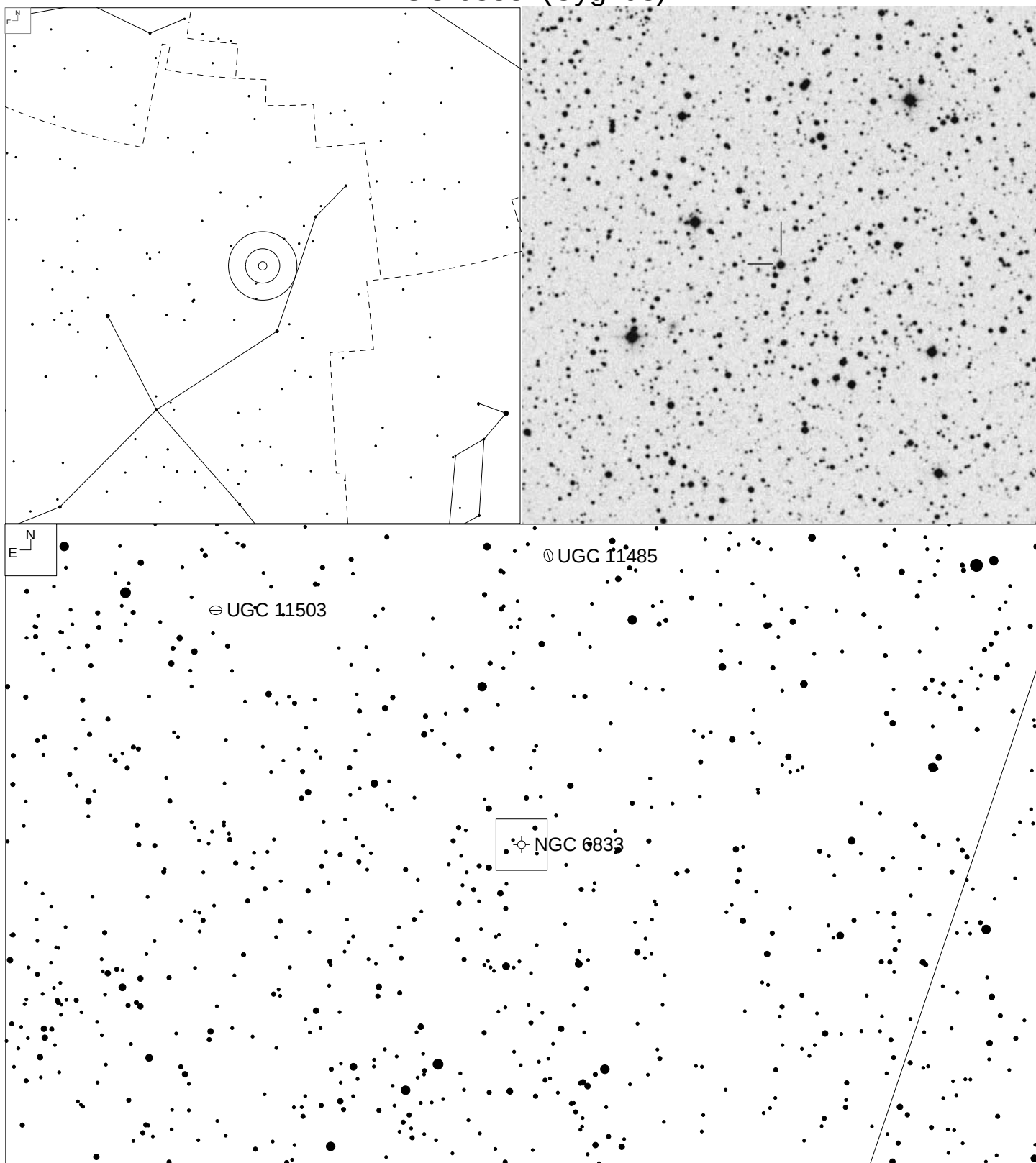
NGC 6826 – Blinking Planetary (Cygnus)



Extension has slight variations of brightness. More prominent on east side.

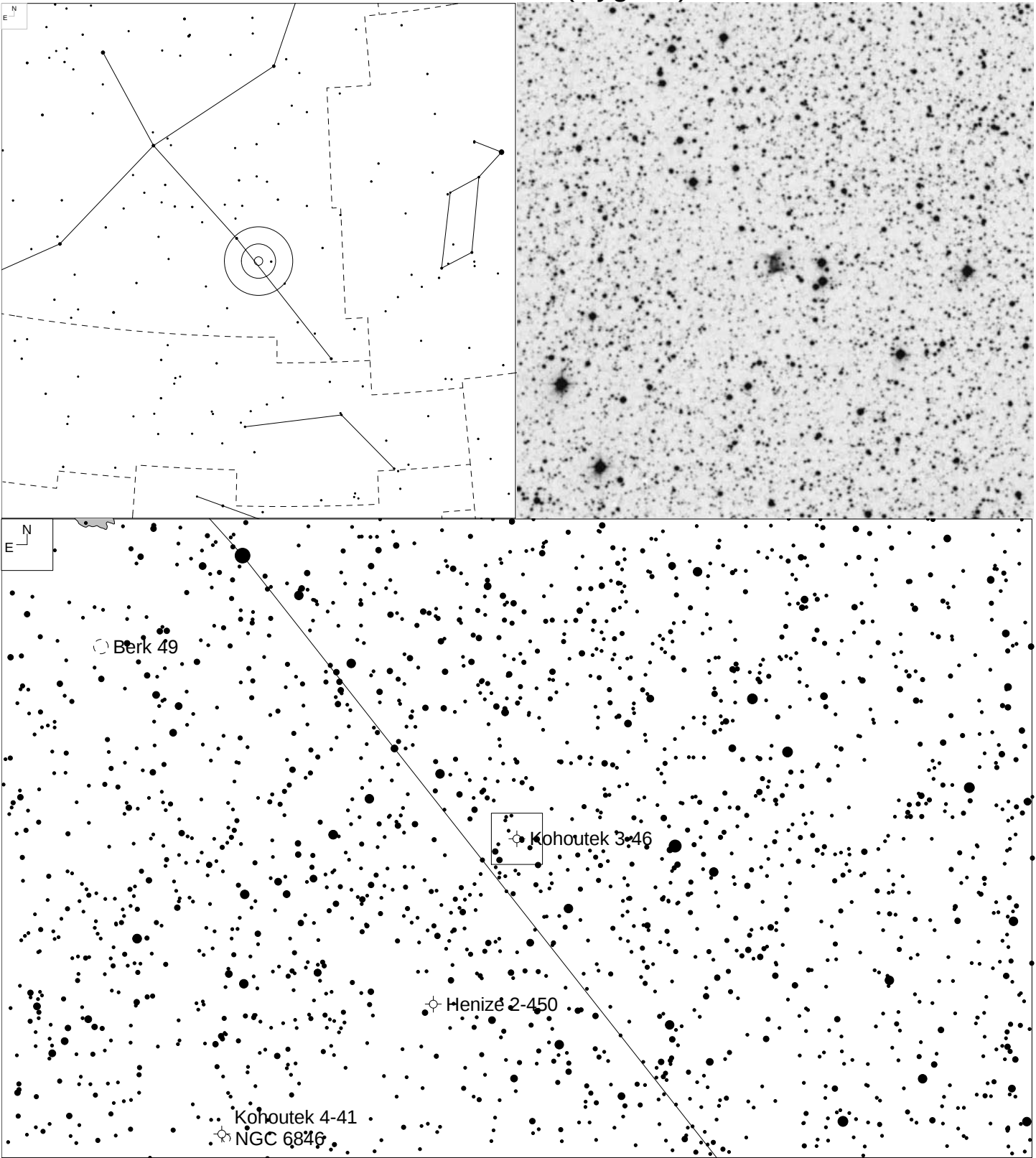
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 83+12.1	3a+2	19 44 48.2	+50 31 31	9.8p 8.8v	10.6	38"

NGC 6833 (Cygnus)



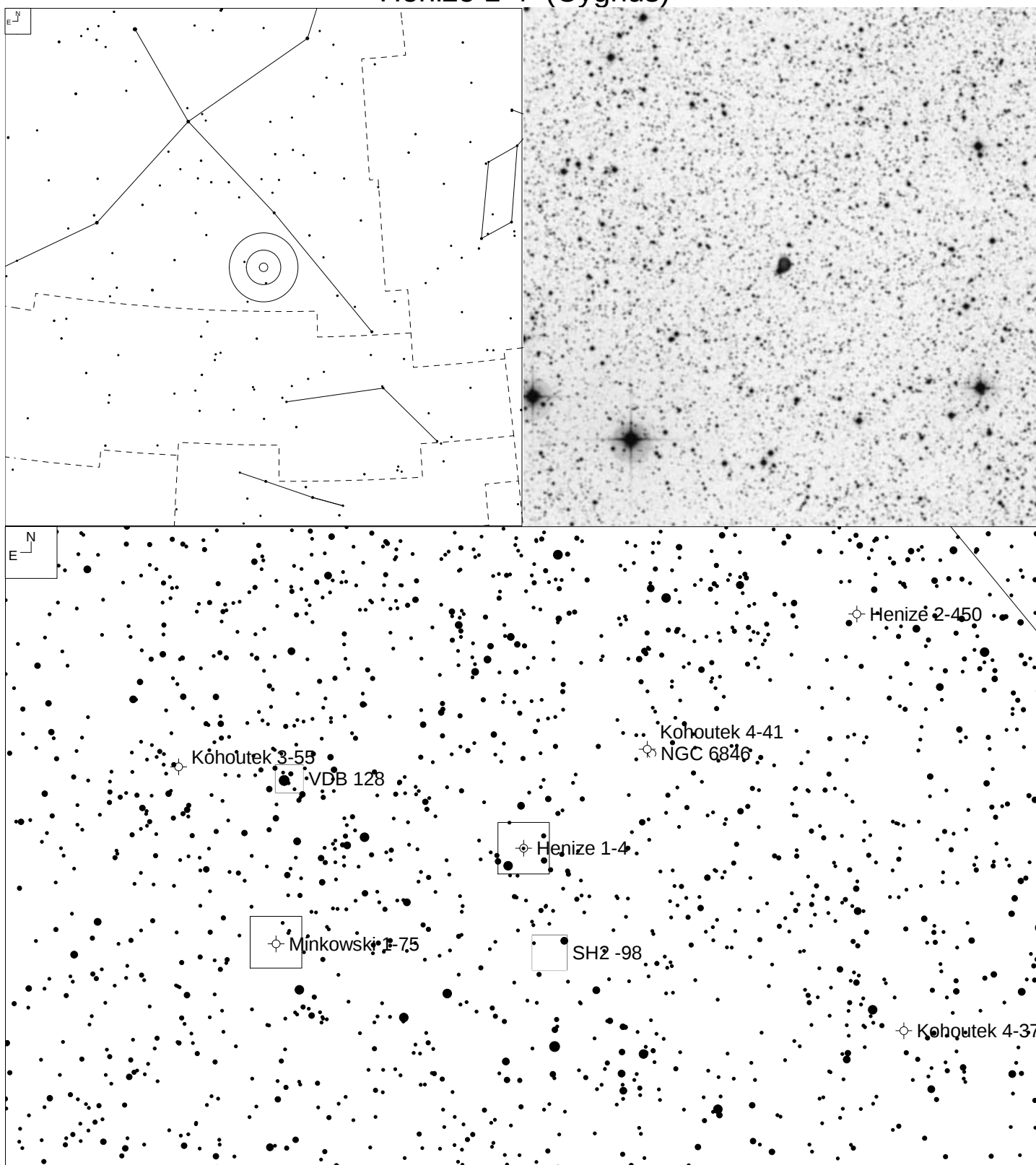
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 82+11.1	2	19 49 46.7	+48 57 38	13.8p 12.1v	14.8	2"

Kohoutek 3-46 (Cygnus)



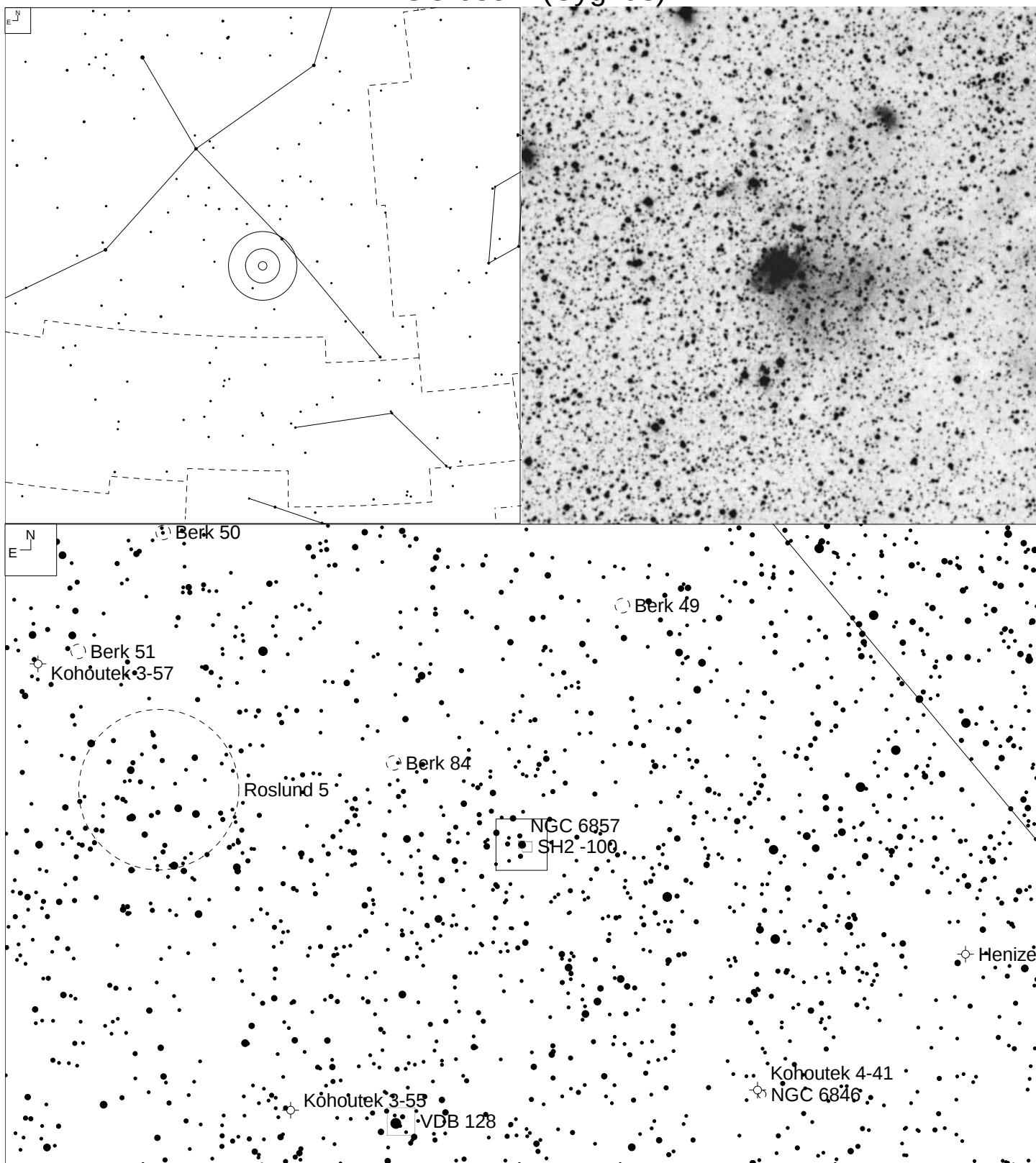
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 69+3.1	3b+6	19 50 00.3	+33 45 53	16.4p	14.8	32x17"

Henize 1-4 (Cygnus)



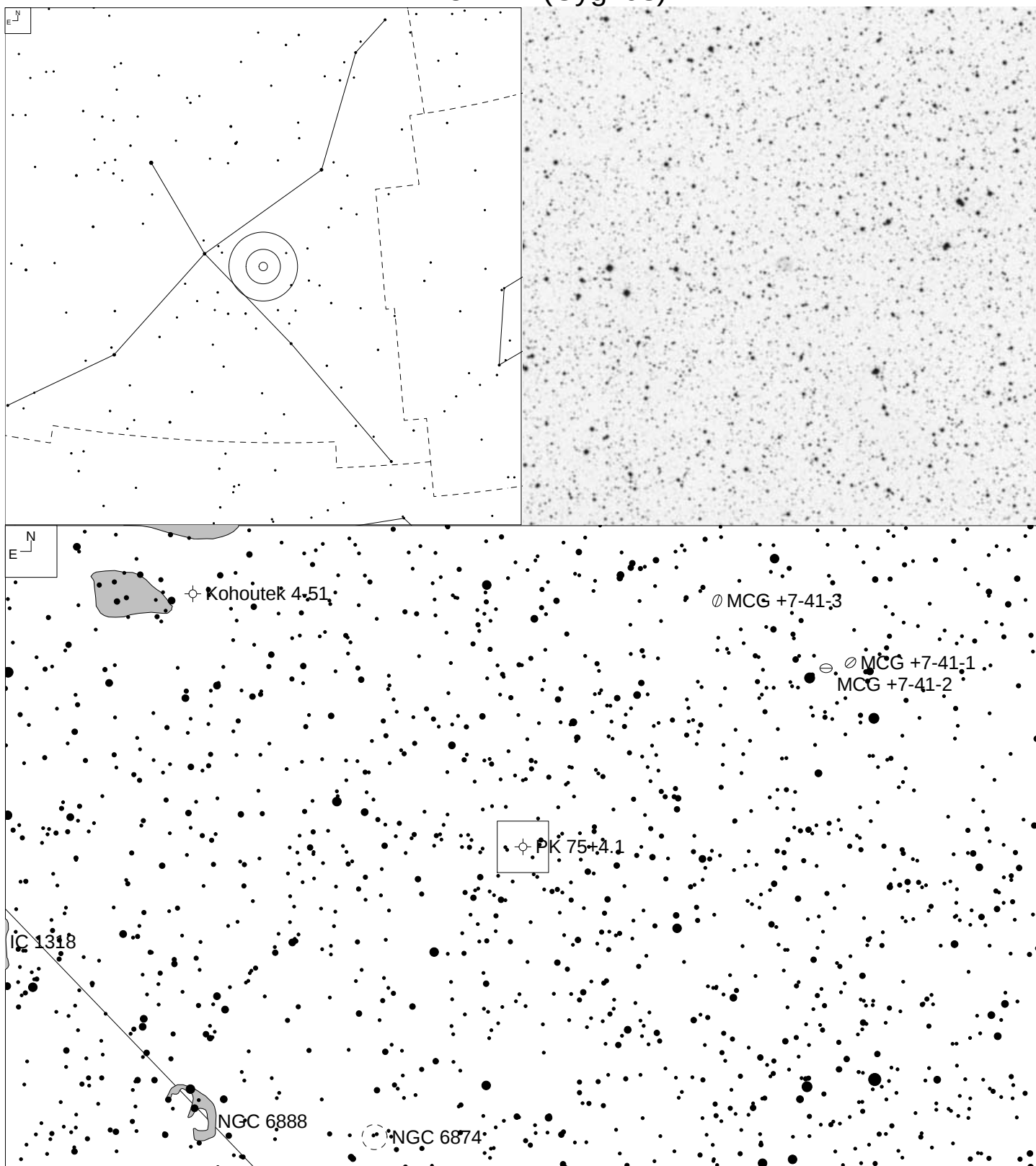
Other ID	Type	RA	Dec	Mag	* Mag	Size
Henize 2-453	3b	19 59 18.5	+31 54 34	14.1	21.1	22"
PK 68+1.2						

NGC 6857 (Cygnus)



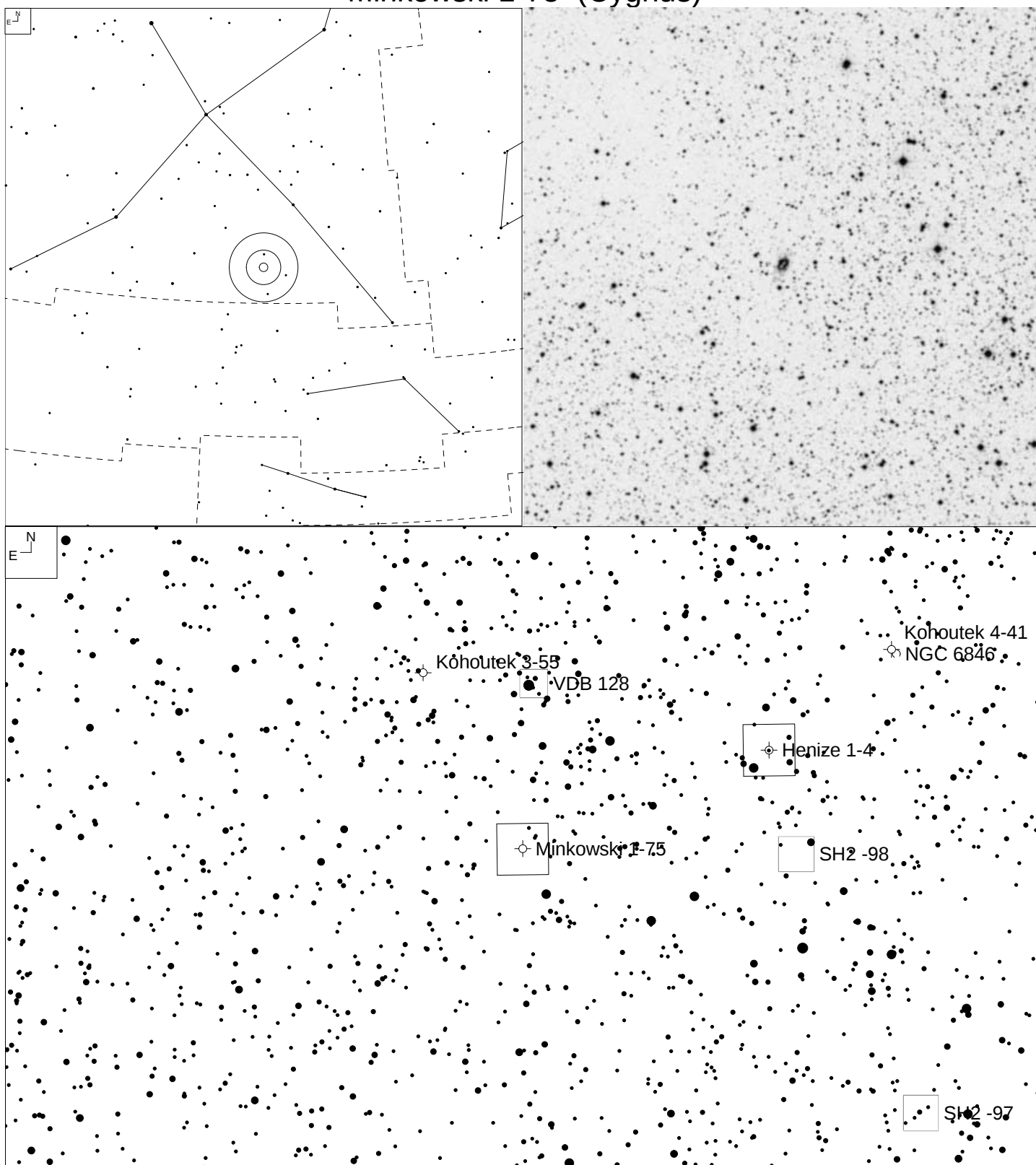
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 70+1.2	3+3	20 01 48.7	+33 31 32	11.4p	13.3	40"

PK 75+4.1 (Cygnus)



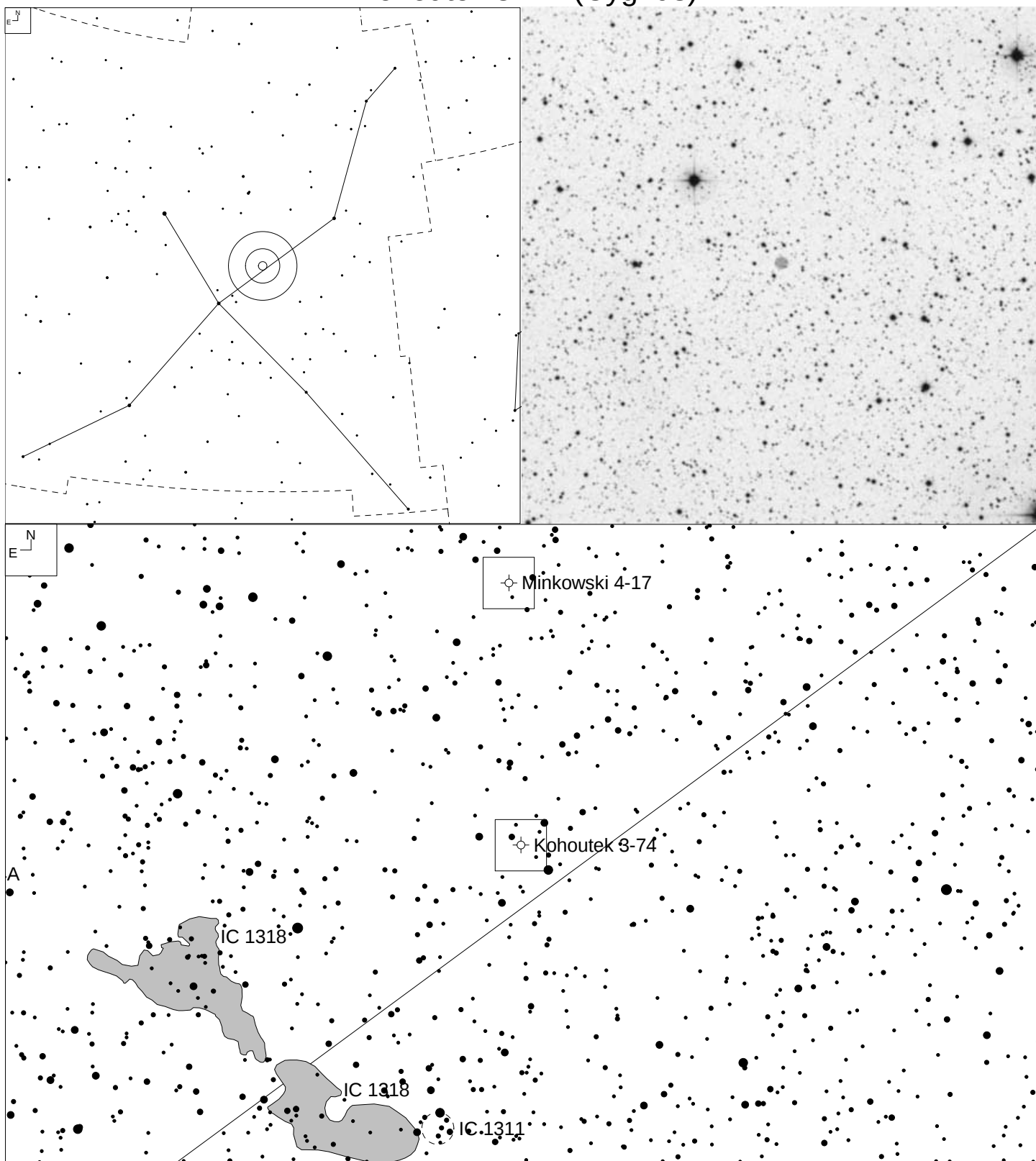
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	3b	20 04 16.4	+39 35 30	16.0	-	28"

Minkowski 1-75 (Cygnus)



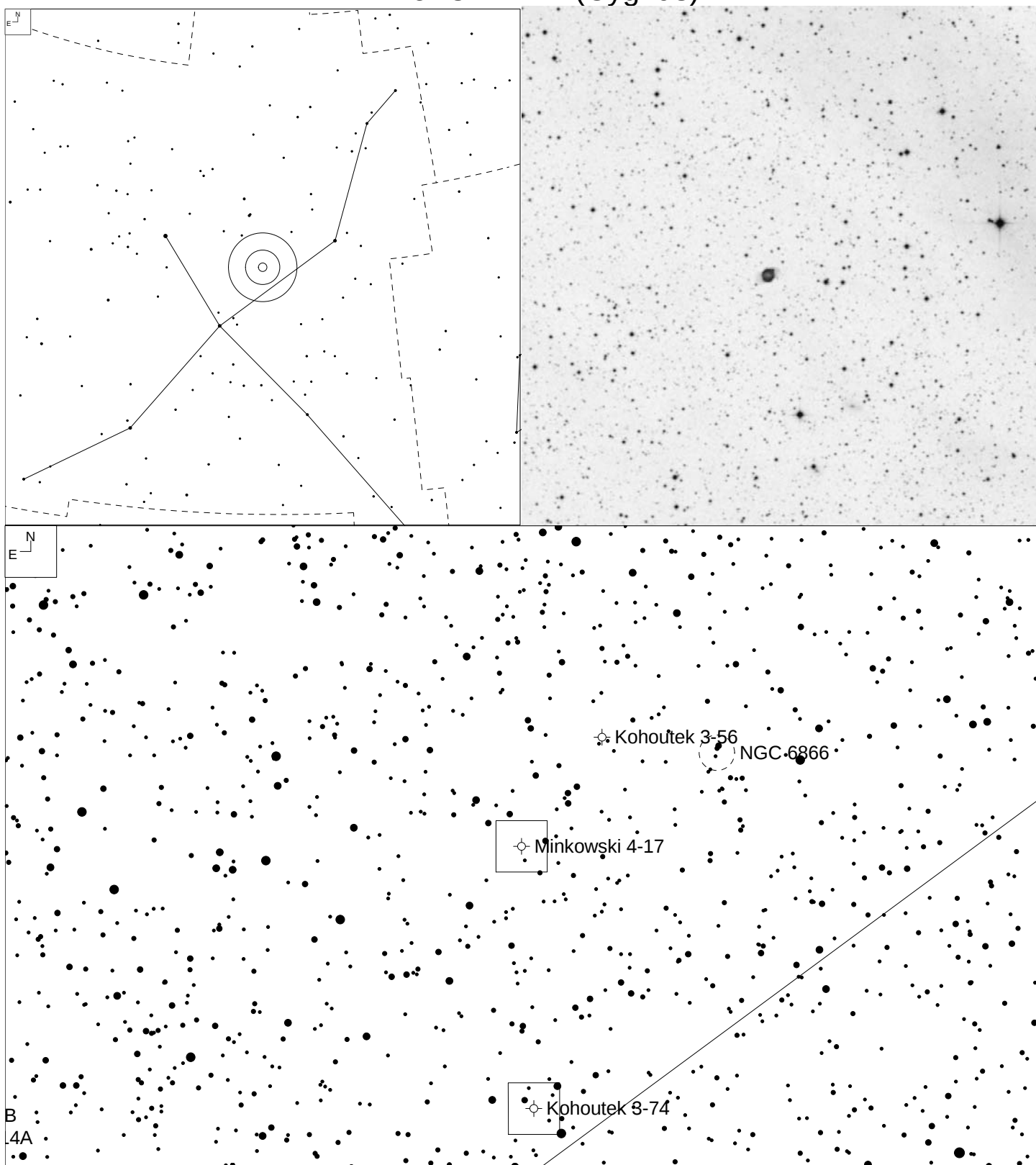
Other ID	Type	RA	Dec	Mag	* Mag	Size
Henize 2-454 PK 68-0.1	3b+6	20 04 44.1	+31 27 20	16.0v	21.0	42"

Kohoutek 3-74 (Cygnus)



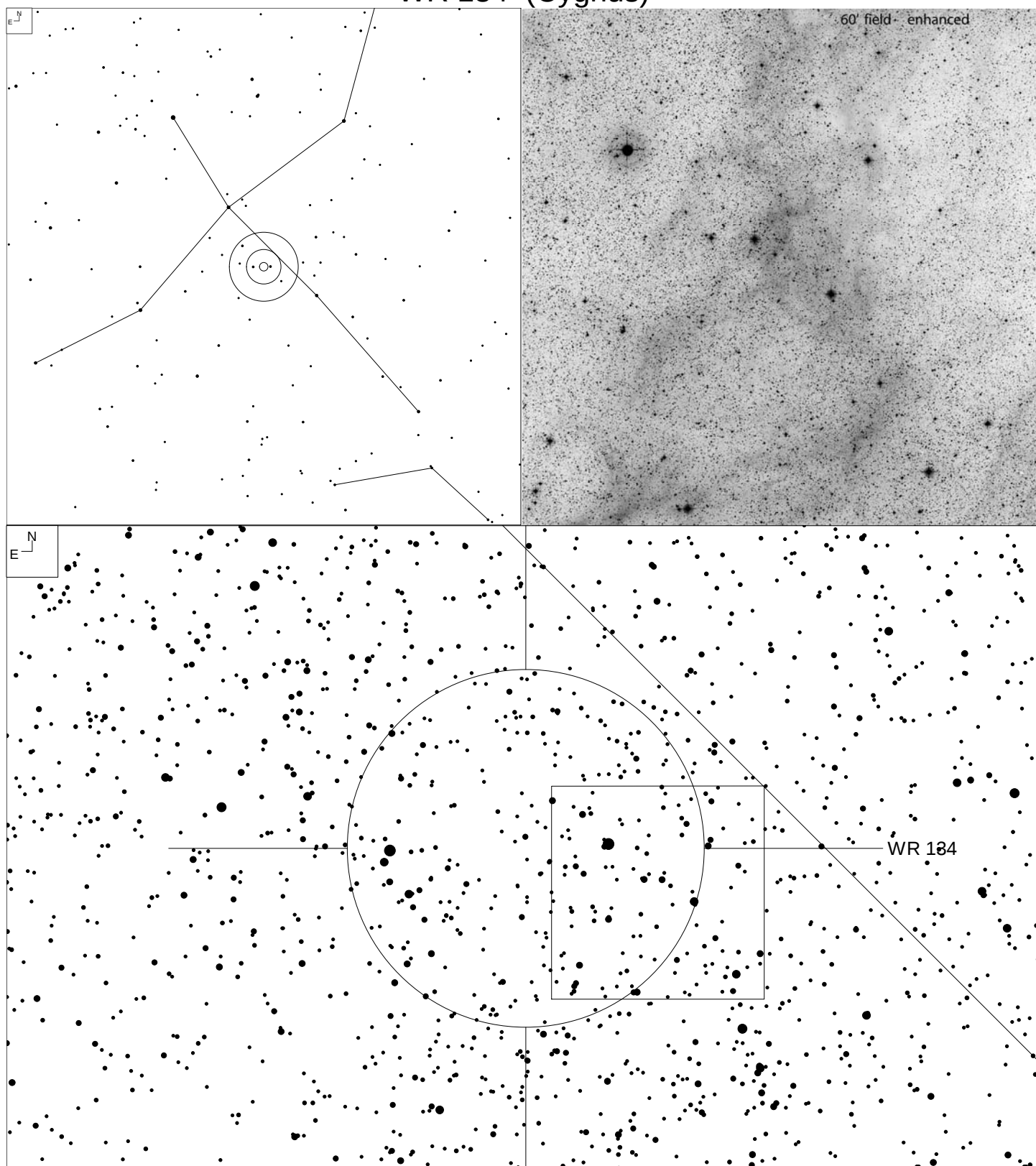
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 84+9.1	-	20 08 43.1	+42 30 05	16.1p	-	20"

Minkowski 4-17 (Cygnus)



Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 79+5.1	4+2	20 09 02.0	+43 43 42	14.5p 13.7v	-	23x21"

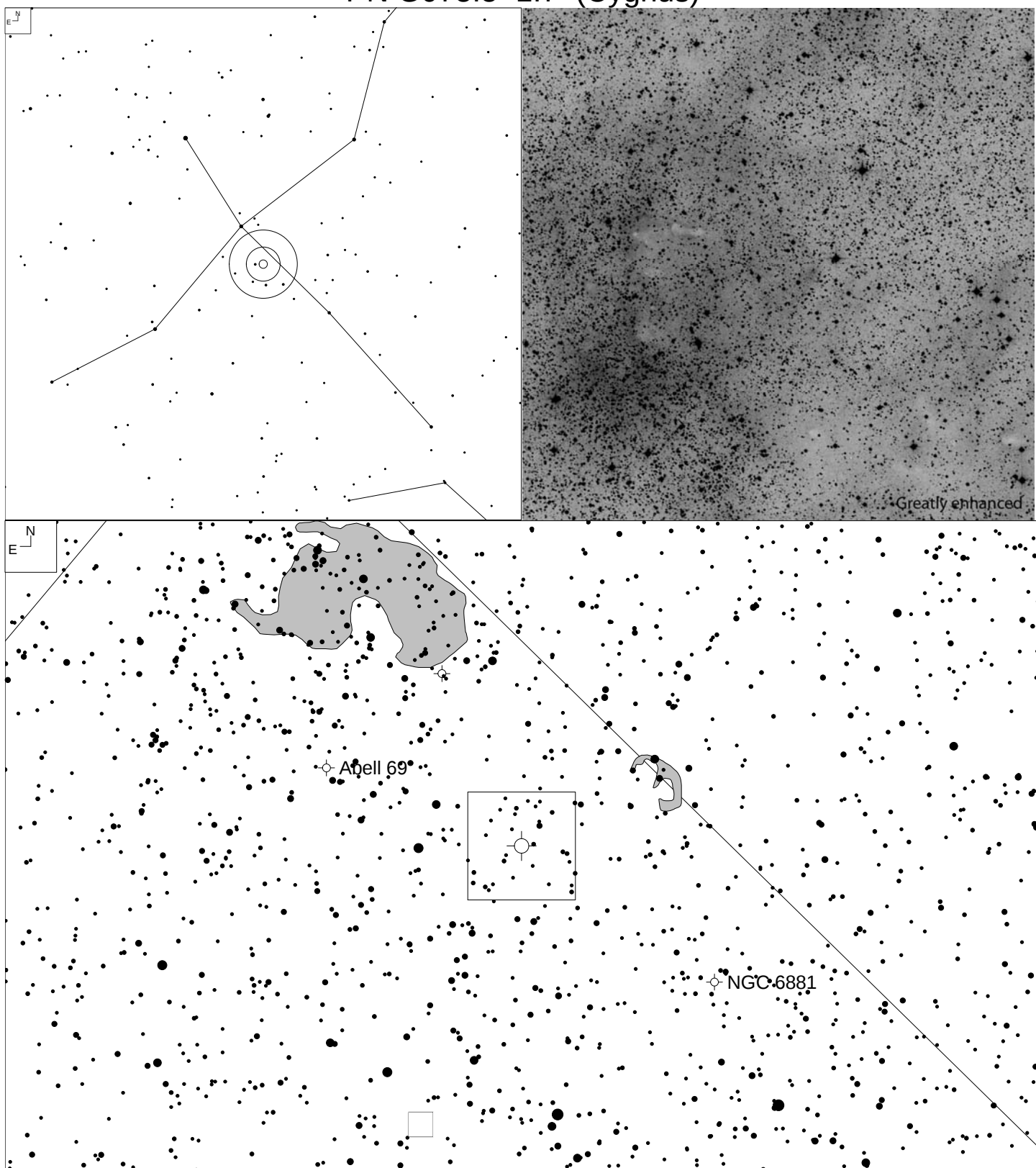
WR 134 (Cygnus)



Field shows the brightest part.

Other ID	Type	RA	Dec	Mag	* Mag	Size
		20 09.4	+36 08			

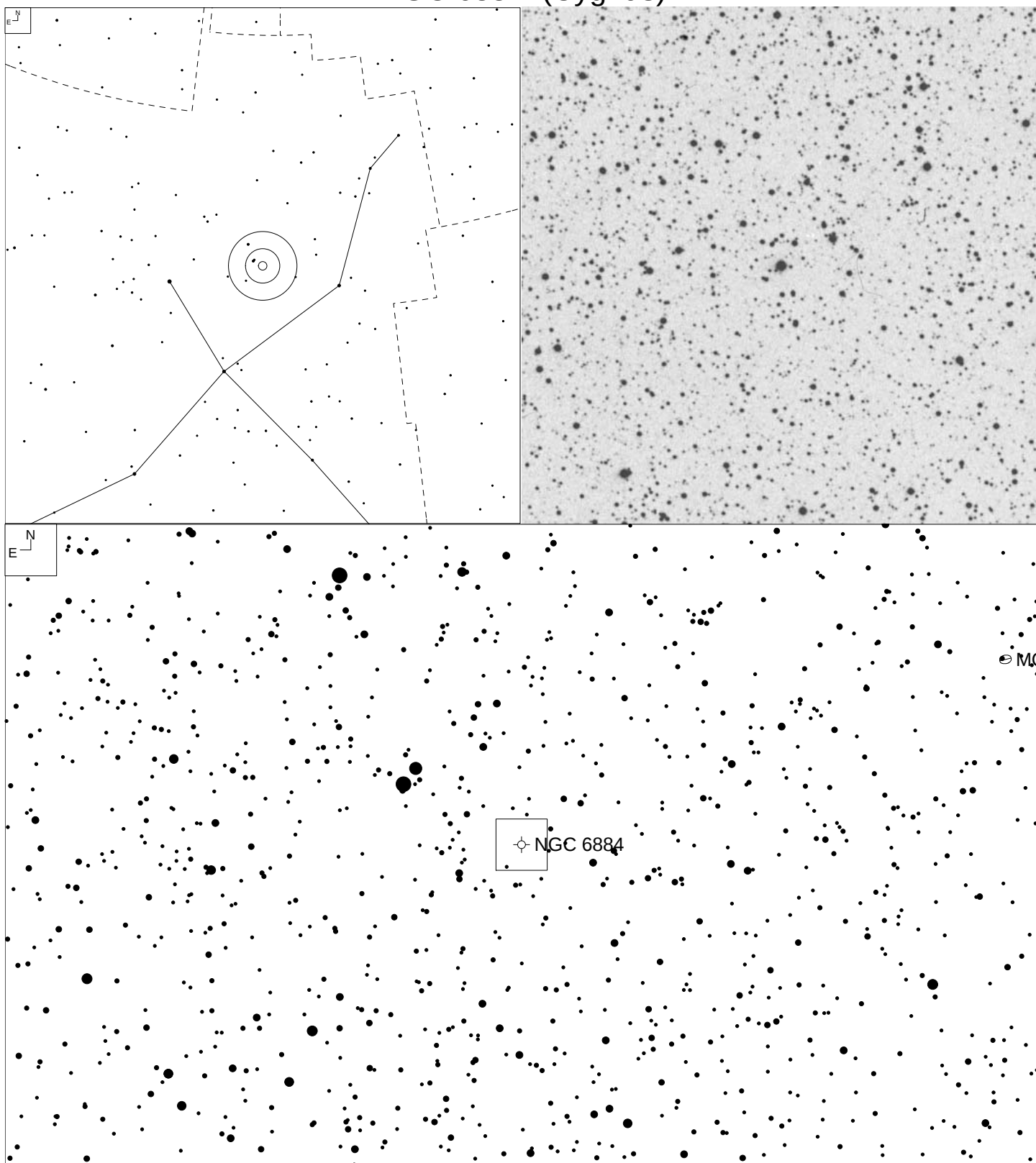
PN G075.5+1.7 (Cygnus)



Other ID	Type	RA	Dec	Mag	* Mag	Size
		20 15 22	+38 02 43	-	19	

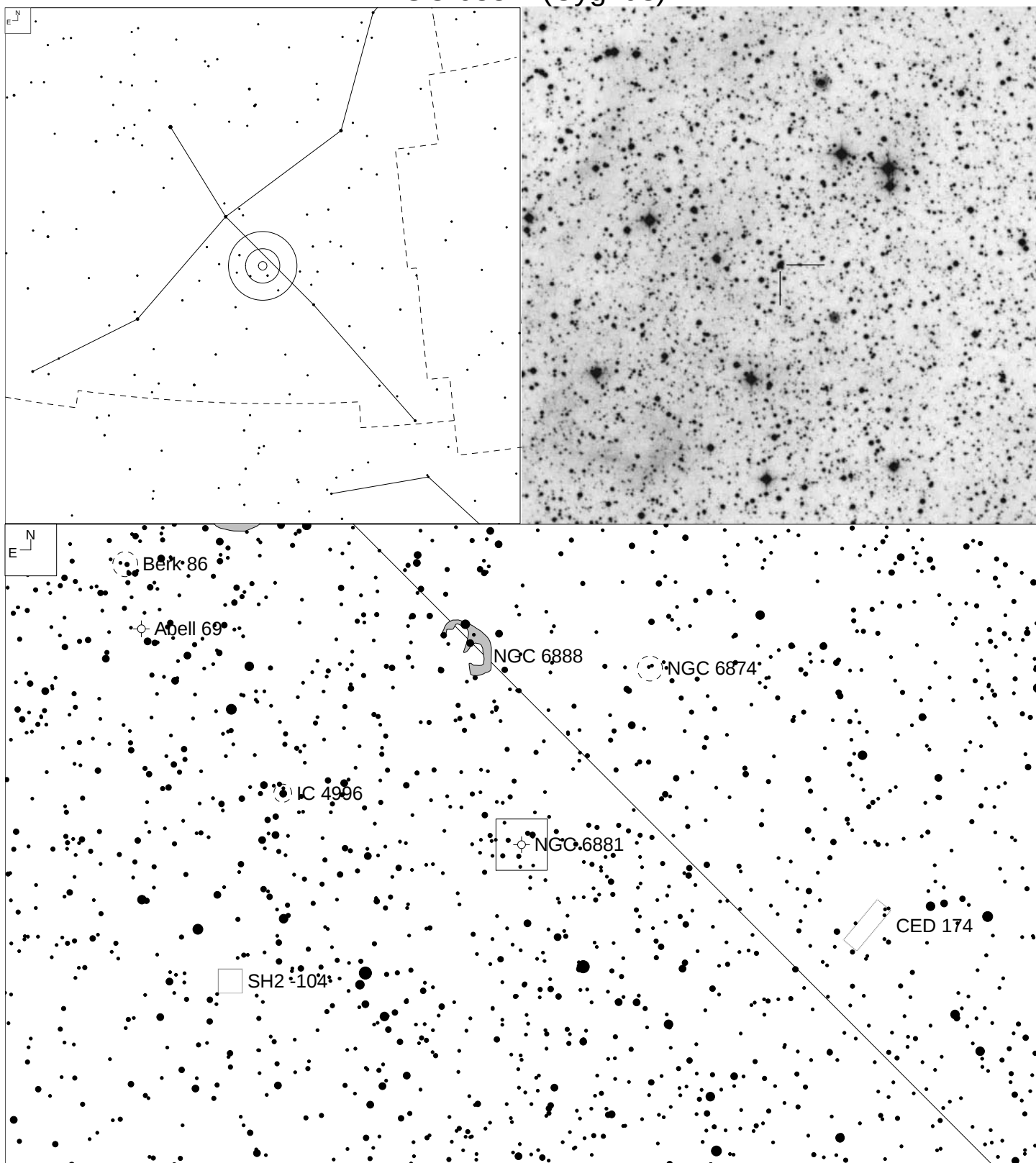
Newly discovered planetary by

NGC 6884 (Cygnus)



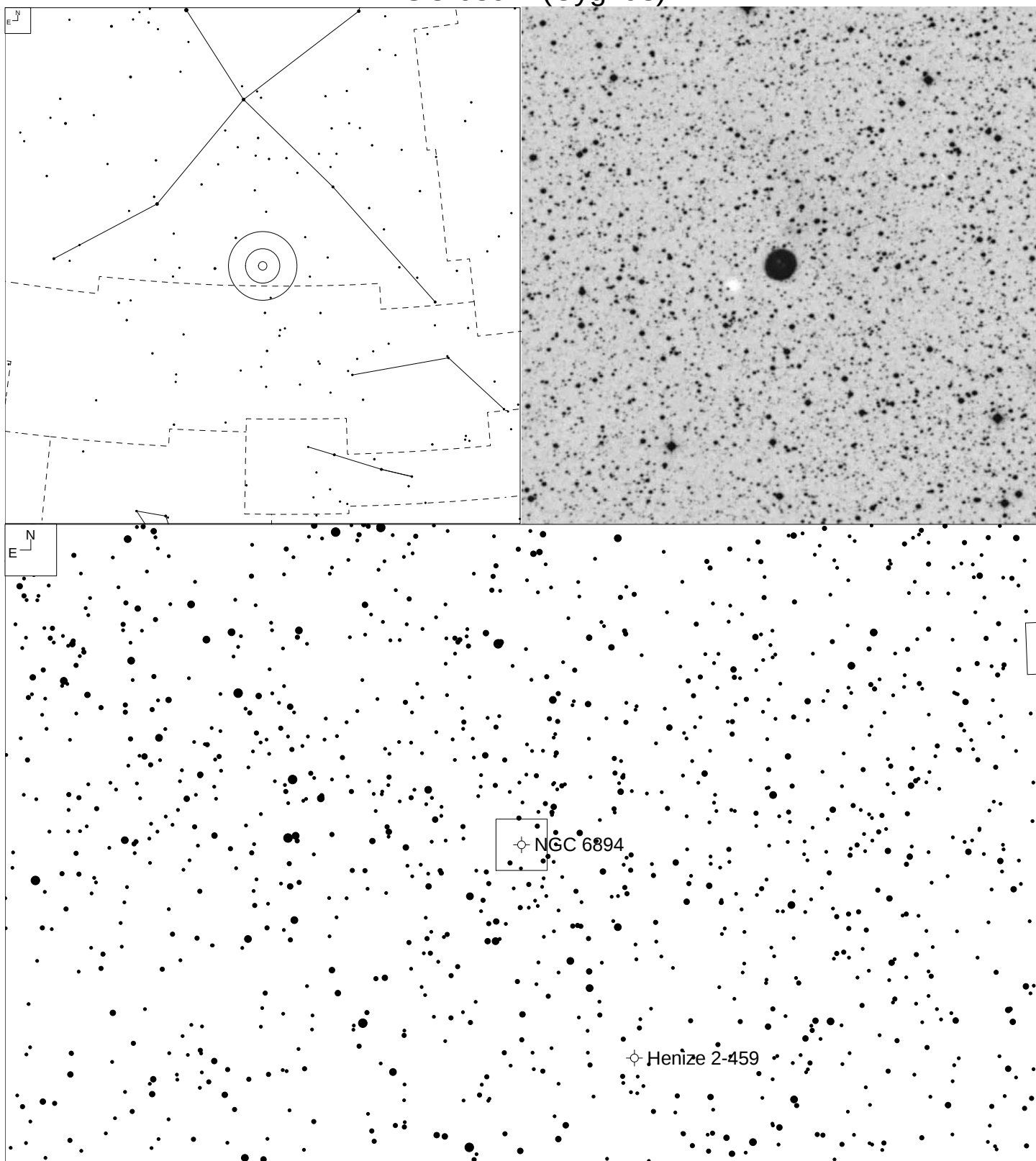
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 82+7.1	2b	20 10 23.8	+46 27 38	12.6p 10.9v	15.8	6"

NGC 6881 (Cygnus)



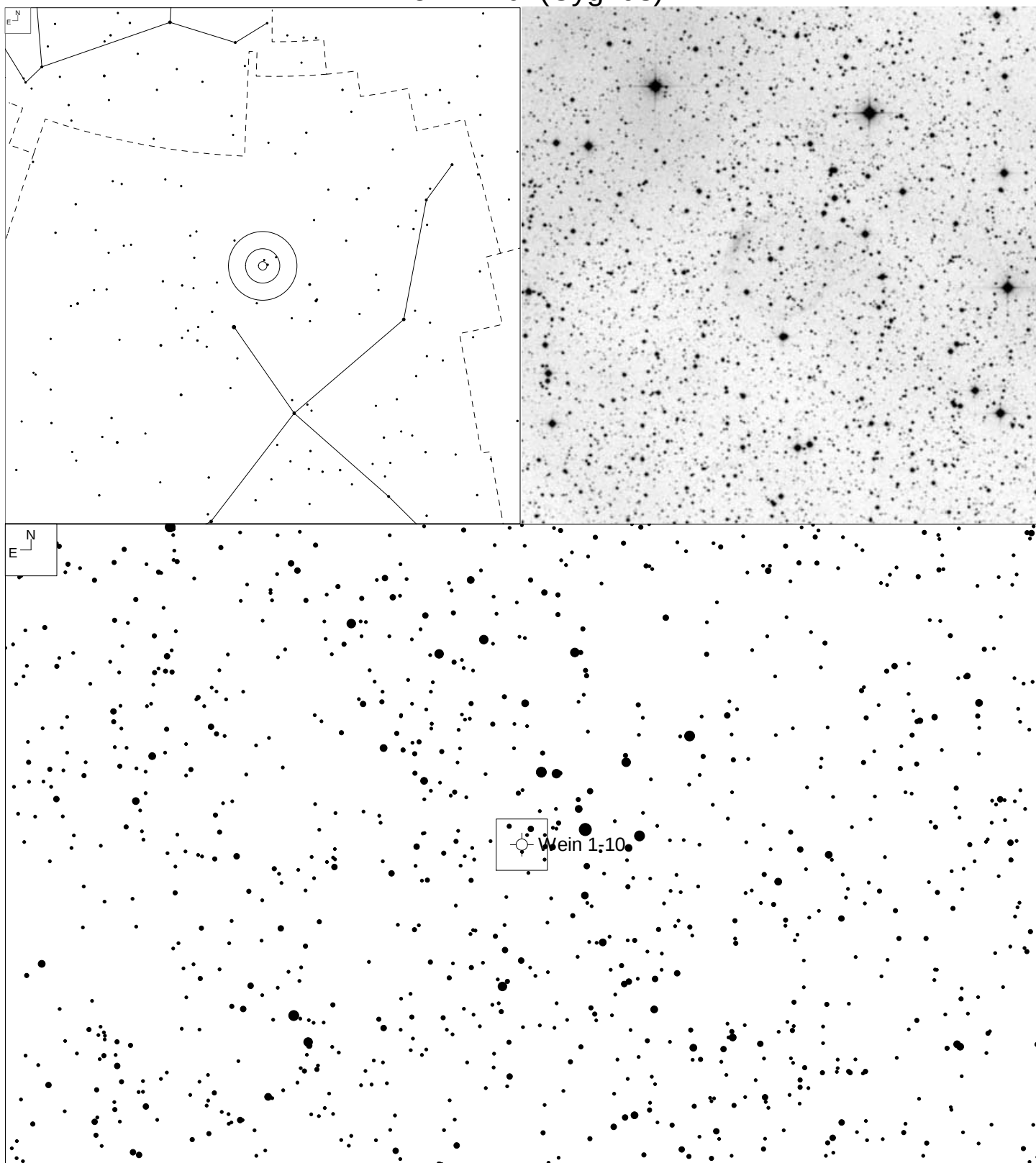
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 74+2.1	2b	20 10 52.5	+37 24 41	14.3p 13.9v	18.6	6"

NGC 6894 (Cygnus)



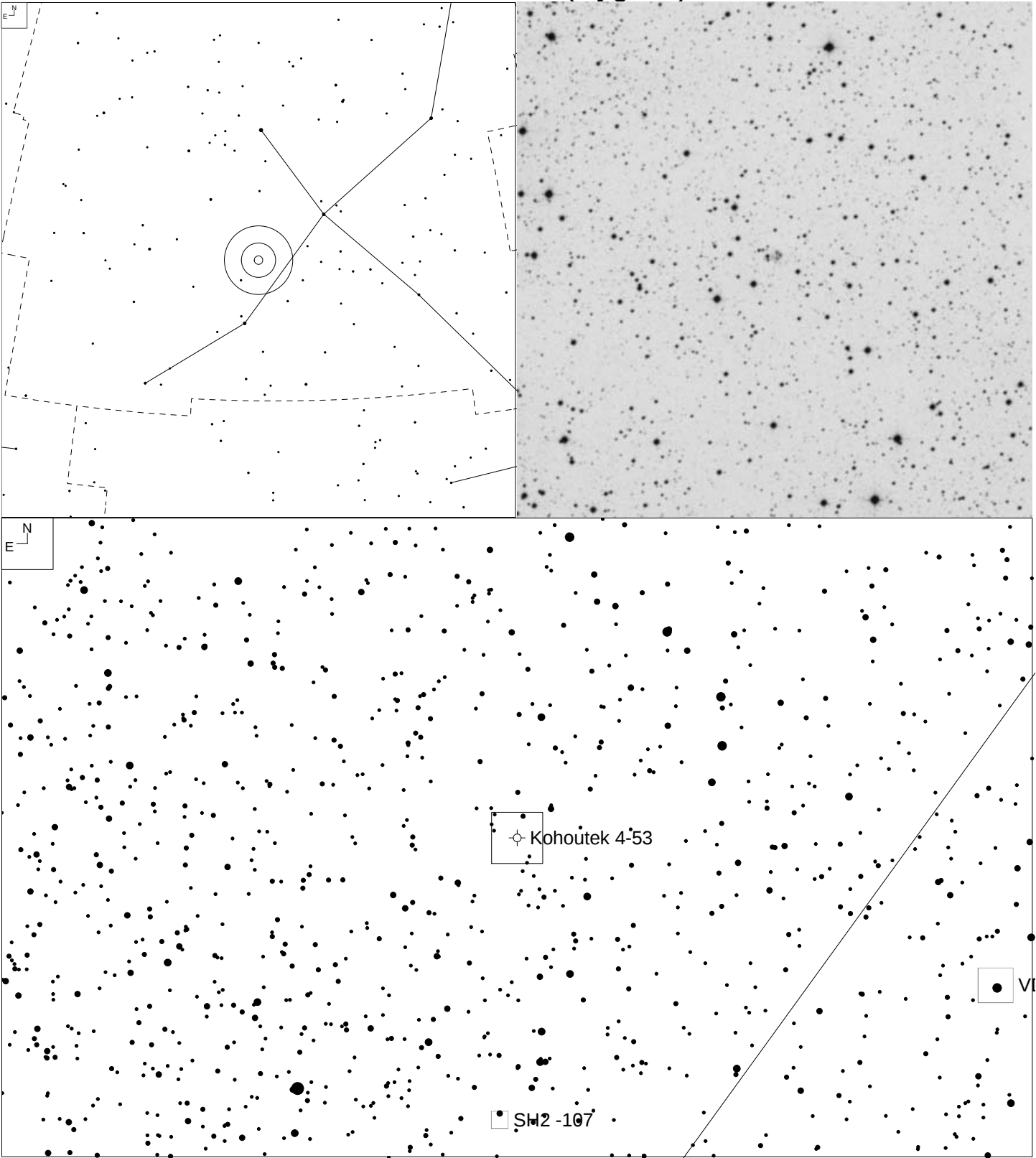
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 69-2.1	4+2	20 16 24.0	+30 33 51	14.4p 12.3v	17.6	55"

Wein 1-10 (Cygnus)



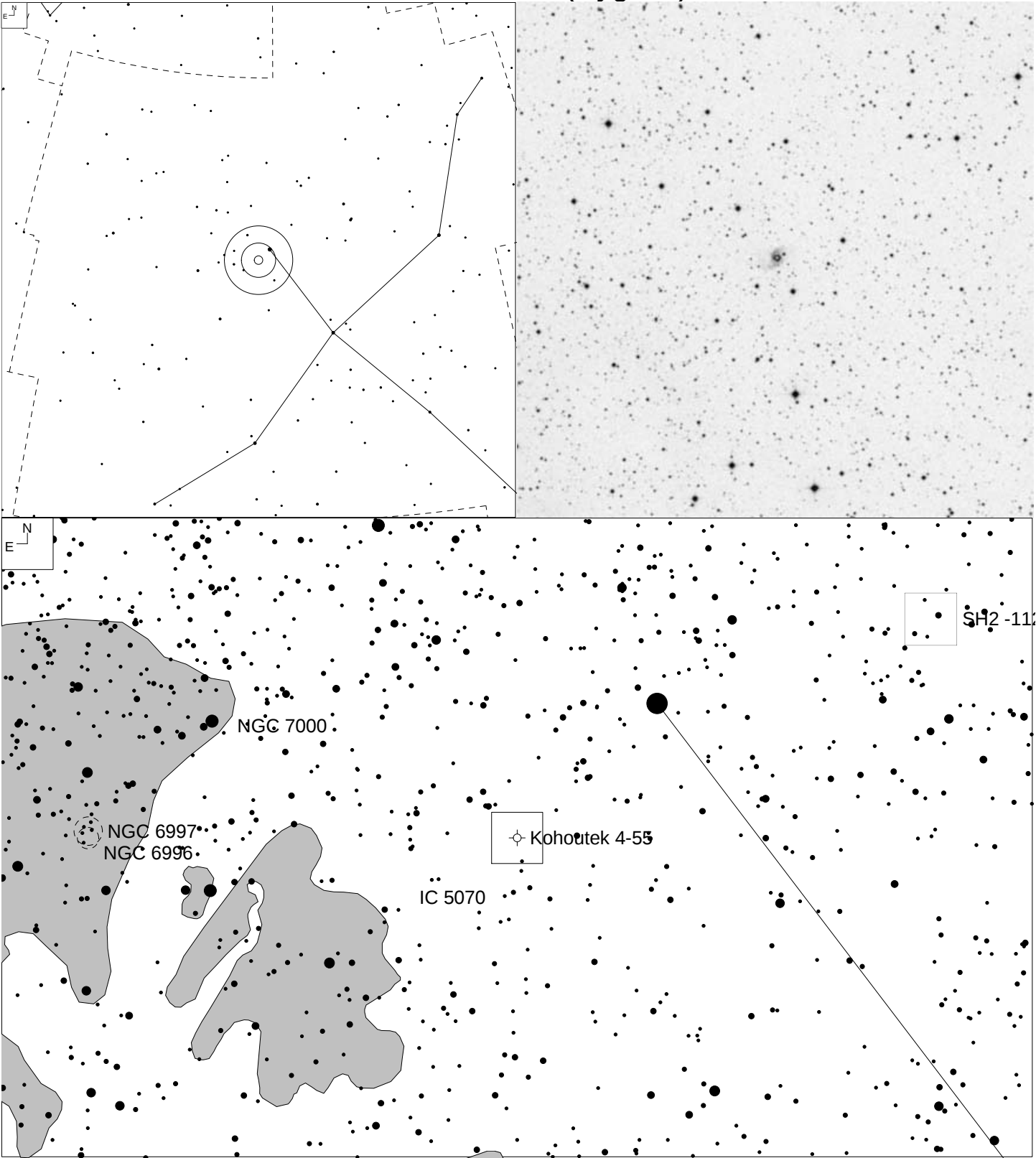
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 86+5.1	-	20 31 52.4	+48 52 51	15.1v	18.1	3.2'

Kohoutek 4-53 (Cygnus)



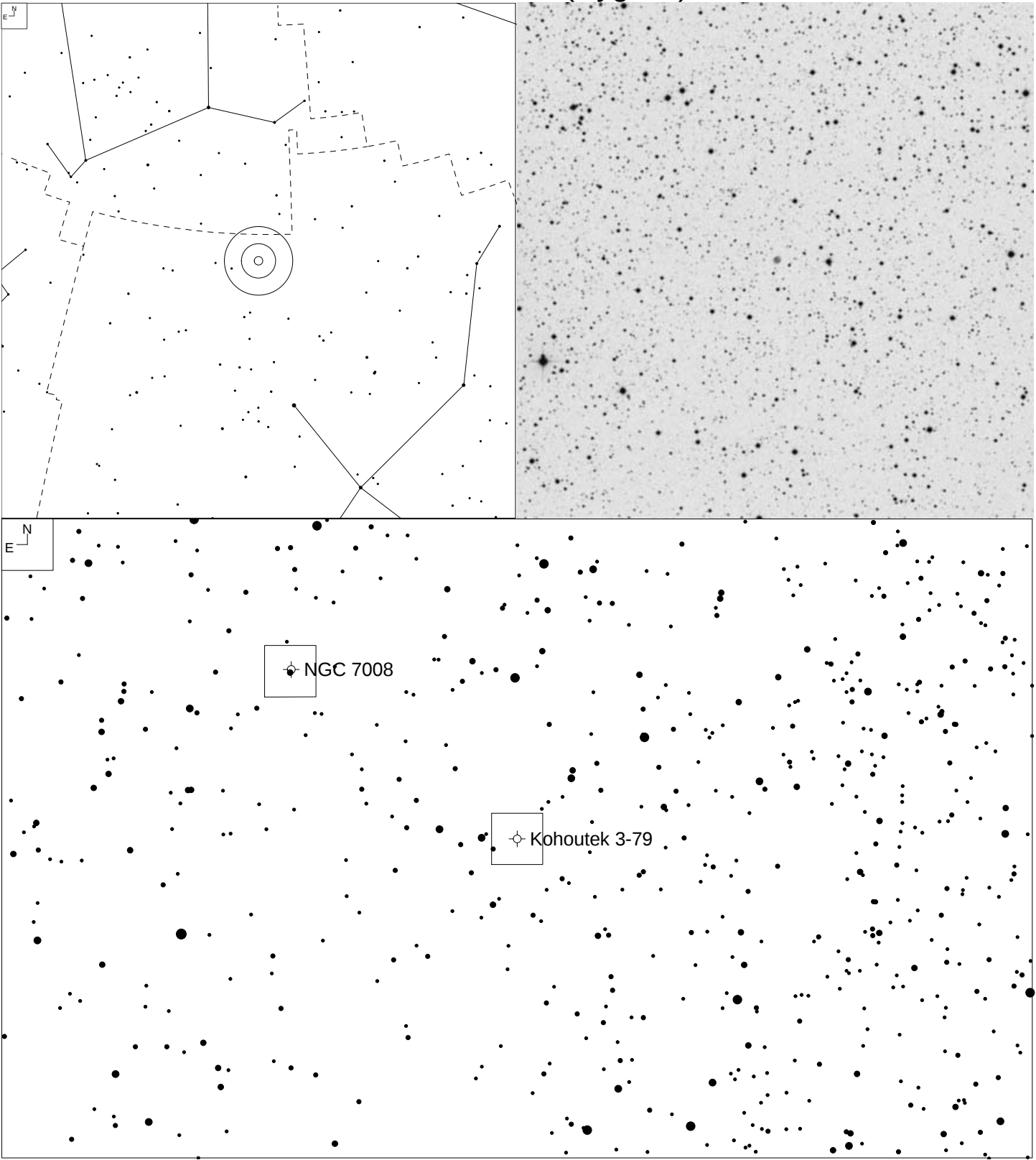
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 78.3-2.7	-	20 42 16.5	+37 40 22	16.0p	-	20"

Kohoutek 4-55 (Cygnus)



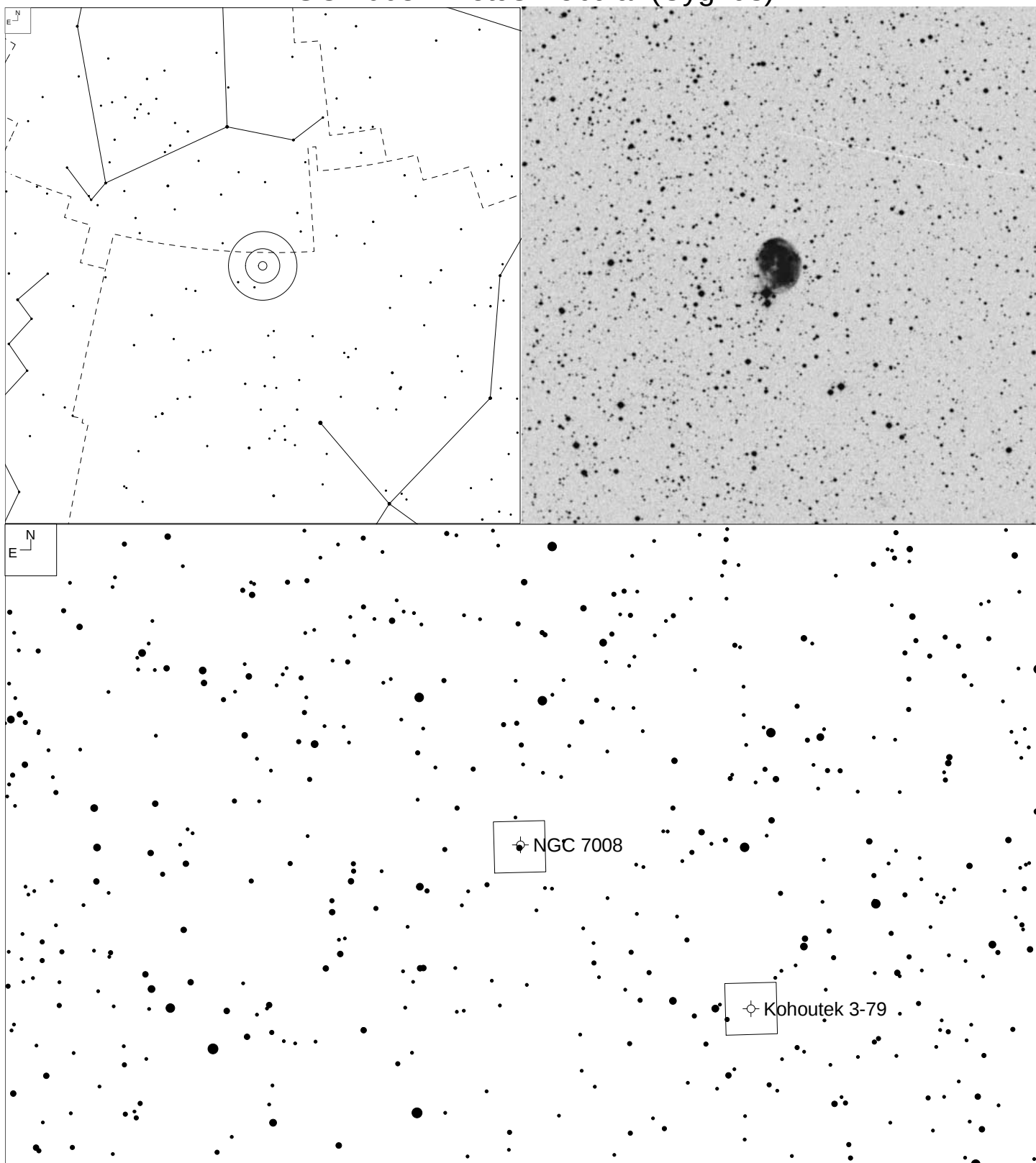
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 84+1.1	-	20 45 10.2	+44 39 10	-	-	27"

Kohoutek 3-79 (Cygnus)



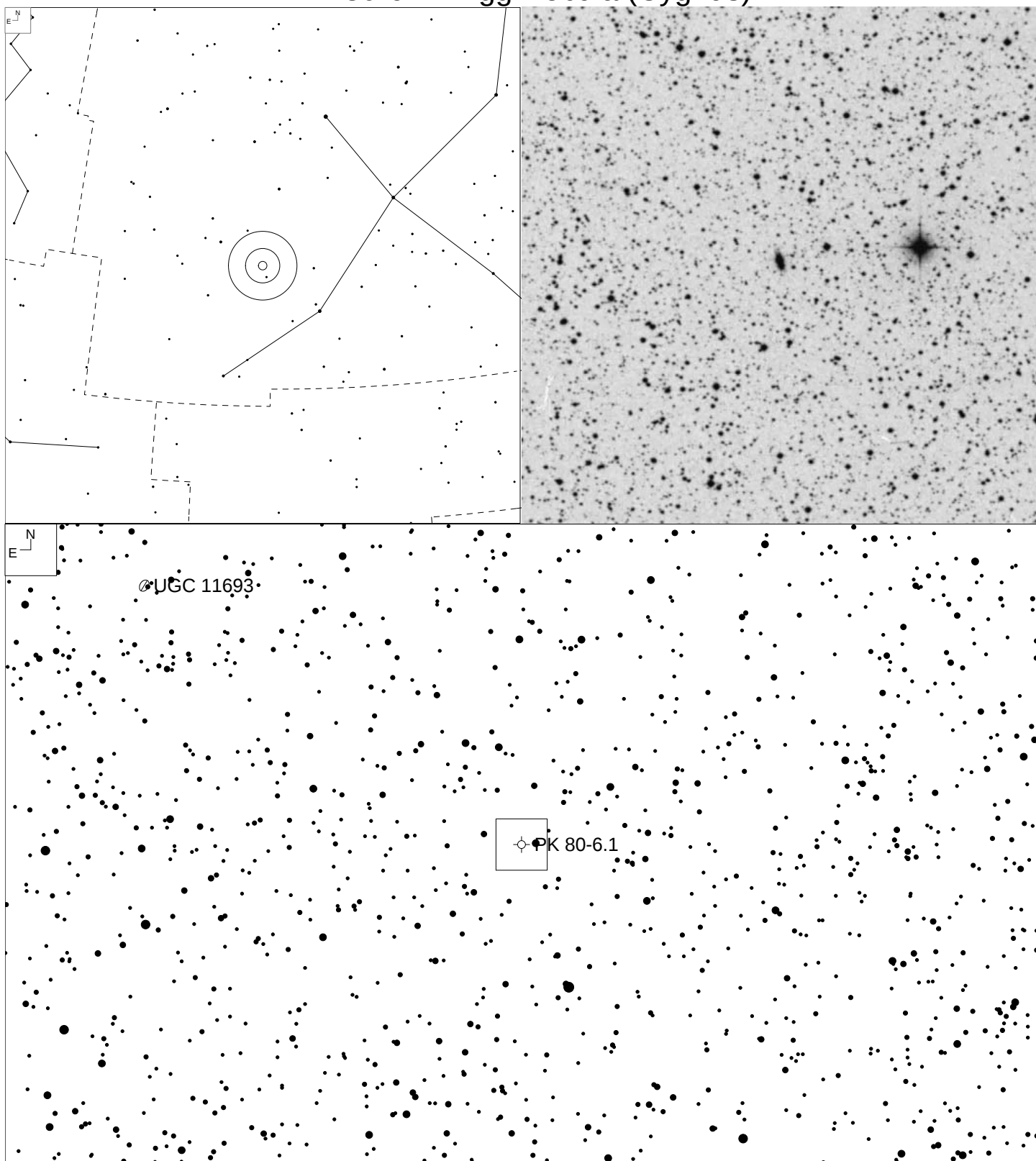
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 92+5.1	-	20 53 13.8	+53 45 42	17.8p	-	12"

NGC 7008 – Fetus Nebula (Cygnus)



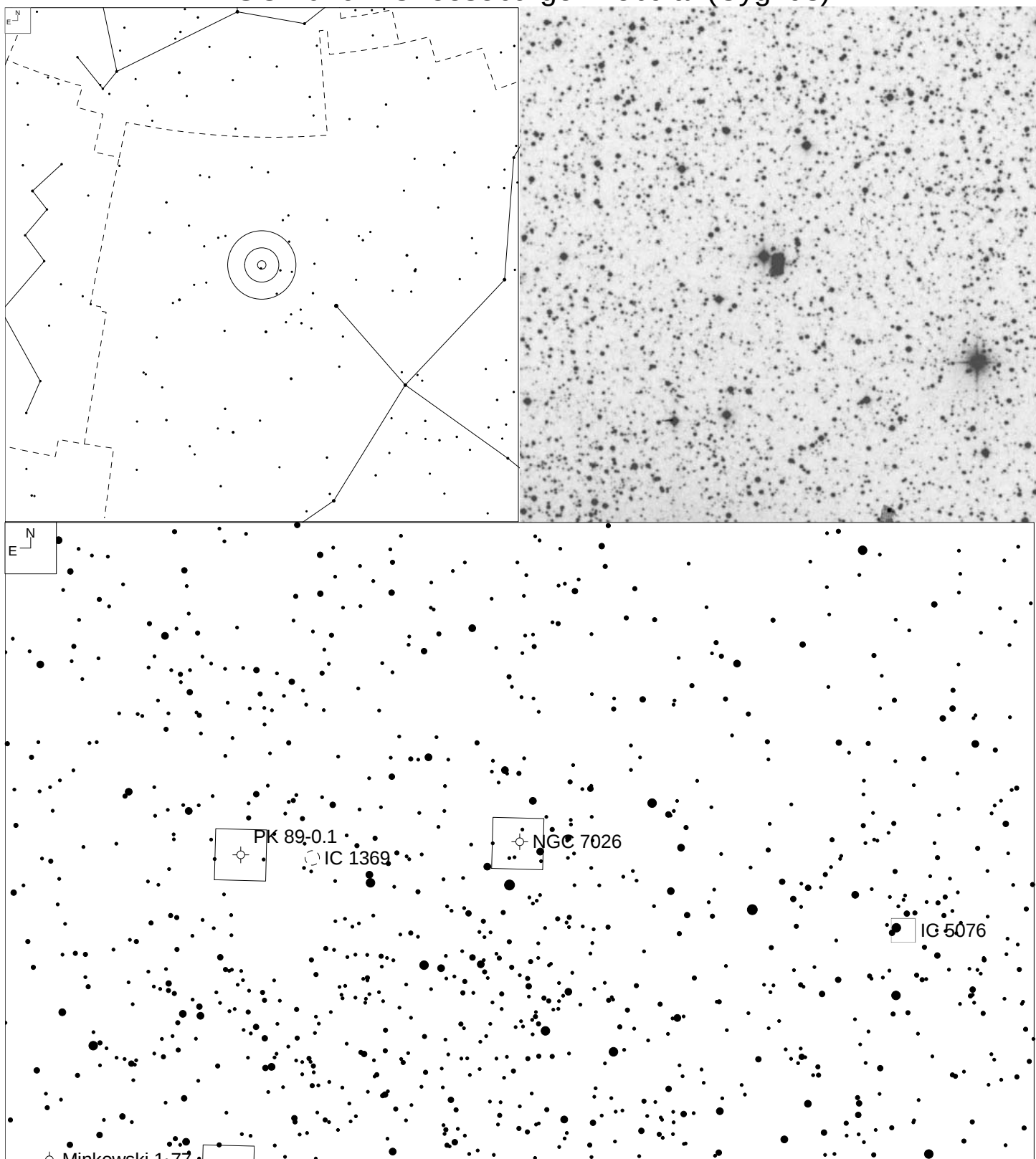
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 93+5.2	3	21 00 33.1	+54 32 32	13.3p 10.7v	13.2	86x69"

PK 80-6.1 - Egg Nebula (Cygnus)



Other ID	Type	RA	Dec	Mag	* Mag	Size
CRL 2688	Proto	21 02 18.7	+36 41 40	13.5p	-	1.0 x 0.5'

NGC 7026 – Cheeseburger Nebula (Cygnus)

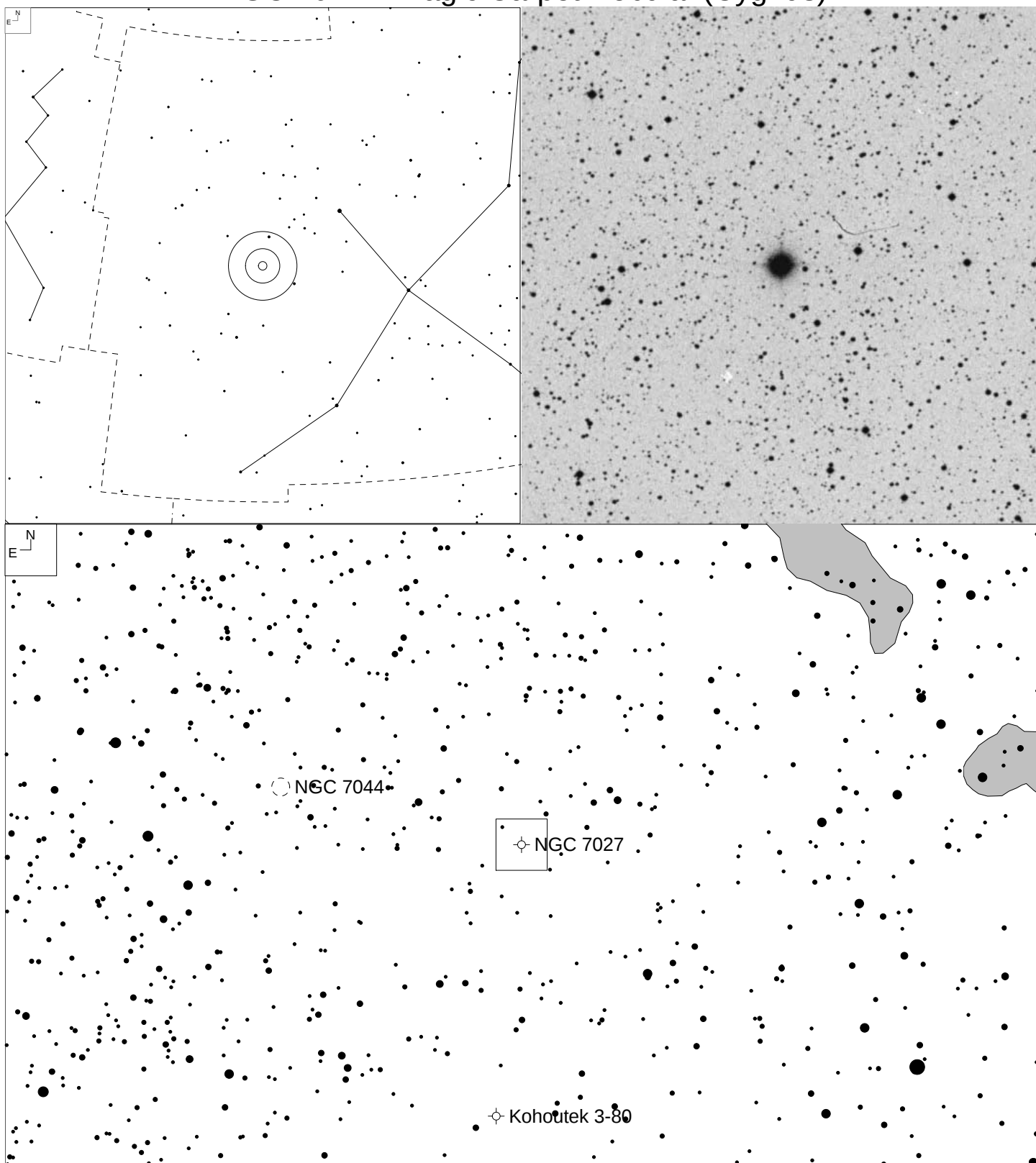


Limiting stellar magnitude – 10.4

Bi-polar halo with lobes extending NW and SE. Visible without O-II filter.

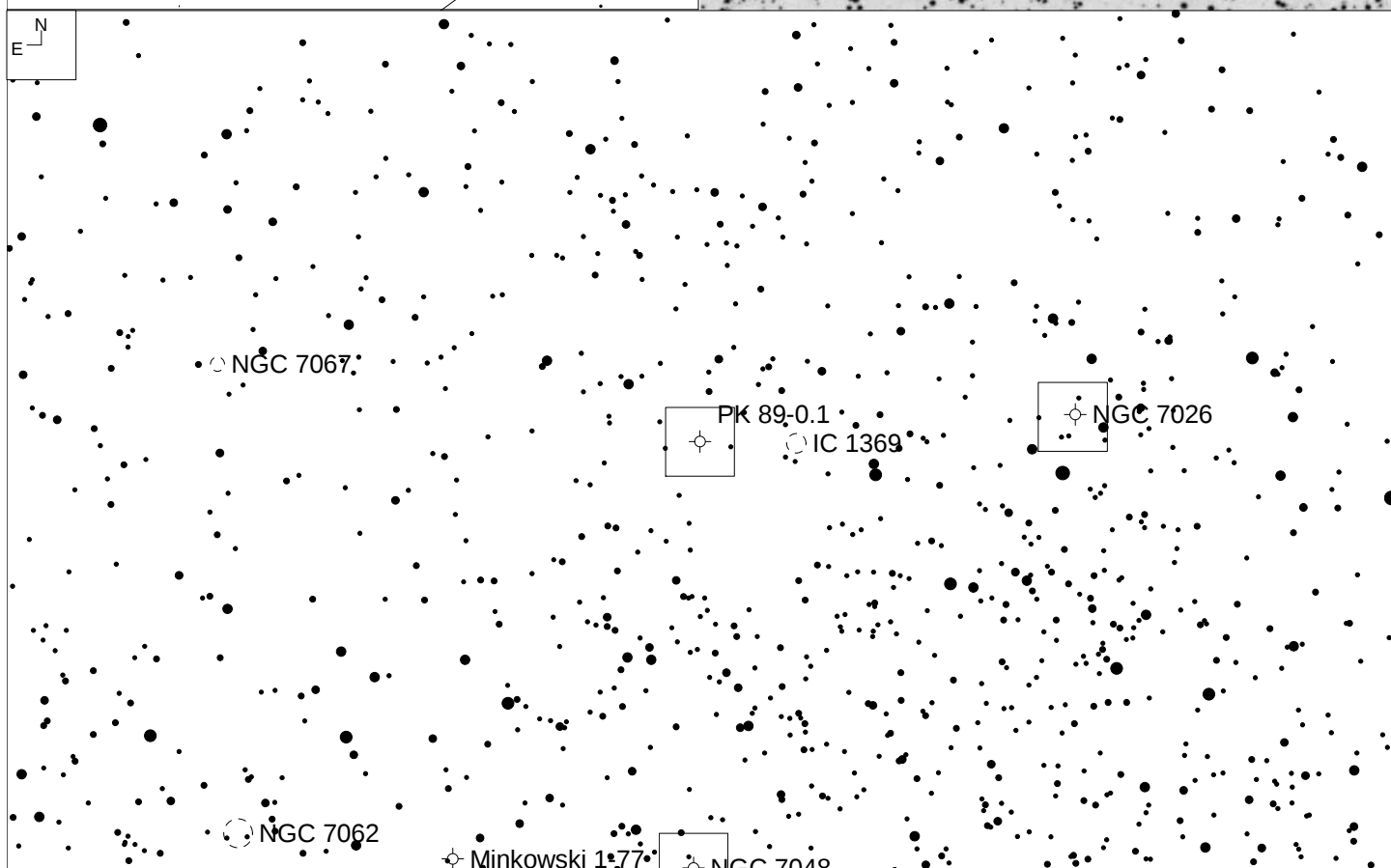
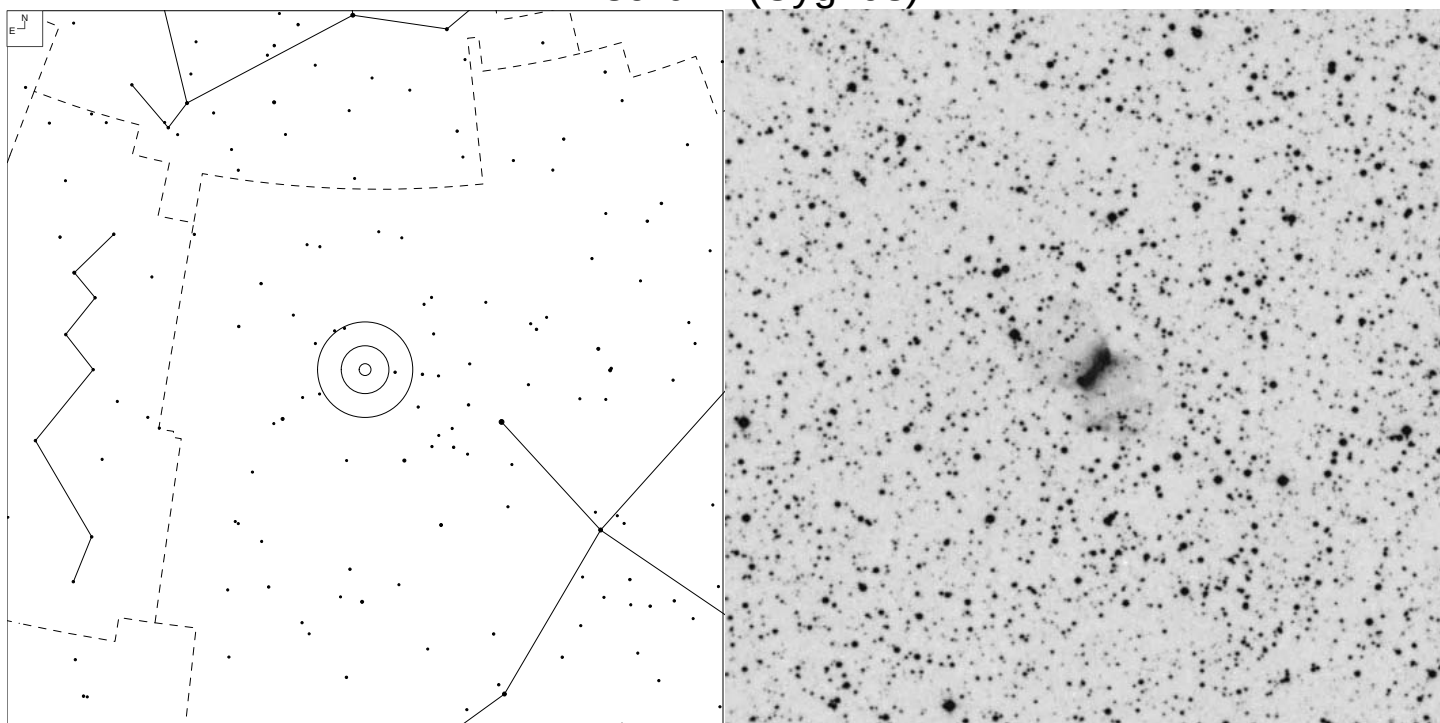
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 89+0.1	3a	21 06 18.5	+47 51 08	12.7p 10.9v	14.2	40"

NGC 7027 – Magic Carpet Nebula (Cygnus)



Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 84-3.1	3a	21 07 01.8	+42 14 07	10.4p 8.5v	16.3	18x11"

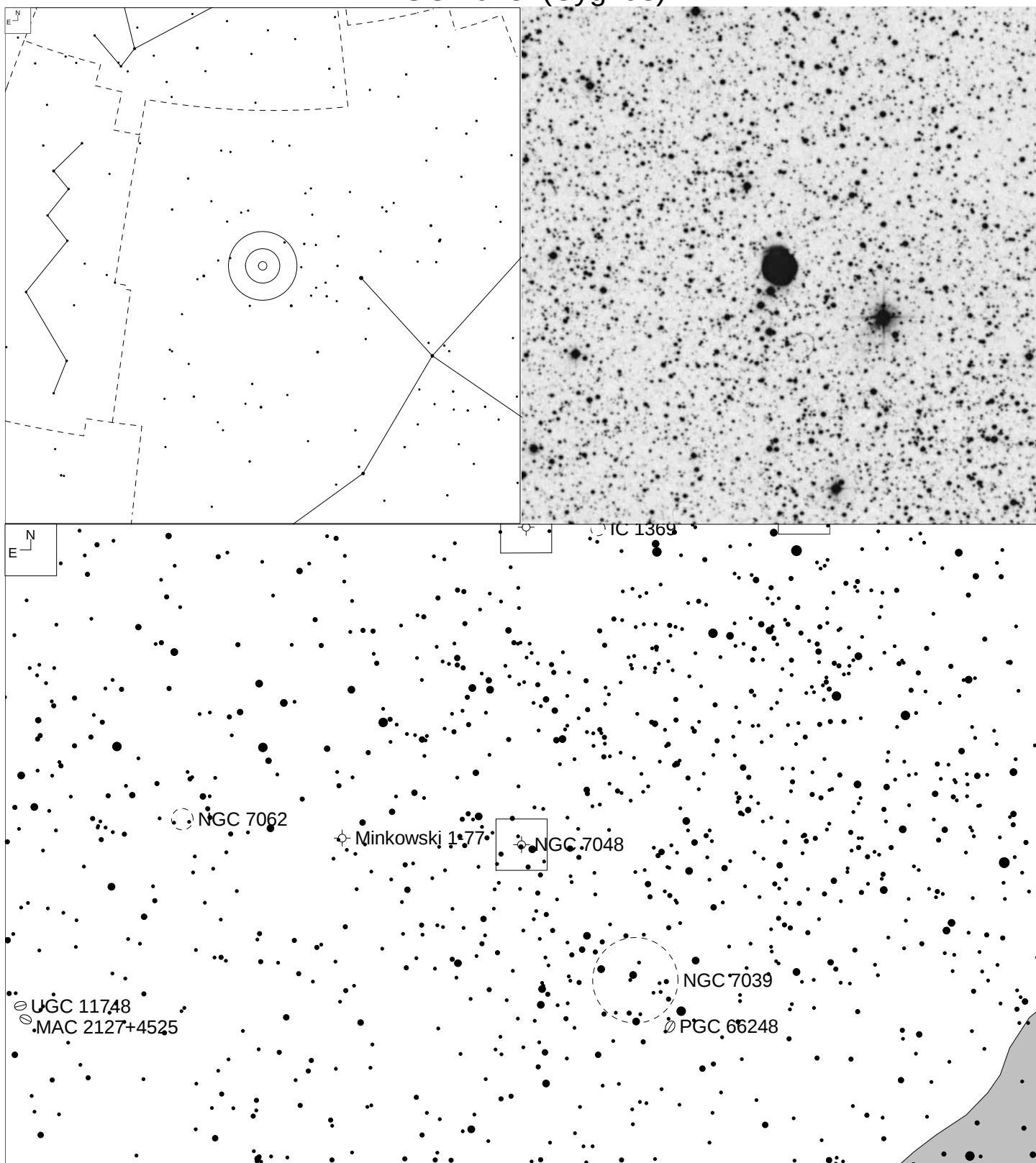
PK 89-0.1 (Cygnus)



Limiting stellar magnitude – 10.4

Other ID	Type	RA	Dec	Mag	* Mag	Size
Sharpless 1-89	3+4	21 14 07.5	+47 46 26	11.3p 12.1v	19.7	64 x 28"

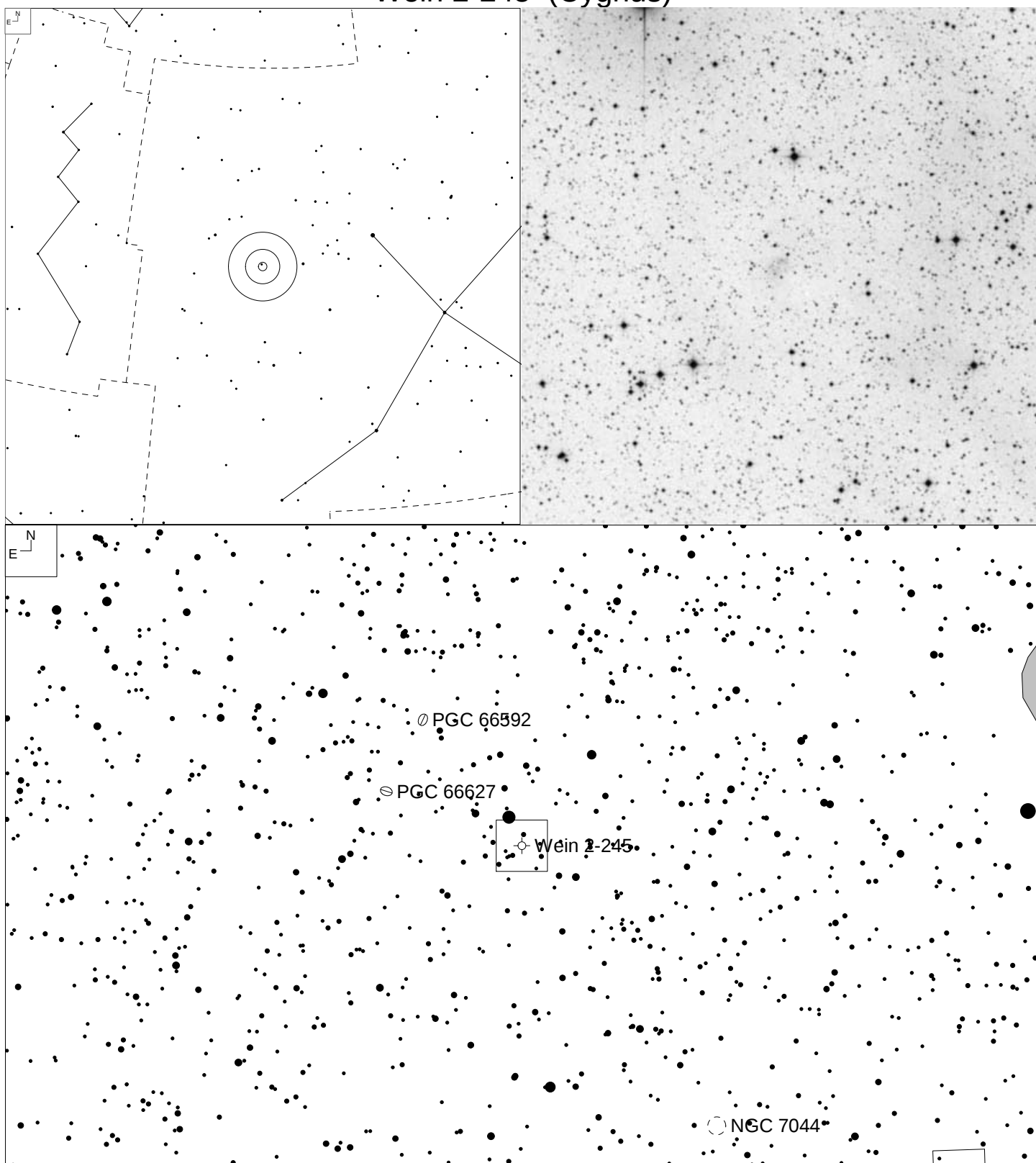
NGC 7048 (Cygnus)



Limiting stellar magnitude – 10.4

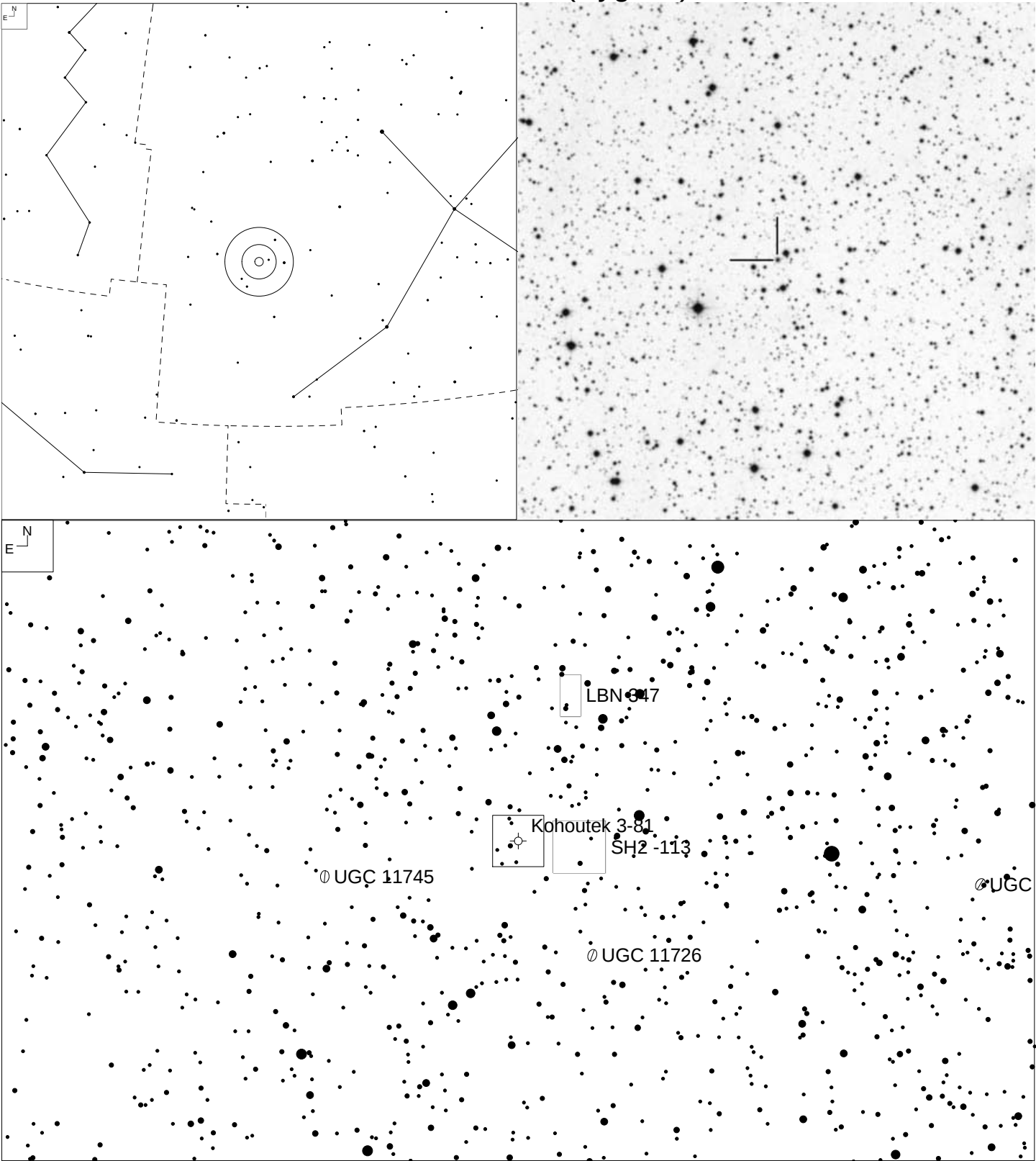
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 88-1.1	3b	21 14 15.3	+46 17 15	11.3p 12.1v	19.1	60x50"

Wein 2-245 (Cygnus)



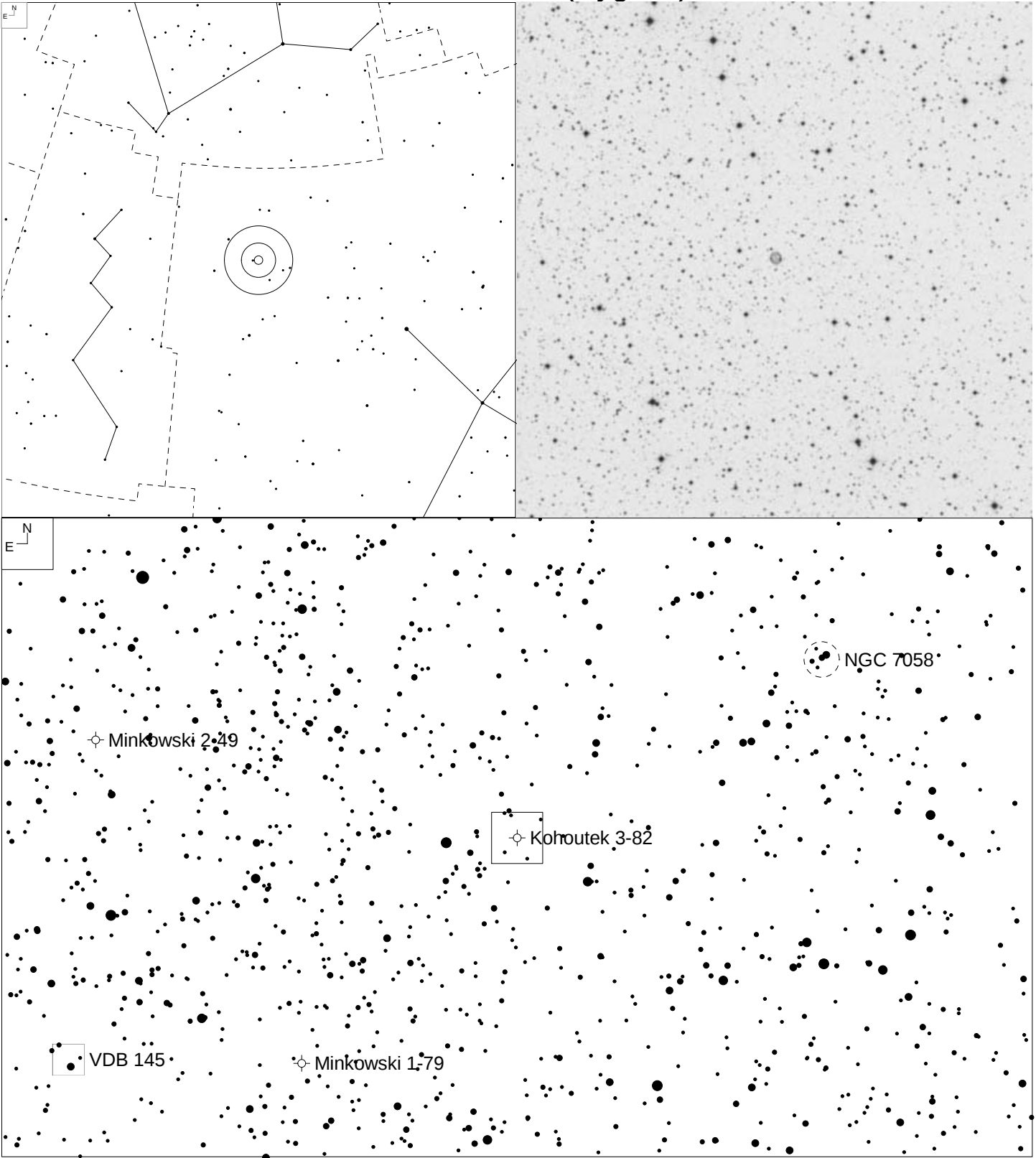
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 87-3.1	-	21 18 06.9	+43 48 46	-	-	35"

Kohoutek 3-81 (Cygnus)



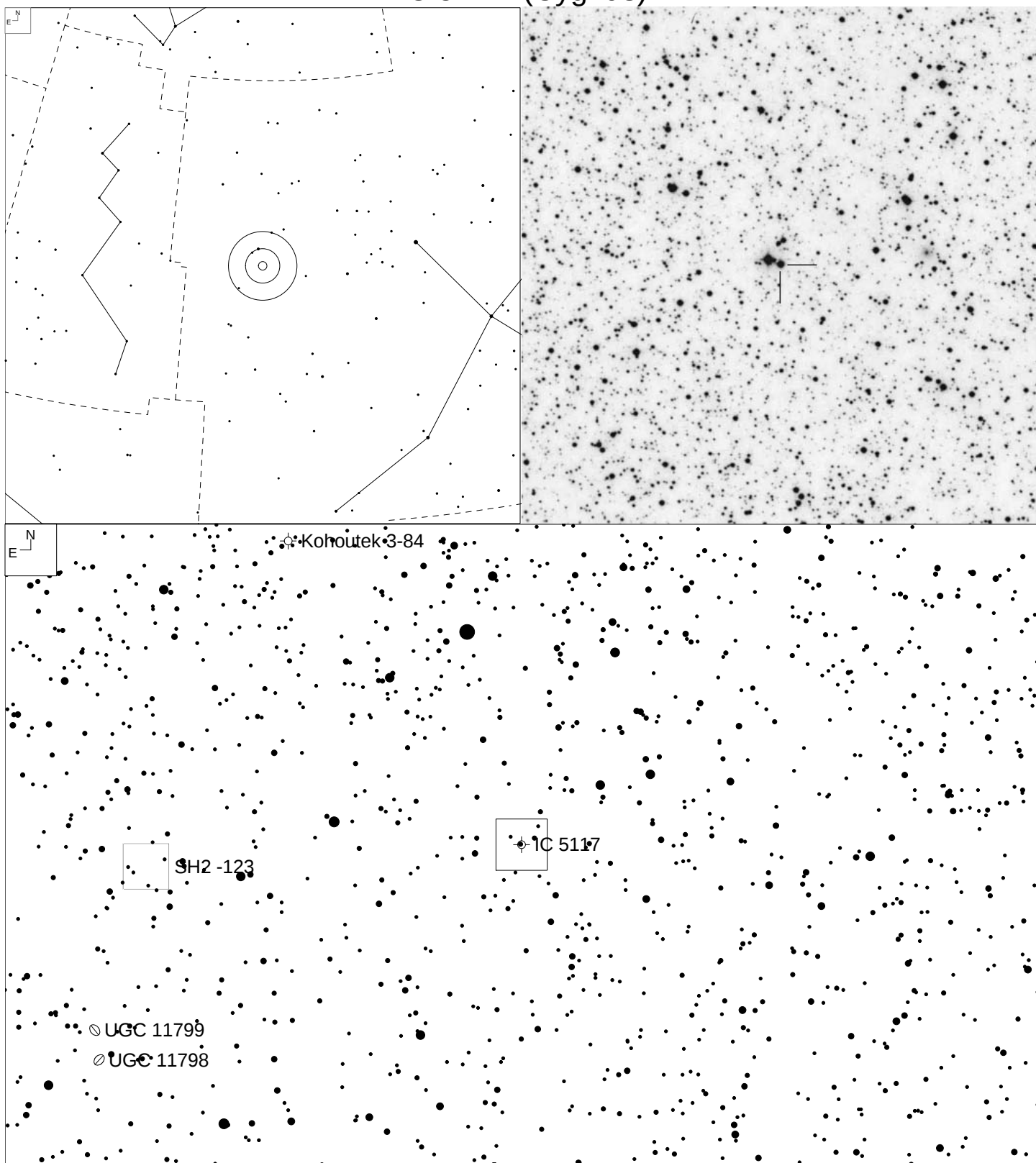
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 83-8.1	-	21 22 15.5	+38 07 13	15.4p	15.7	10"

Kohoutek 3-82 (Cygnus)



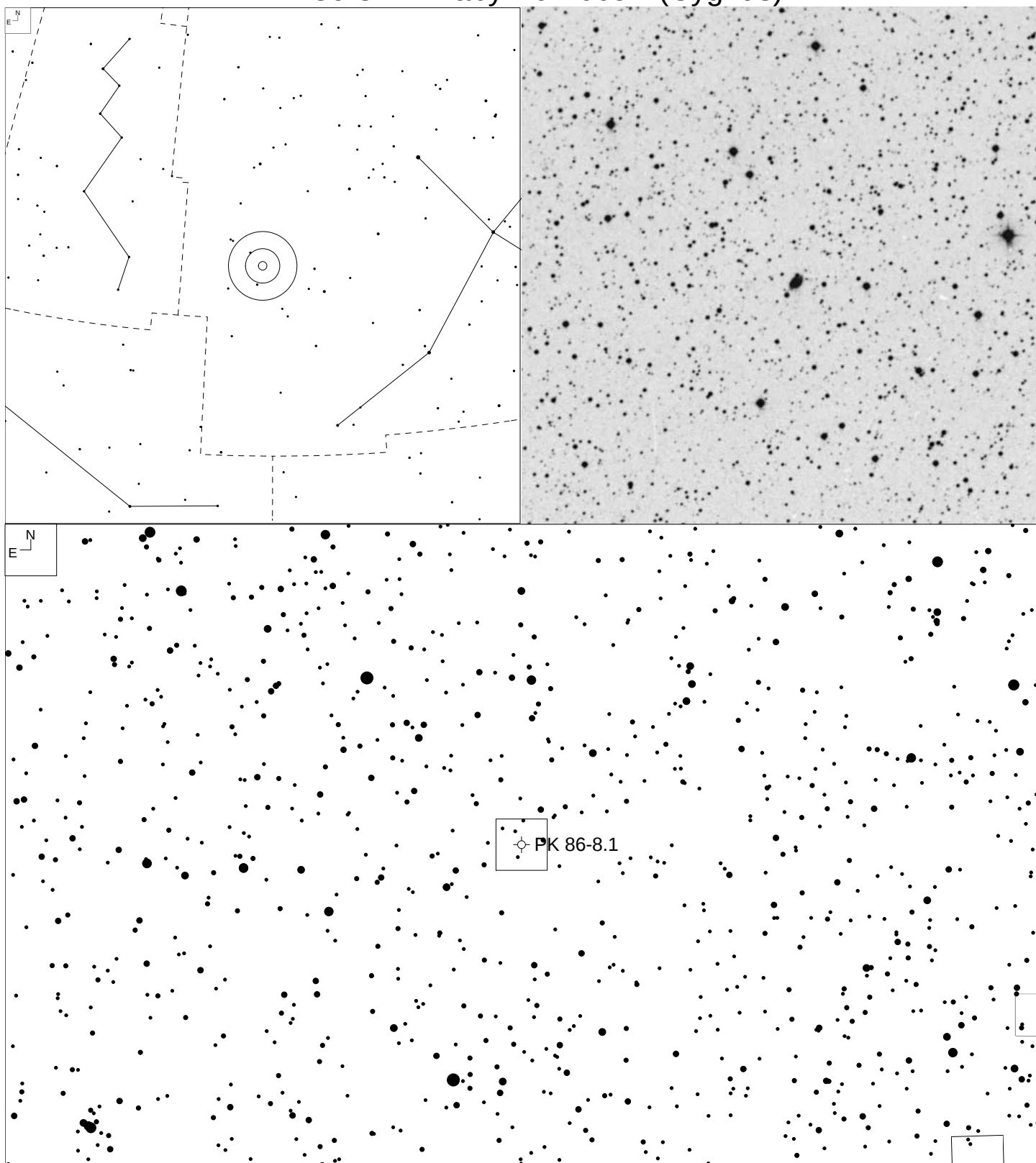
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 93-0.1	-	21 30 51.8	+50 00 05	16.0p	19.5	24"

IC 5117 (Cygnus)



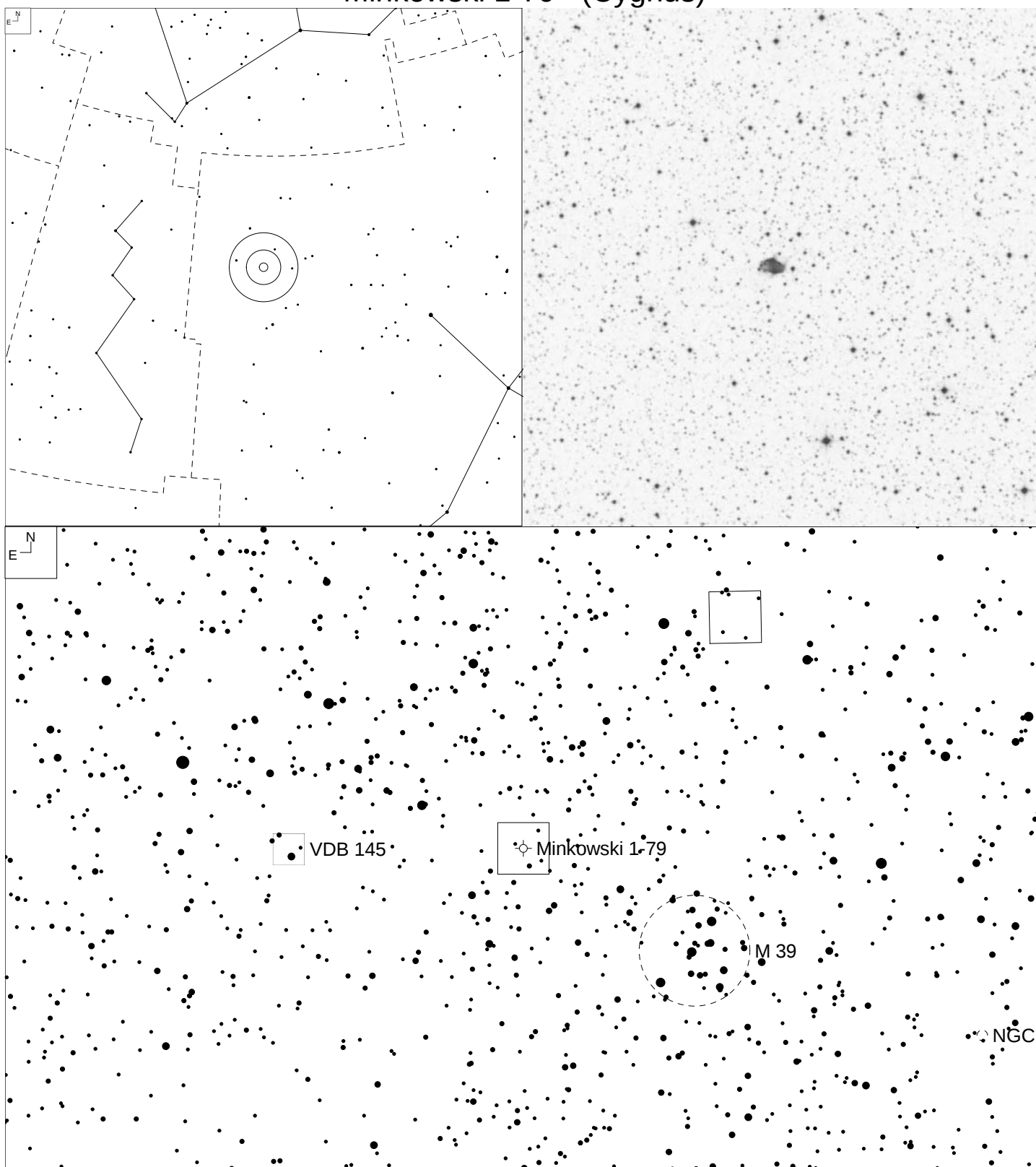
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 89-5.1	2	21 32 31.1	+44 35 47	13.3p 11.5v	16.7	6"

PK 86-8.1 – Baby Dumbbell (Cygnus)



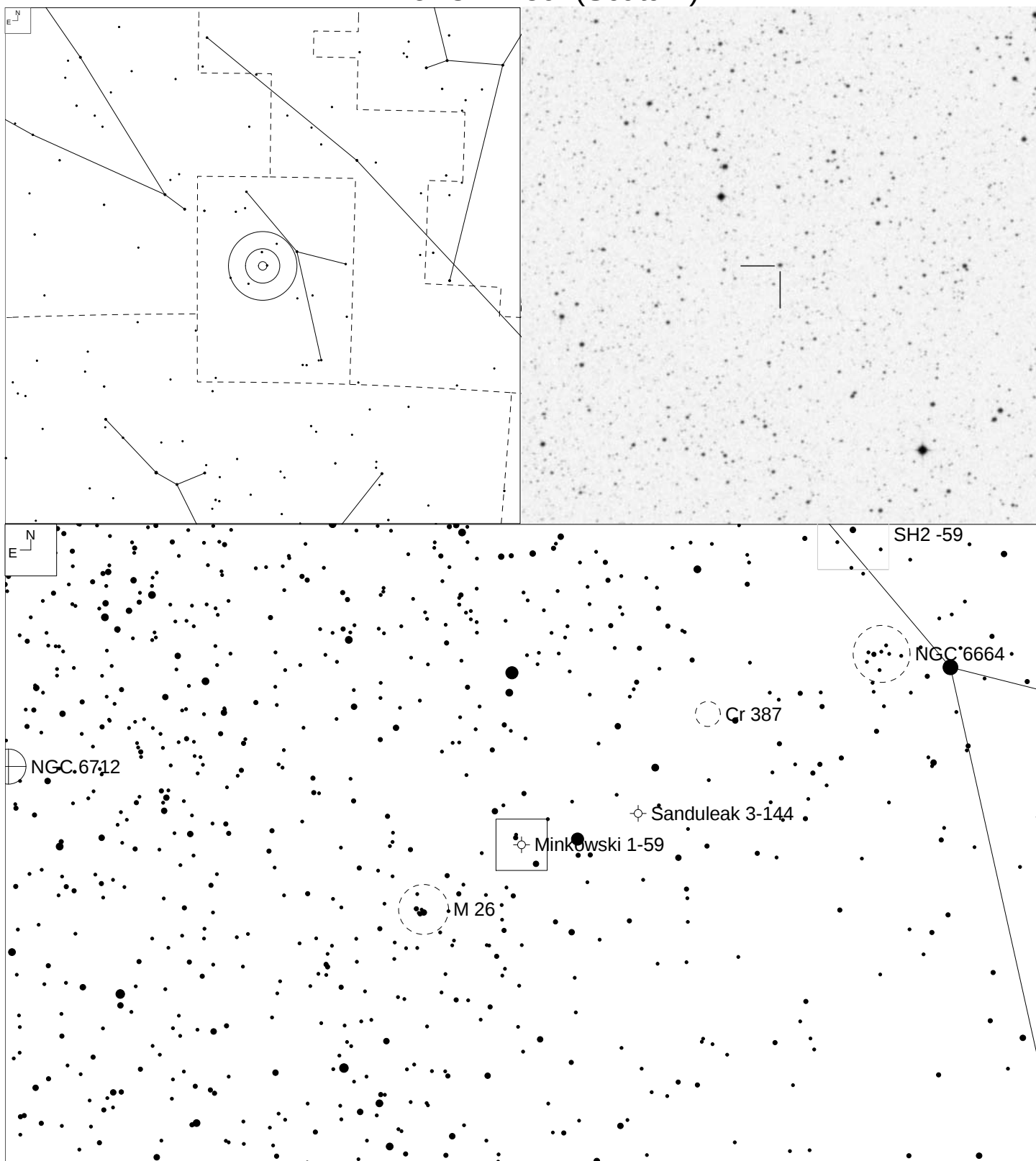
Other ID	Type	RA	Dec	Mag	* Mag	Size
Hu 1-2	2	21 33 08.2	+39 38 12	12.7p 12.0v	17.3	32 x 20"

Minkowski 1-79 (Cygnus)



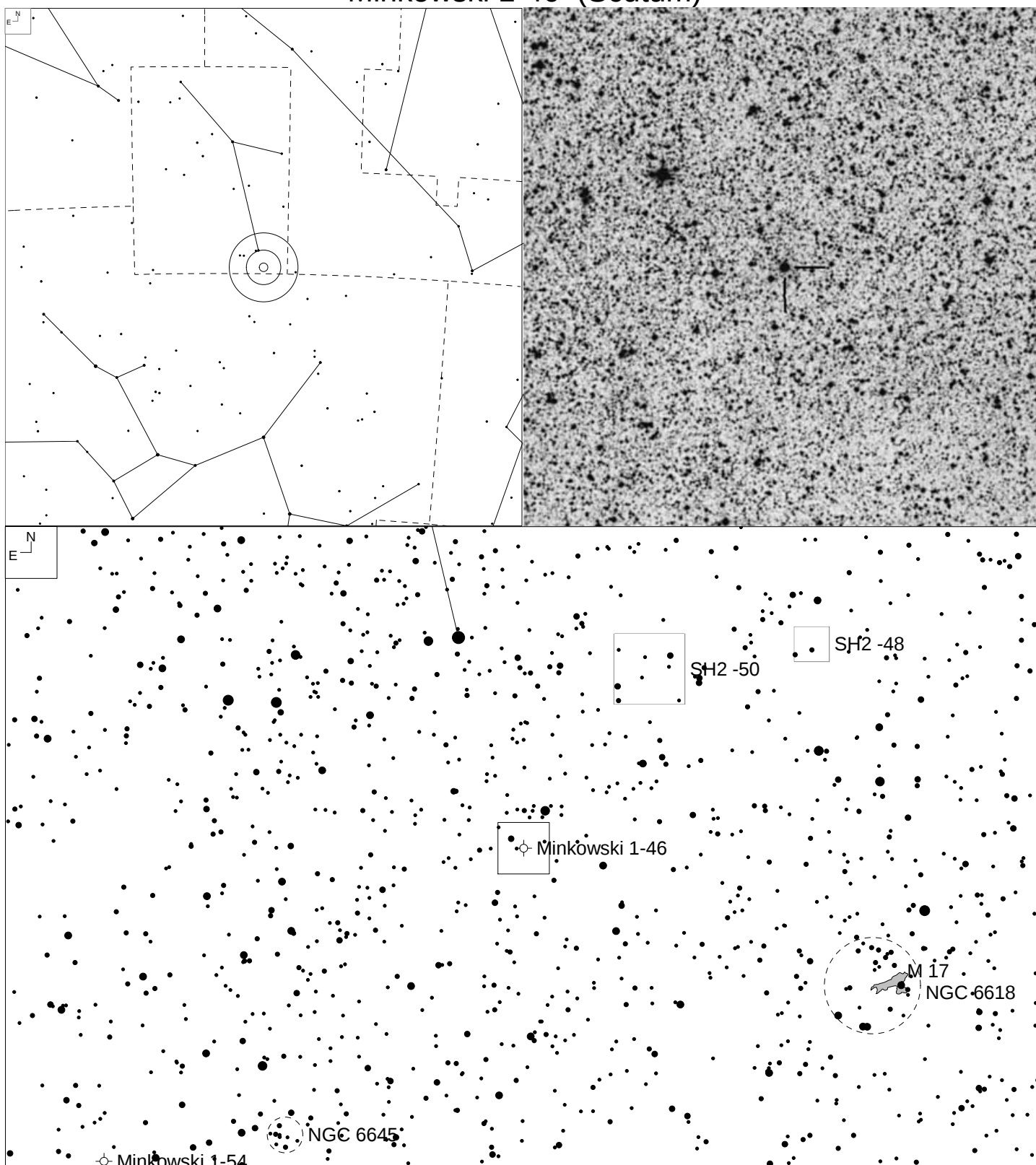
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 93+2.1	4	21 37 01.6	+48 56 00	13.2p 13.2v	19.1	60 x 42"

Minkowski 1-59 (Scutum)



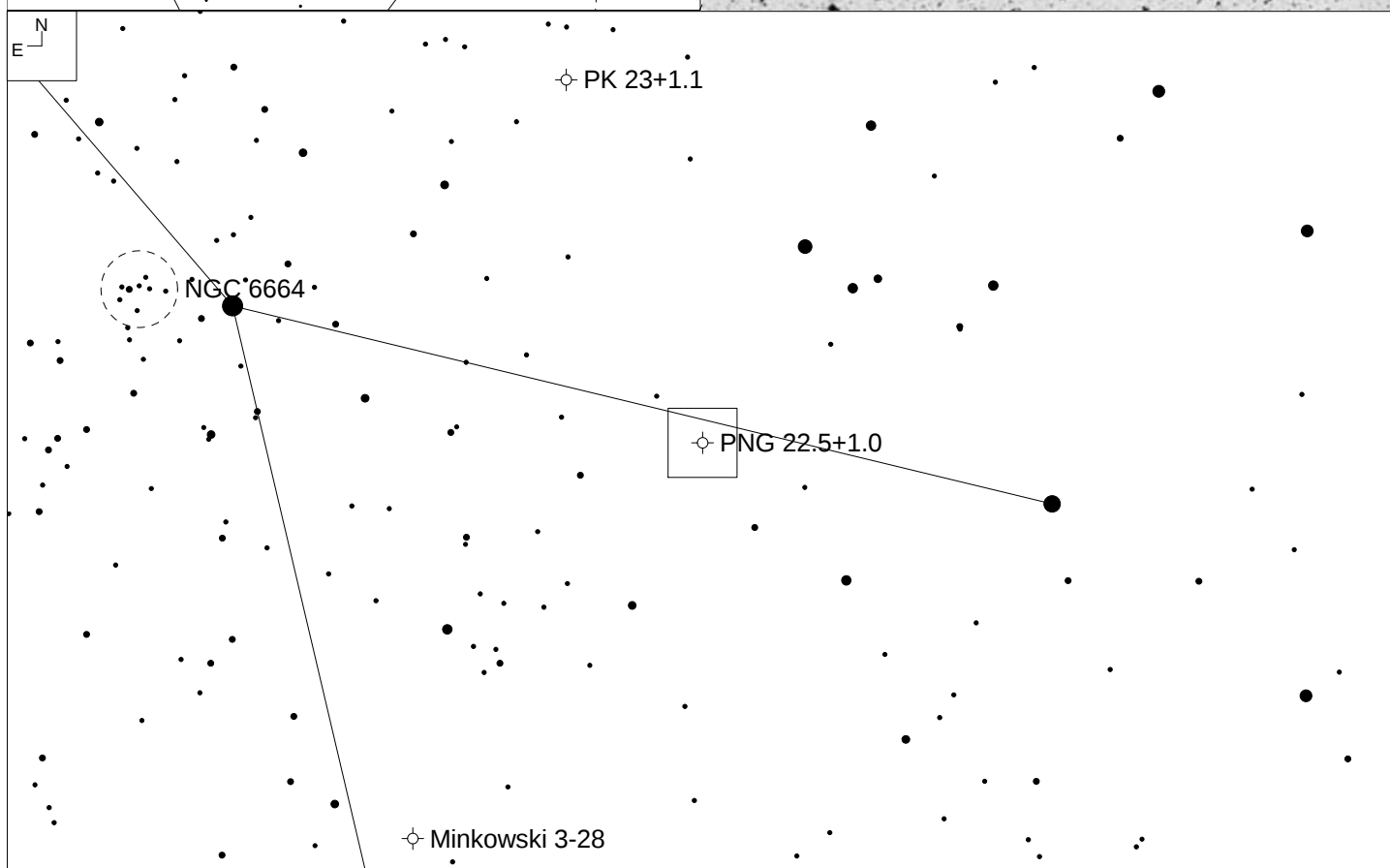
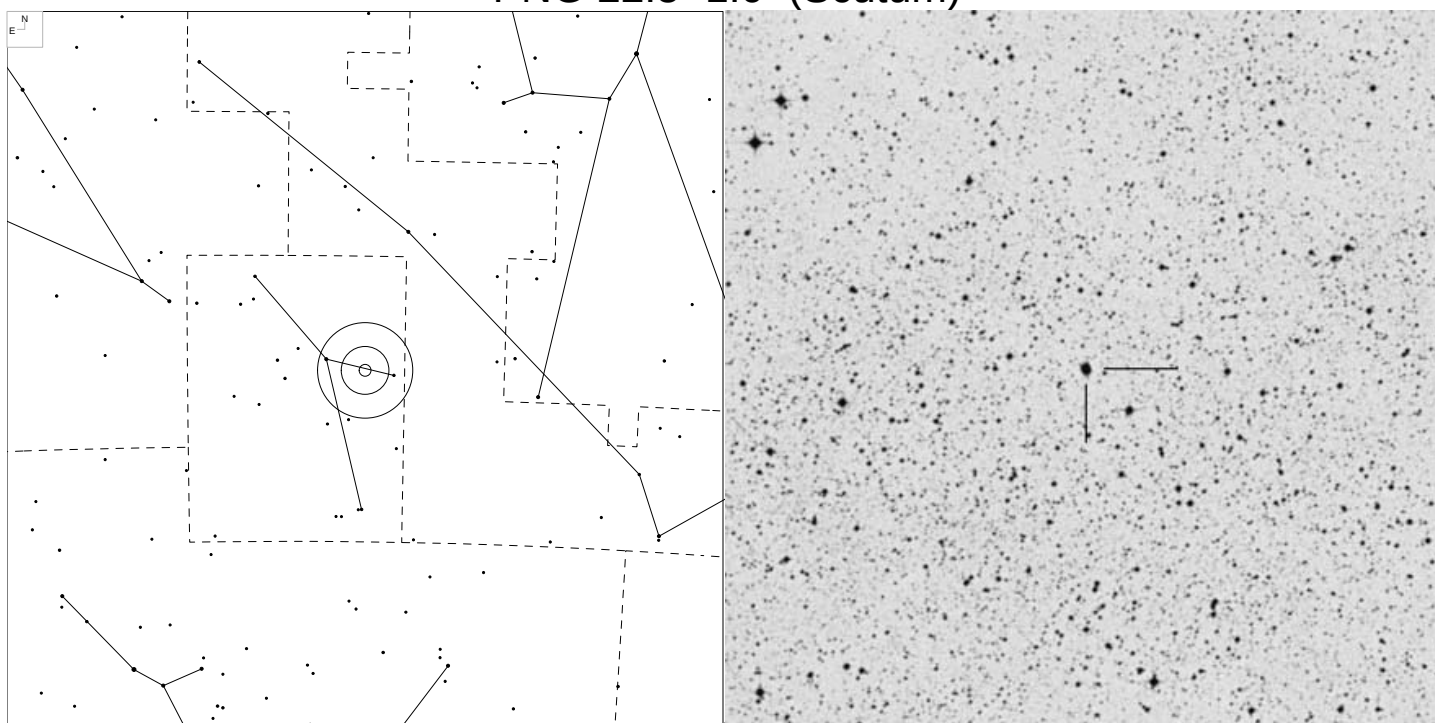
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 23-2.1	2	18 43 20.2	-09 04 49	13.3p 12.5v	-	5"

Minkowski 1-46 (Scutum)



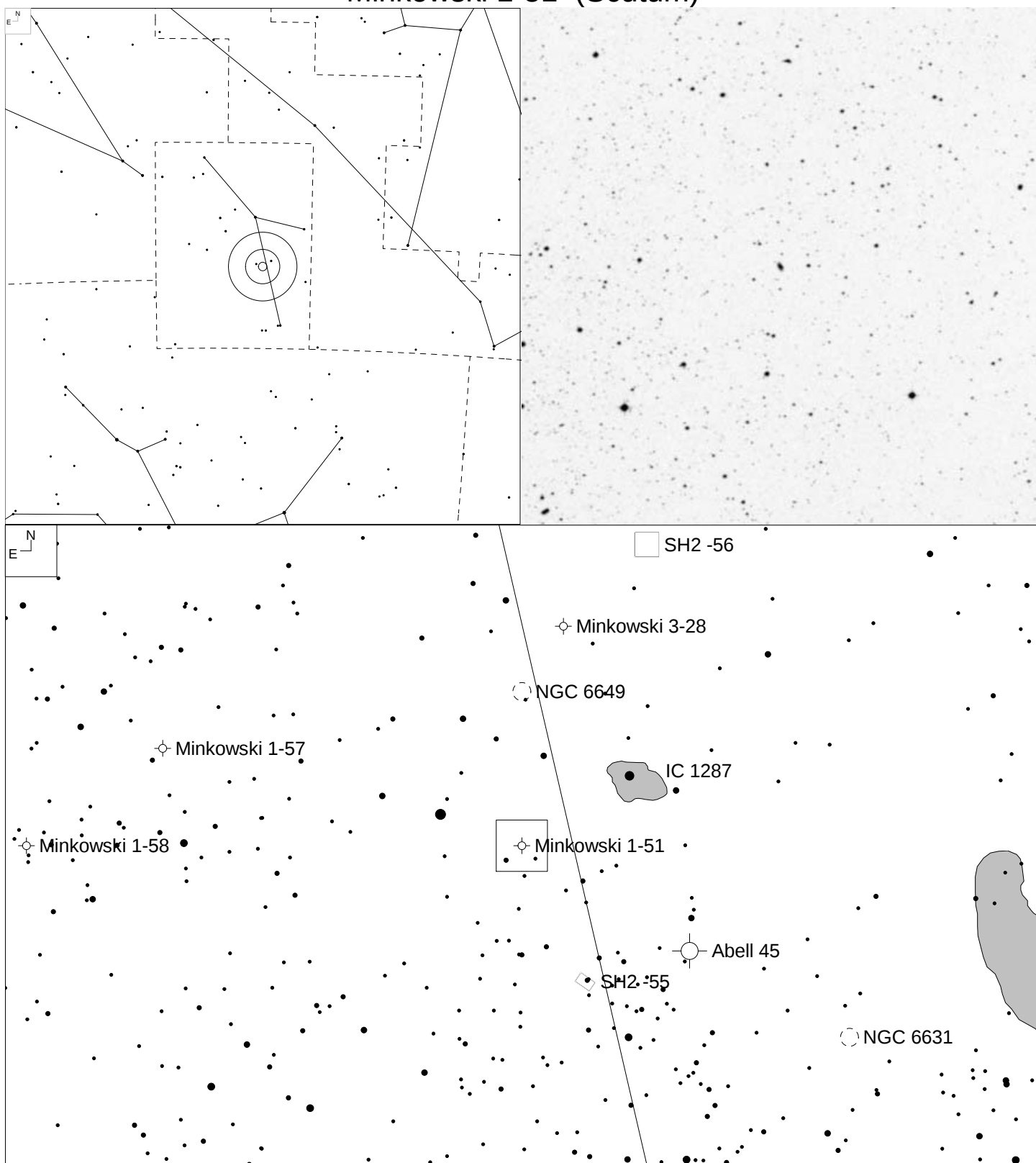
Other ID	Type	RA	Dec	Mag	* Mag	Size
Henize 2-401	4+2	18 27 56.3	-15 32 55	14.6p	12.8	11"
PK 16-1.1						

PNG 22.5+1.0 (Scutum)



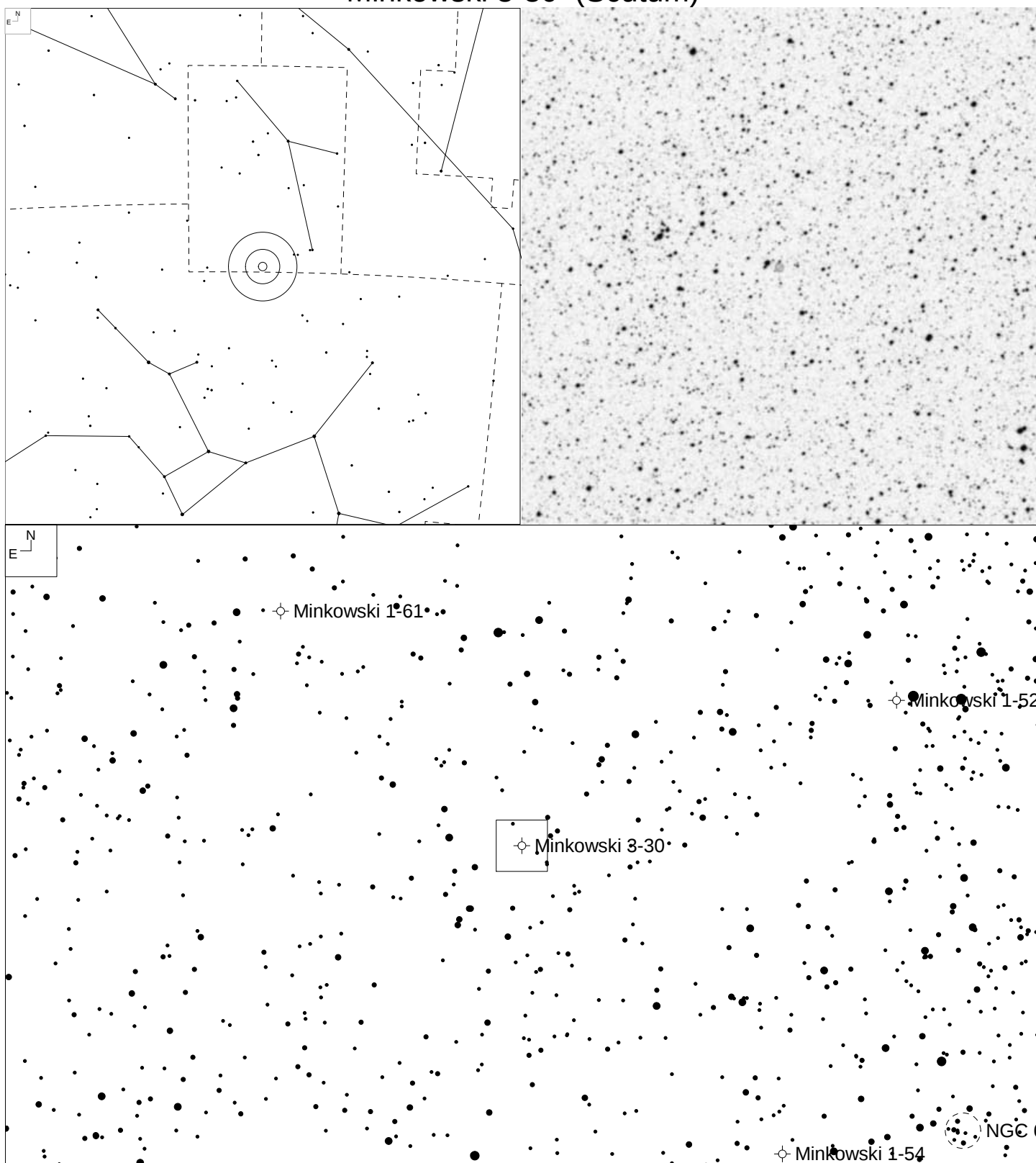
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	18 28 35.4	-08 43 24	18.0p	-	17"

Minkowski 1-51 (Scutum)



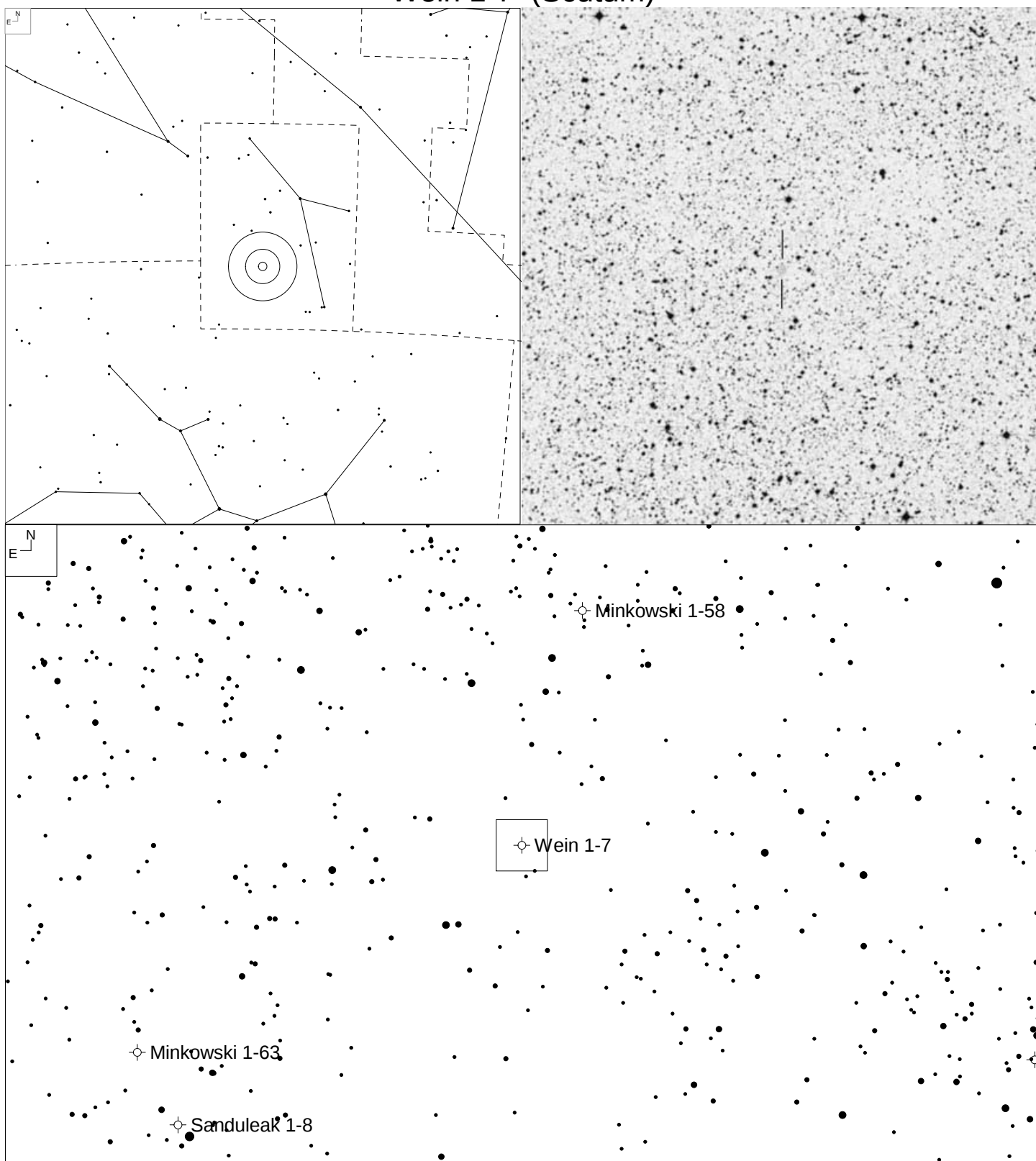
Other ID	Type	RA	Dec	Mag	* Mag	Size
Henize 2-411	3	18 33 29.0	-11 07 26	16.7p	-	10"
PK 21-1.1						

Minkowski 3-30 (Scutum)



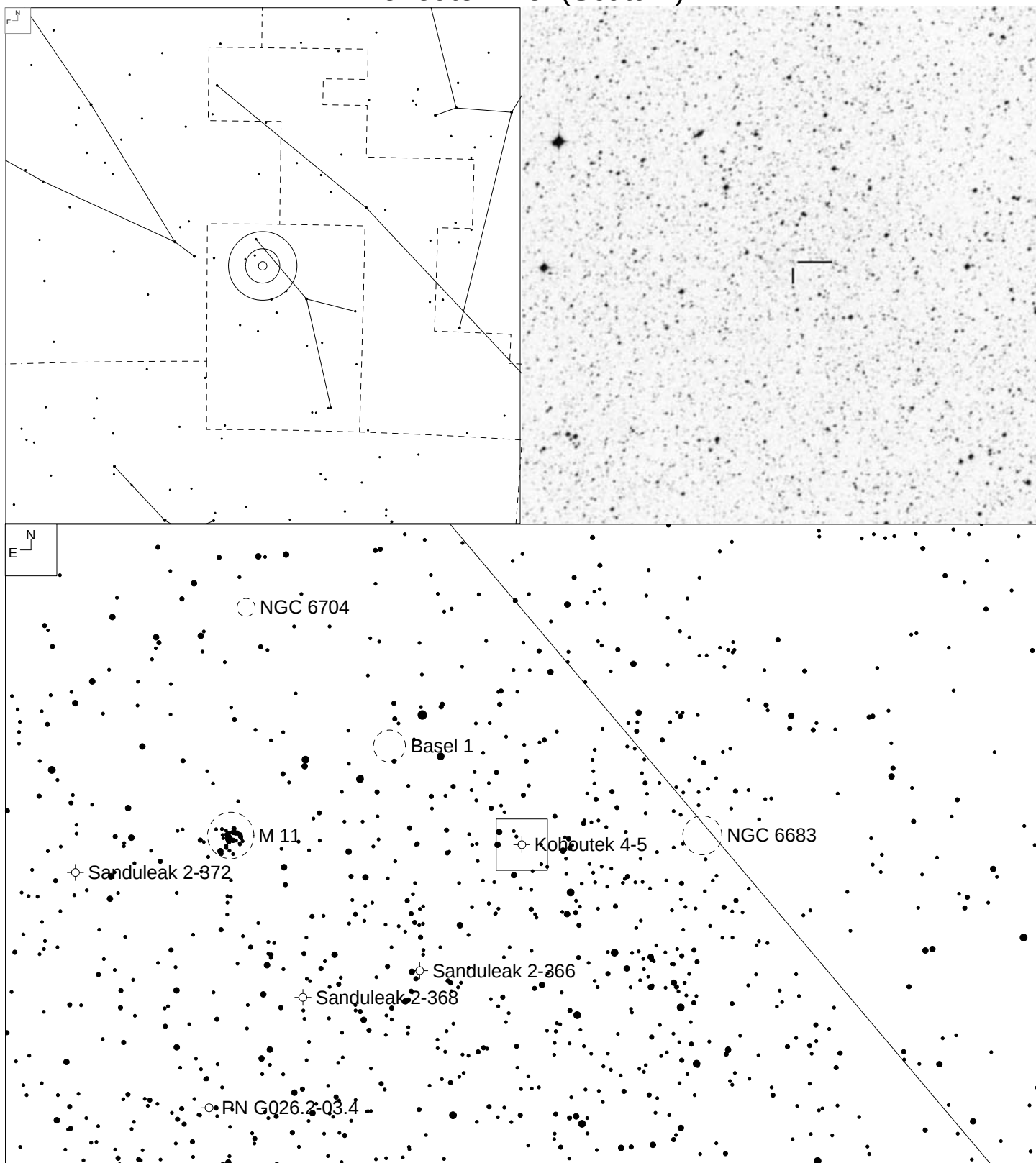
Other ID	Type	RA	Dec	Mag	* Mag	Size
Sanuleak 3-143 PK 17-4.1	4	18 41 14.8	-15 33 39	14.6p	17.9	17"

Wein 1-7 (Scutum)



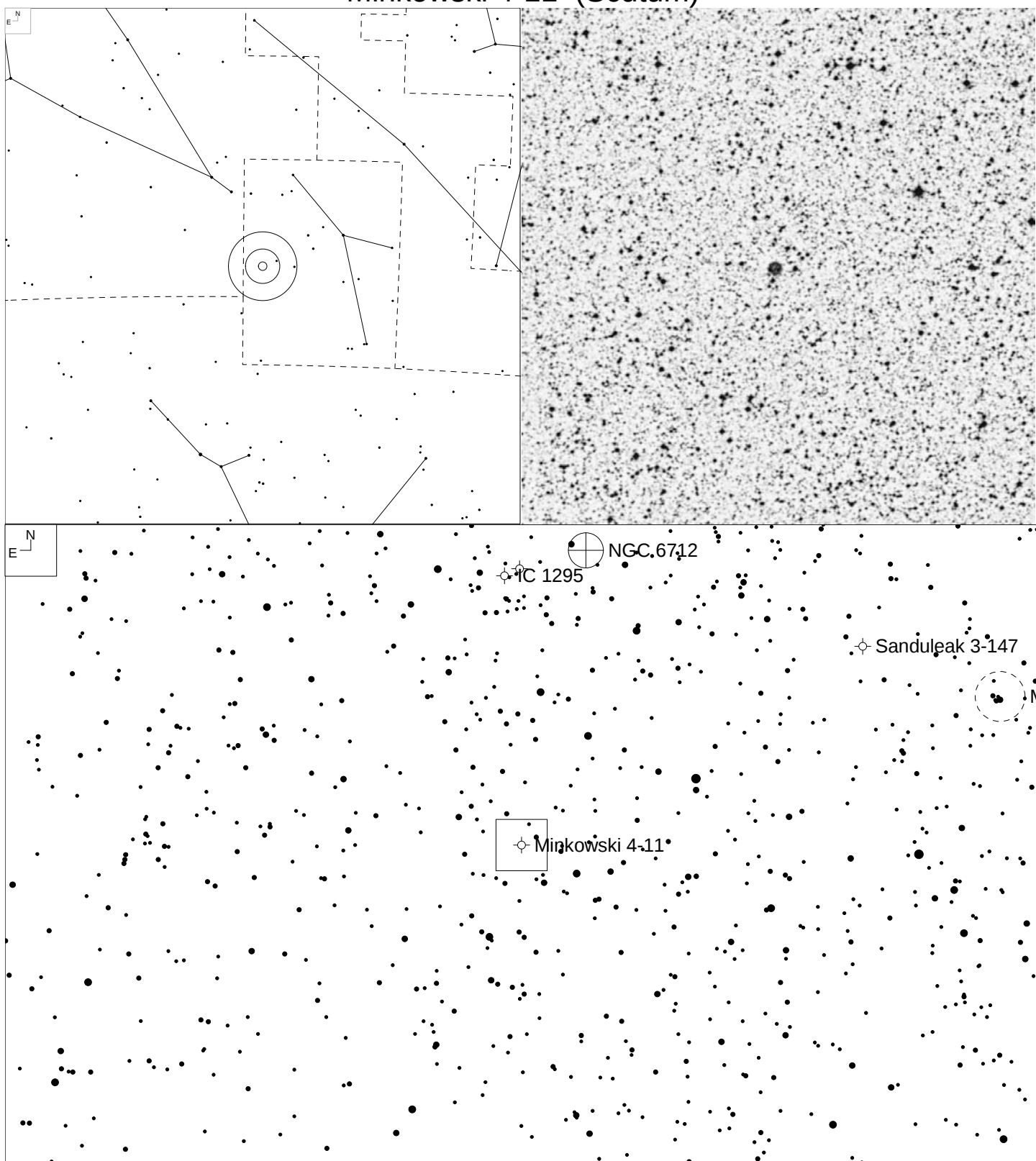
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 21-3.1	-	18 44 06.5	-12 12 50	-	21.0	17"

Kohoutek 4-5 (Scutum)



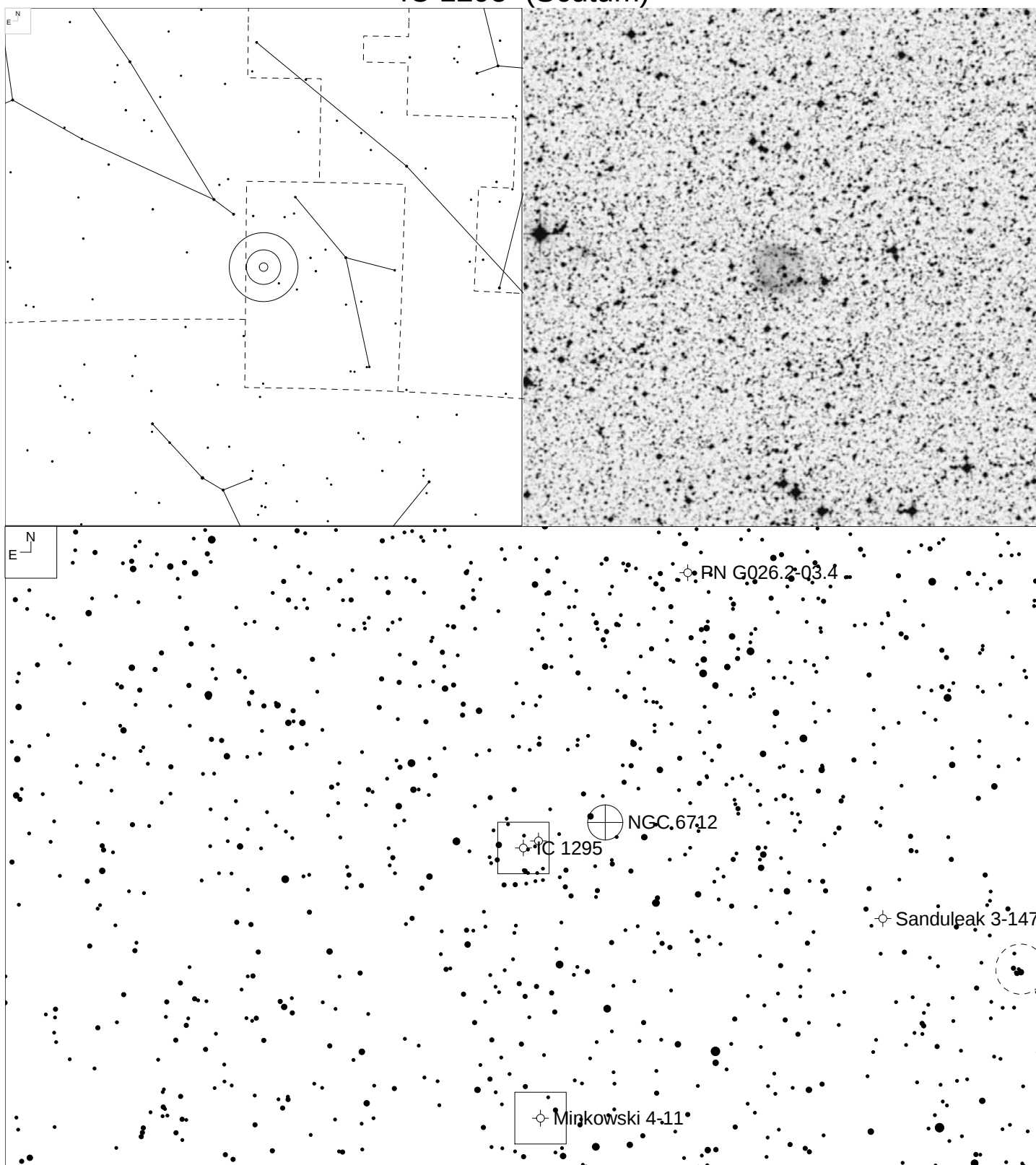
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 26-1.1	-	18 45 36.3	+06 18 43	15.7p	-	20"

Minkowski 4-11 (Scutum)



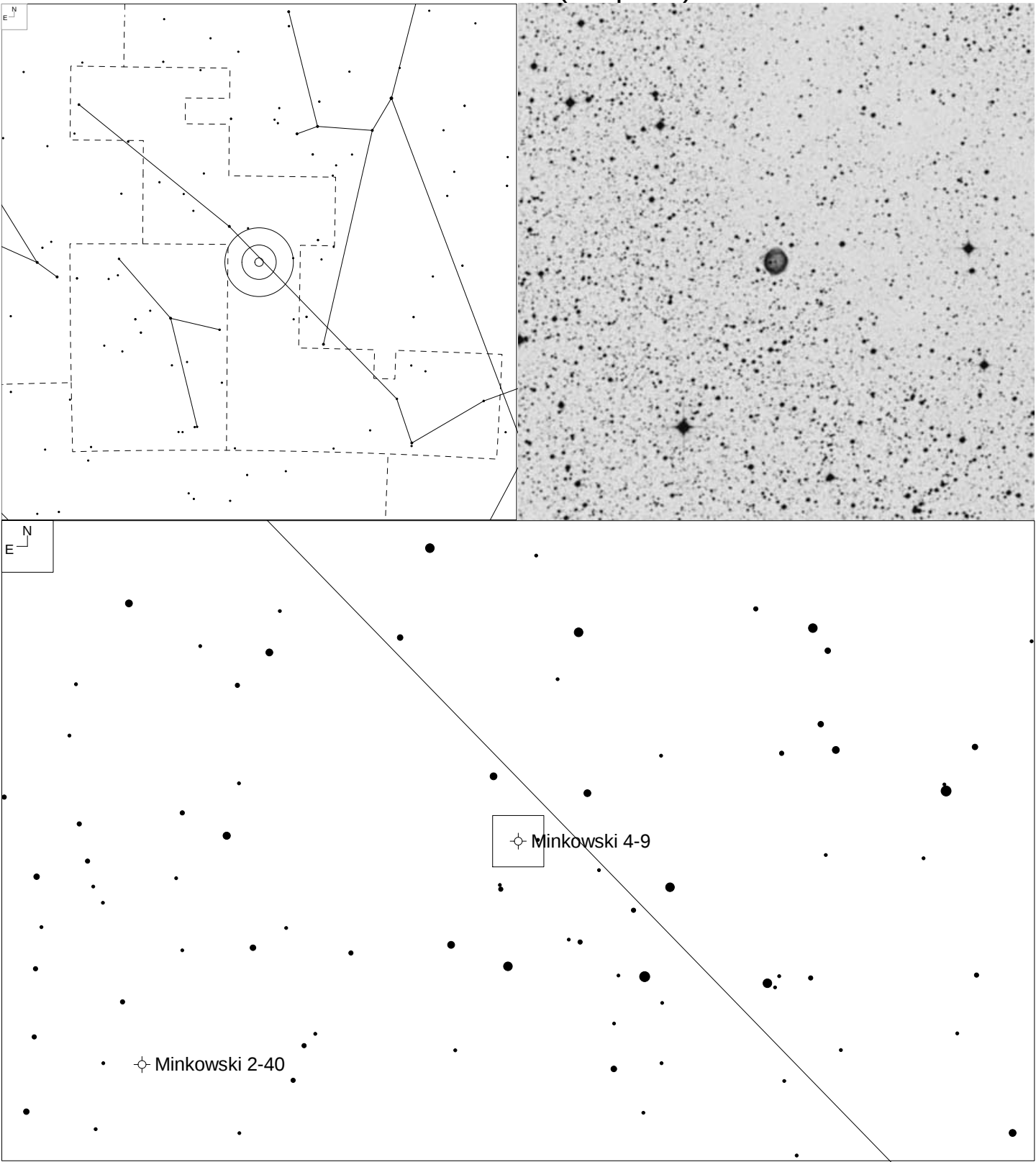
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 24-5.1	2	18 54 17.7	-10 05 10	14.9p 13.8v	18.0	22x20"

IC 1295 (Scutum)



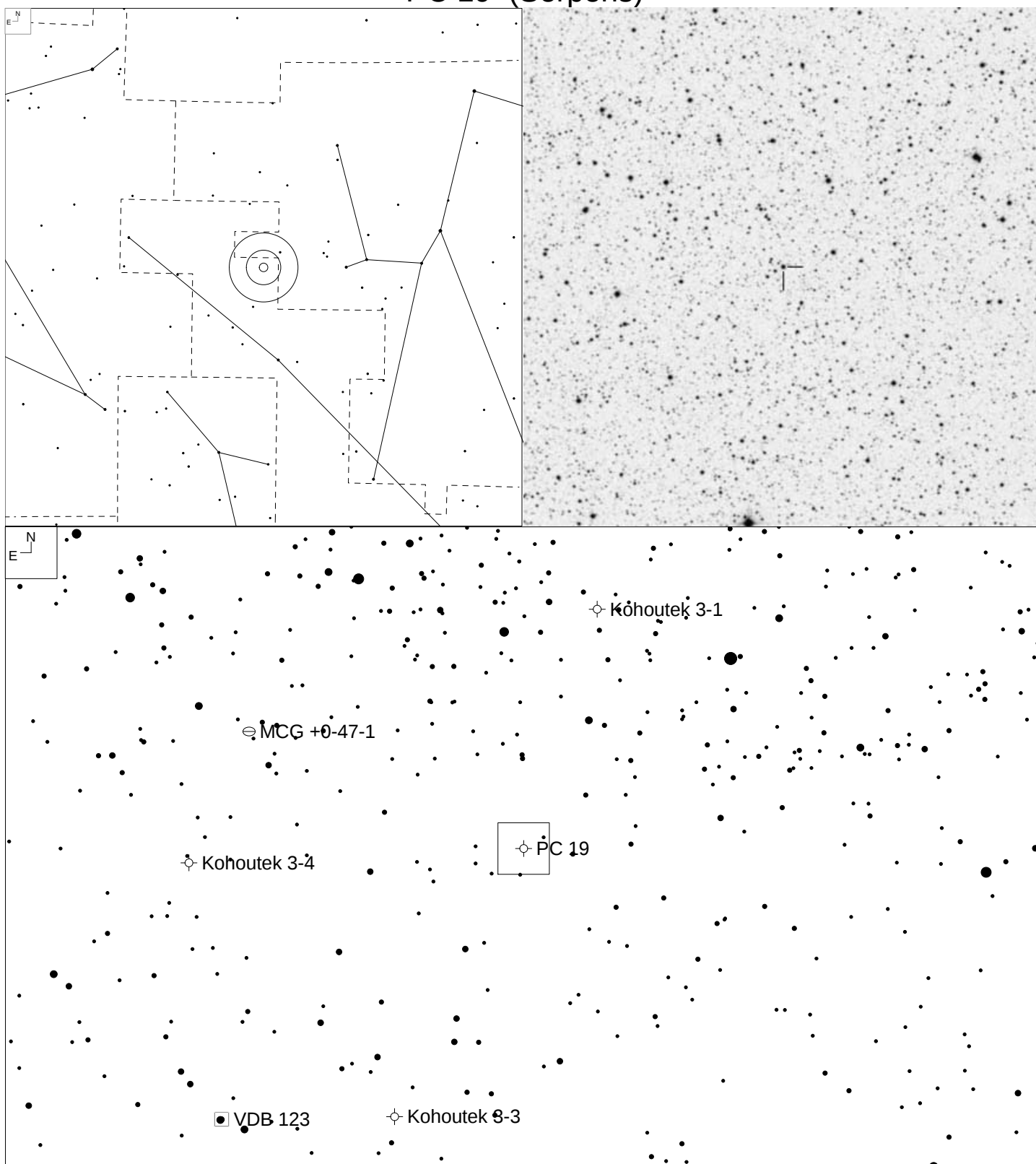
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 25-4.2	3b+2	18 54 37.2	-08 49 33	15.0p	15.	120x90"

Minkowski 4-9 (Serpens)



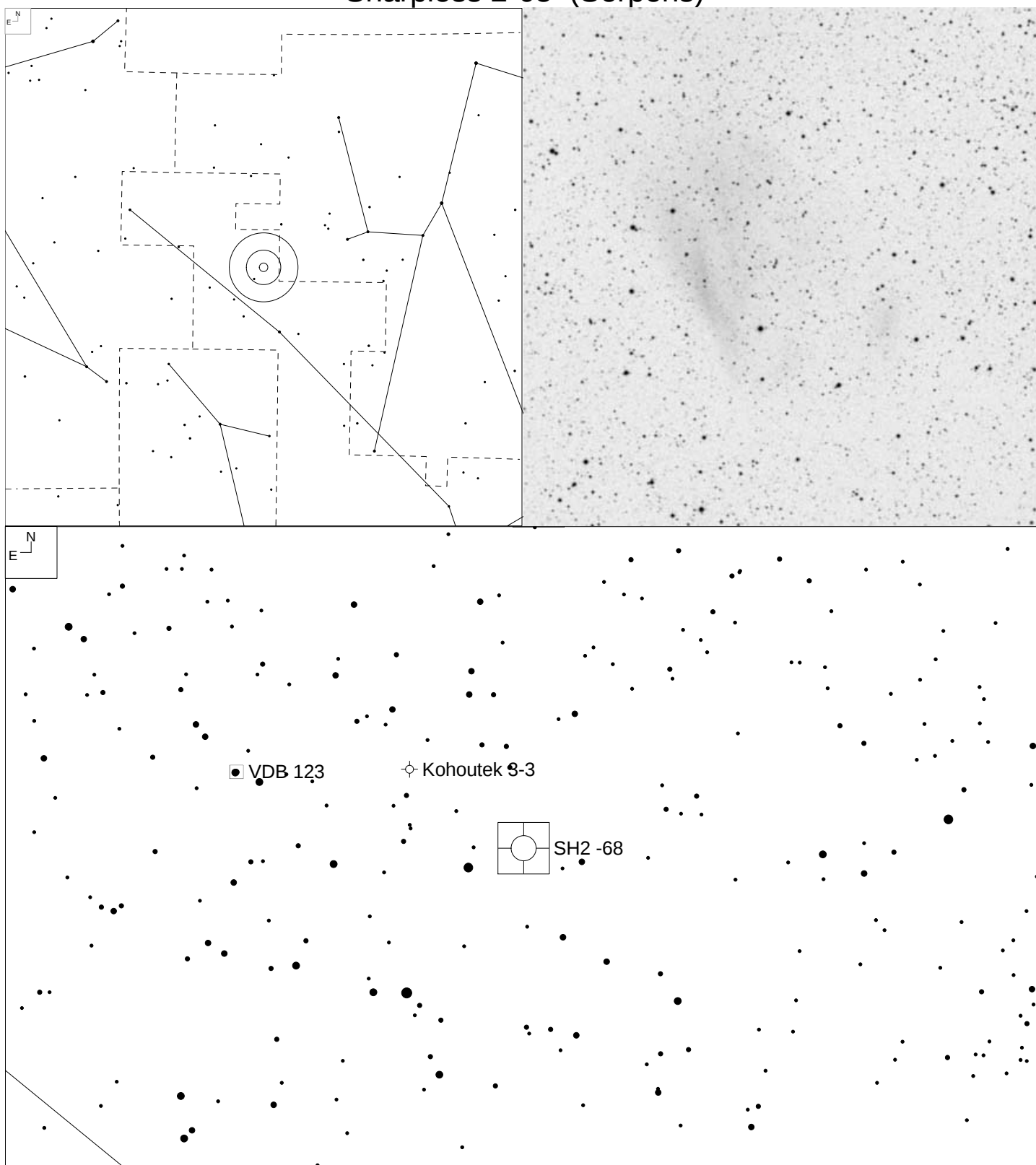
Other ID	Type	RA	Dec	Mag	* Mag	Size
Sanduleak 3-125 PK 24+5.1	4	18 14 18.3	-04 59 22	16.0p	20.3	54"

PC 19 (Serpens)



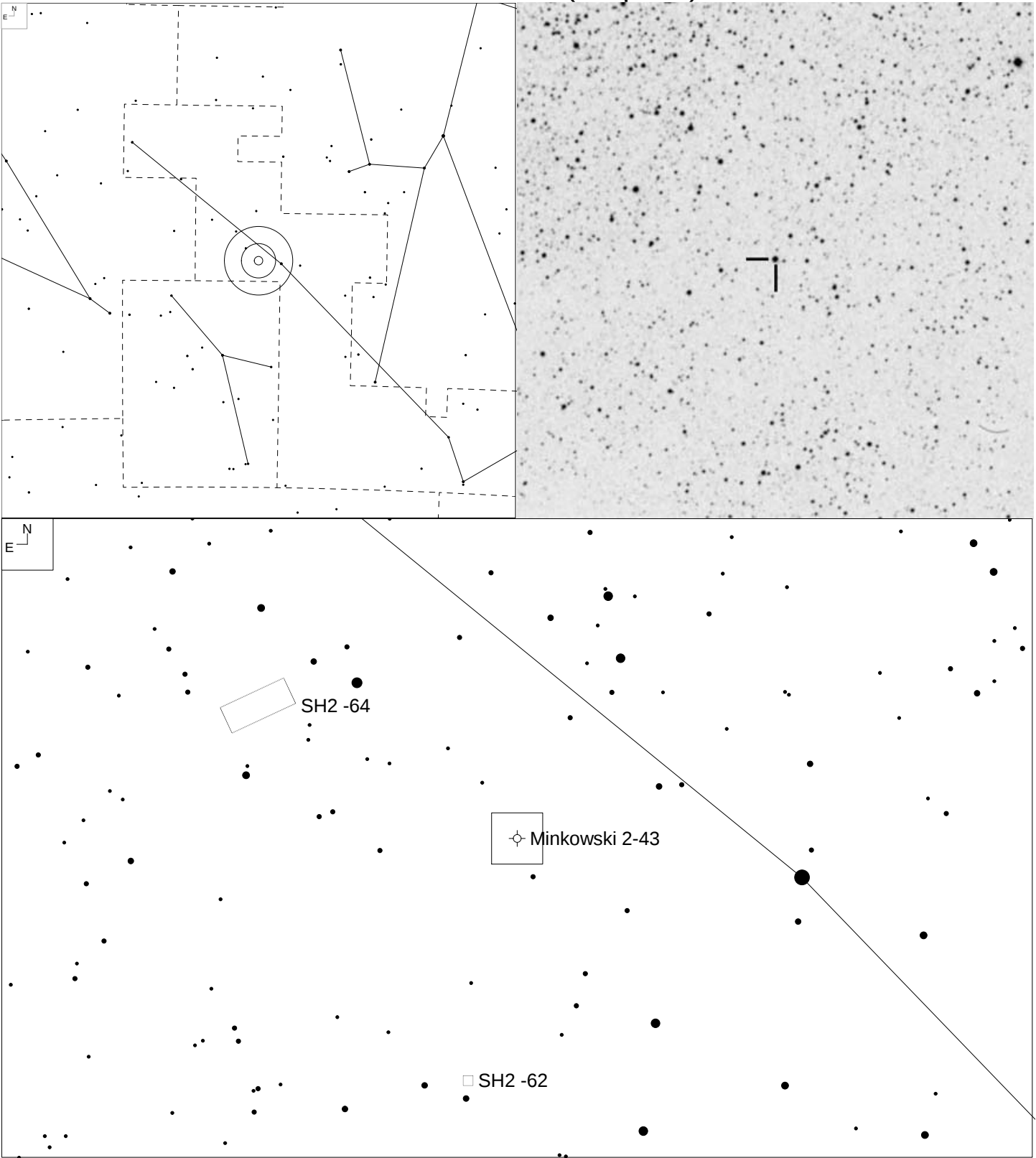
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 32+7.2	-	18 24 44.6	+02 29 27	12.1p	-	14"

Sharpless 2-68 (Serpens)



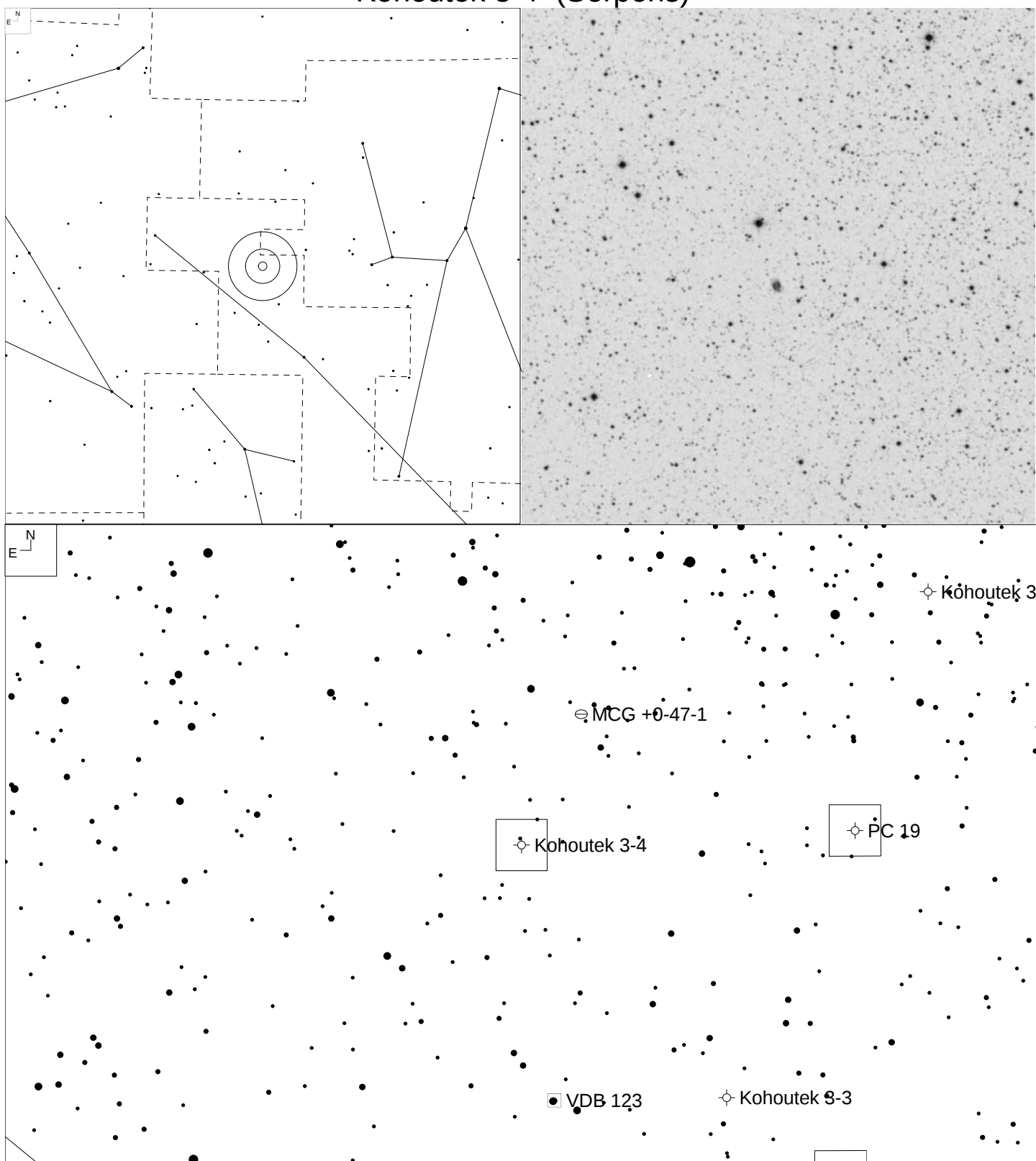
Other ID	Type	RA	Dec	Mag	* Mag	Size
LBN 93	-	18 25 01.3	+00 52 18	10.0v	16.0	7'

Minkowski 2-43 (Serpens)



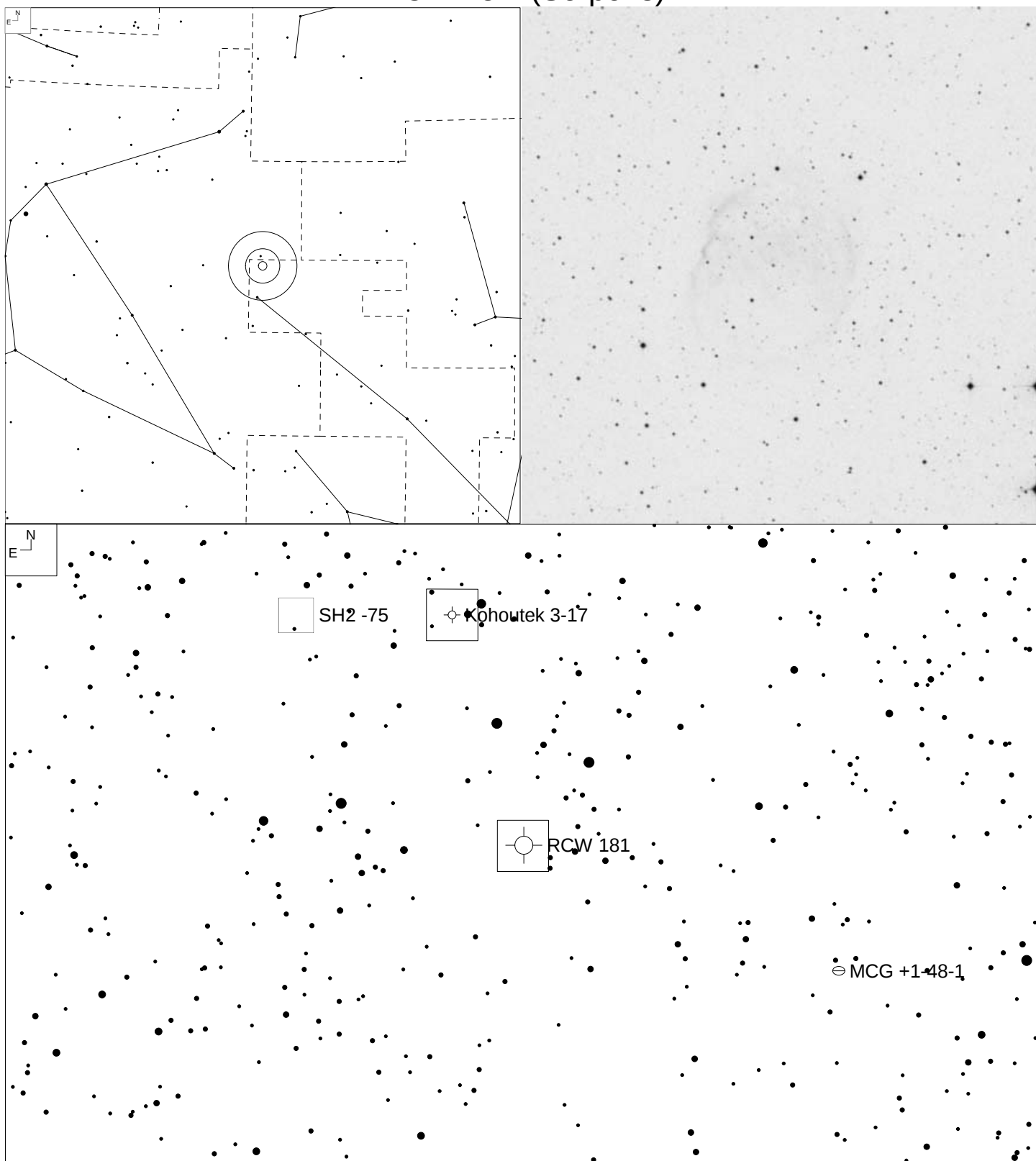
Other ID	Type	RA	Dec	Mag	* Mag	Size
Sanduleak 3-133 PK 27+4.1	1	18 26 40.1	-02 42 58	16.8p	-	15"

Kohoutek 3-4 (Serpens)



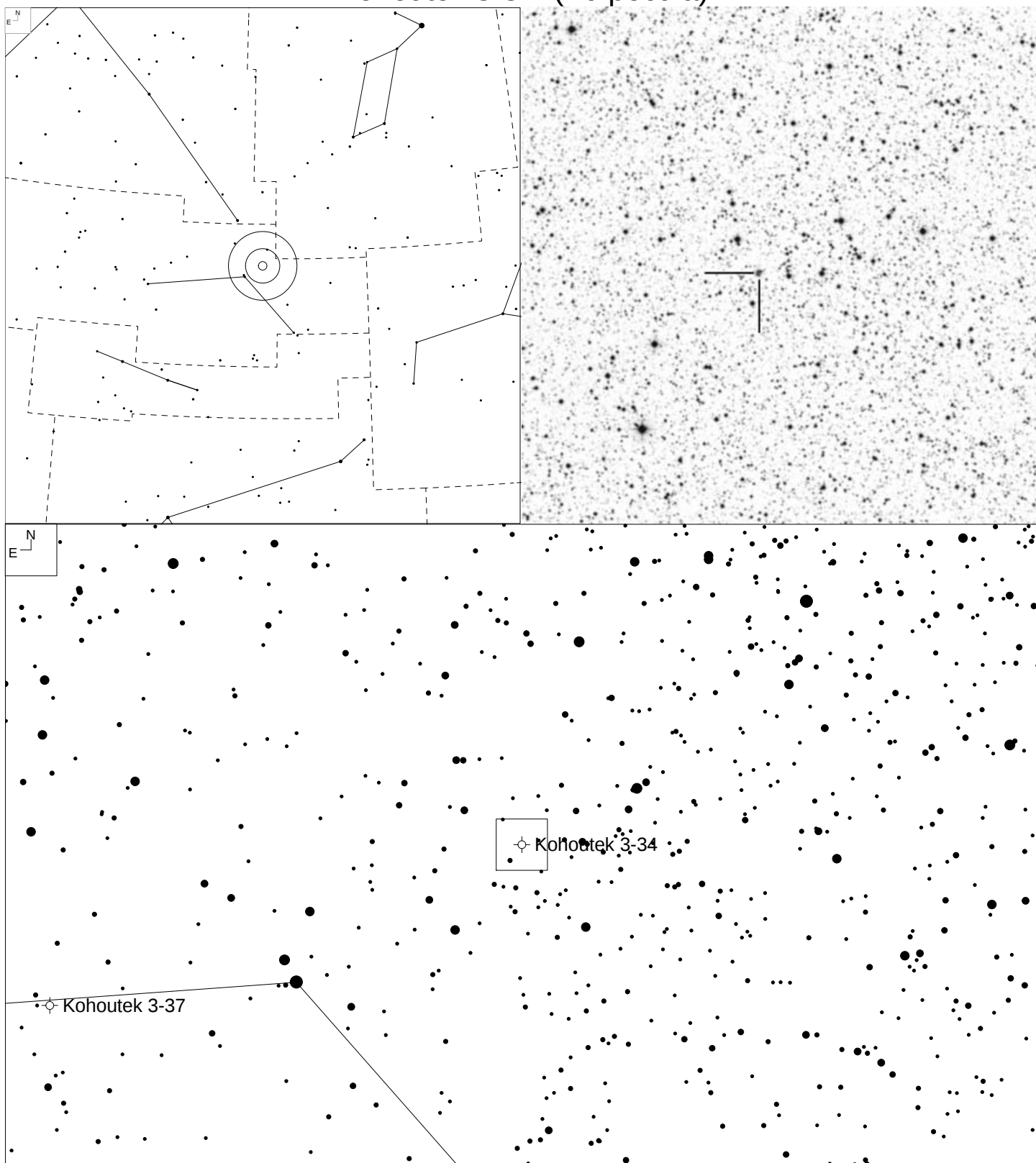
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 32+5.1	3b+2	18 31 00.3	+02 25 23	15.7p 14.6v	-	13x11"

RCW 181 (Serpens)



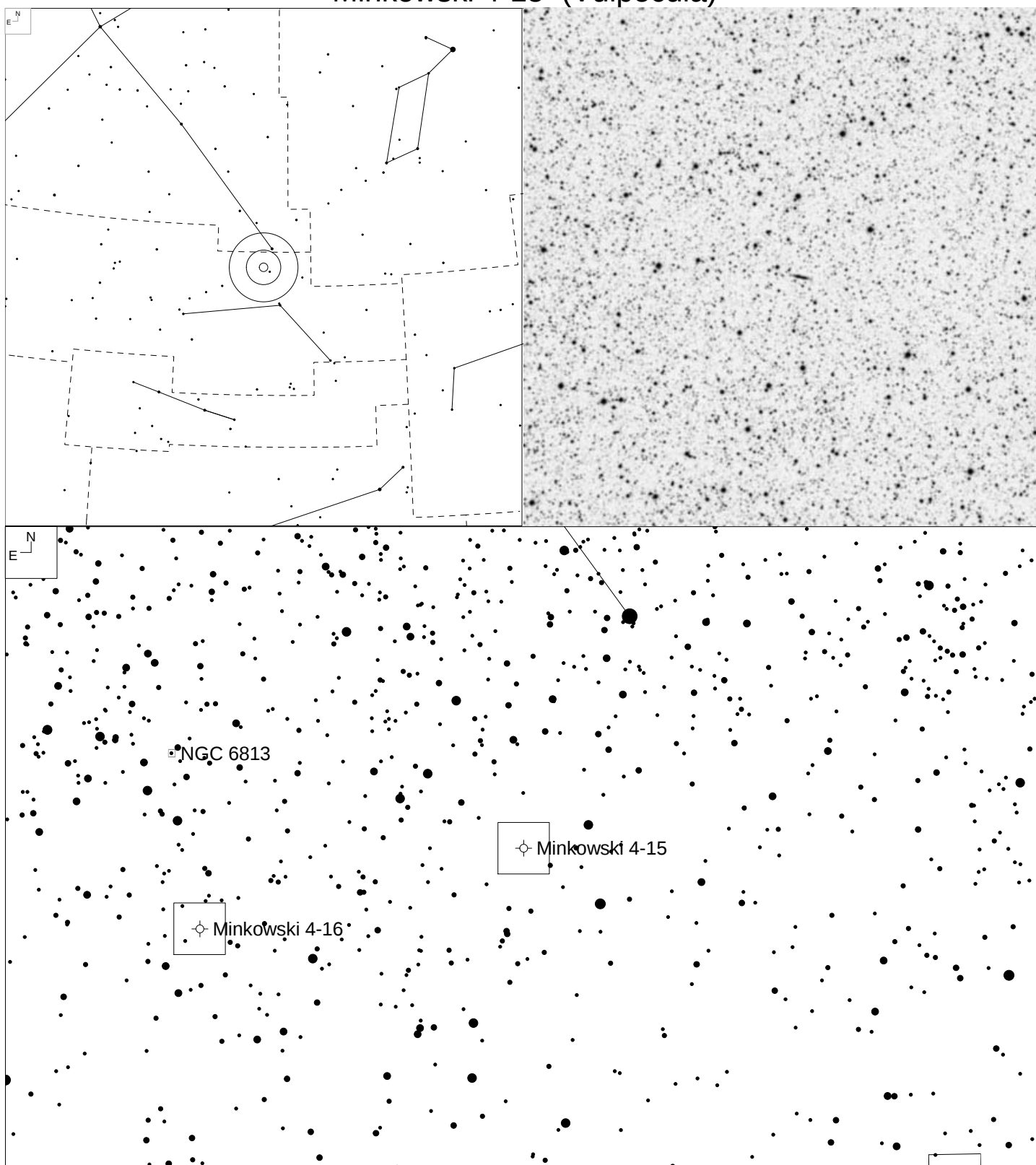
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 38+2.1	3b	18 54 56.9	+06 02 41	-	-	5.1'

Kohoutek 3-34 (Vulpecula)



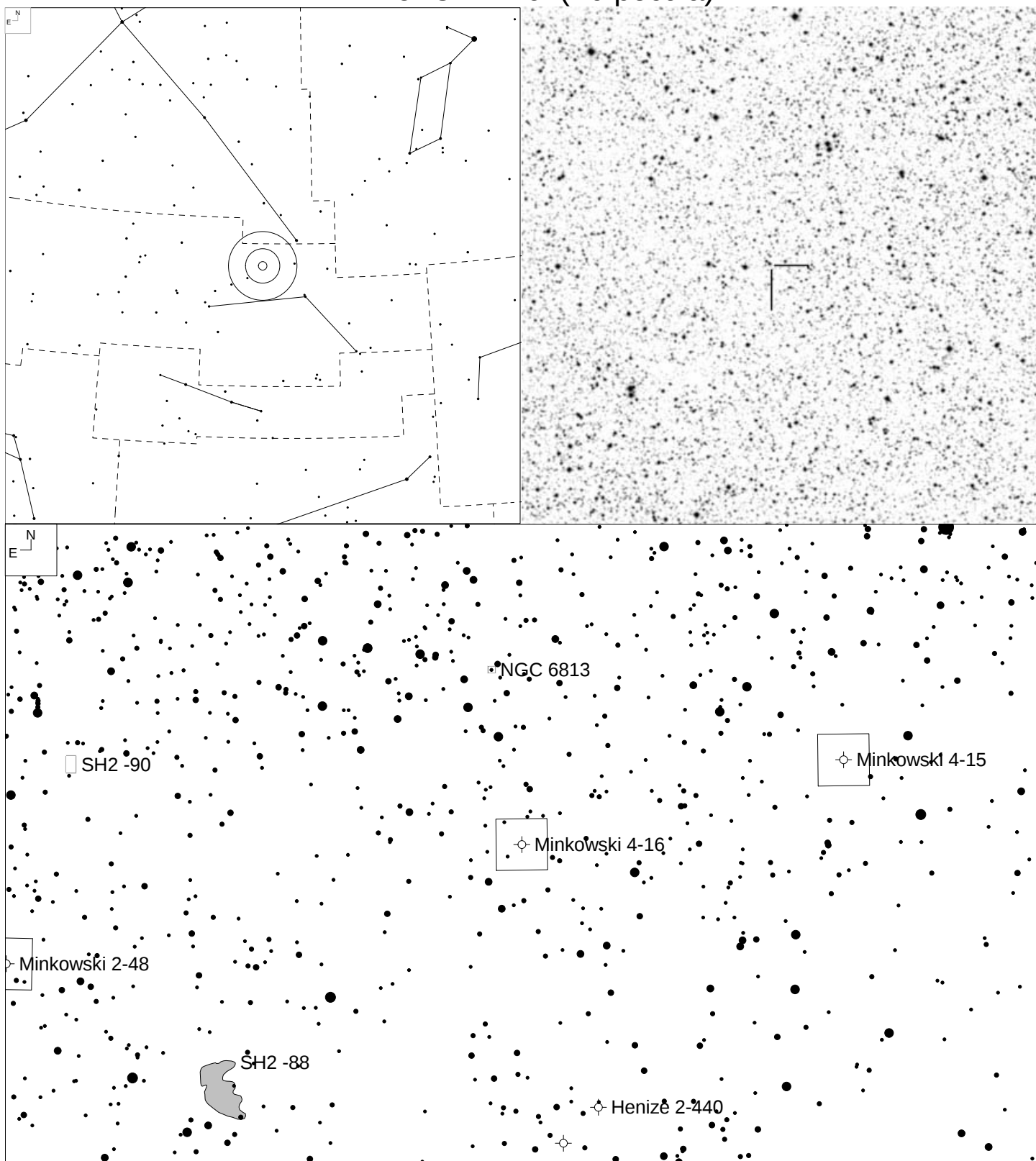
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 59+4.1	-	19 24 02.9	+25 18 47	15.8p	-	10"

Minkowski 4-15 (Vulpecula)



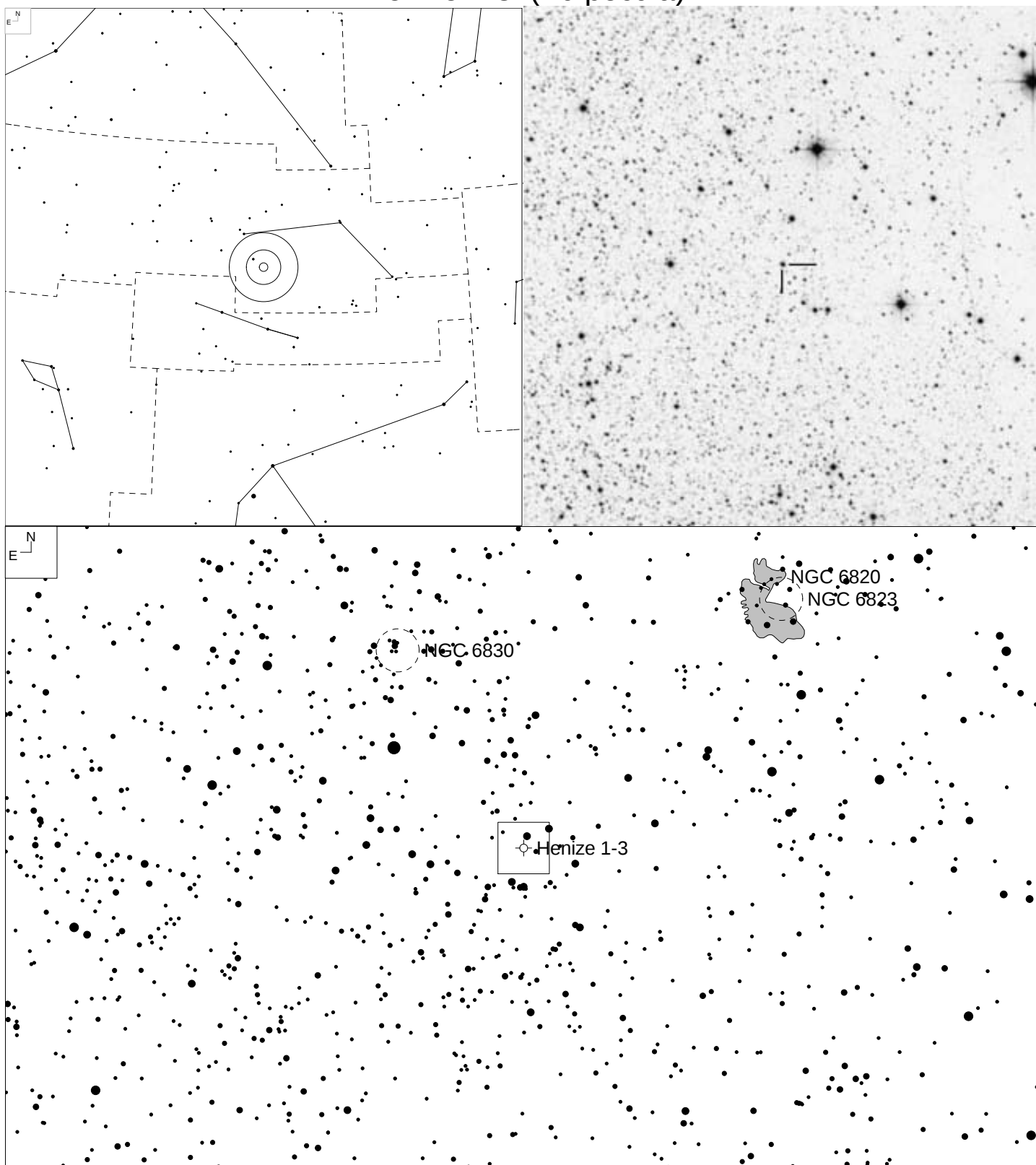
Other ID	Type	RA	Dec	Mag	* Mag	Size
Henize 2-437	6	19 32 57.8	+26 52 41	16.9p	-	35 x 7"
PK 61+3.1						

Minkowski 4-16 (Vulpecula)



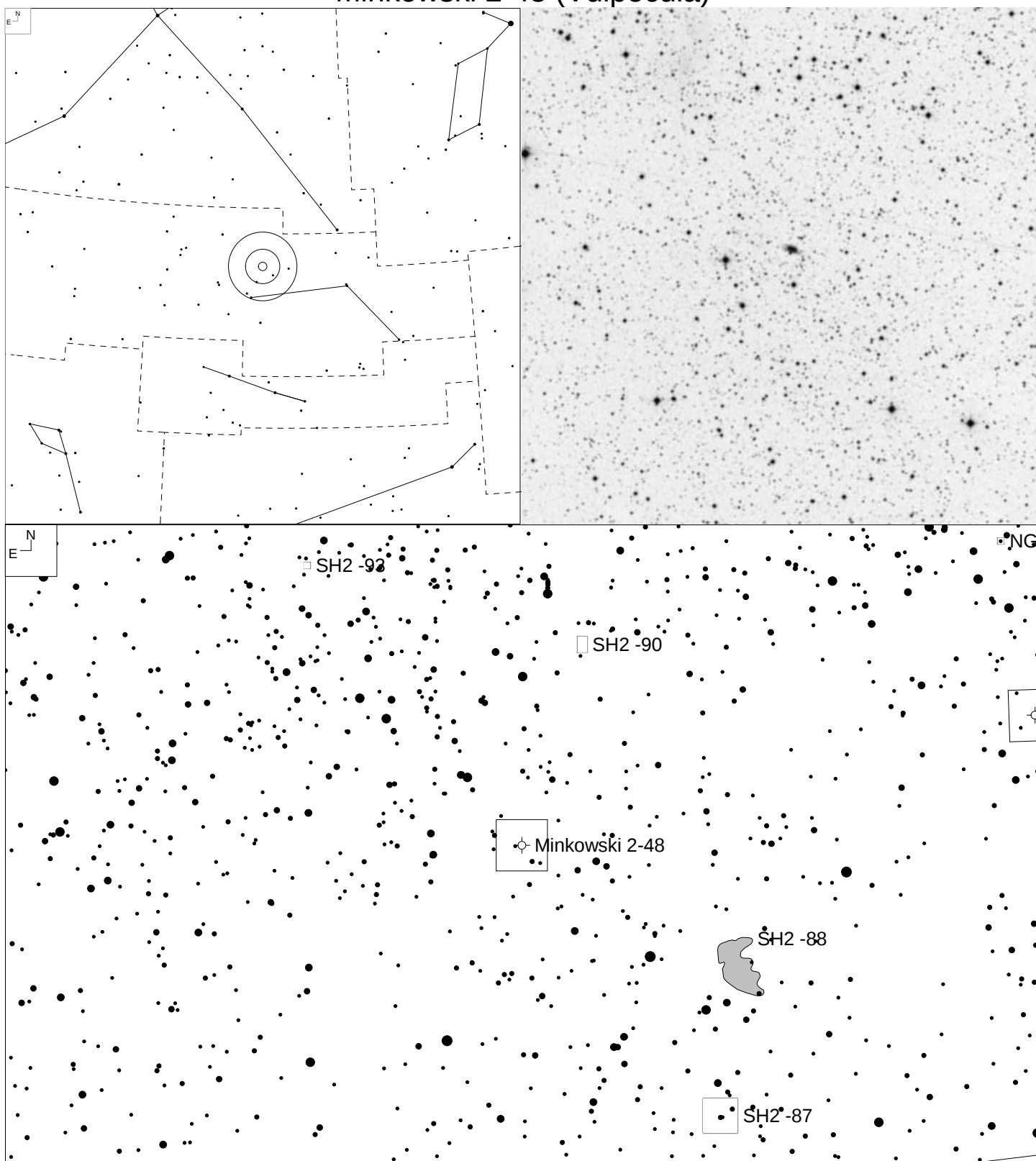
Other ID	Type	RA	Dec	Mag	* Mag	Size
Henize 2-442	-	19 39 43.5	+26 29 30	16.2	-	10"
PK 61+2.1						

Henize 1-3 (Vulpecula)



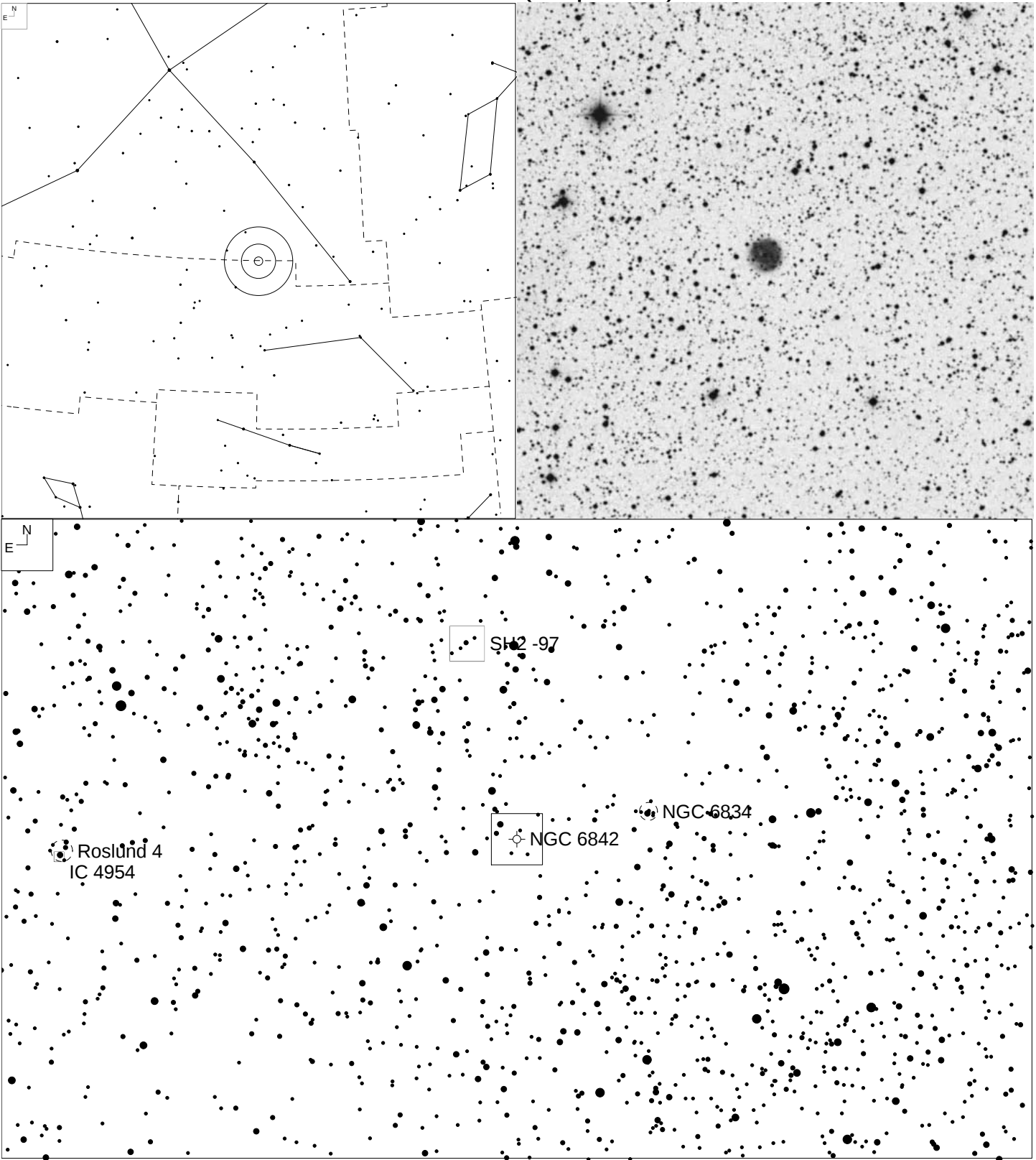
Other ID	Type	RA	Dec	Mag	* Mag	Size
Henize 2-448 PK 59-1.1	2	19 48 26.4	+22 08 34	16.0	11.6	12"

Minkowski 2-48 (Vulpecula)



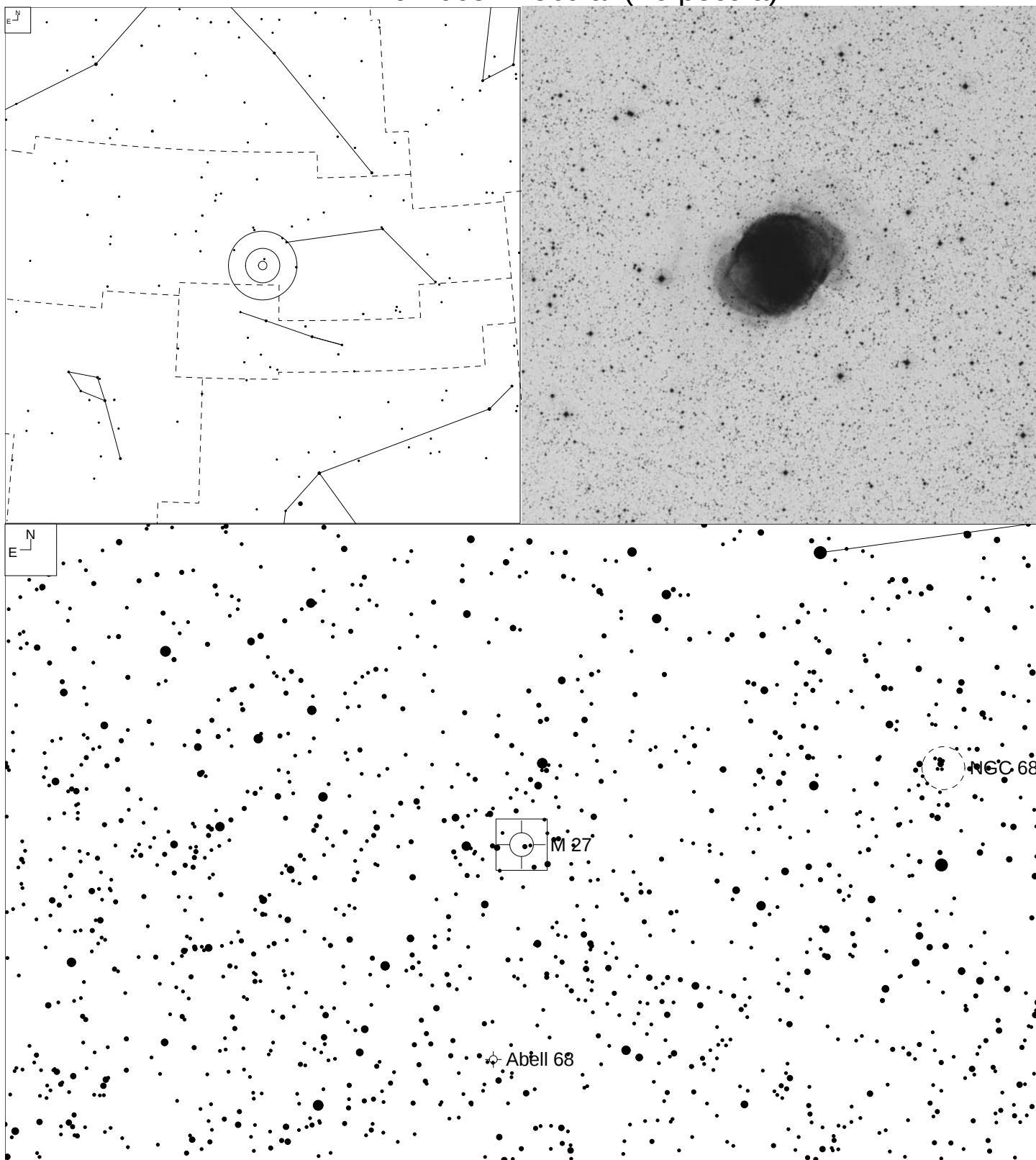
Other ID	Type	RA	Dec	Mag	* Mag	Size
Henize 2-449	3	19 50 28.6	+25 54 27	16.5p	-	29 x 13"
PK 62-0.1						

NGC 6842 (Vulpecula)



Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 65-0.1	3b	19 55 02.4	-29 17 17	13.6p 13.1v	16.2	50"

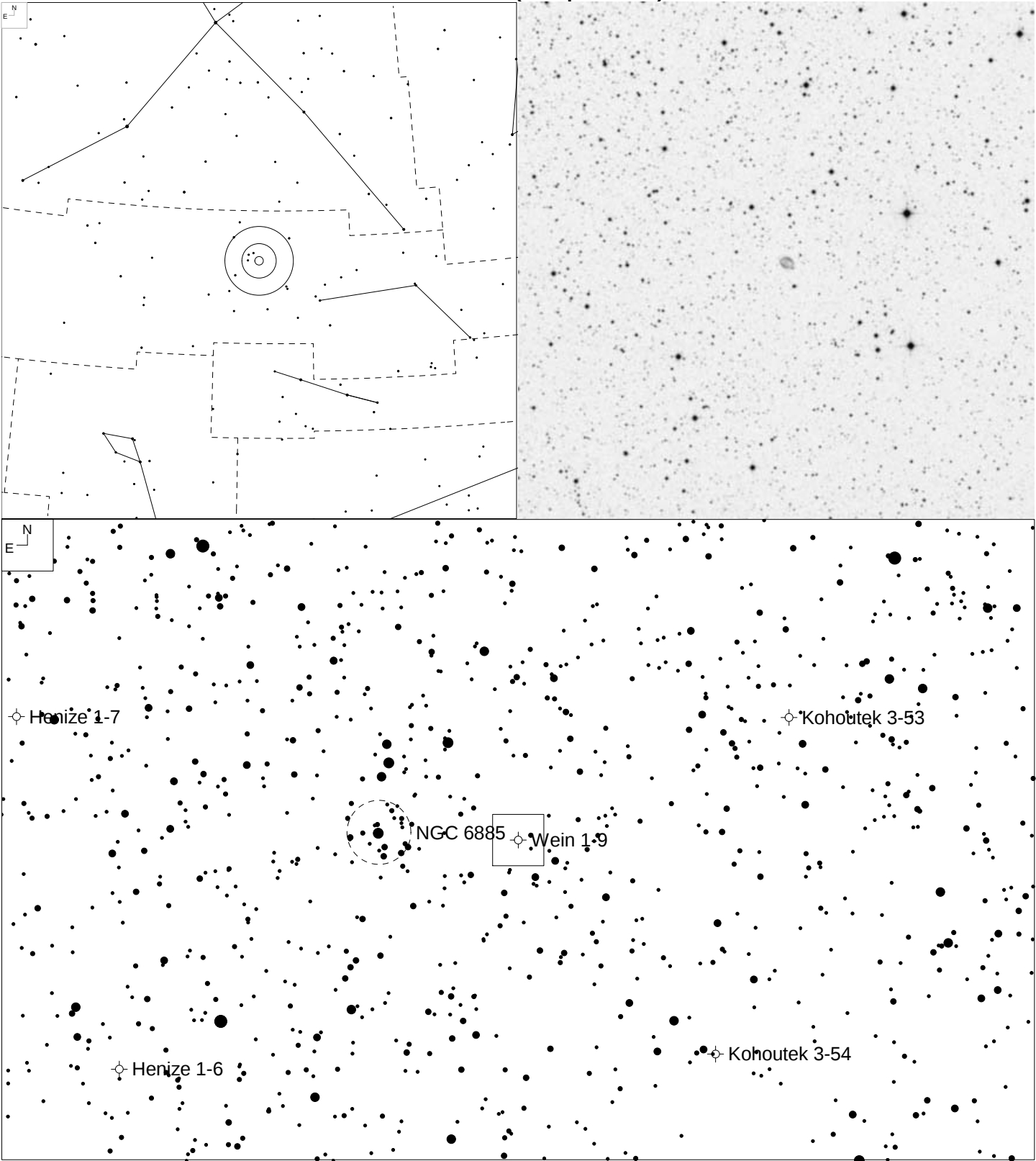
M-27 – Dumbbell Nebula (Vulpecula)



Extension needs large aperture. Knots on halo is visible.

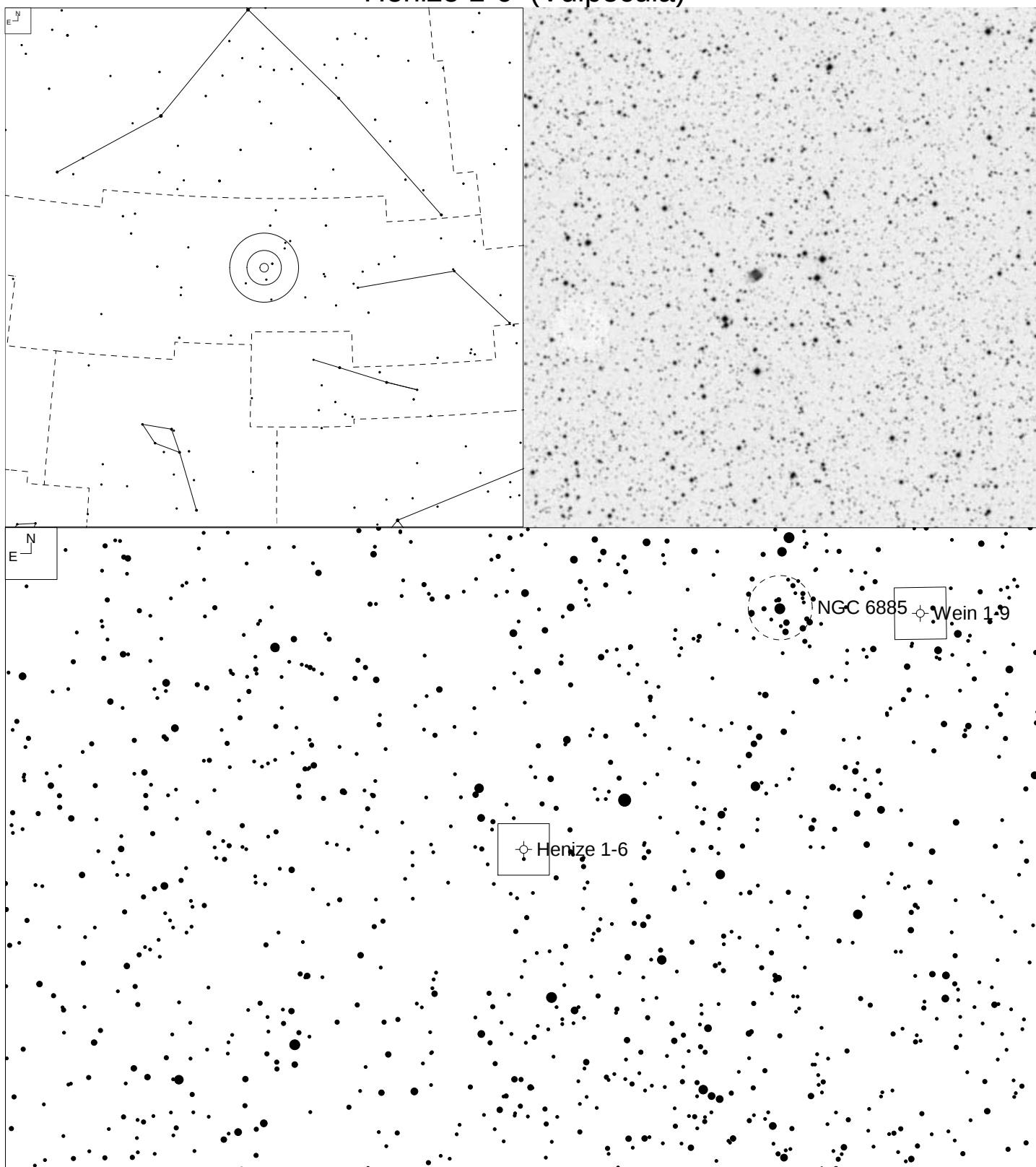
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 60-3.1	3+2	19 59 36.1	+22 43 13	7.6p 7.4v	13.8	6.7'

Wein 1-9 (Vulpecula)



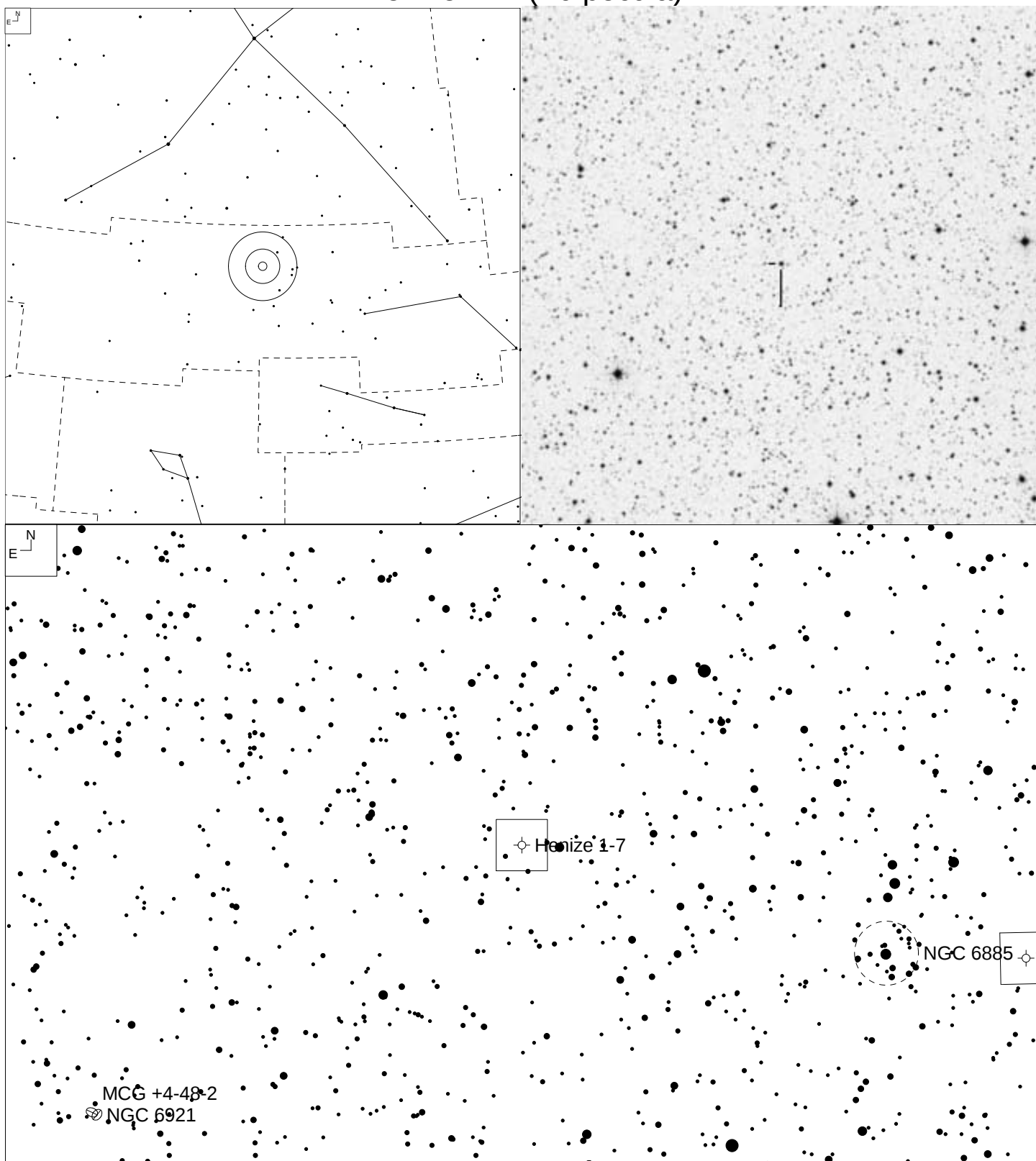
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 65-3.1	-	20 09 04.7	+26 26 55	-	21.0	24"

Henize 1-6 (Vulpecula)



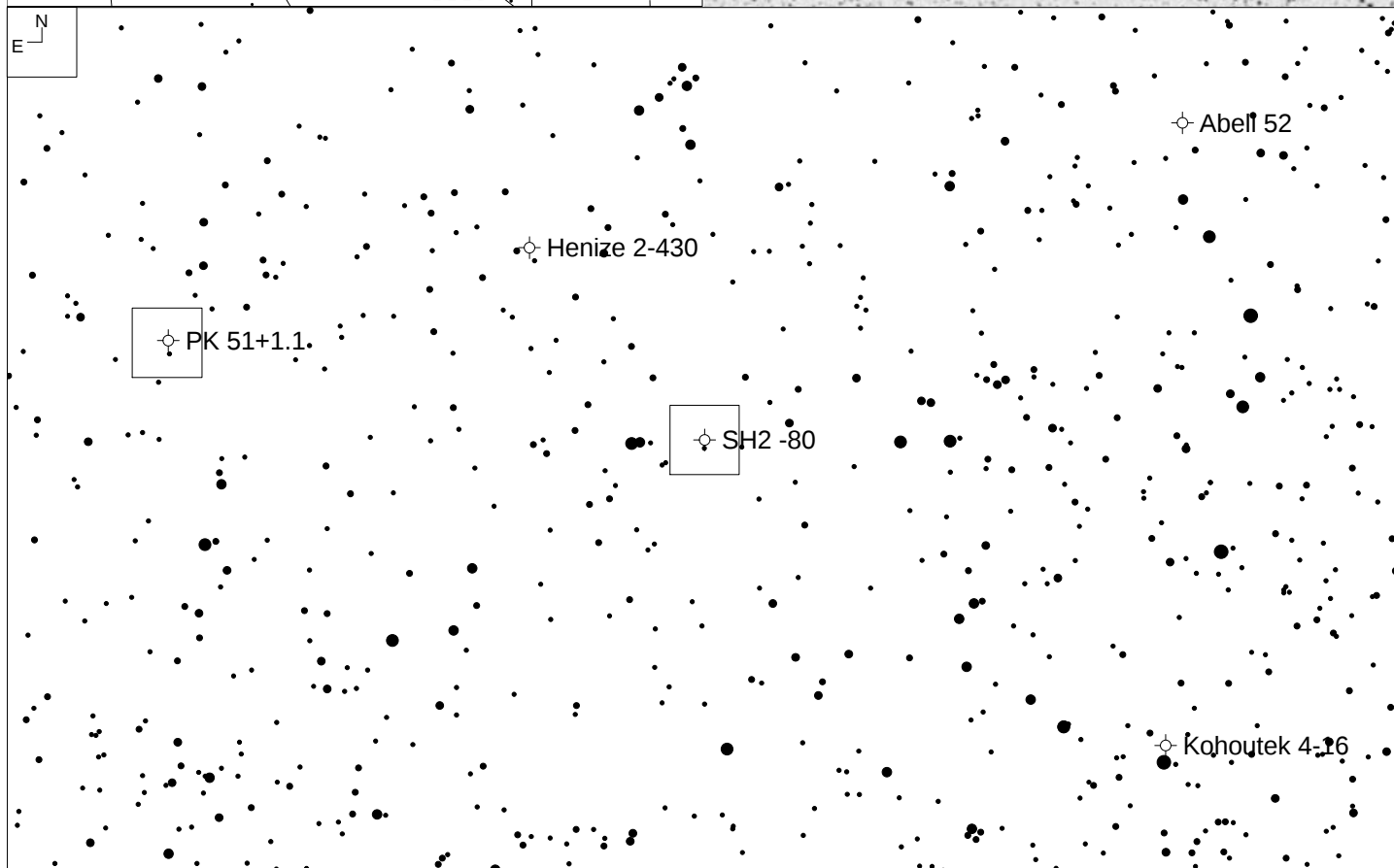
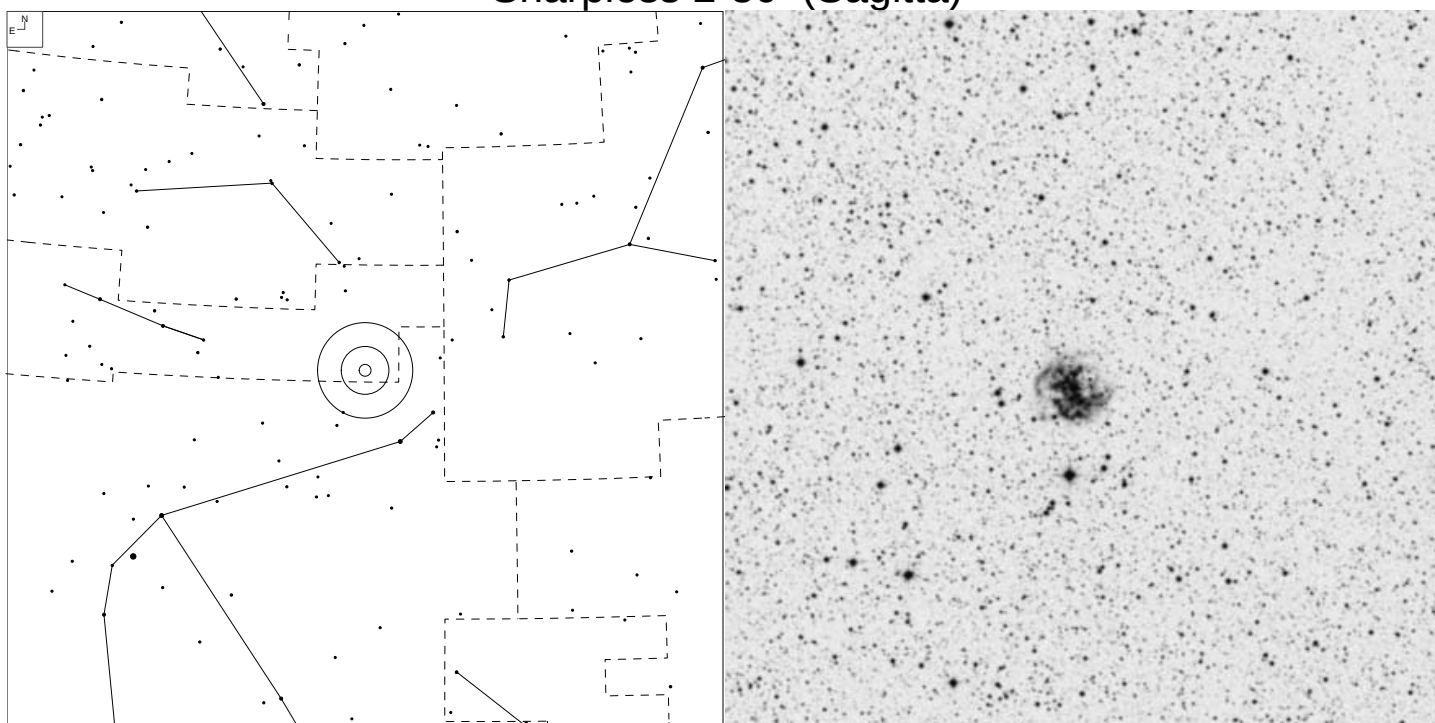
Other ID	Type	RA	Dec	Mag	* Mag	Size
Henize 2-462 PK 65-5.1	3+2	20 17 21.5	+25 21 44	14.9p	-	24"

Henize 1-7 (Vulpecula)



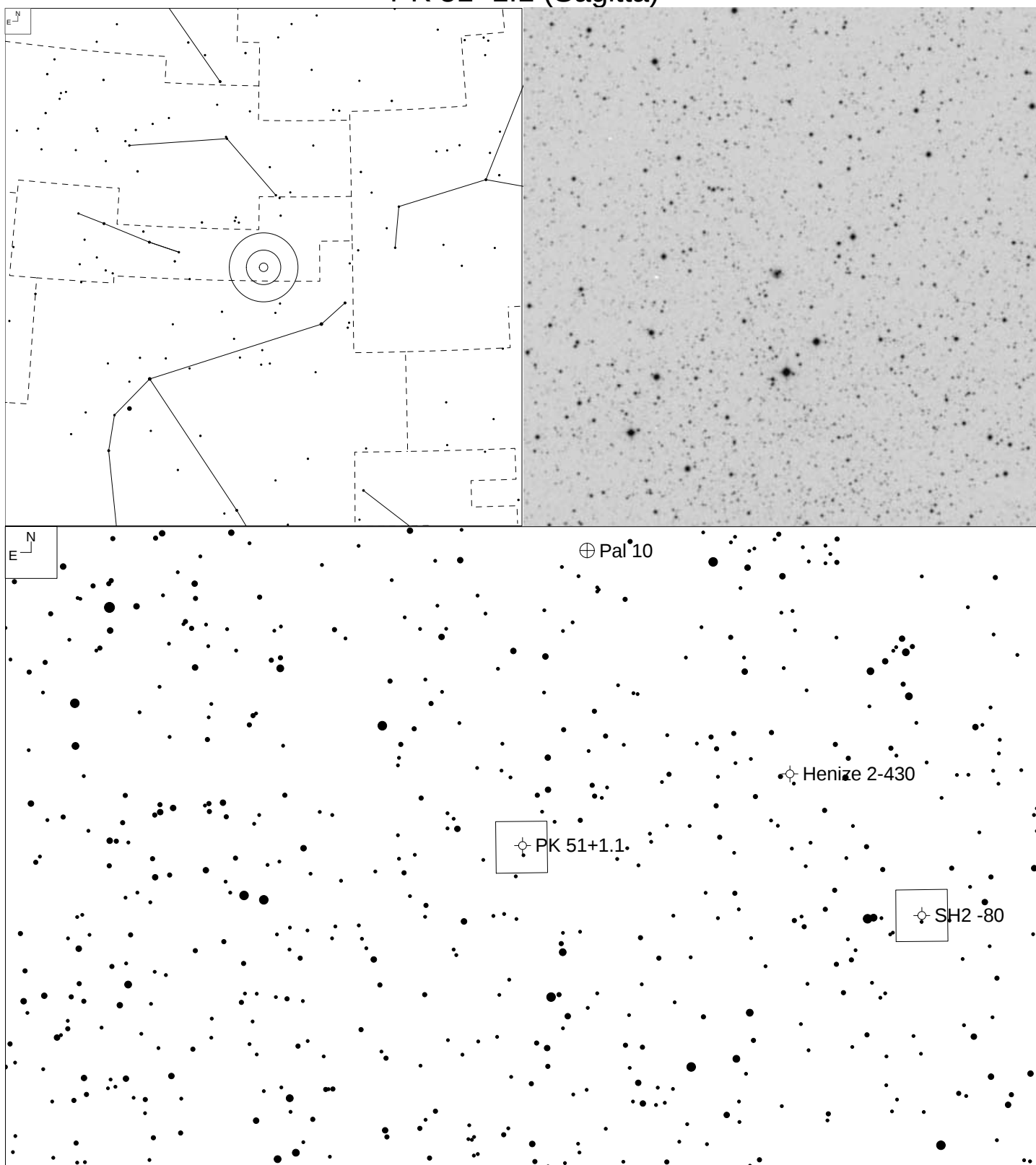
Other ID	Type	RA	Dec	Mag	* Mag	Size
Henize 2-463	-	20 19 38.3	+27 00 08	13.5p	-	5"
PK 66-5.1						

Sharpless 2-80 (Sagitta)



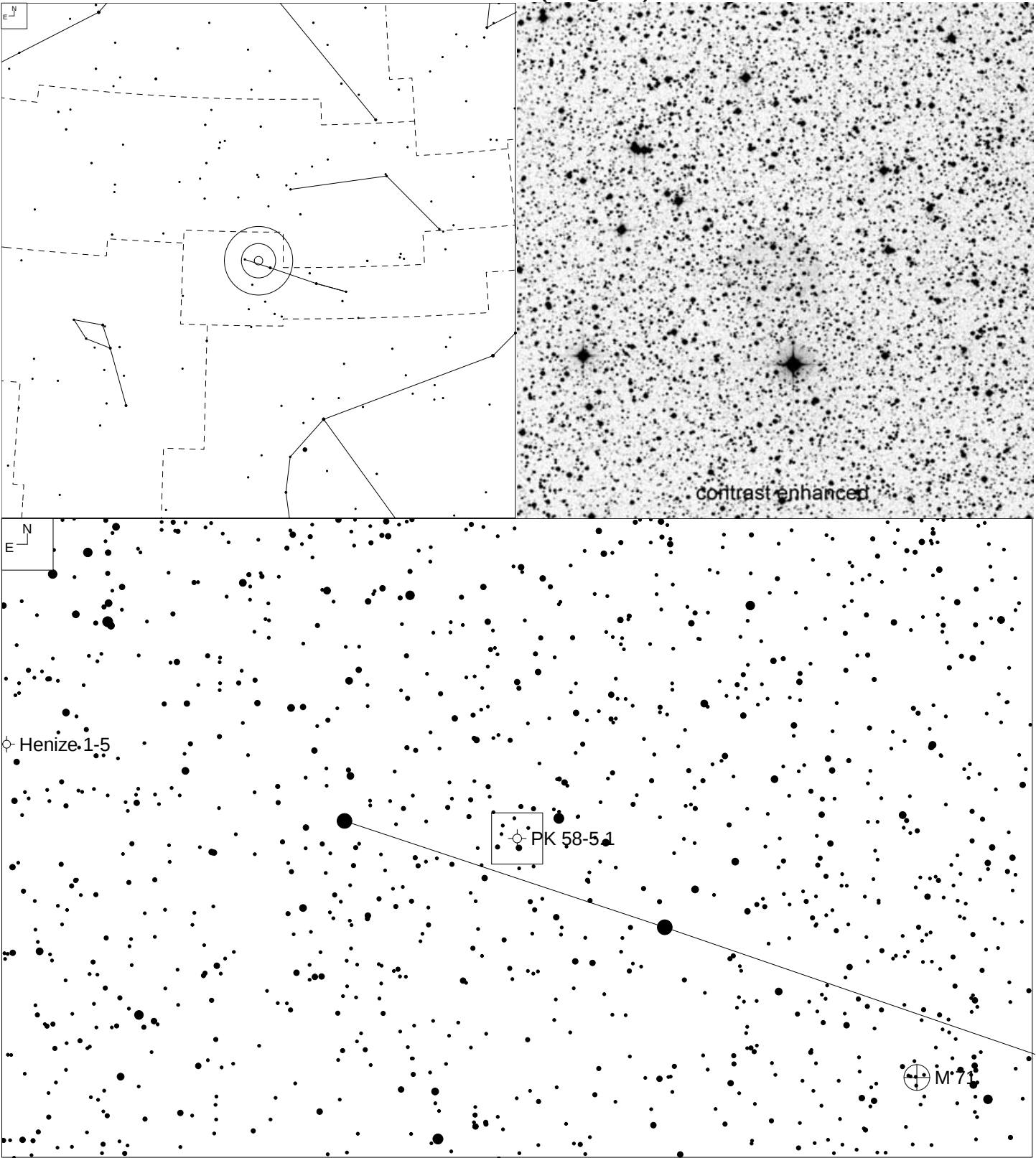
Other ID	Type	RA	Dec	Mag	* Mag	Size
Minkowski 1-67	-	19 11 30.9	+16 51 35	8.2IR	11.1	1.8'
Henize 2-427						
PK 50+3.1						

PK 51+1.1 (Sagitta)



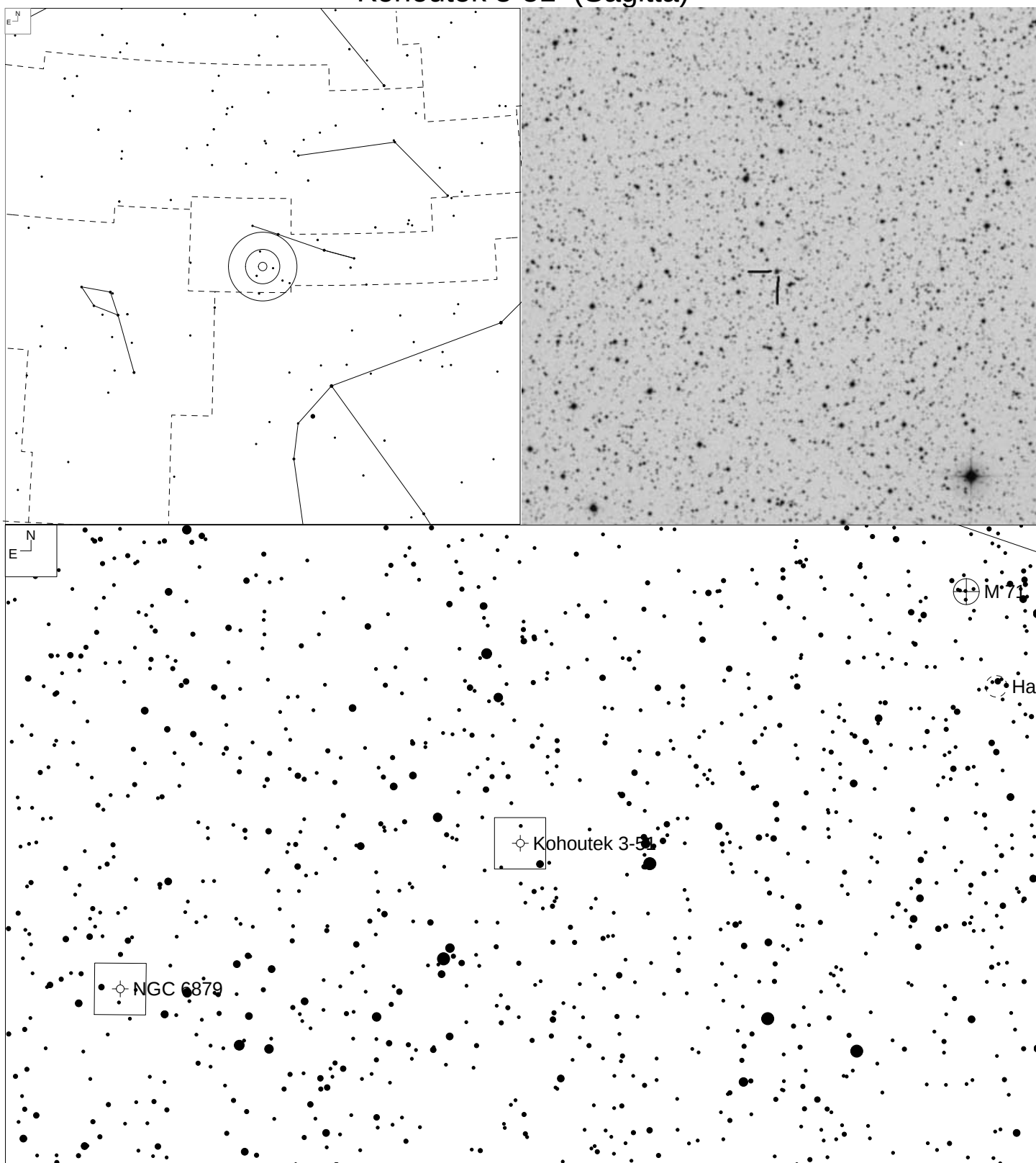
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	4	19 19 18.8	+17 11 45	-	15.1	20"

PK 58-5.1 (Sagitta)



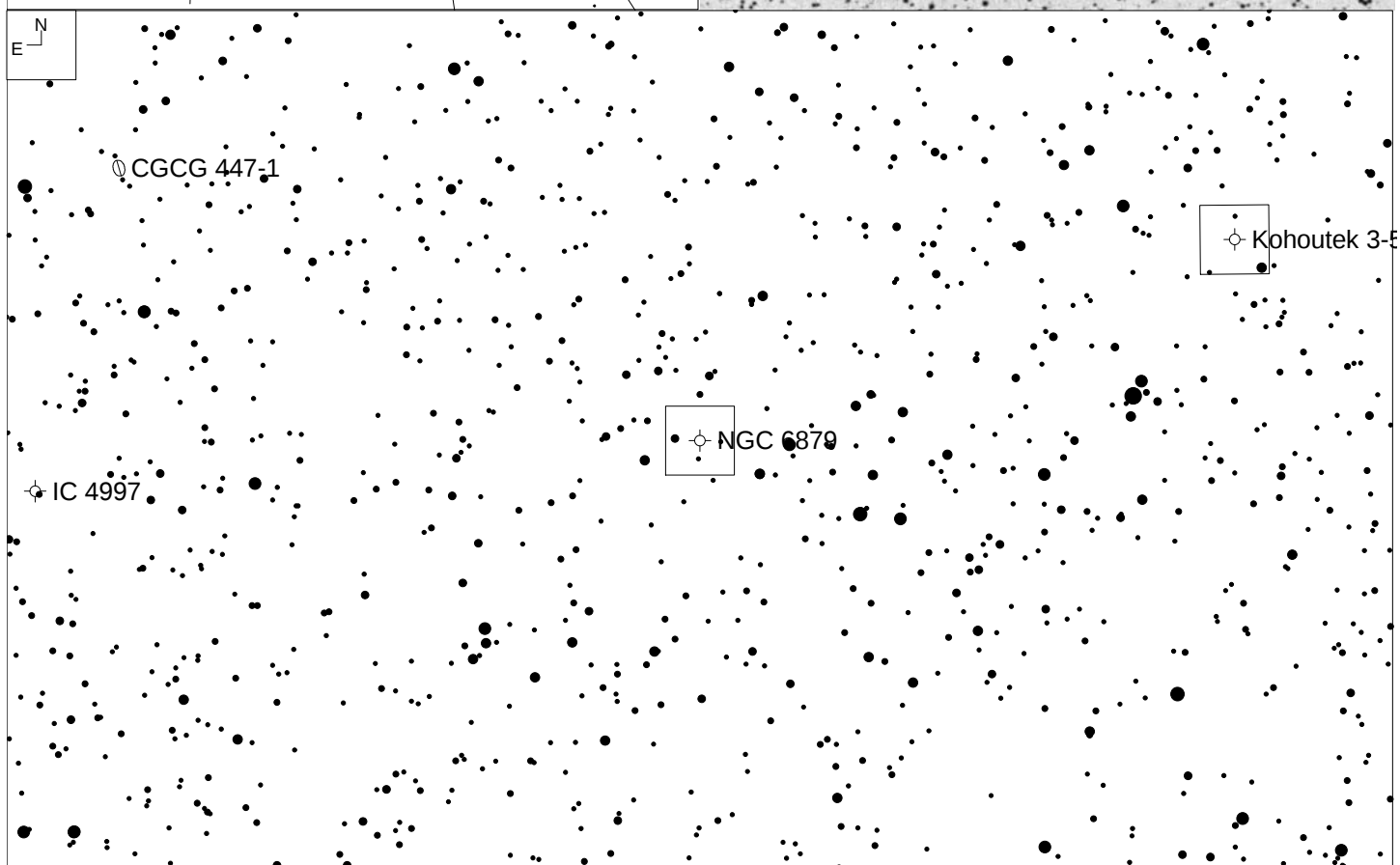
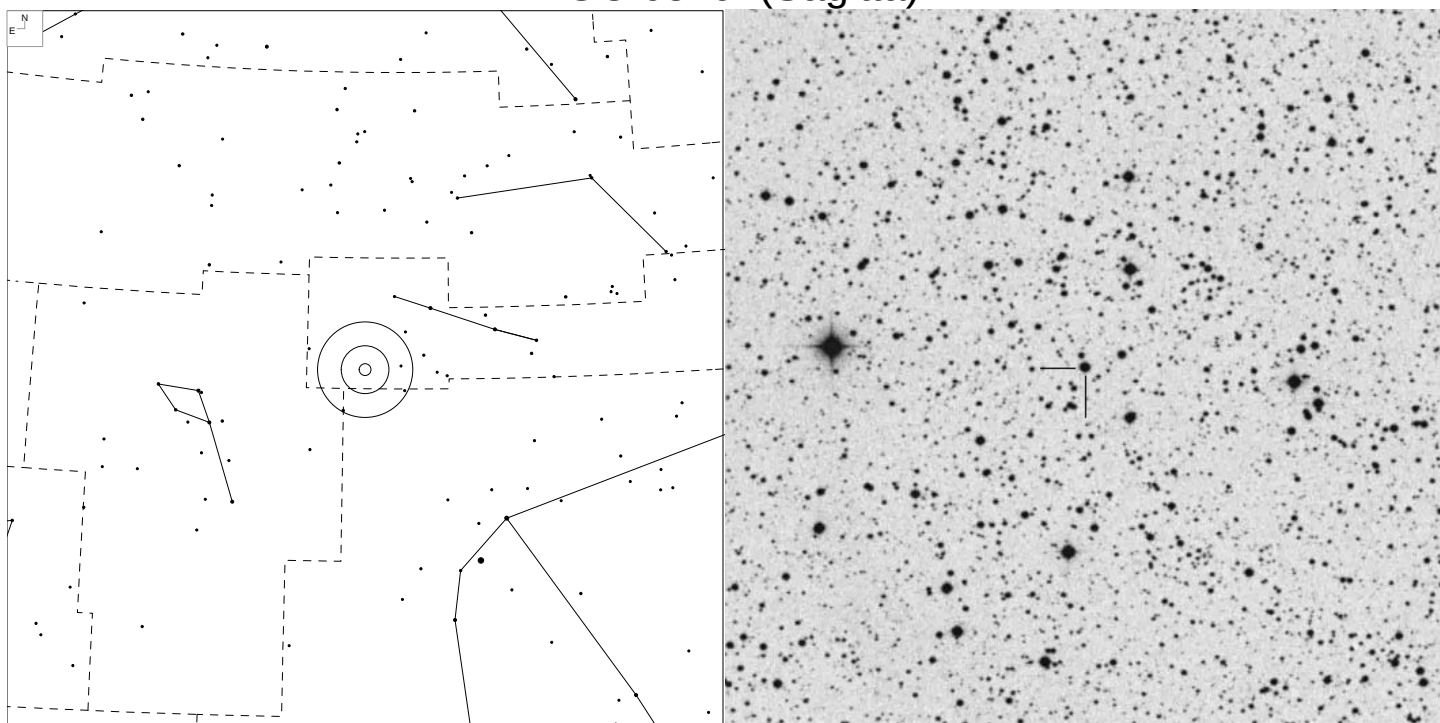
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	20 01 42.1	+19 54 37	-	17.4	2.5'

Kohoutek 3-51 (Sagitta)



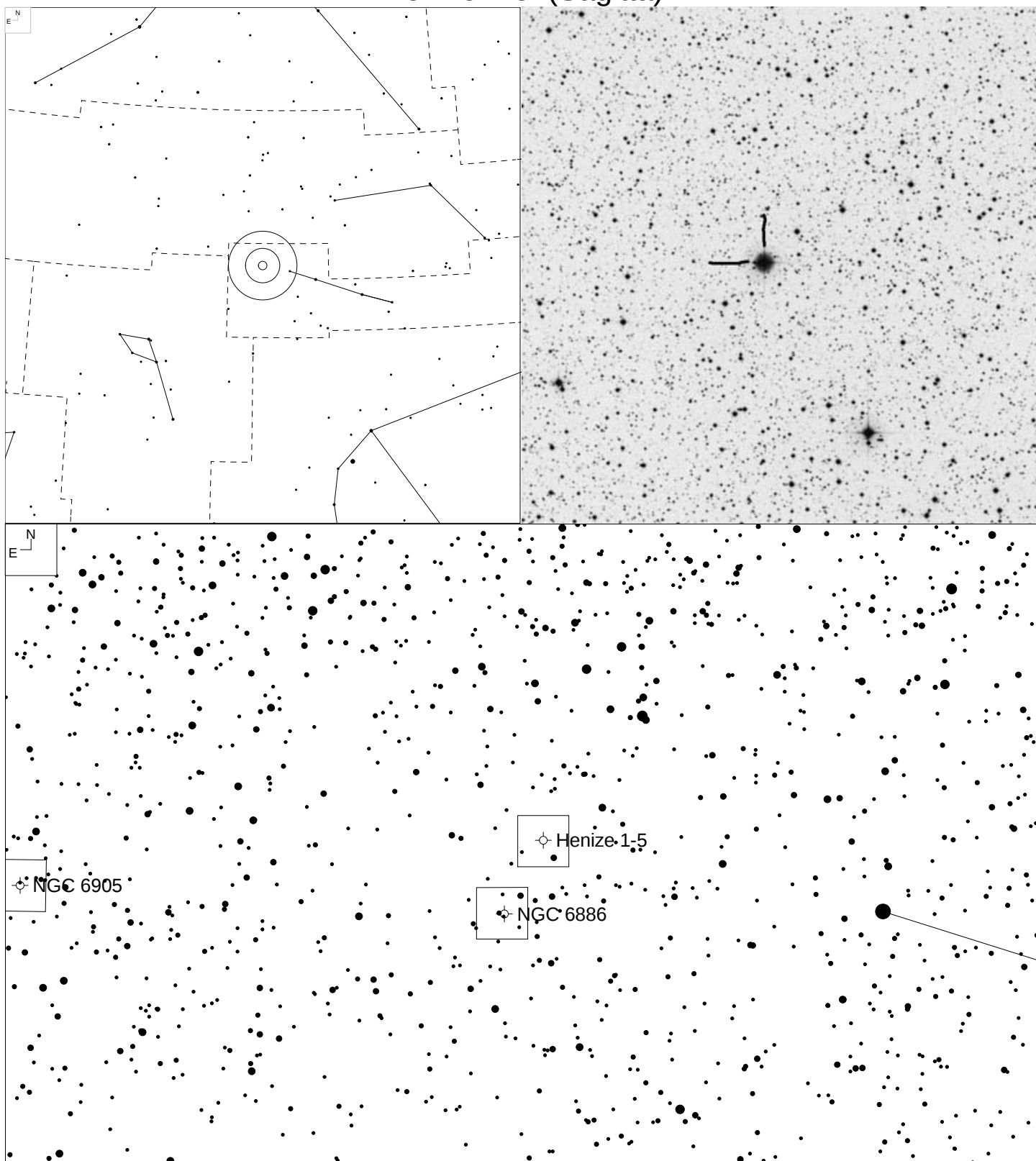
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 56-6.1	-	20 02 36.4	+17 36 50	14.7p	-	15"

NGC 6879 (Sagitta)



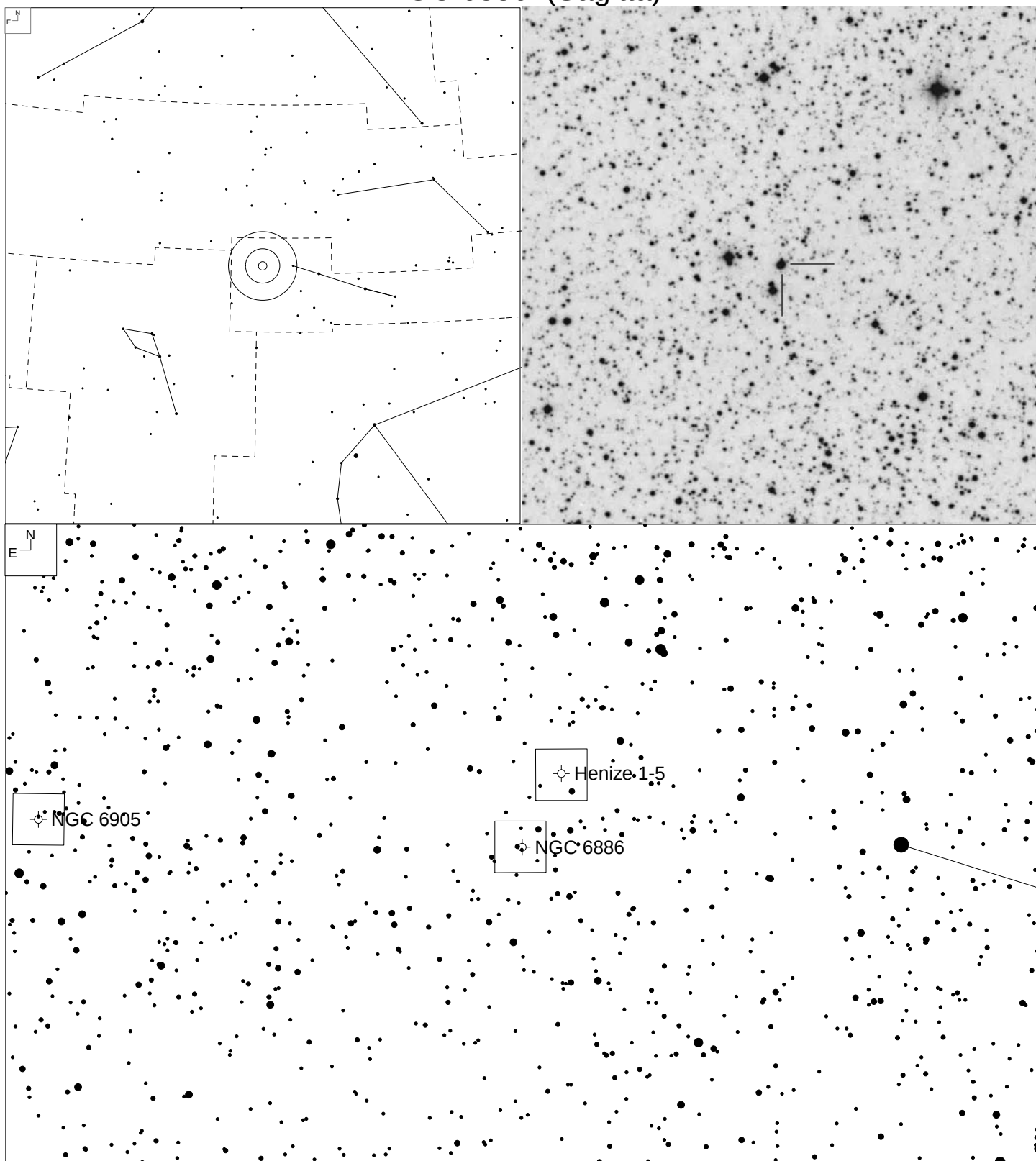
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 57-8.1	2a	20 10 26.8	+16 55 19	13.0p 12.5v	14.8	8"

Henize 1-5 (Sagitta)



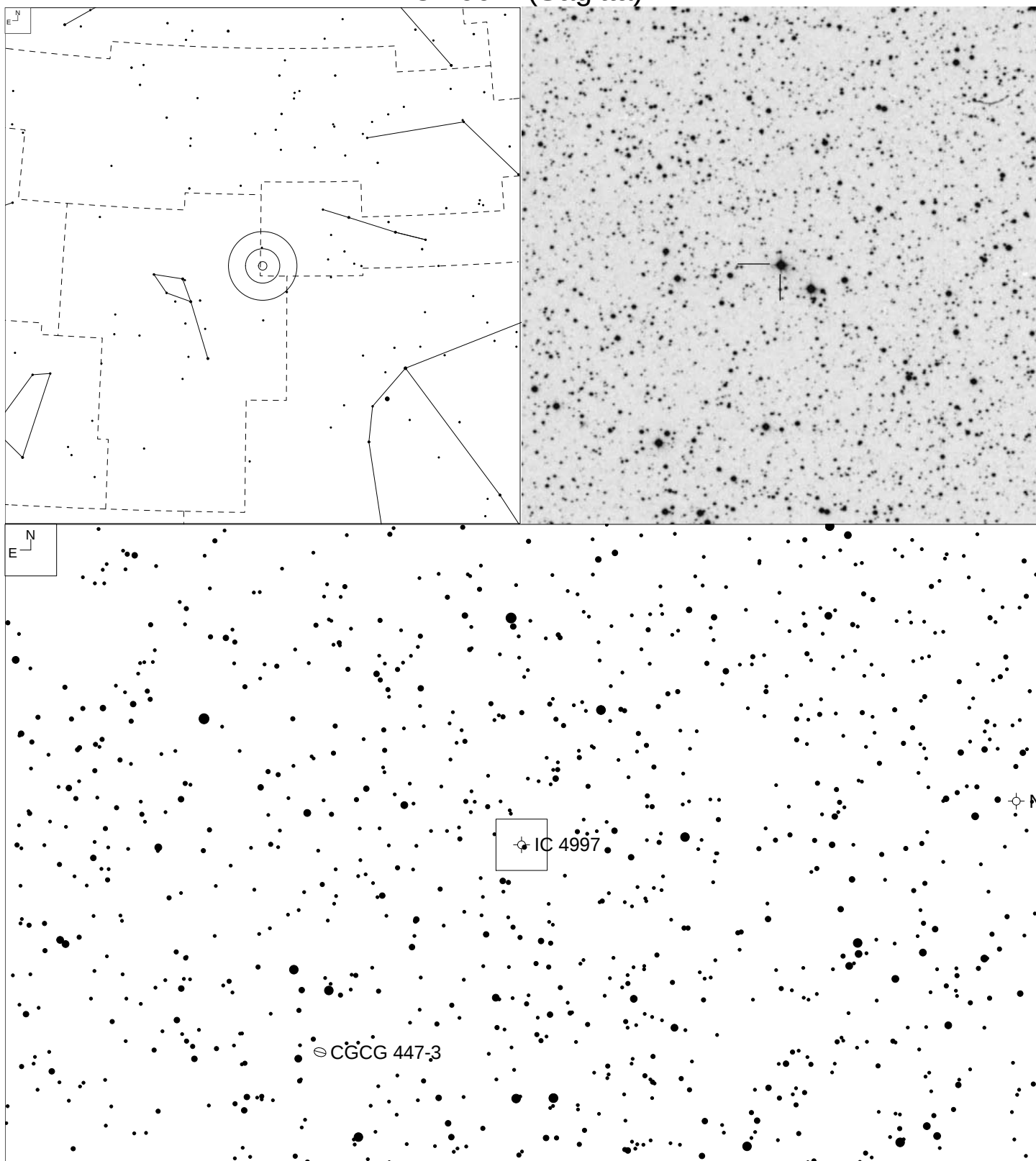
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 60-7.1	3+2	20 11 56.1	+20 20 04	16.2p	11.3	40"

NGC 6886 (Sagitta)



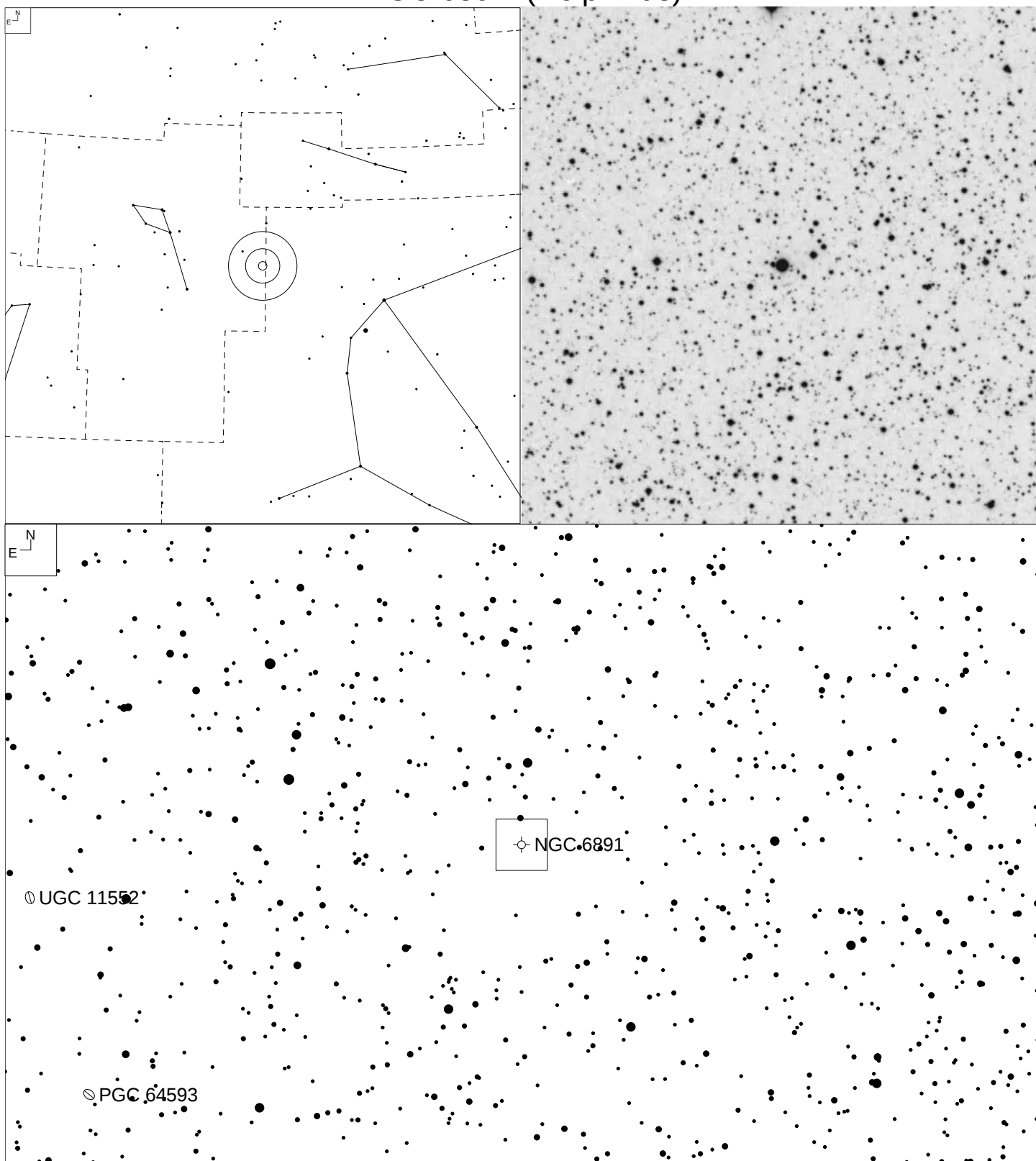
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 60-7.2	2+3	20 12 43.0	+19 59 20	12.2p 11.4v	18.0	6"

IC 4997 (Sagitta)



Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 58-10.1	1	20 20 08.8	+16 43 52	11.6p 10.5v	14.4	2"

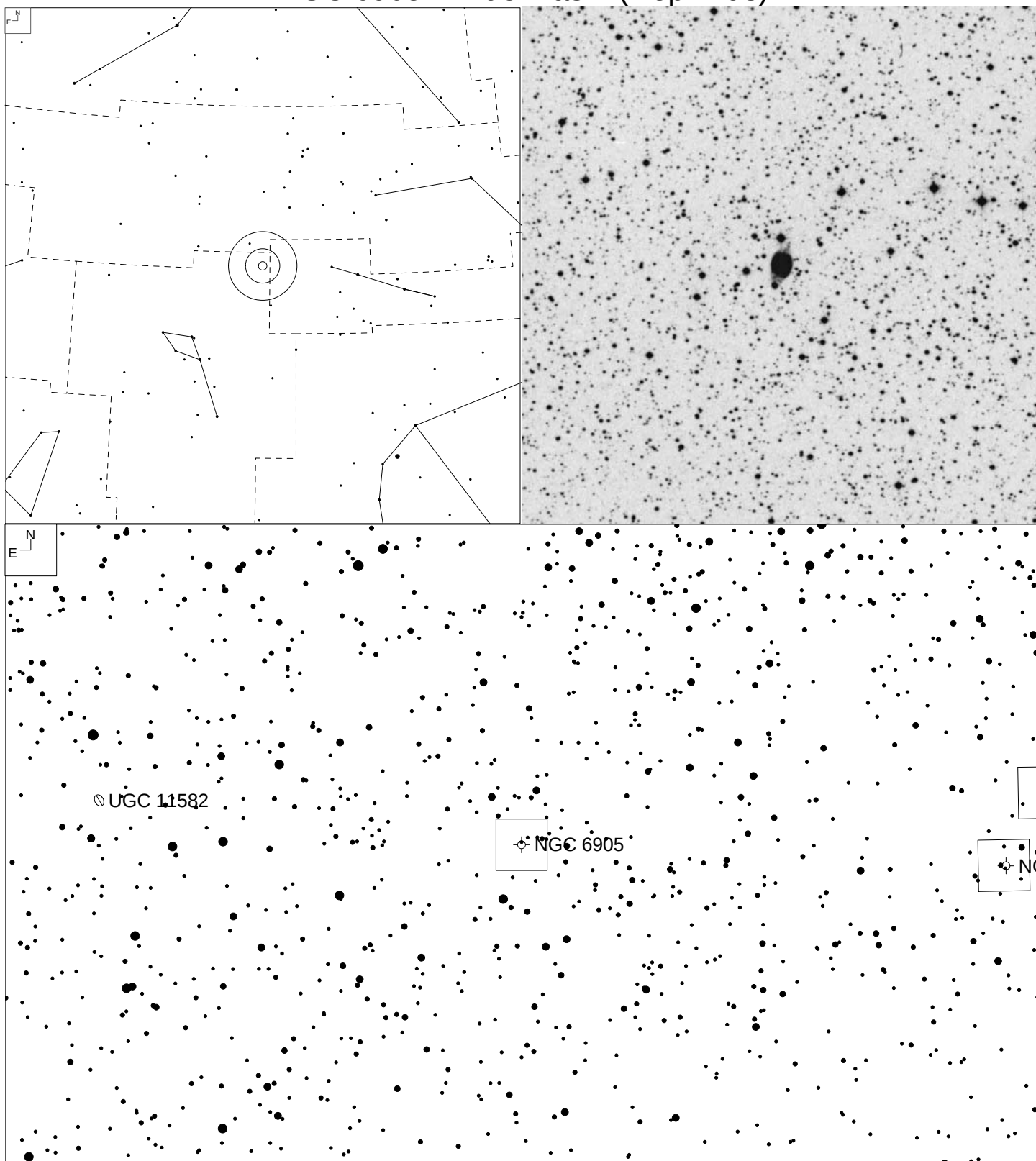
NGC 6891 (Delphinus)



Extension requires moderately high powers. Check by blinking with O-III filter.

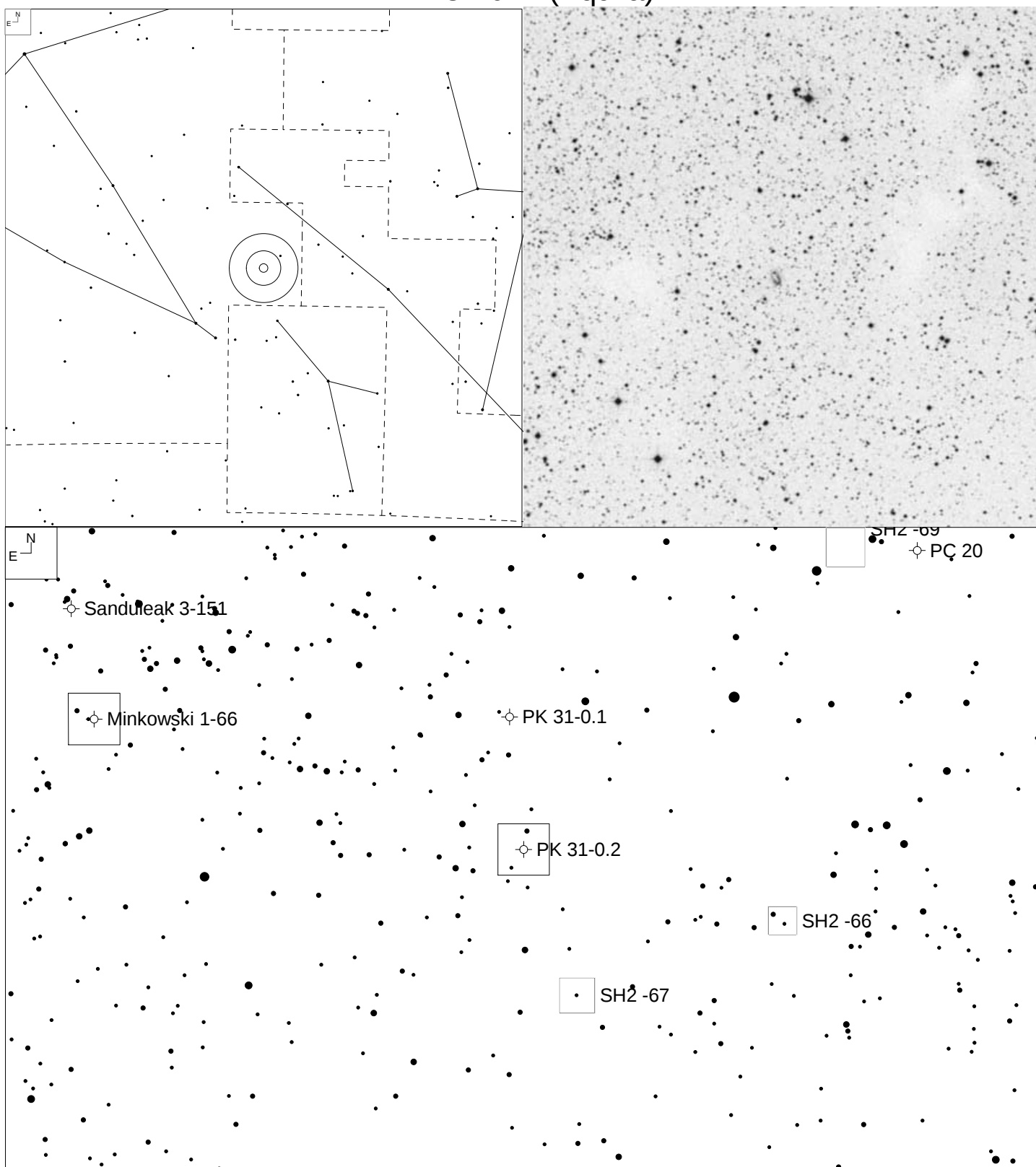
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 54-12.1	2a+2b	20 20 08.8	+16 43 52	11.7p 10.5v	12.44	12"

NGC 6905 – Blue Flash (Daphnus)



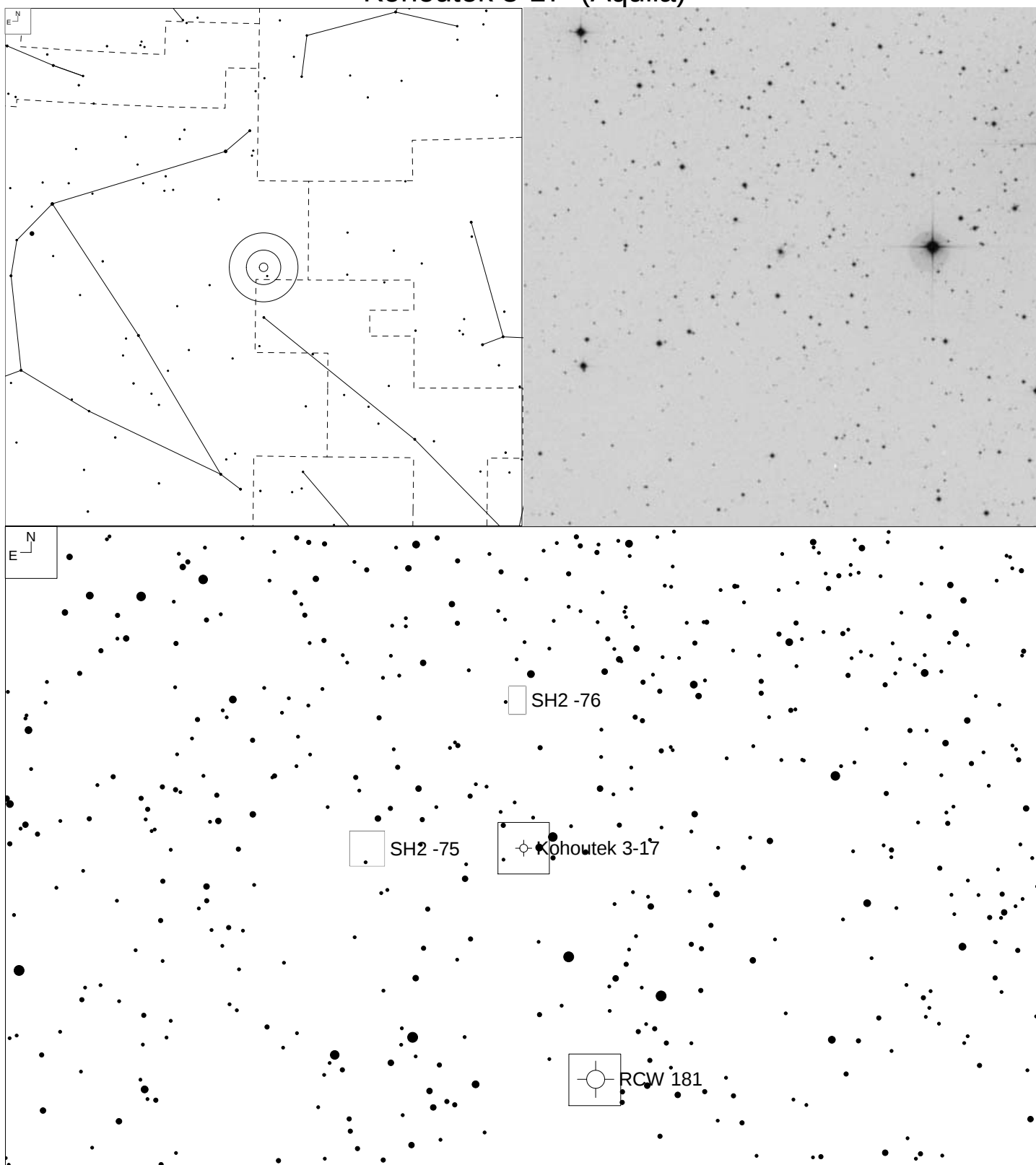
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 61-9.1	3+3	20 22 23.0	+20 06 16	11.9p 11.1v	15.5	72 x 37"

PK 31-0.2 (Aquila)



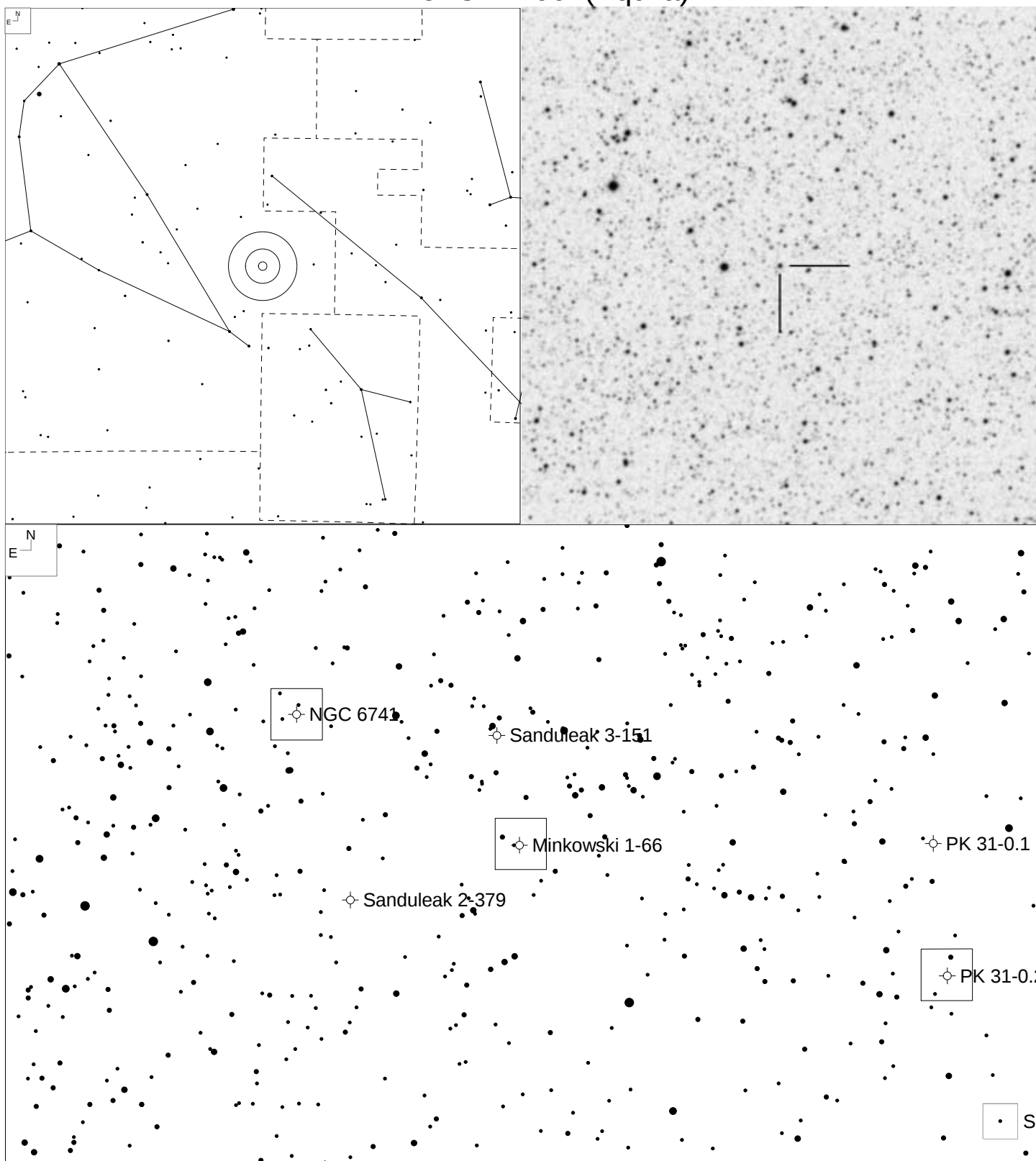
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	18 50 24.6	-01 40 22	-	-	25"

Kohoutek 3-17 (Aquila)



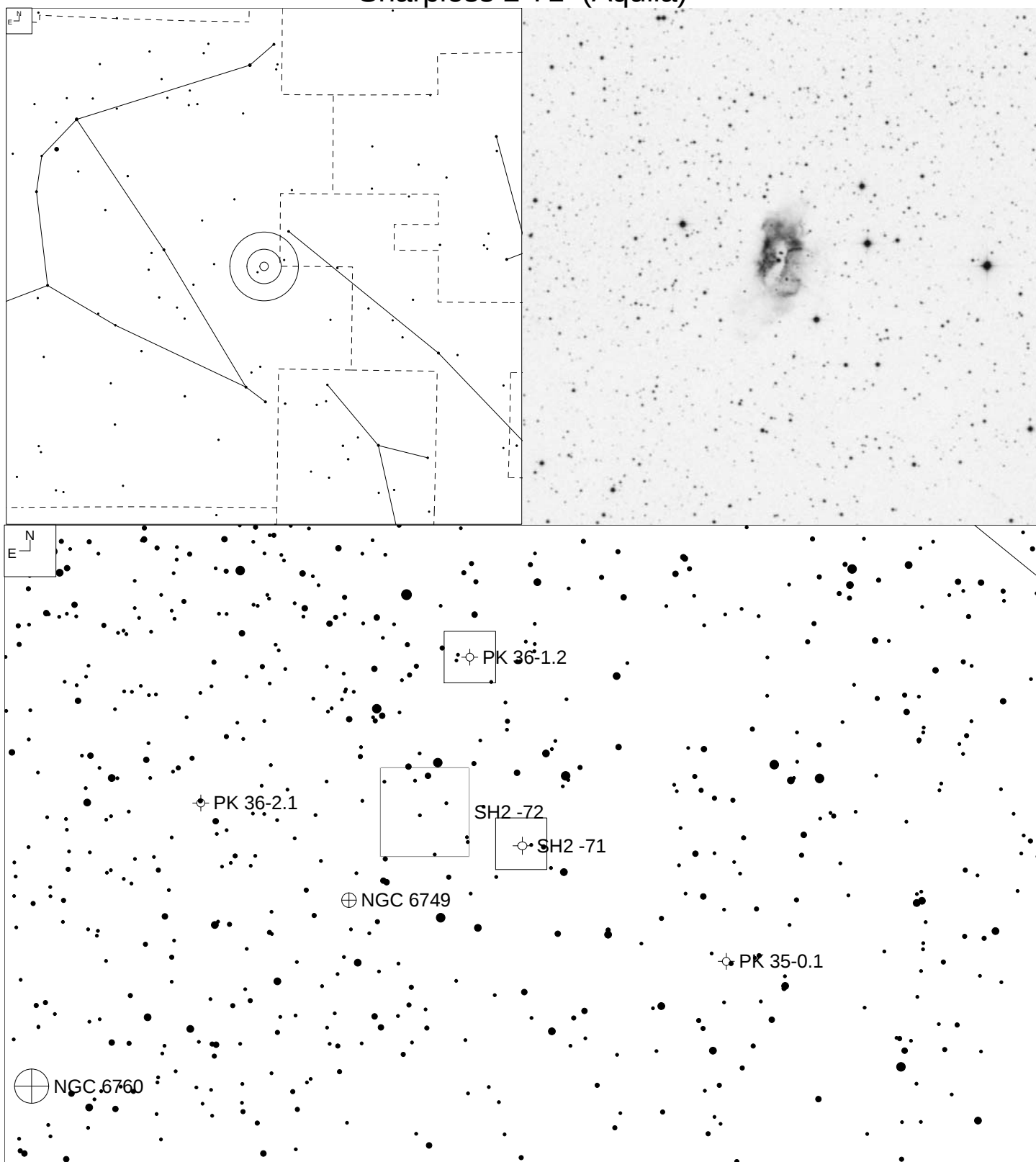
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 39+2.1	2	18 56 18.3	+07 07 22	-	-	15"

Minkowski 1-66 (Aquila)



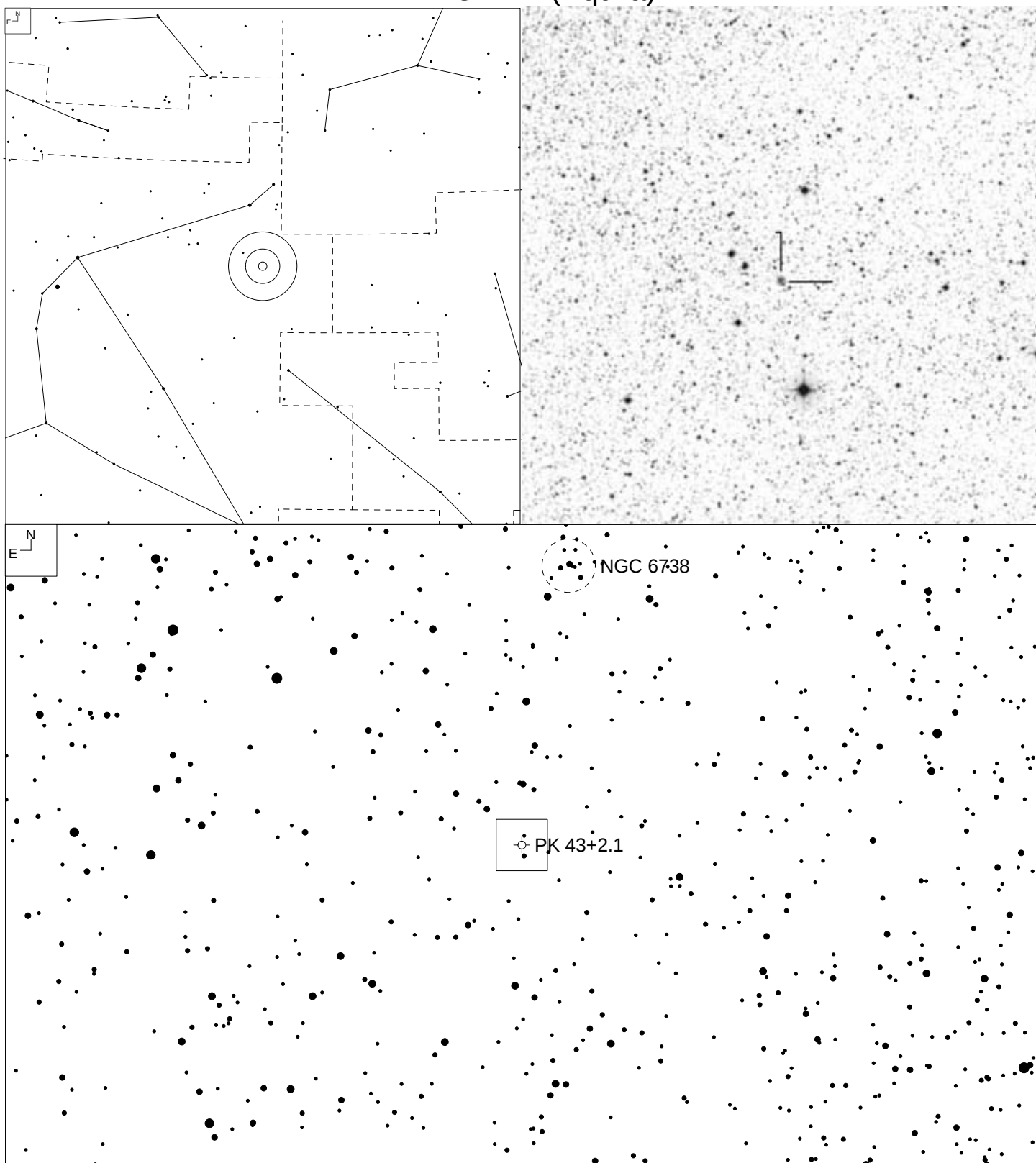
Other ID	Type	RA	Dec	Mag	* Mag	Size
Sanduleak 2-378	1	18 58 26.3	-01 03 46	13.2p	-	10"
PK 21-2.1						

Sharpless 2-71 (Aquila)



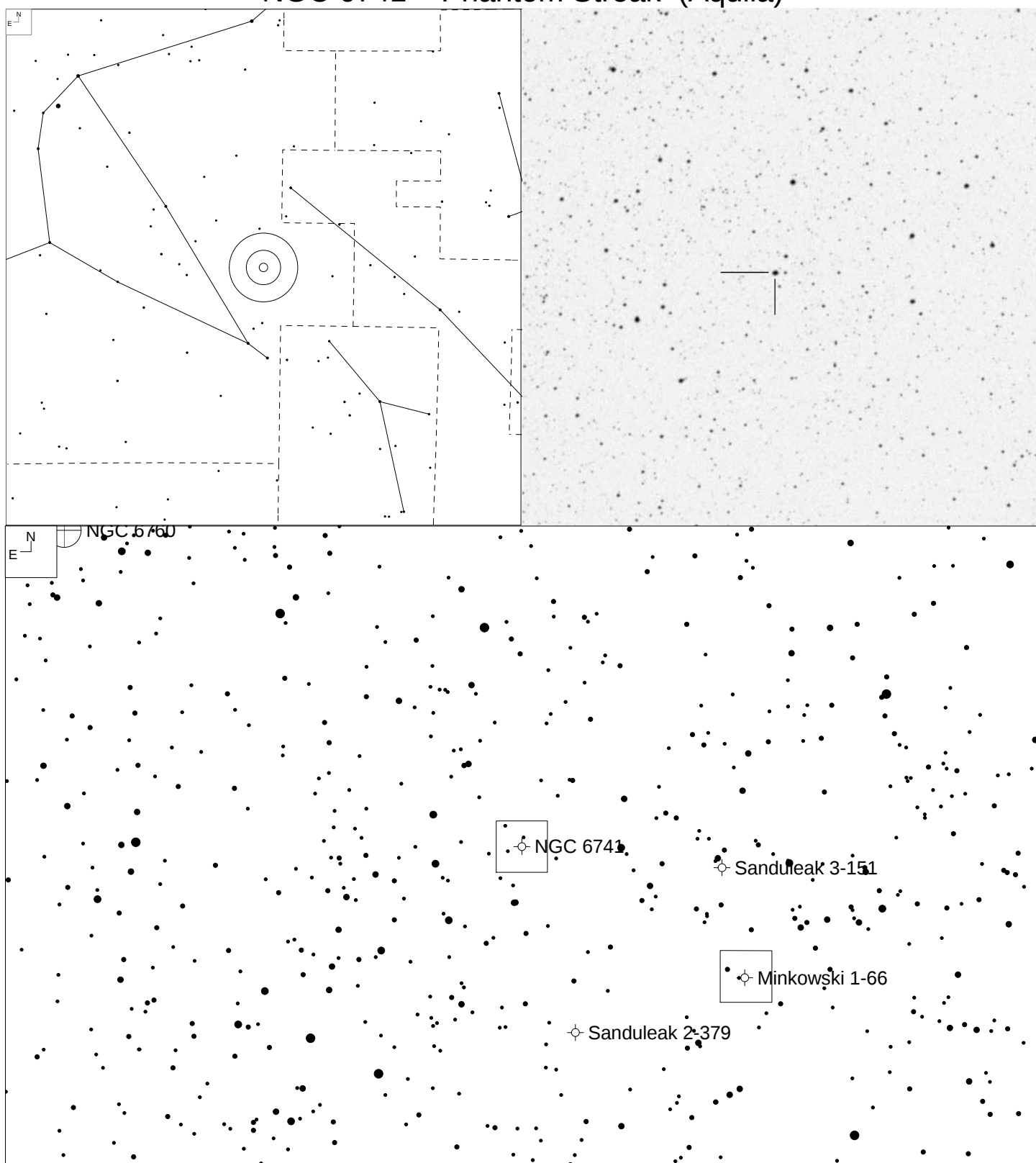
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 36-1.1	3b+3	19 02 00.0	+02 09 23	12.2p 13.2v	13.8	2.6 x 1.5'

PK 43+2.1 (Aquila)



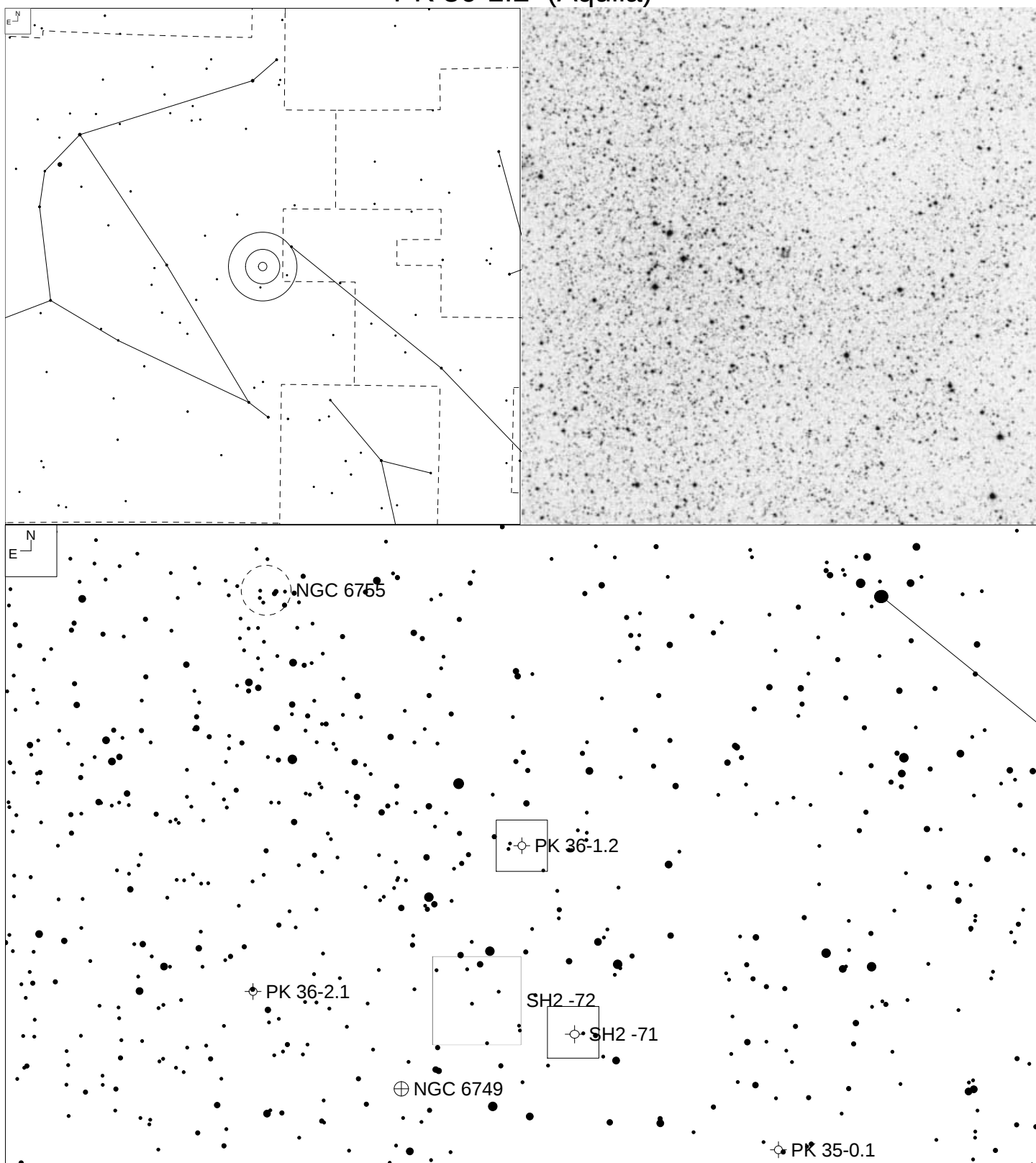
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	19 02 17.8	+10 17 32	-	18.5	14"

NGC 6741 – Phantom Streak (Aquila)



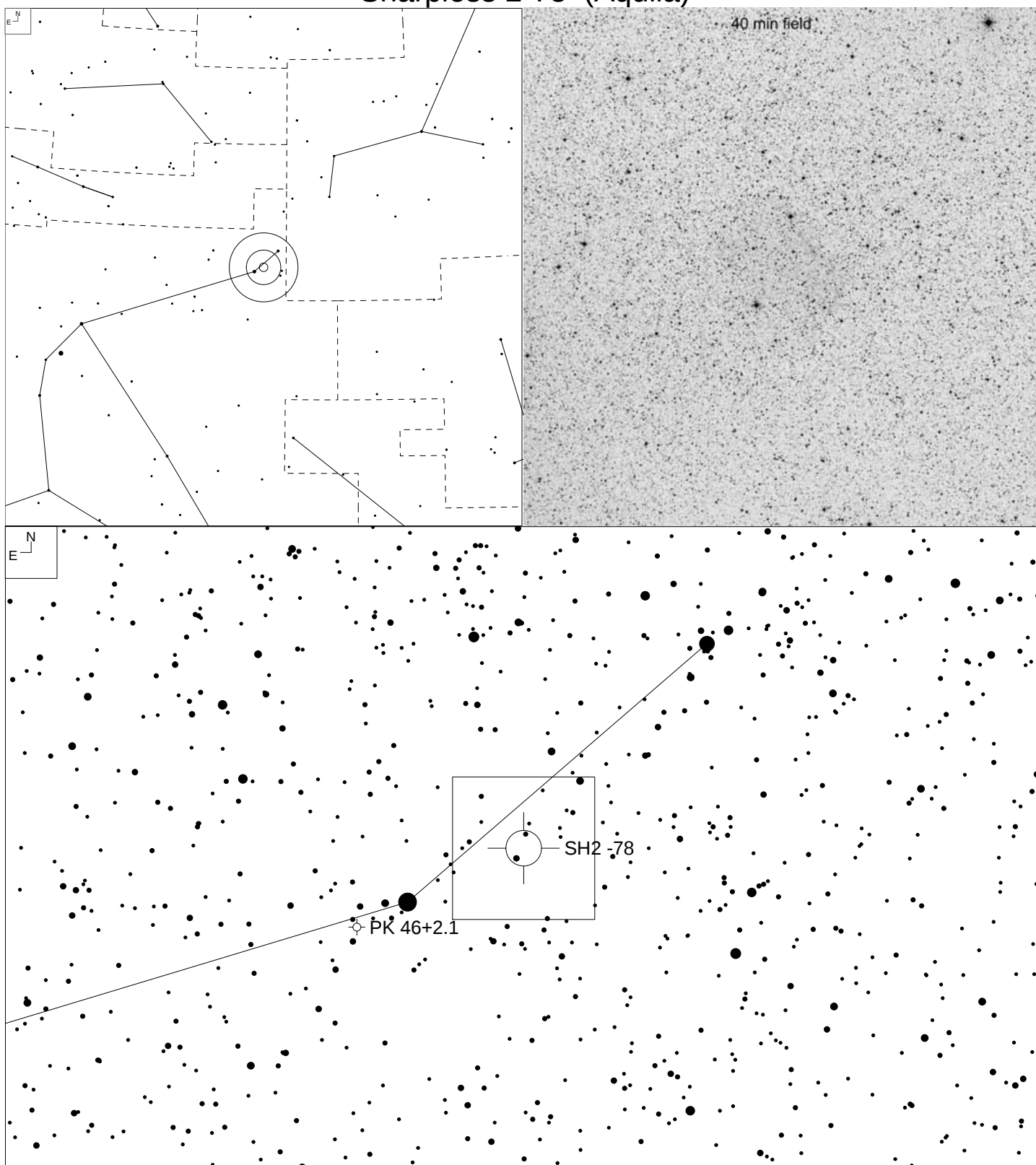
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 33-2.1	4	19 02 37.1	-00 26 57	10.8p 11.5v	17.6	9x7"

PK 36-1.2 (Aquila)



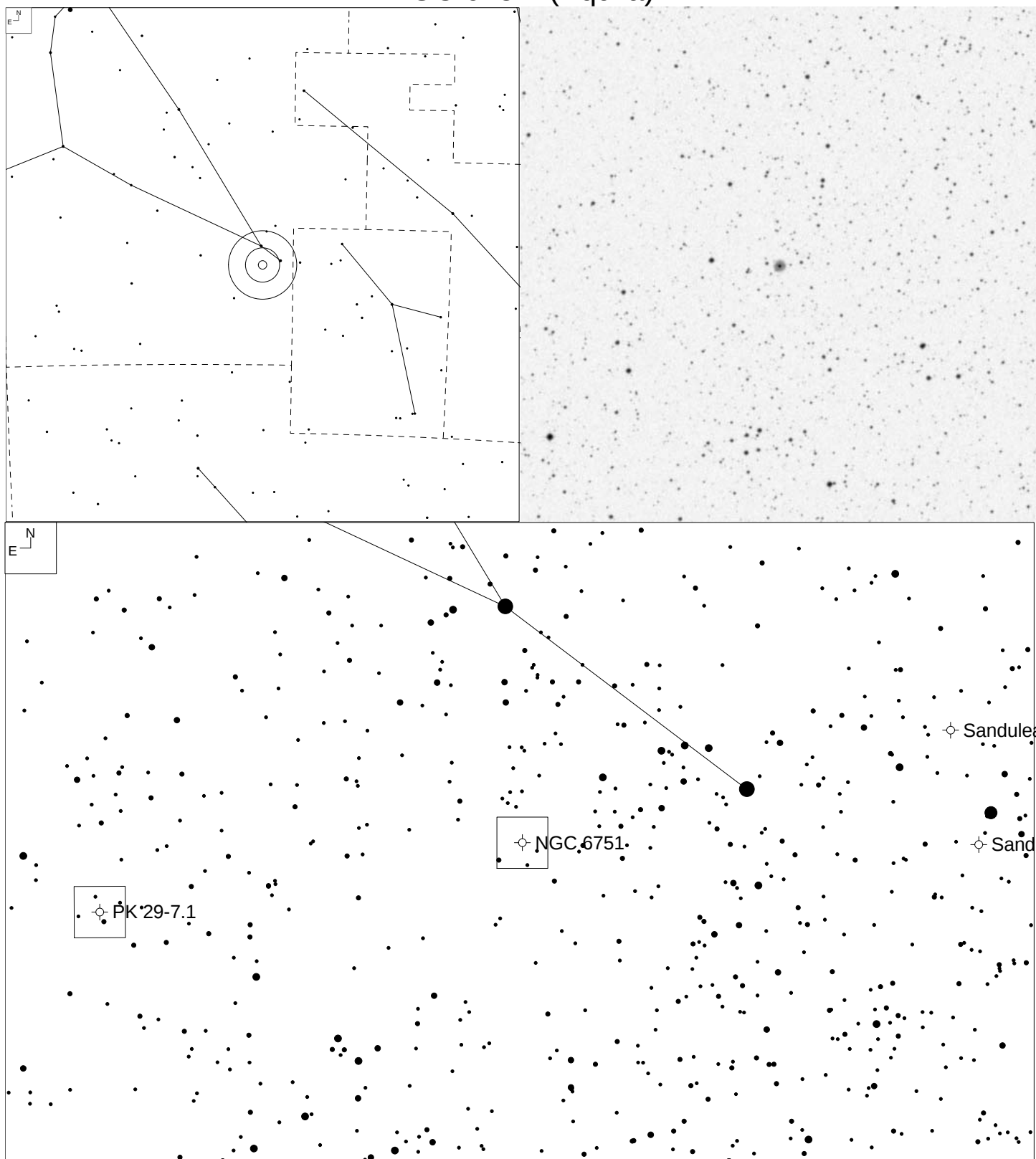
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	19 02 59.4	+03 02 20	-	-	12"

Sharpless 2-78 (Aquila)



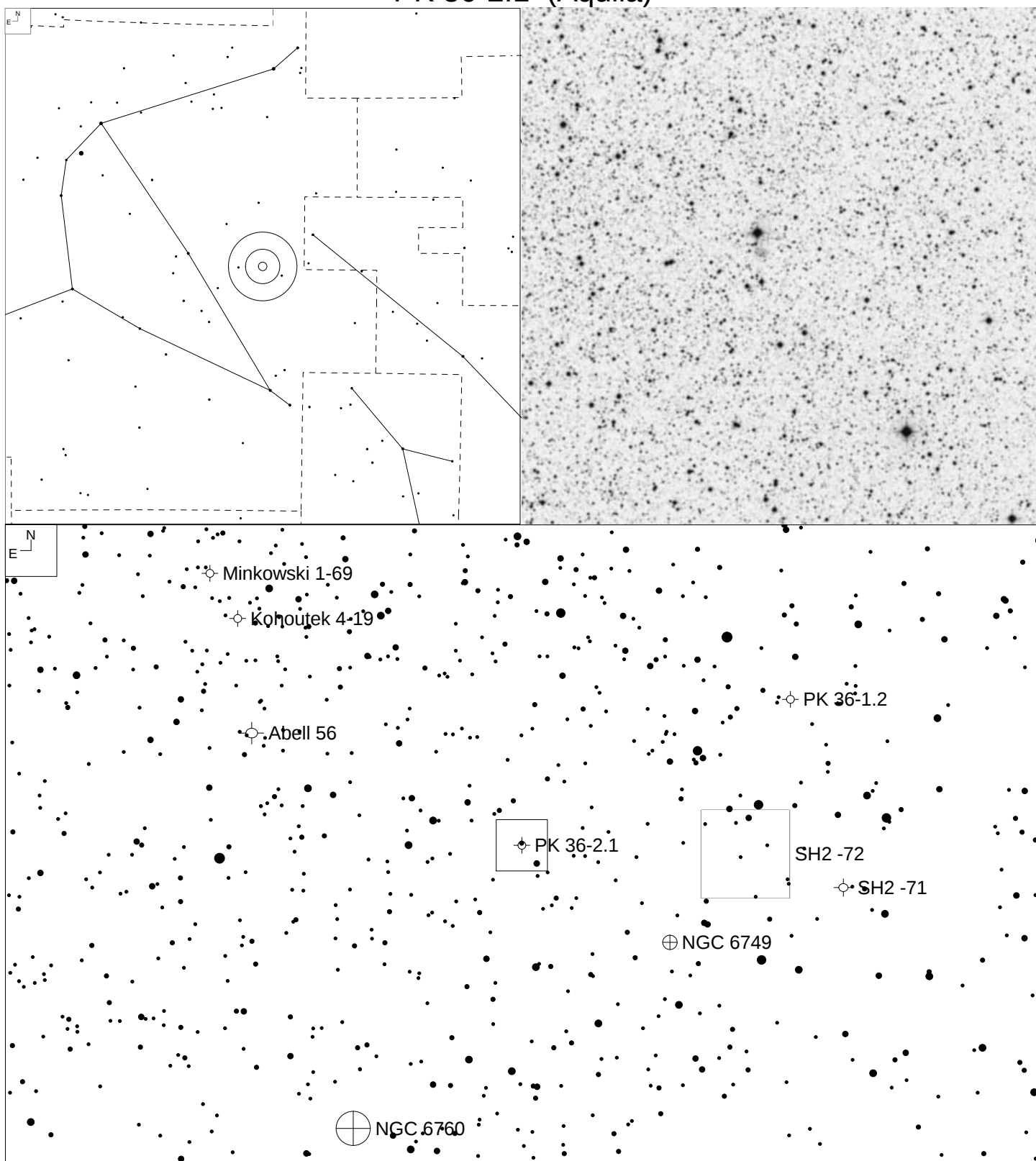
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 46+3.1	-	19 03 10.3	+14 06 56	-	17.7	10'

NGC 6751 (Aquila)



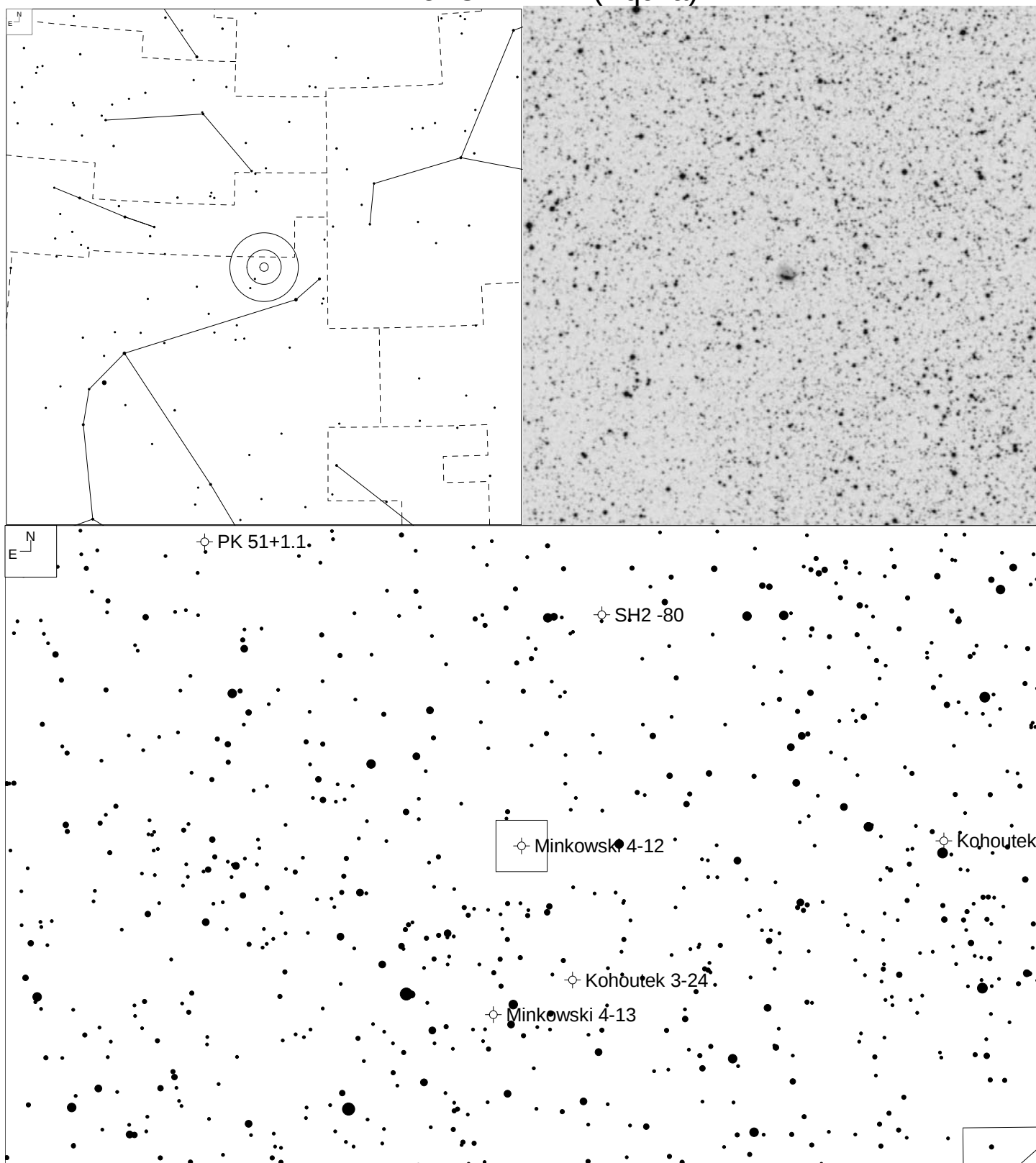
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 29-5.1	3	19 05 55.5	-05 59 33	12.5p 11.9v	15.44	18x18"

PK 36-2.1 (Aquila)



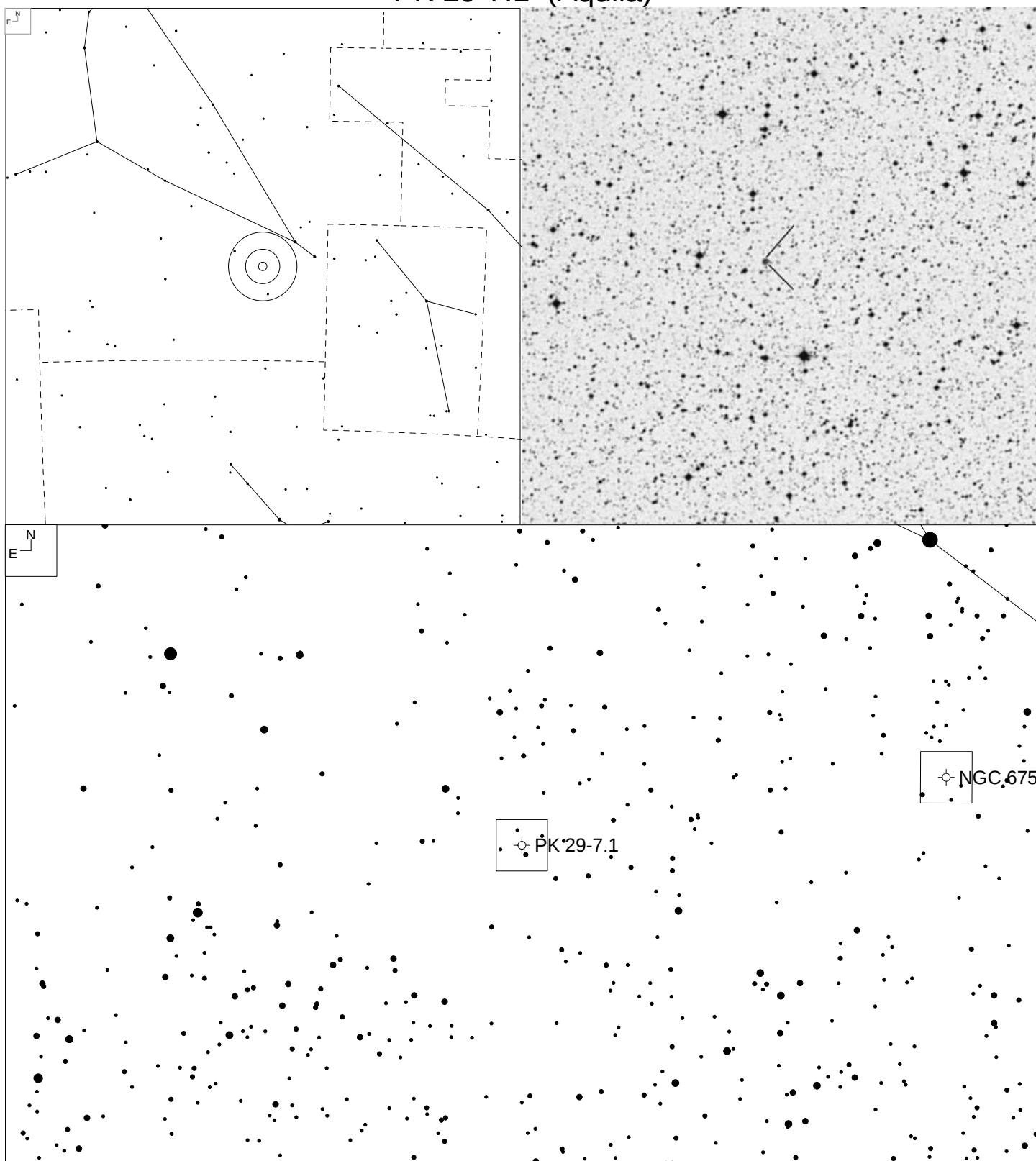
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	19 08 02.2	+02 21 21	-	-	21"

Minkowski 4-12 (Aquila)



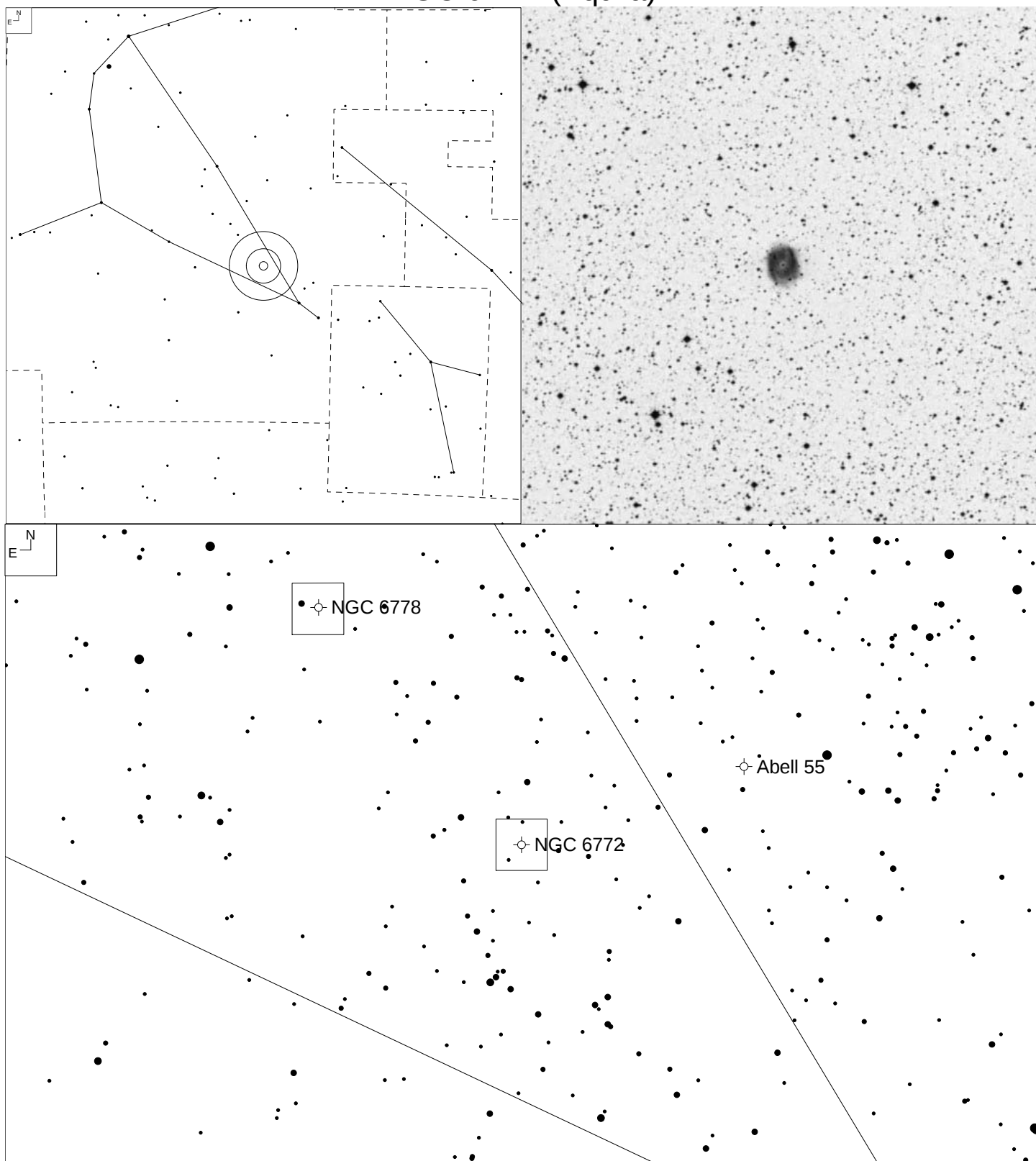
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 49+2.1	4+2	19 13 05.5	+15 46 42	18.6p	-	9.0"

PK 29-7.1 (Aquila)



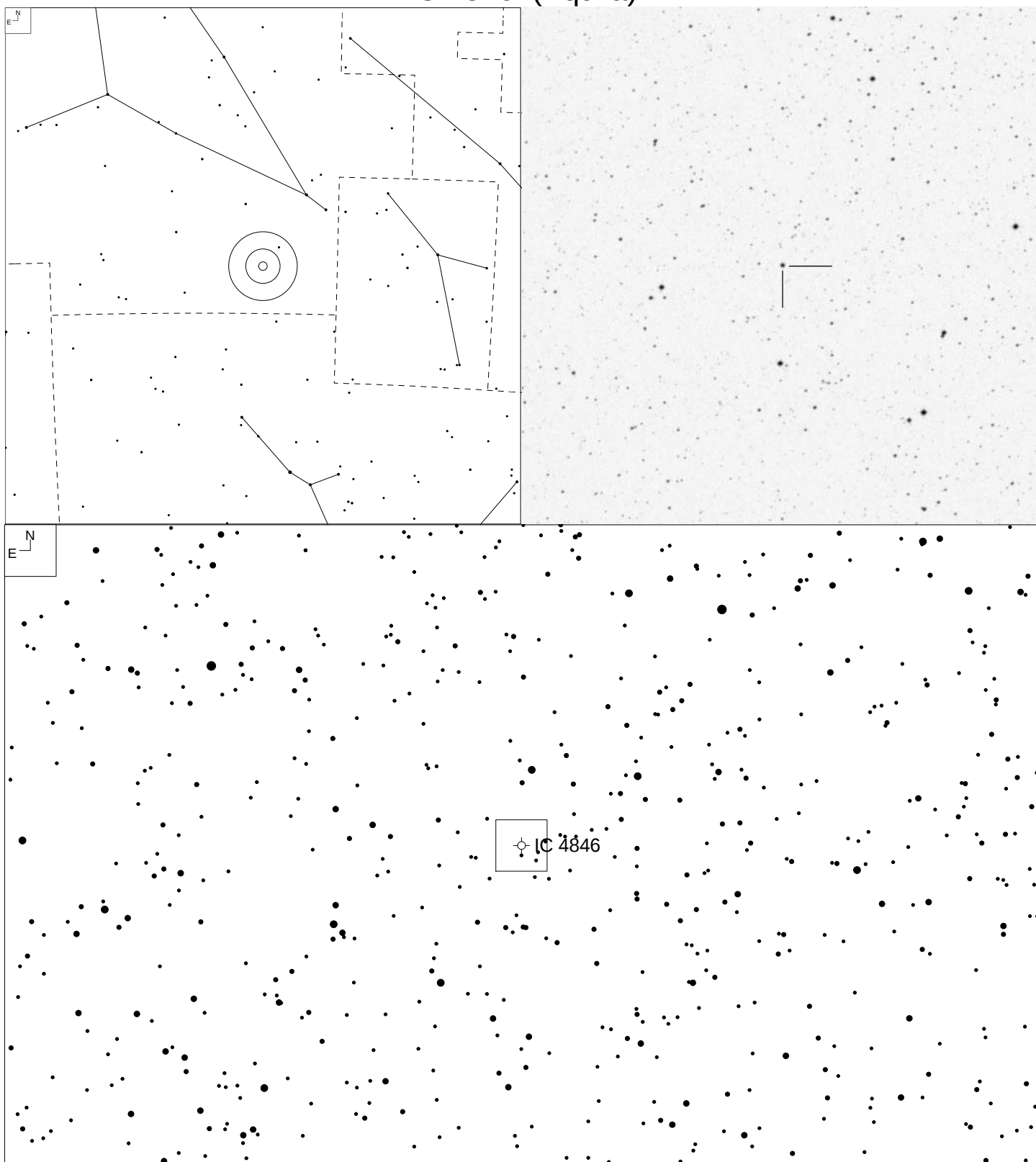
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	19 13 55.7	+06 18 53	15.6p	-	14"

NGC 6772 (Aquila)



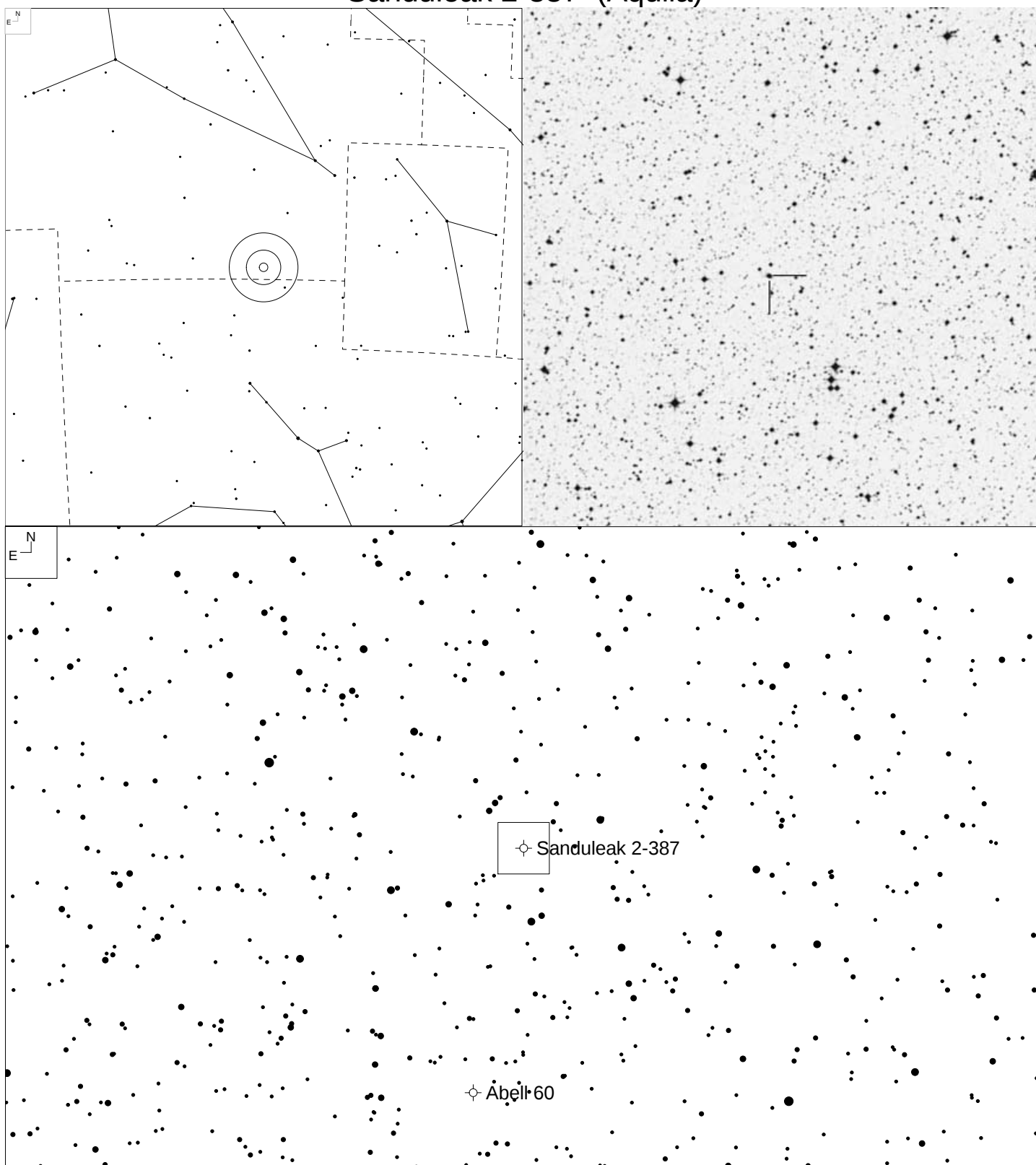
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 33-6.1	3b+2	19 14 36.4	-02 42 27	14.2p 12.7v	18.2	84"

IC 4846 (Aquila)



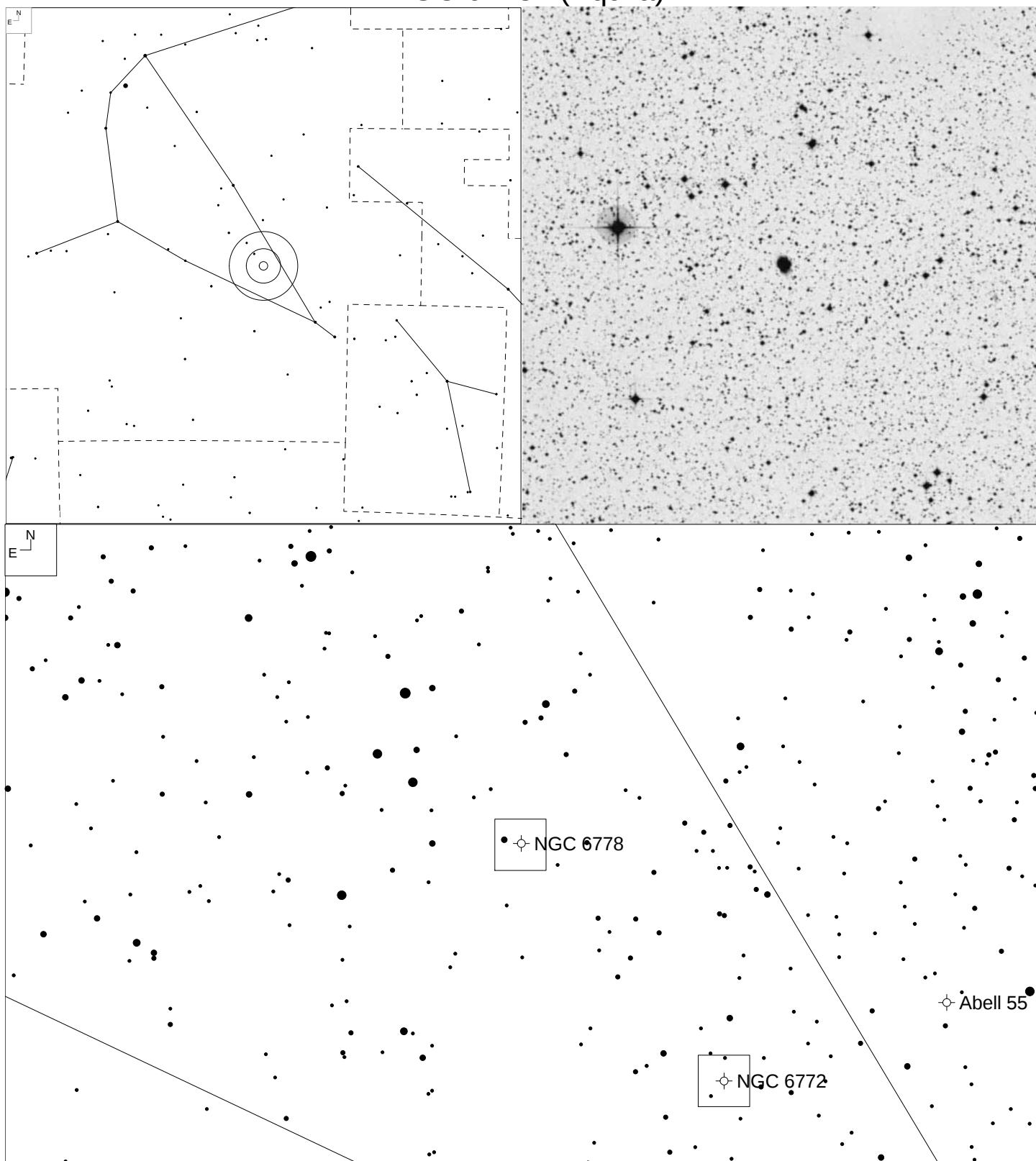
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 27-9.1	2	19 16 28.4	-09 02 38	12.7p 11.9v	15.45	2"

Sanduleak 2-387 (Aquila)



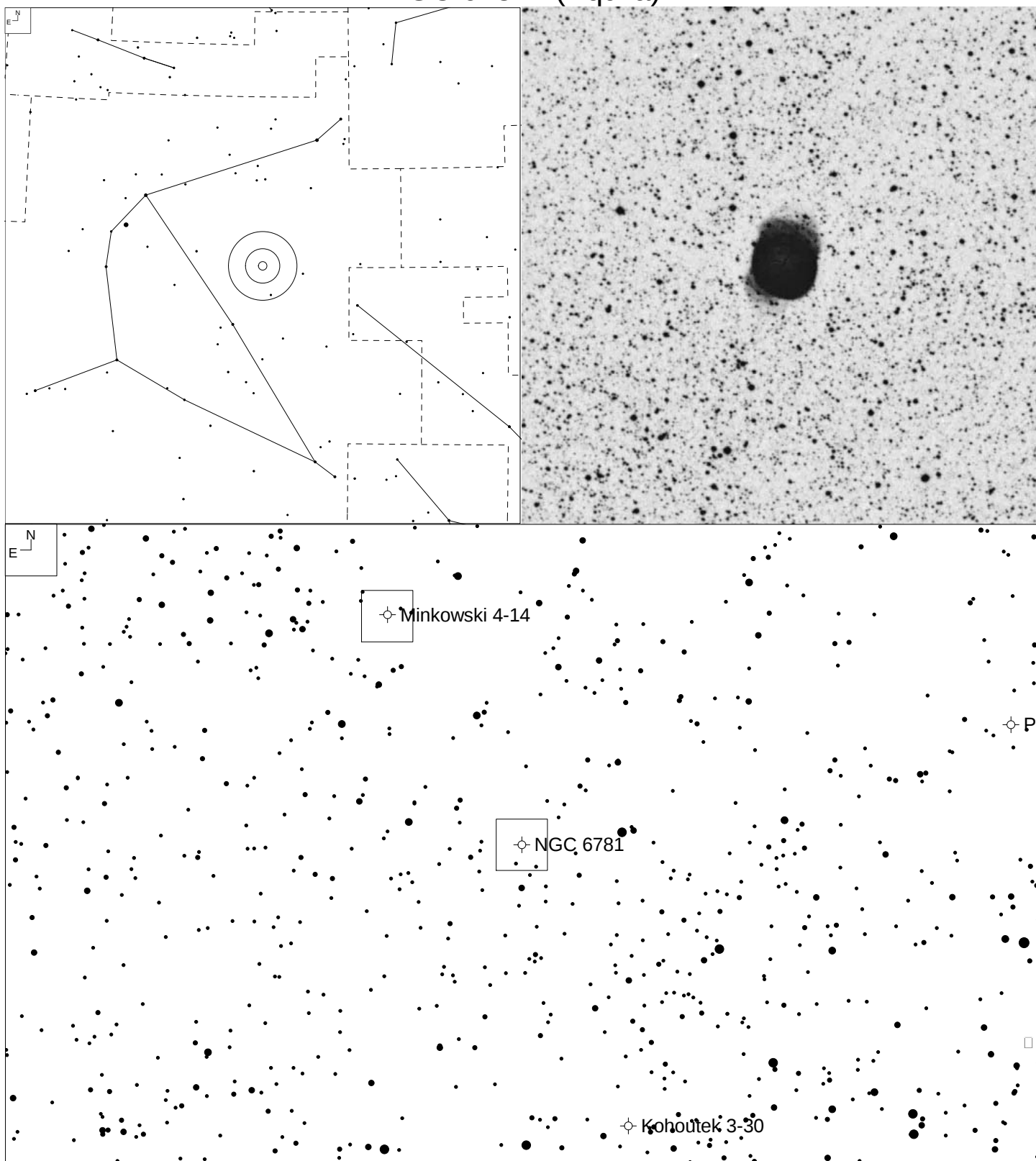
Other ID	Type	RA	Dec	Mag	* Mag	Size
Nassau 2 PK 26-11.1	-	19 18 19.7	-11 06 17	13.3p	14.0	16"

NGC 6778 (Aquila)



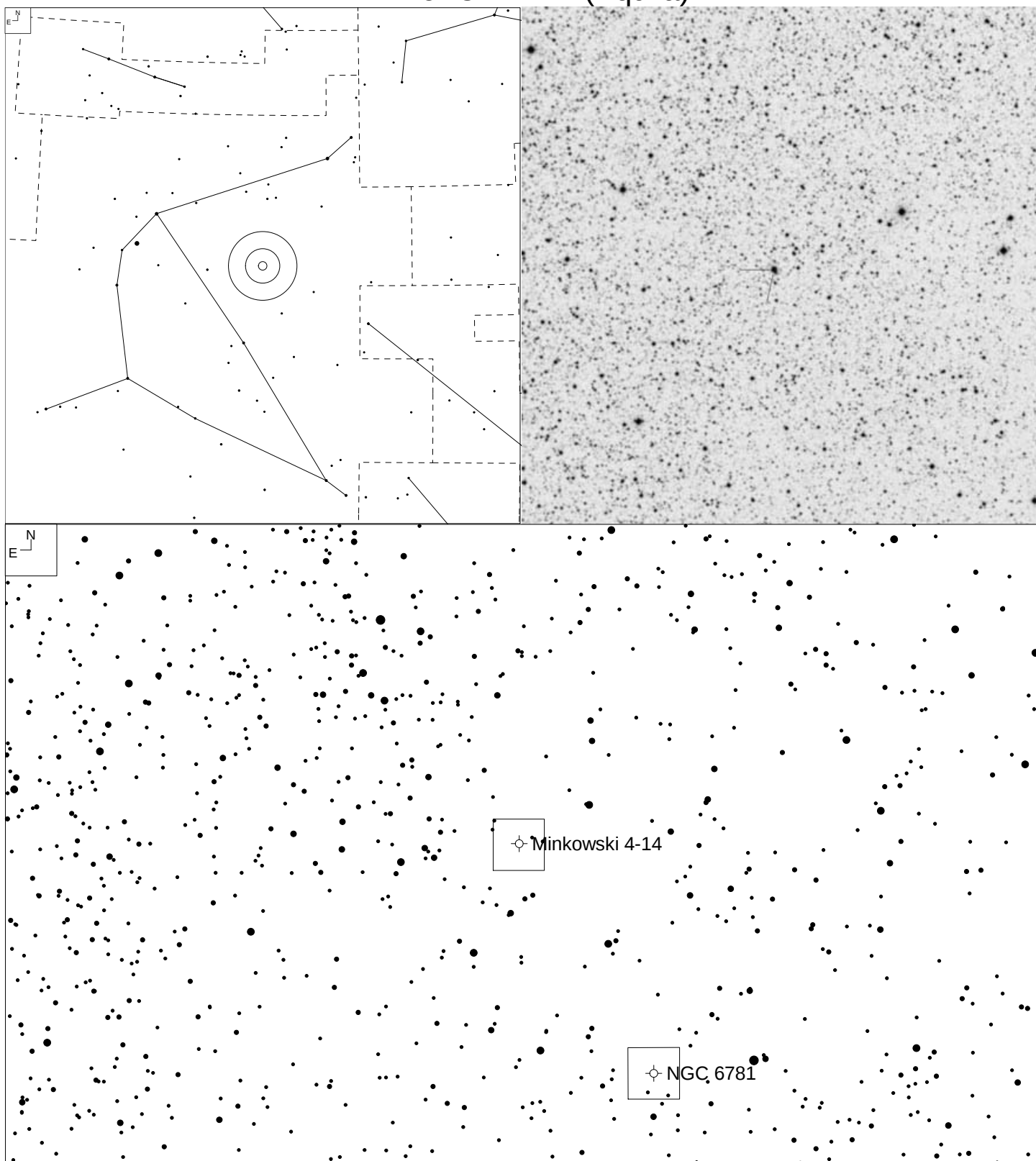
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 34-6.1	3+3	19 18 24.9	-01 35 46	13.3p 12.3v	16.9	16"

NGC 6781 (Aquila)



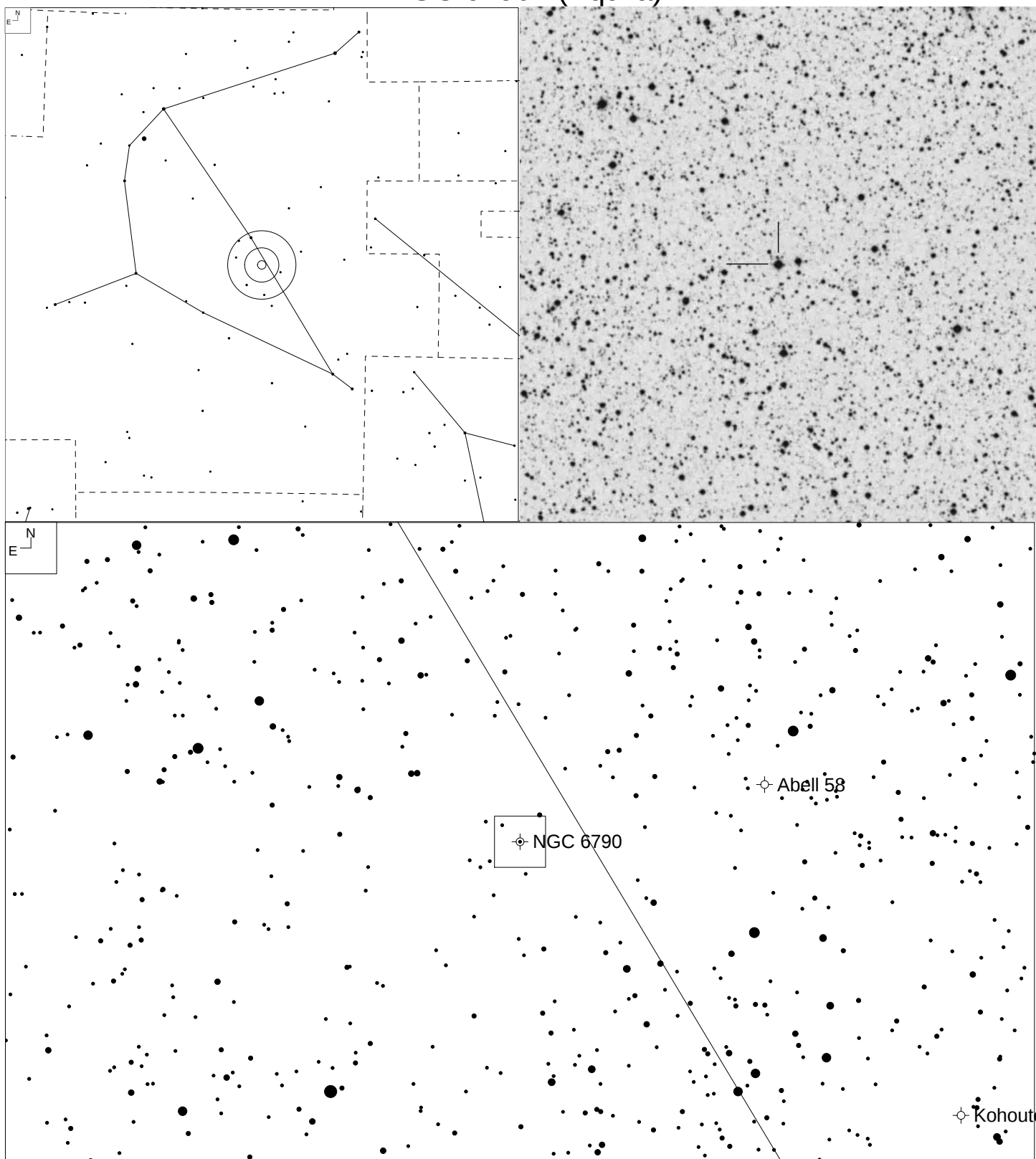
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 41-2.1	3b+3	19 18 28.2	+06 32 15	11.8p 11.4v	16.2	1.8'

Minkowski 4-14 (Aquila)



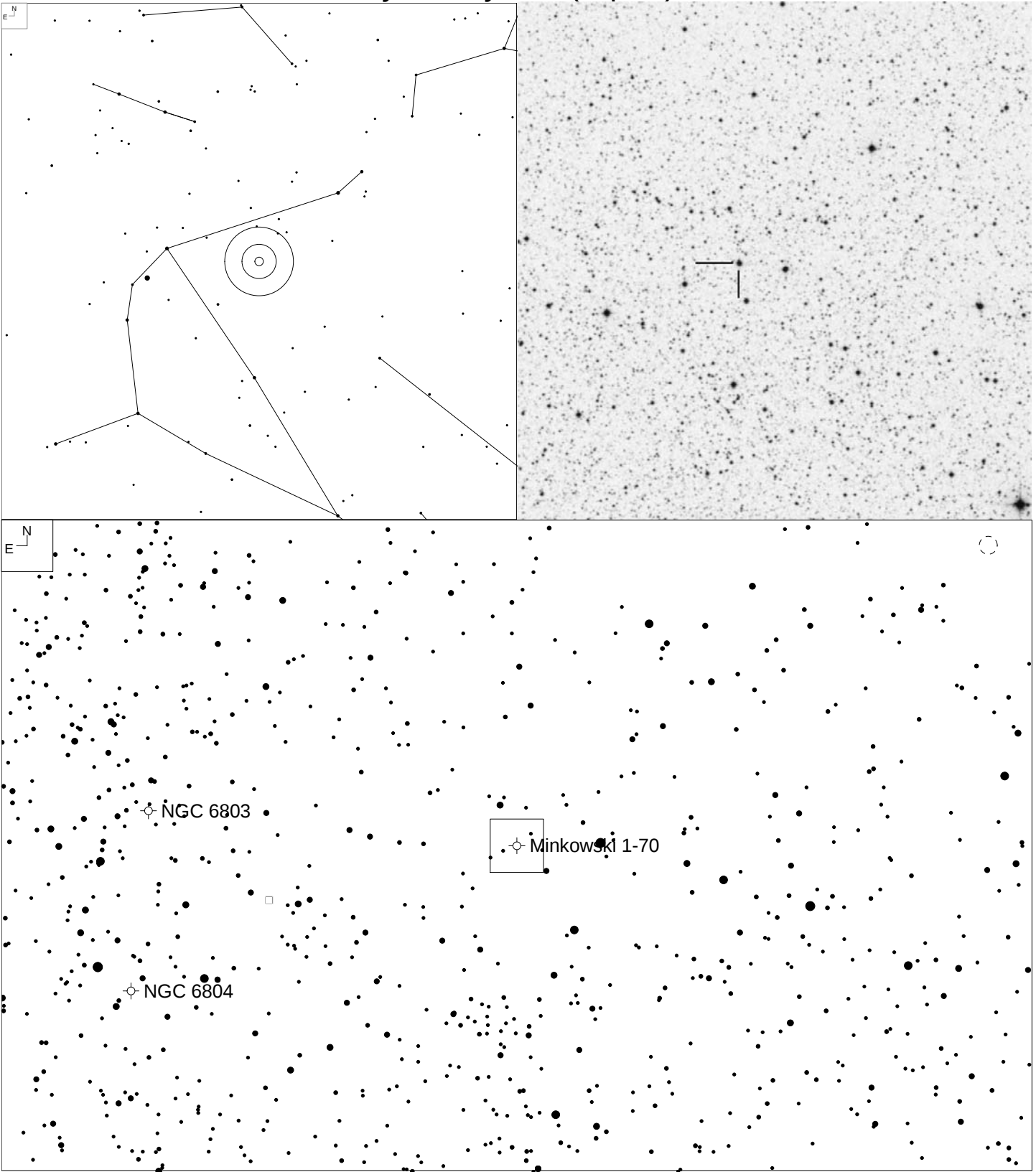
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 43.0-3.0	4+3	19 21 00.8	+07 36 50	14.8p	-	7"

NGC 6790 (Aquila)



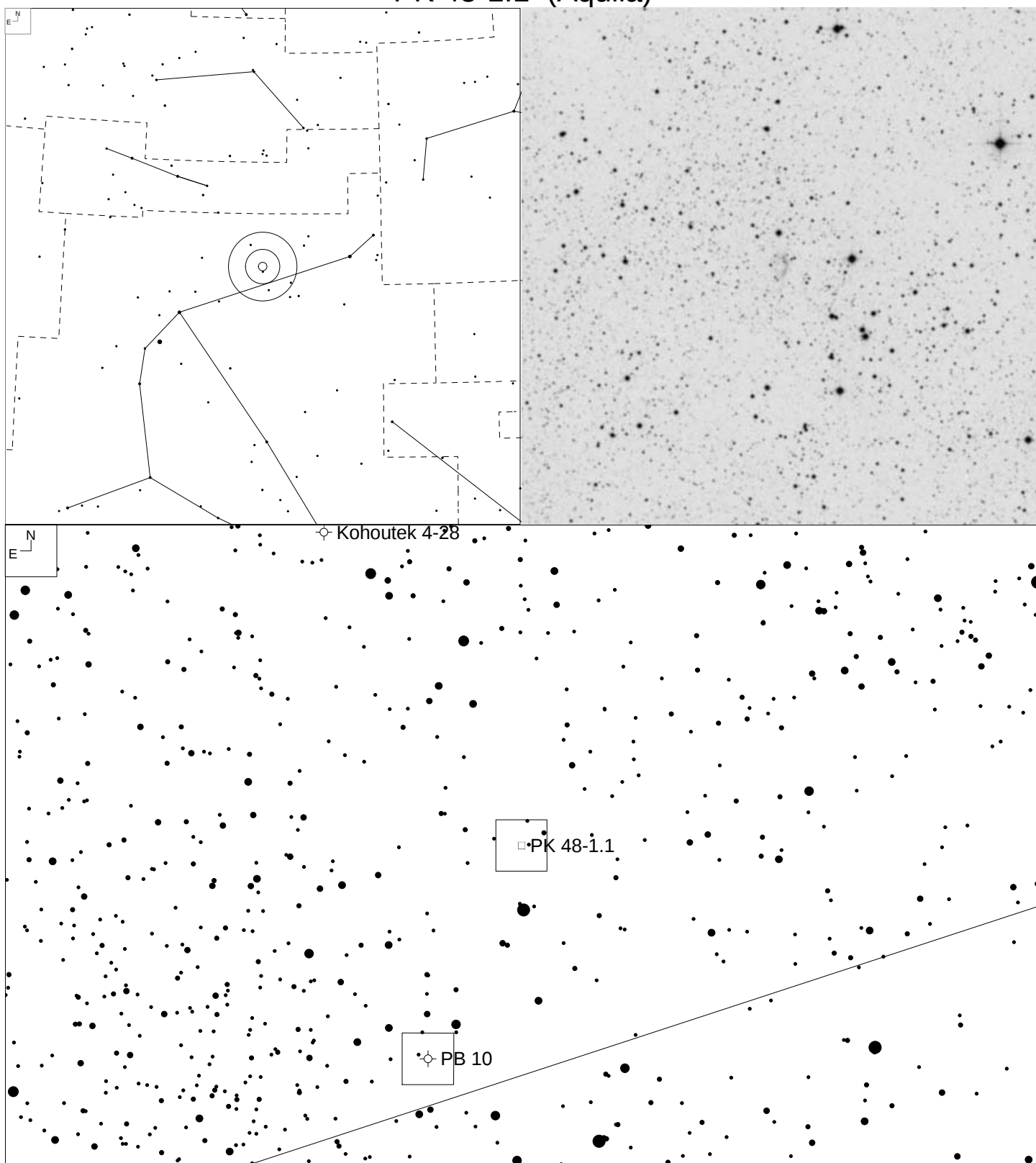
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 37-6.1	2	19 22 57.1	+01 30 44	10.2p 10.5v	11.1	7"

Vyssotsky 2-2 (Aquila)



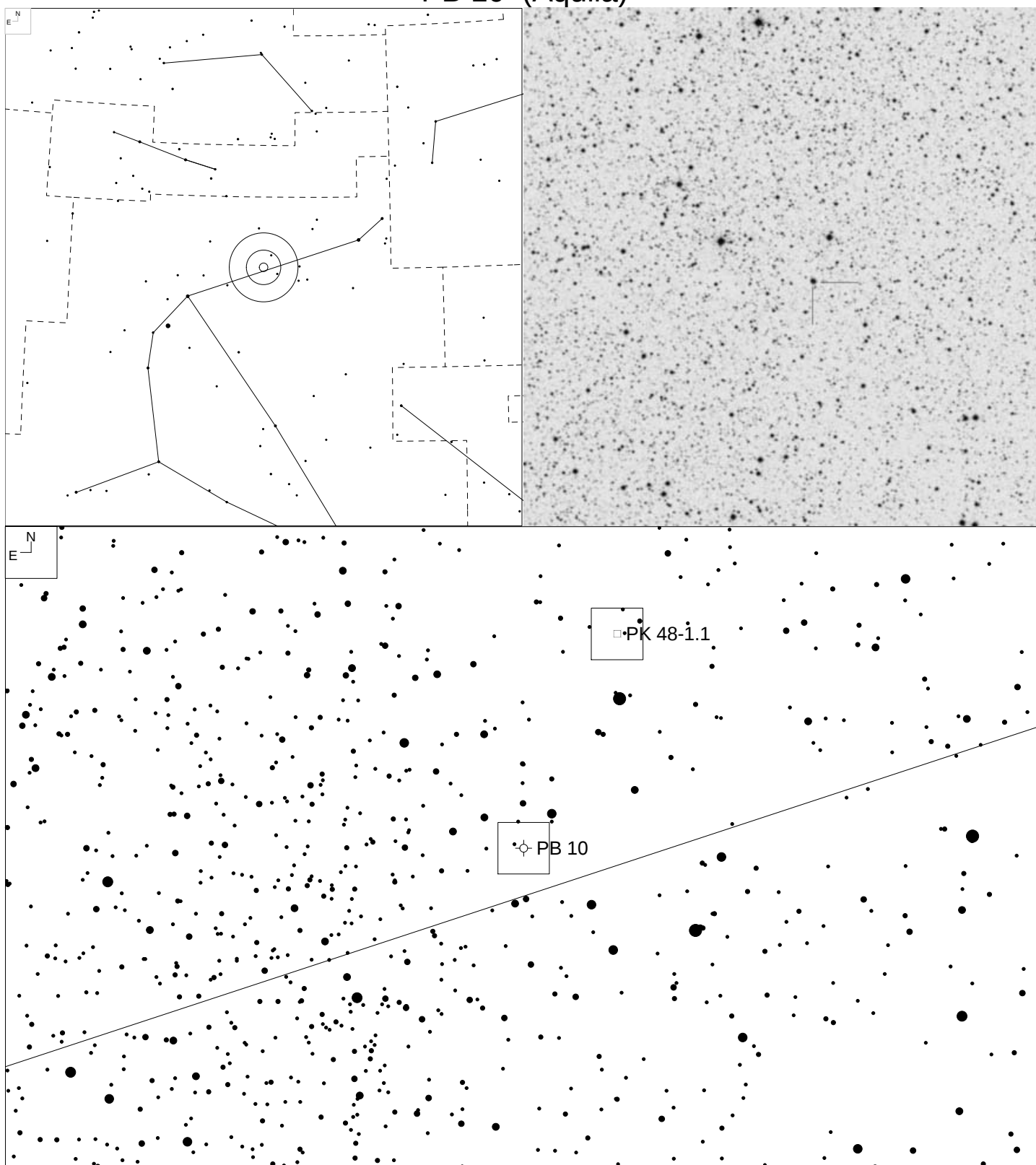
Other ID	Type	RA	Dec	Mag	* Mag	Size
Mink 1-70	1	19 24 23	+09 53.9	12.7	14.6	14"

PK 48-1.1 (Aquila)



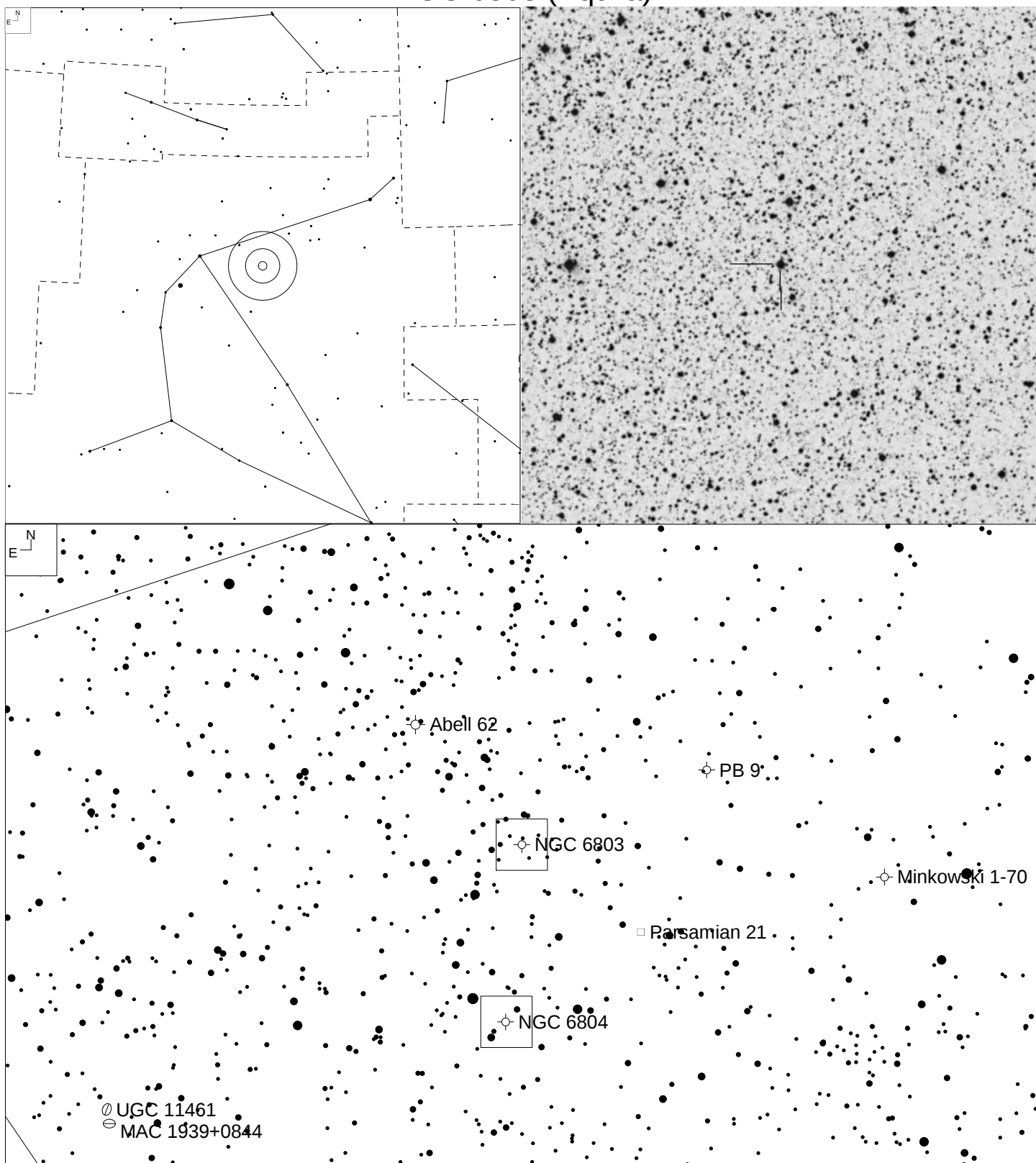
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	SNR	19 26 26.7	+13 19 33	-	-	40"

PB 10 (Aquila)



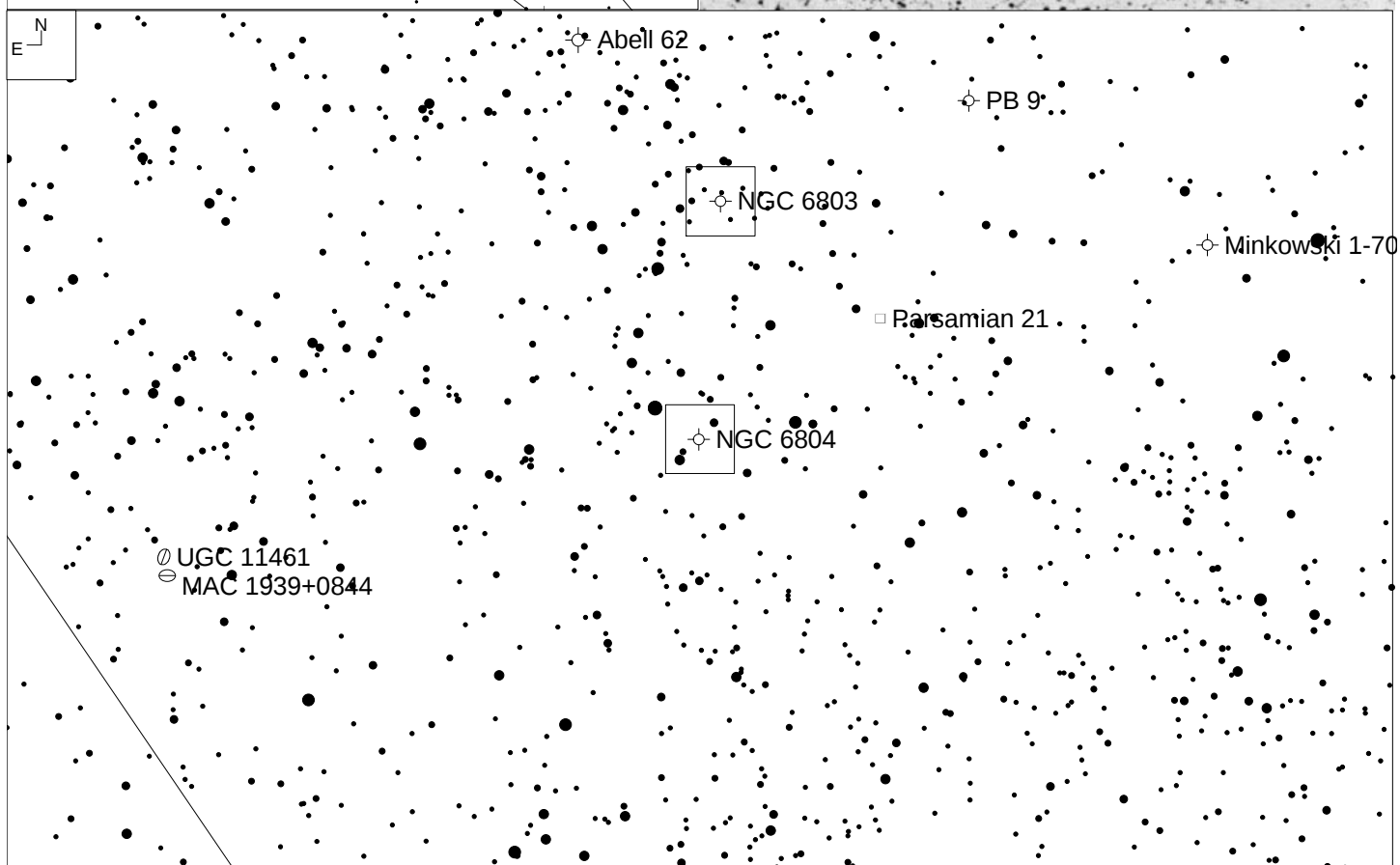
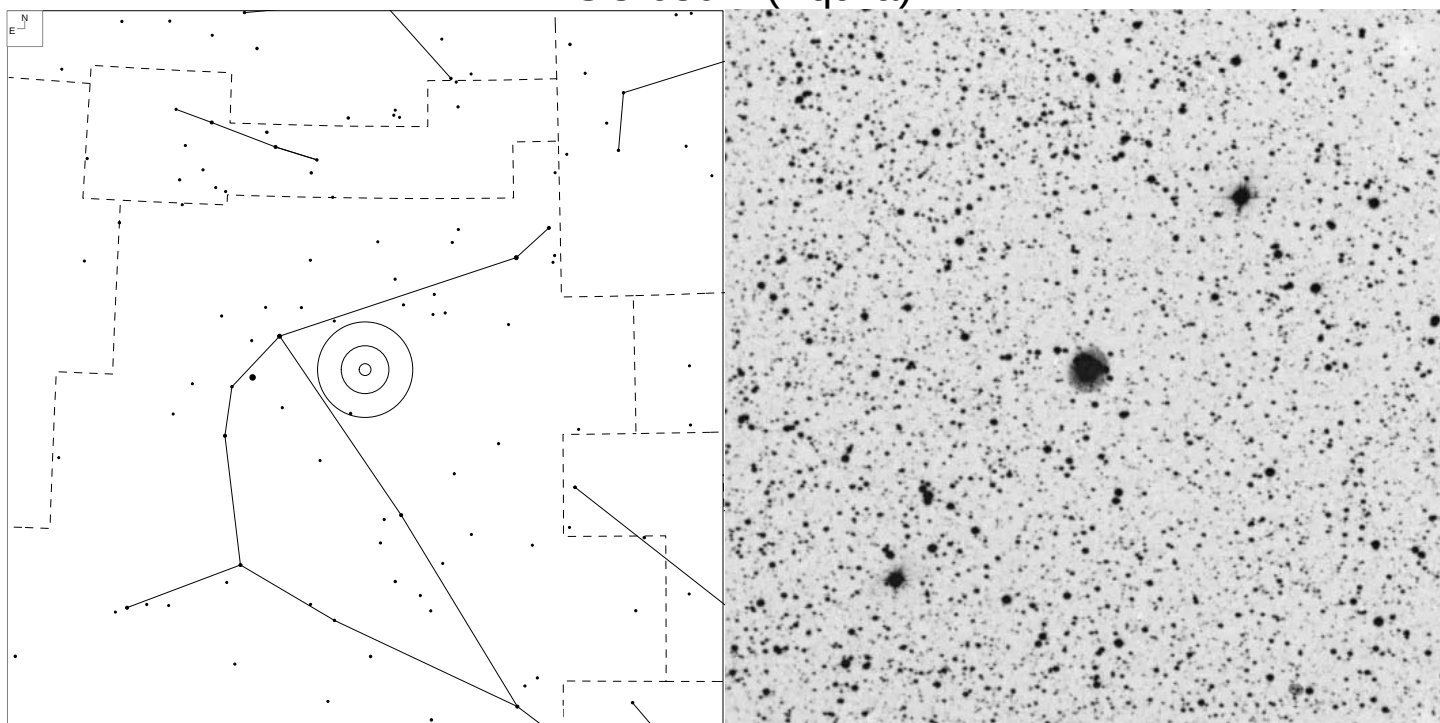
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 48-2.1	-	19 28 14.5	+12 19 35	14.8p	-	10"

NGC 6803 (Aquila)



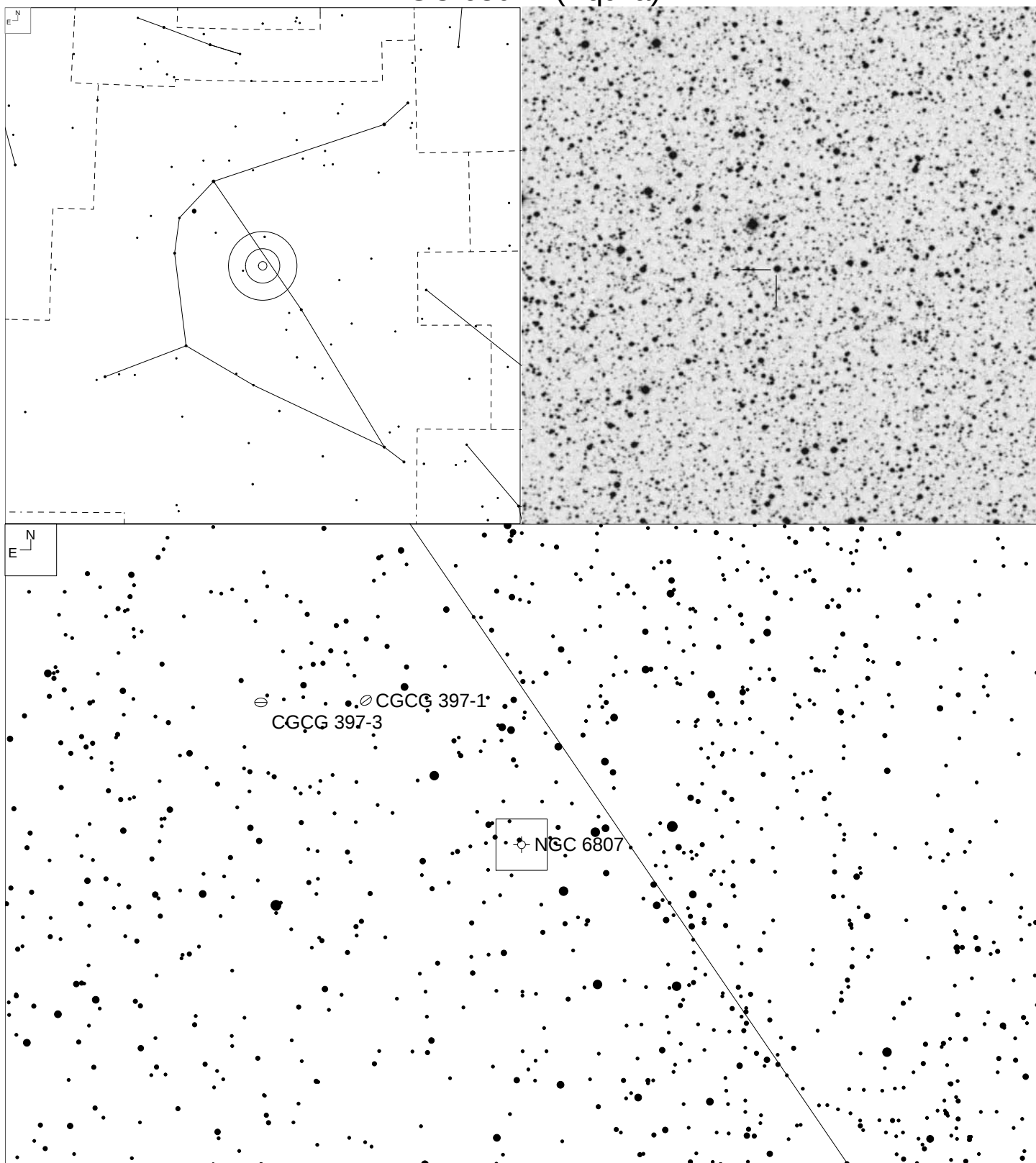
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 46-4.1	2a	19 31 16.6	+10 03 20	11.3p 11.4v	15.2	6"

NGC 6804 (Aquila)



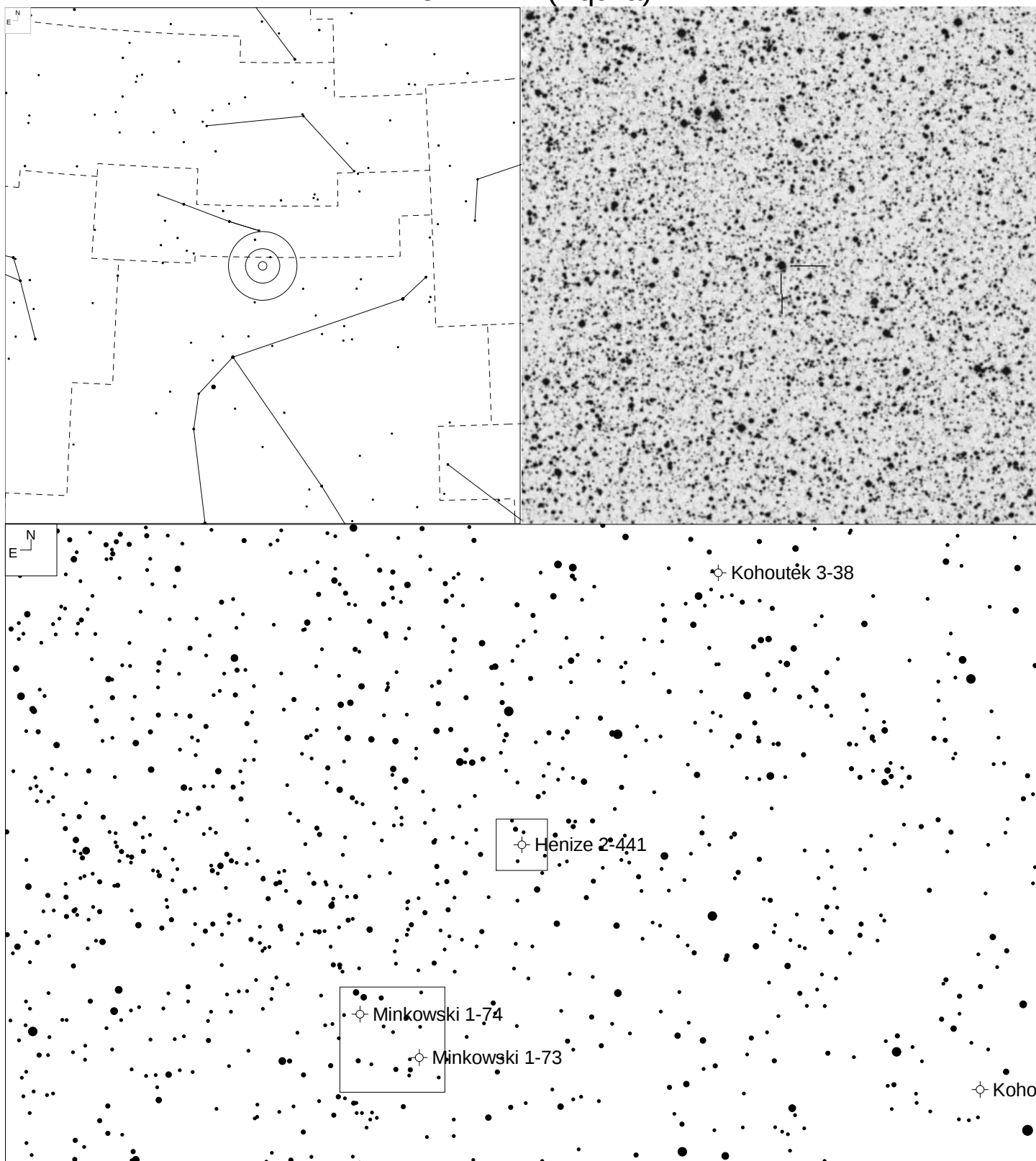
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 45-4.1	4+2	19 31 35.2	+09 13 31	12.2p	14.4	35"

NGC 6807 (Aquila)



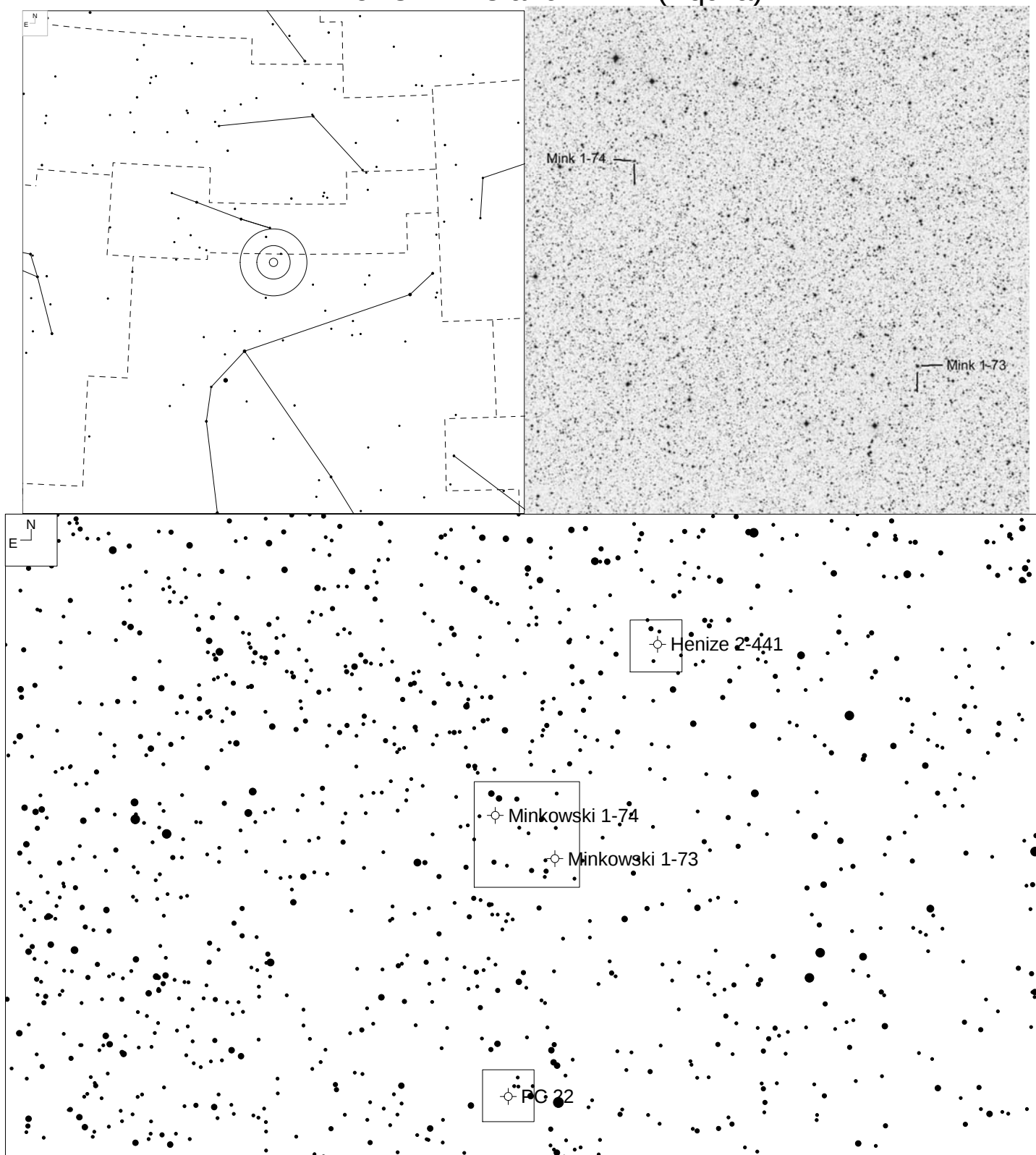
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 42-6.1	2	19 34 33.7	+05 41 01	13.8p 12.0v	16.3	2"

Merrill 1-1 (Aquila)



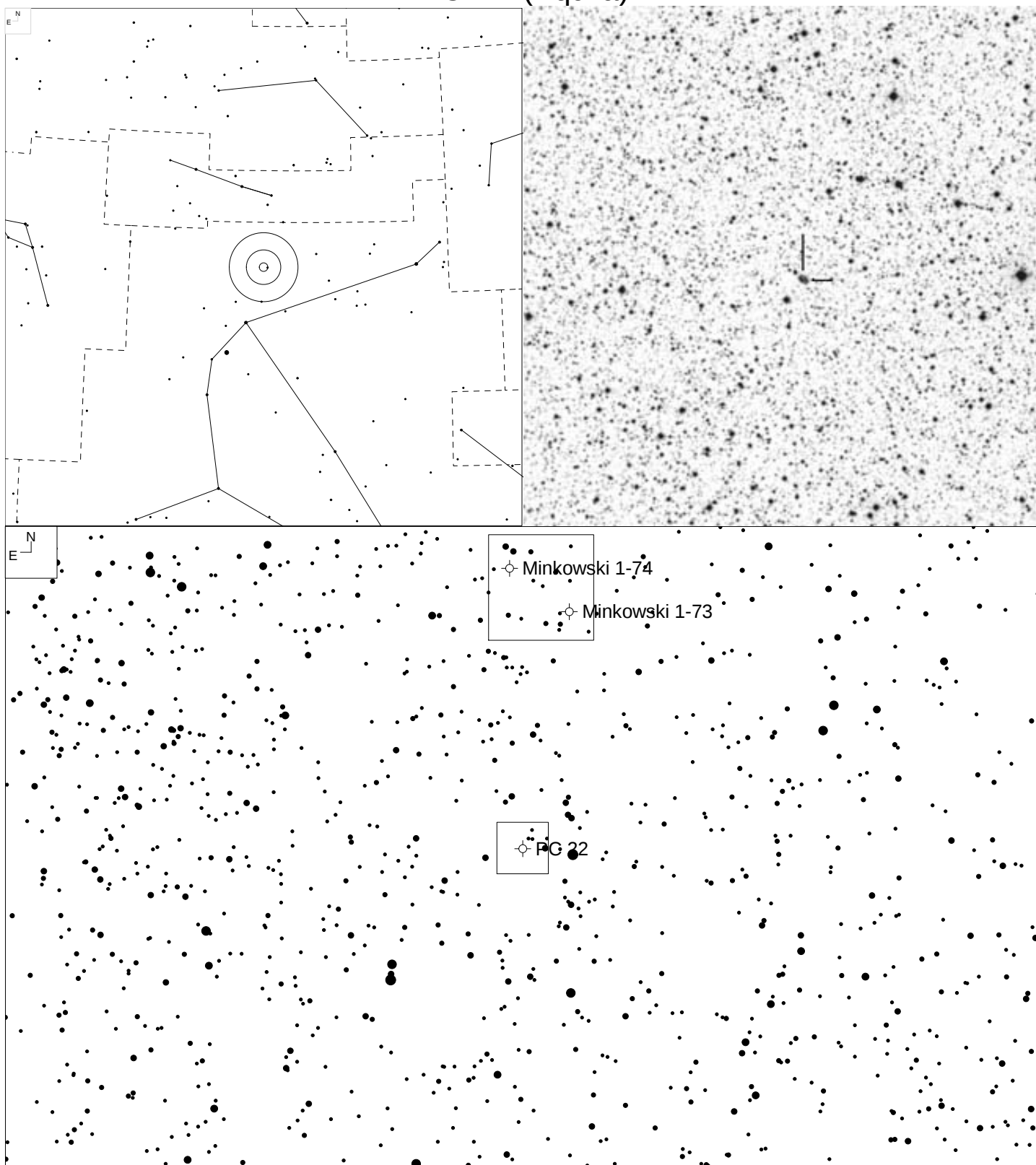
Other ID	Type	RA	Dec	Mag	* Mag	Size
Henize 2-441	4	19 39 09.9	+15 56 45	12.6p	14.1	8"
PK 52-2.2				11.8v		

Minkowski 1-73 and 1-74 (Aquila)



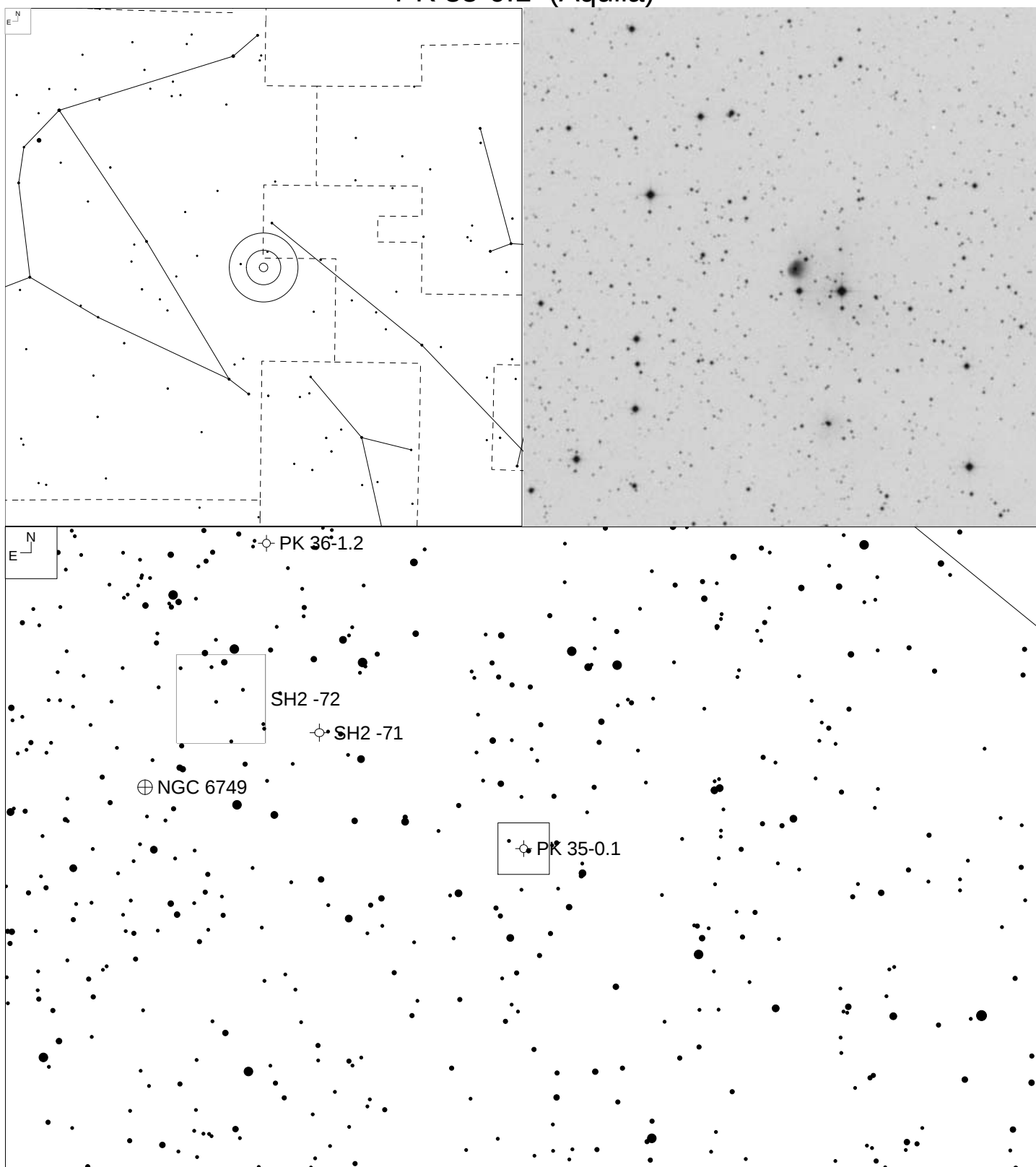
Other ID	Type	RA	Dec	Mag	* Mag	Size
Mink 1-73	2	19 41 09.4	+14 56 57	13.9p	14.5	5"
PK 51-3.1				14.0v		
Mink 1-74	1	19 42 18.8	+15 09 06	12.8p	18.1	5"
PK 52-4.1				12.9v		

PC 22 (Aquila)



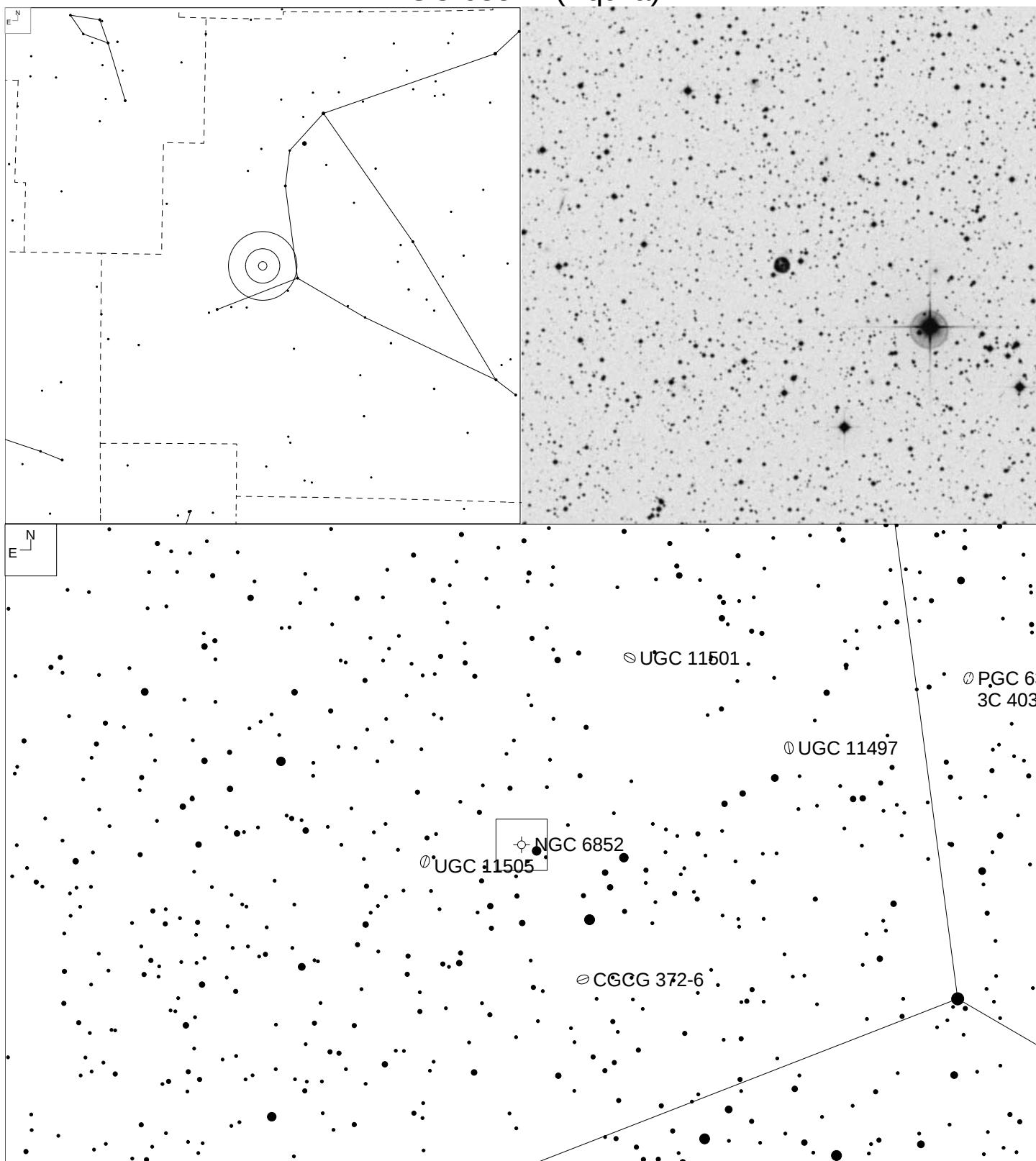
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 51-4.1	-	19 42 03.6	+13 50 35	14.4p	18.1	24 x 18"

PK 35-0.1 (Aquila)



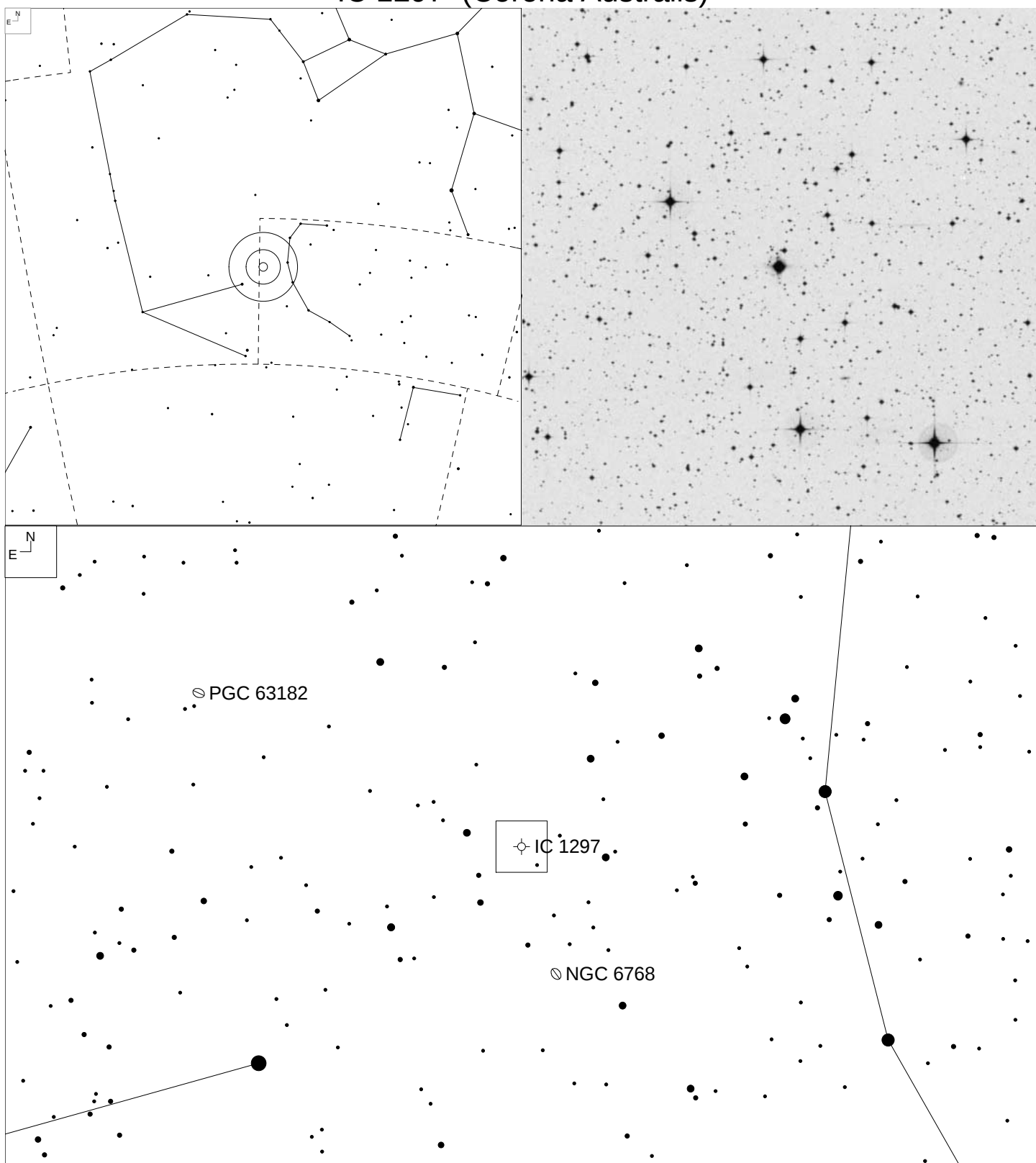
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	18 58 10.6	+01 36 55	12.8IR	15.1	33"

NGC 6852 (Aquila)



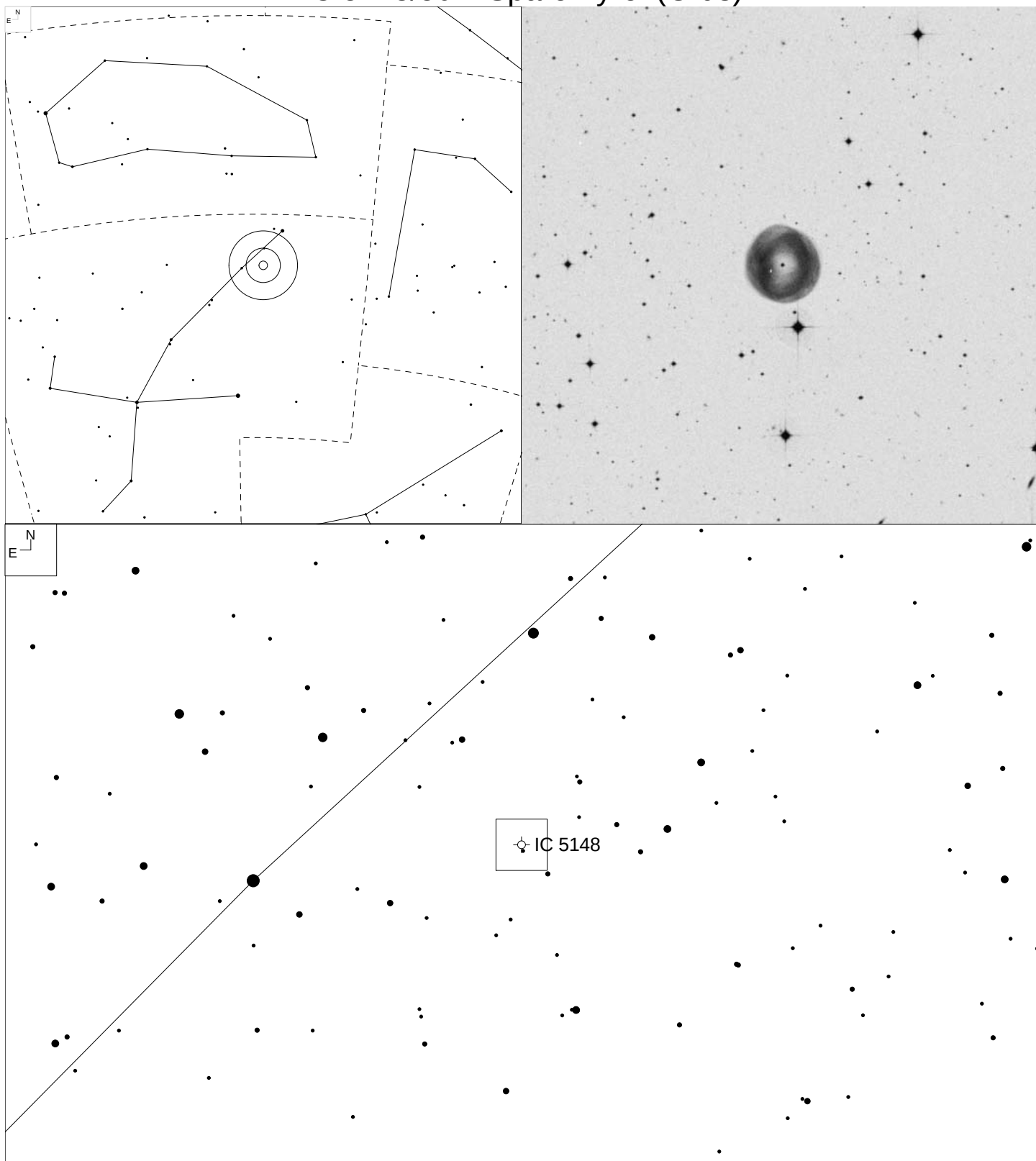
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 42-14.1	4	20 00 39.2	+01 43 41	12.8p 12.6v	17.9	28"

IC 1297 (Corona Australis)



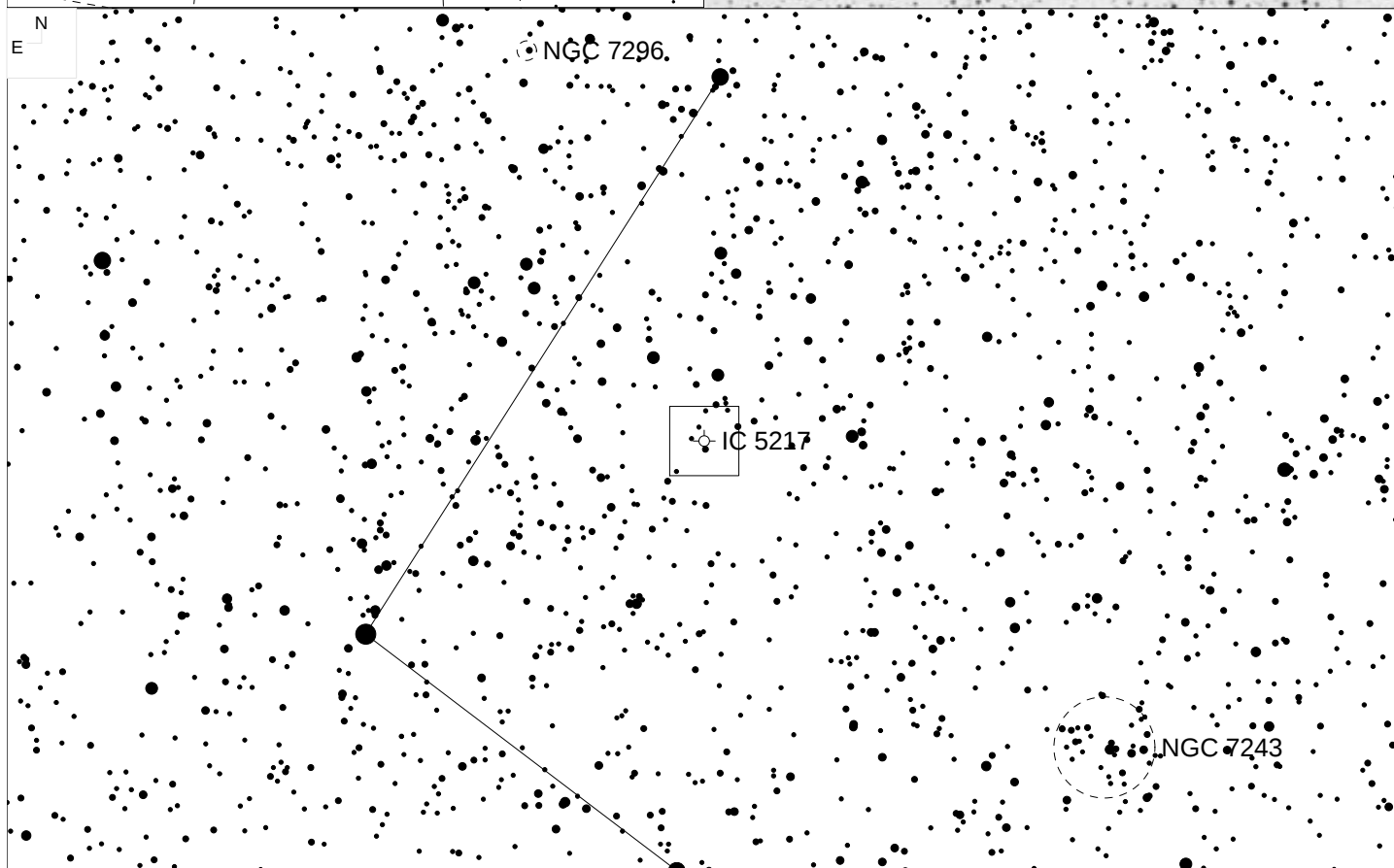
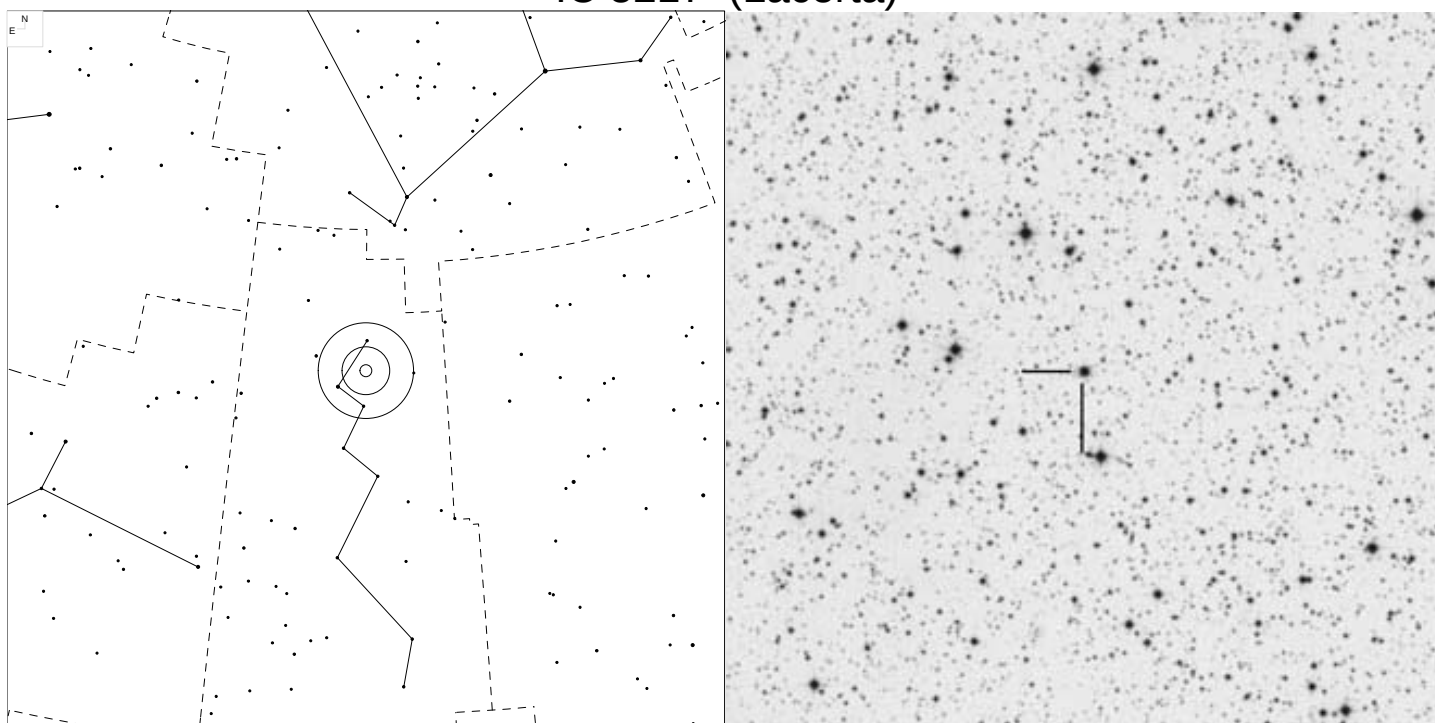
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 358-21.1	-	19 17 23.5	-39 36 48	10.6p 10.7v	14.2	20"

IC 5148/50 – Spare Tyre (Grus)



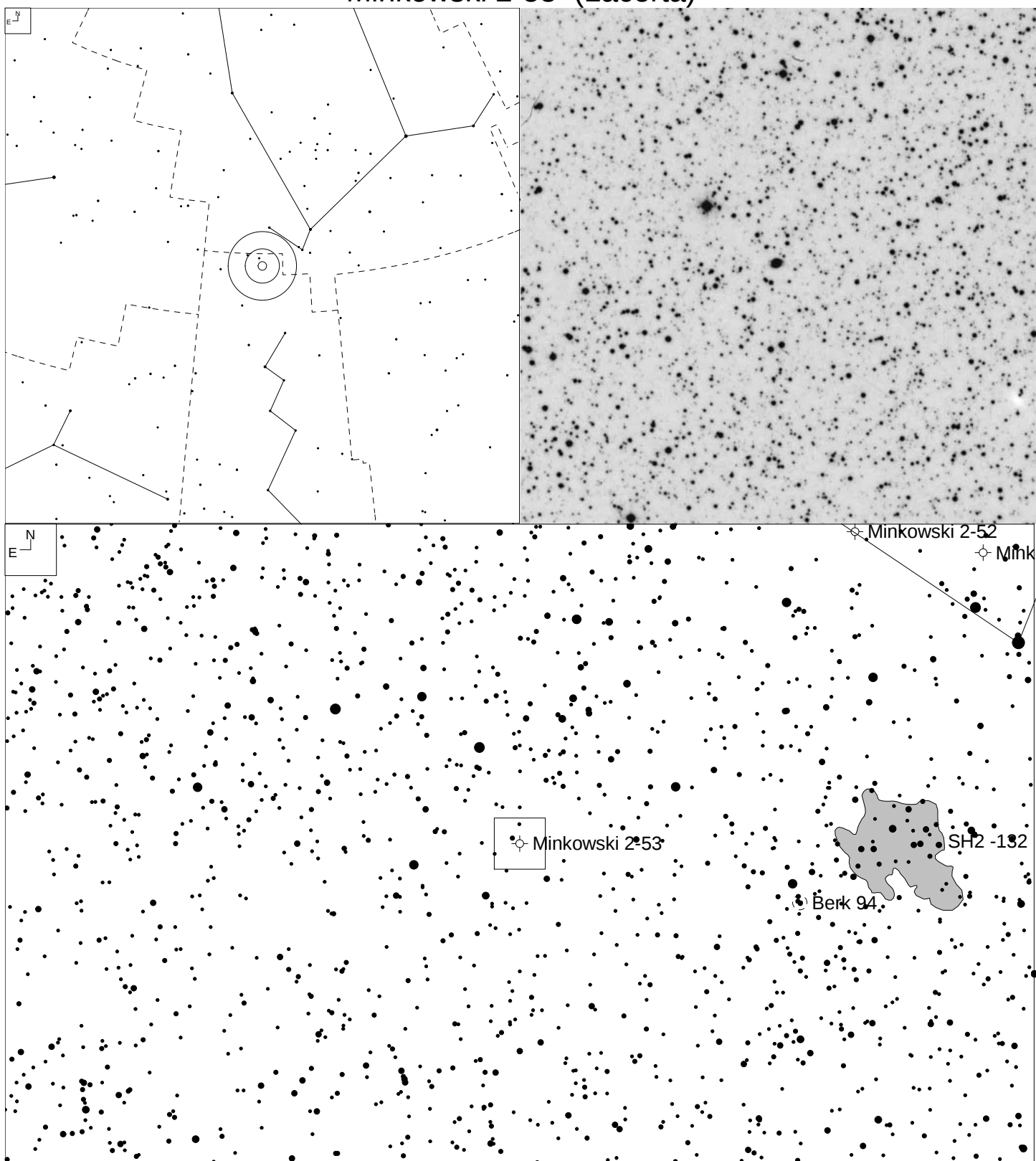
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 2-52.1	4	21 59 35.2	-39 23 09	12.9p 11. v	16.5	2.2'

IC 5217 (Lacerta)



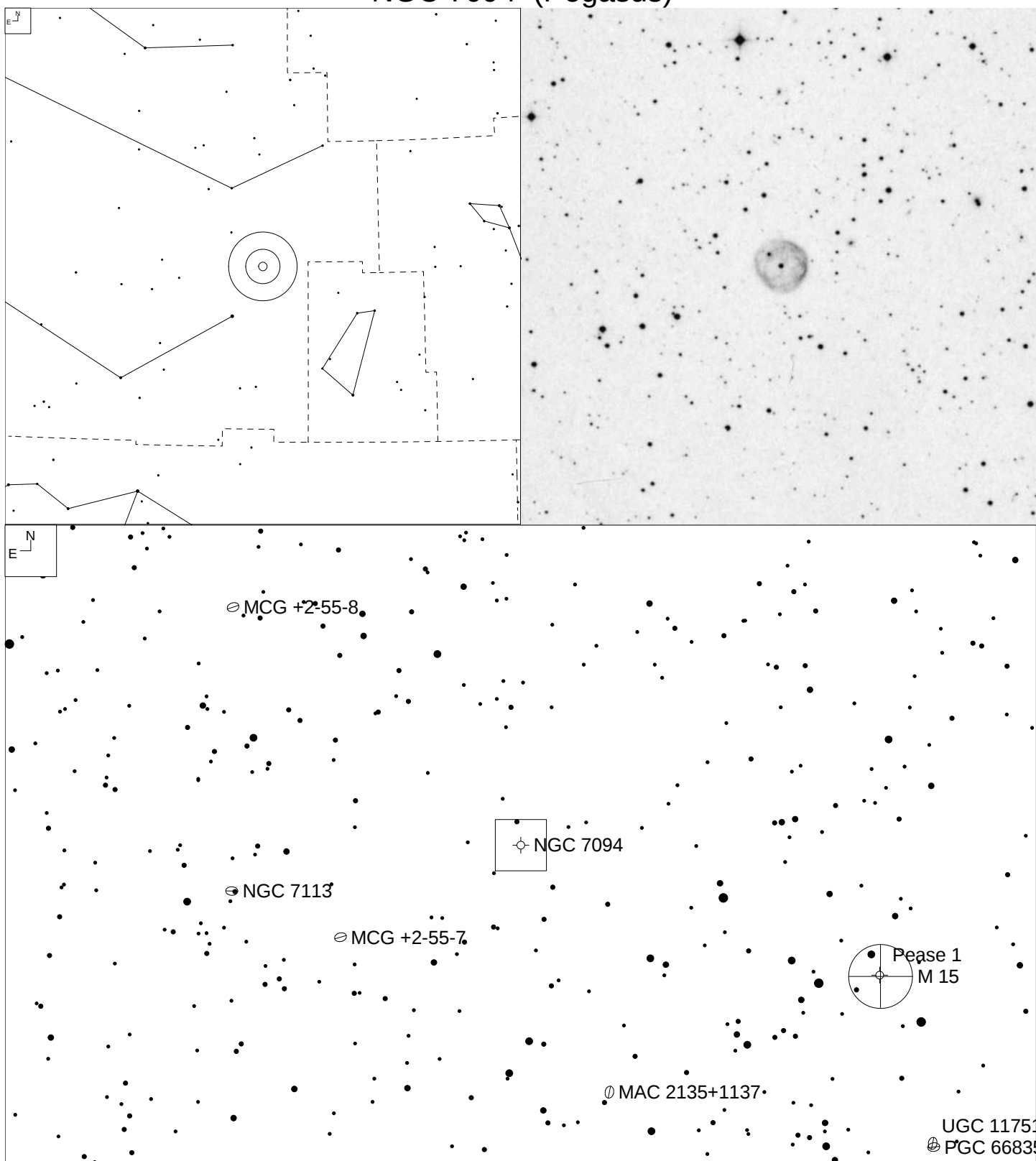
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 100-5.1	2	22 23 55.7	+50 58 00	12.6p 11.3v	15.4	8x6"

Minkowski 2-53 (Lacerta)



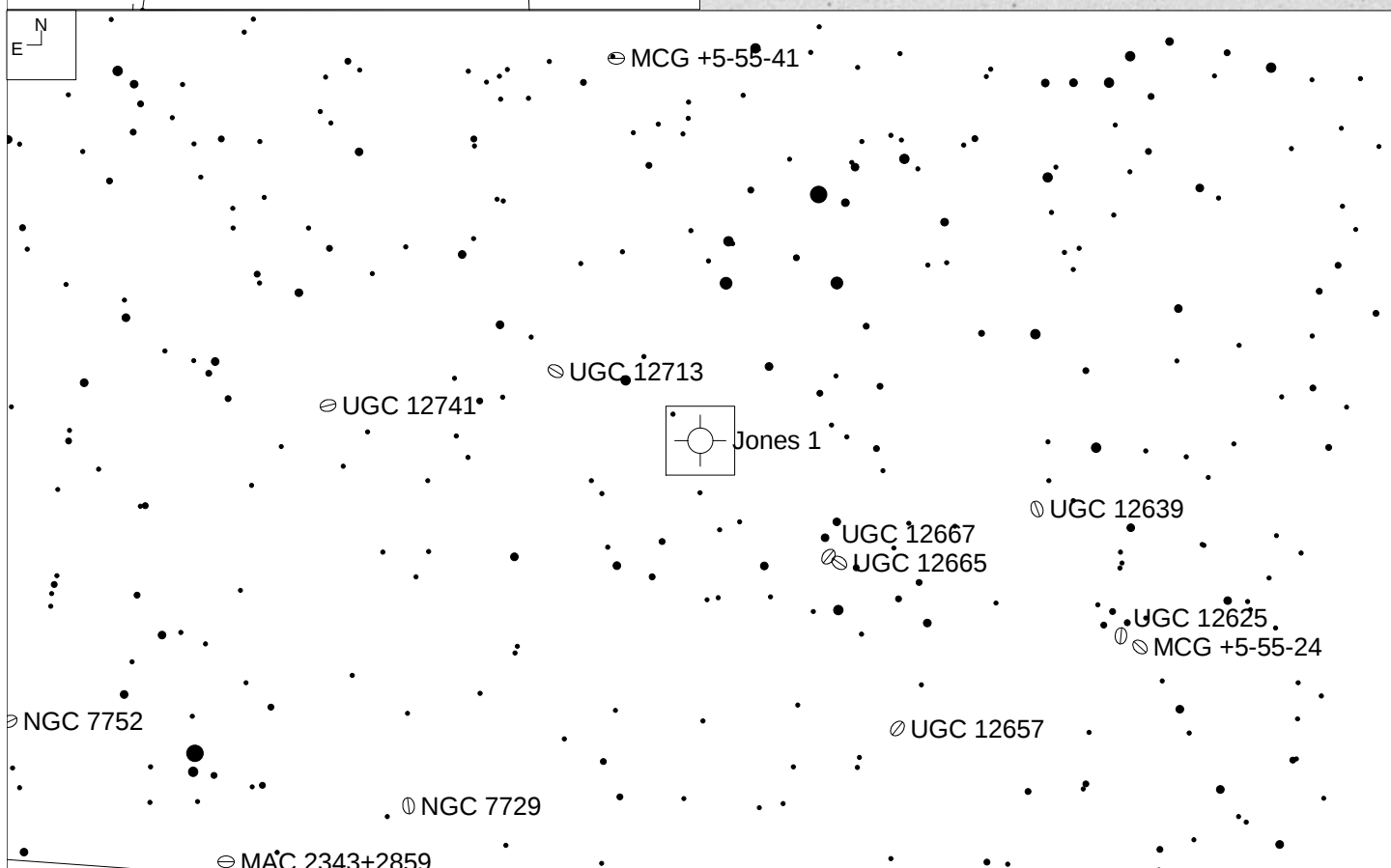
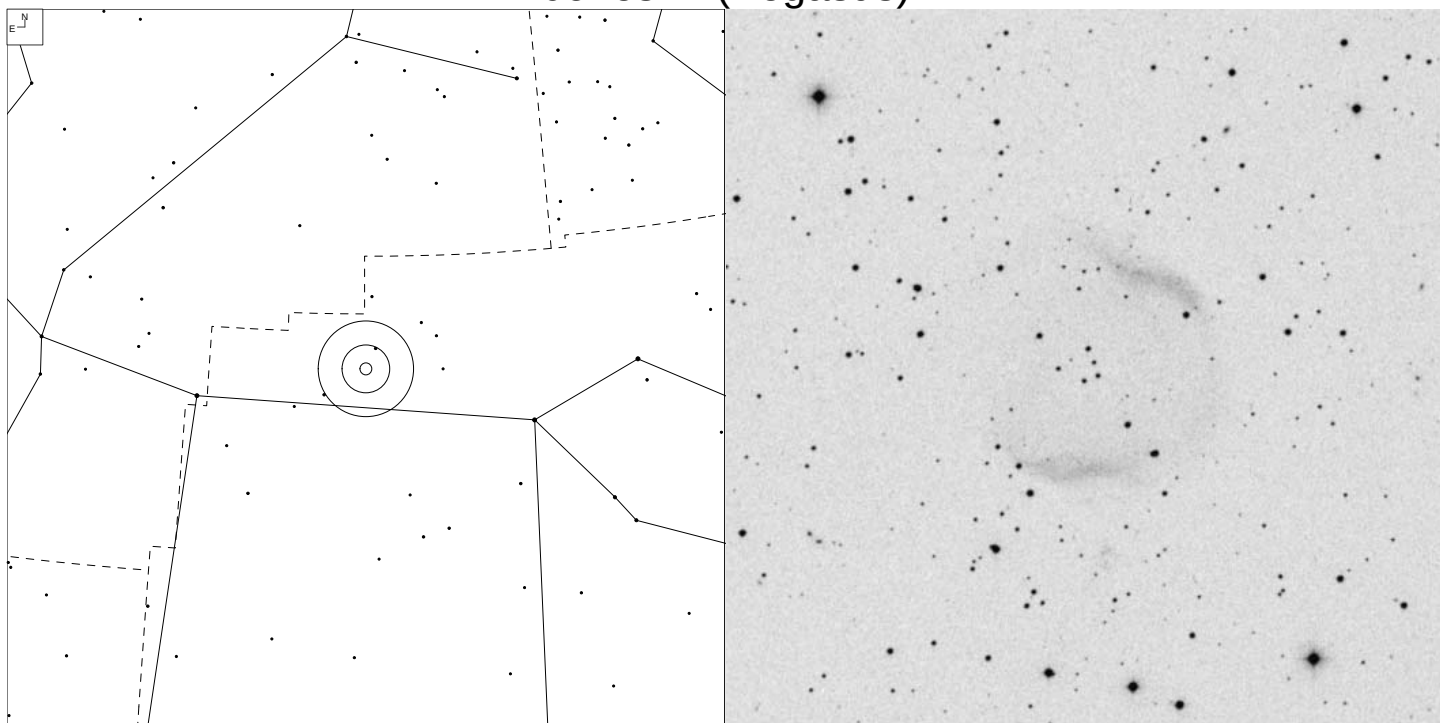
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 104-1.1	3b	22 32 17.6	+56 10 26	15.1p 14.8v	21.2	23 x 17"

NGC 7094 (Pegasus)



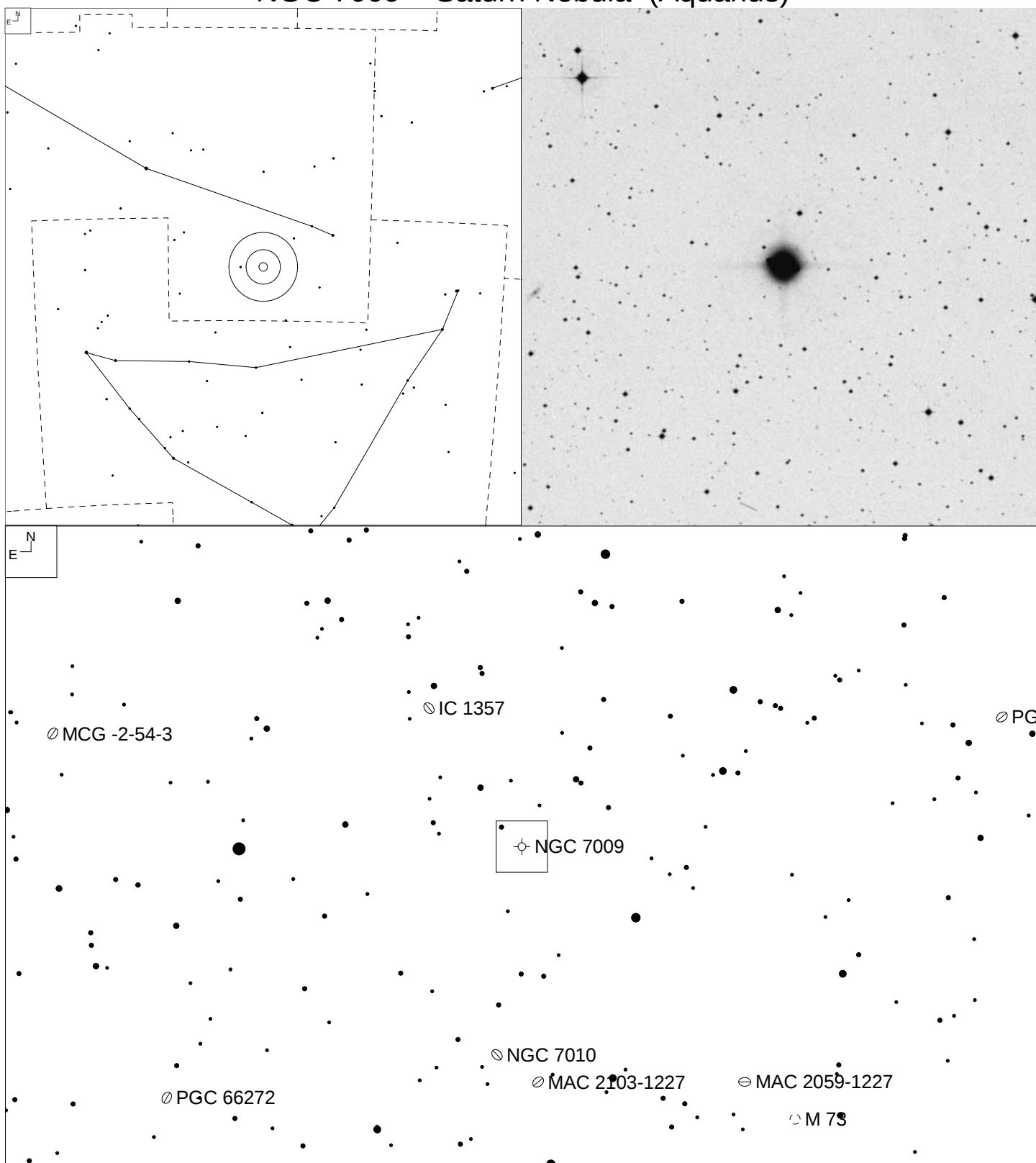
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 66-28.1	4	21 36 53.0	+12 47 19	13.6p 13.4v	13.6	97x90"

Jones 1 (Pegasus)



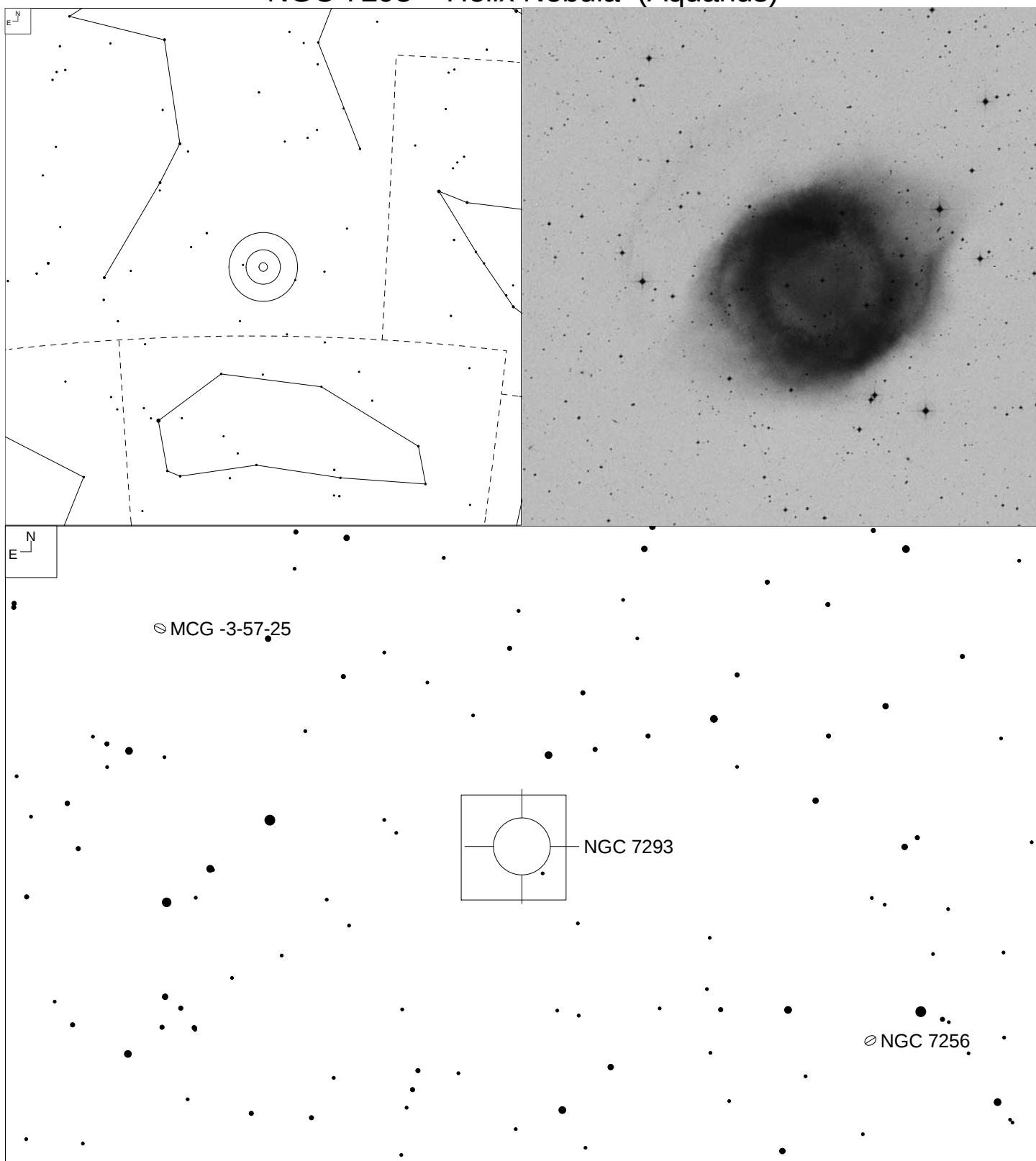
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 104-29.1	3b	23 35 53.6	+30 28 02	15.1p 12.1v	16.1	5.3'

NGC 7009 – Saturn Nebula (Aquarius)



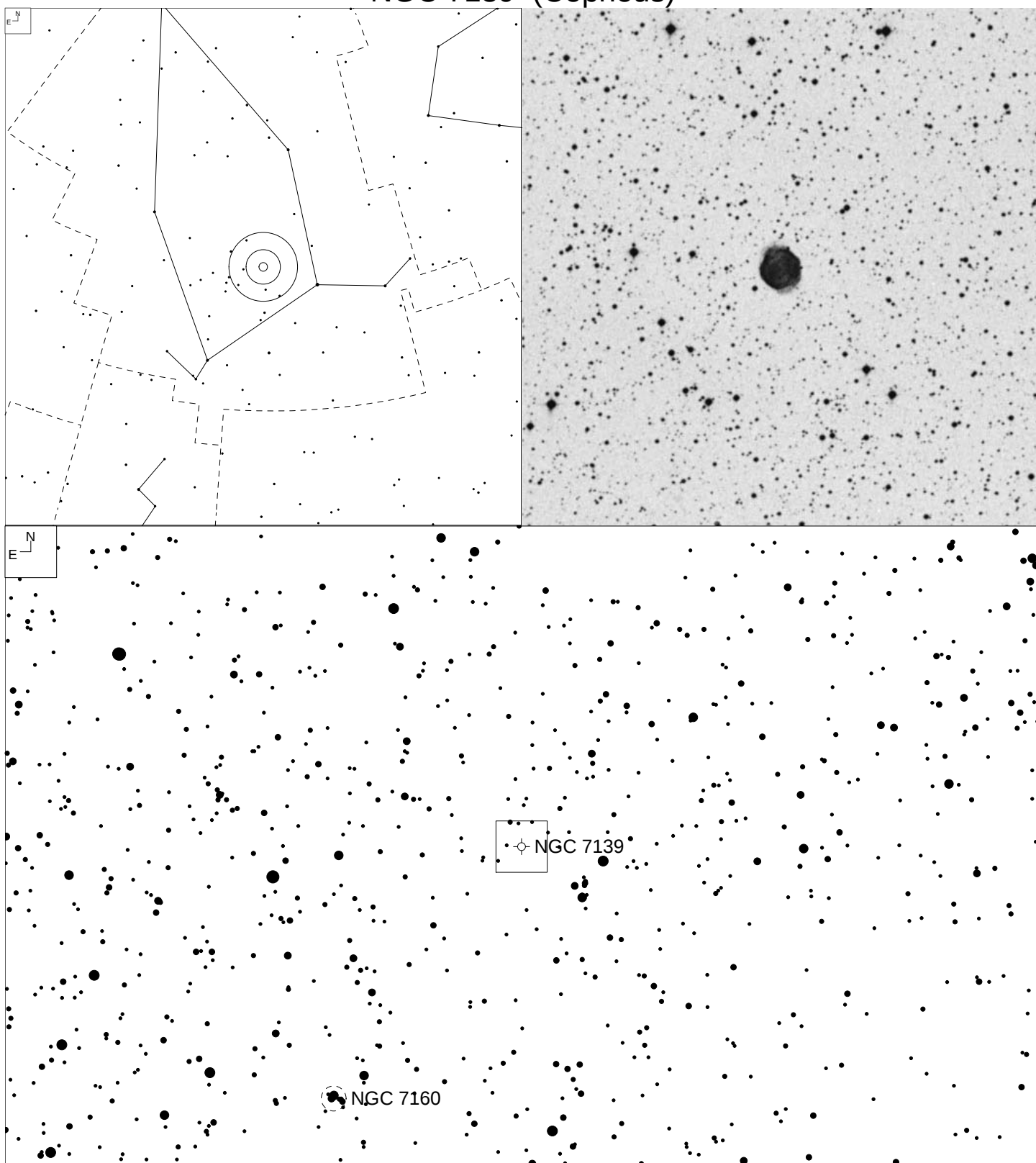
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 37-34.1	4+6	21 04 10.9	-11 21 49	8.3p 8.0v	12.7	70"

NGC 7293 – Helix Nebula (Aquarius)



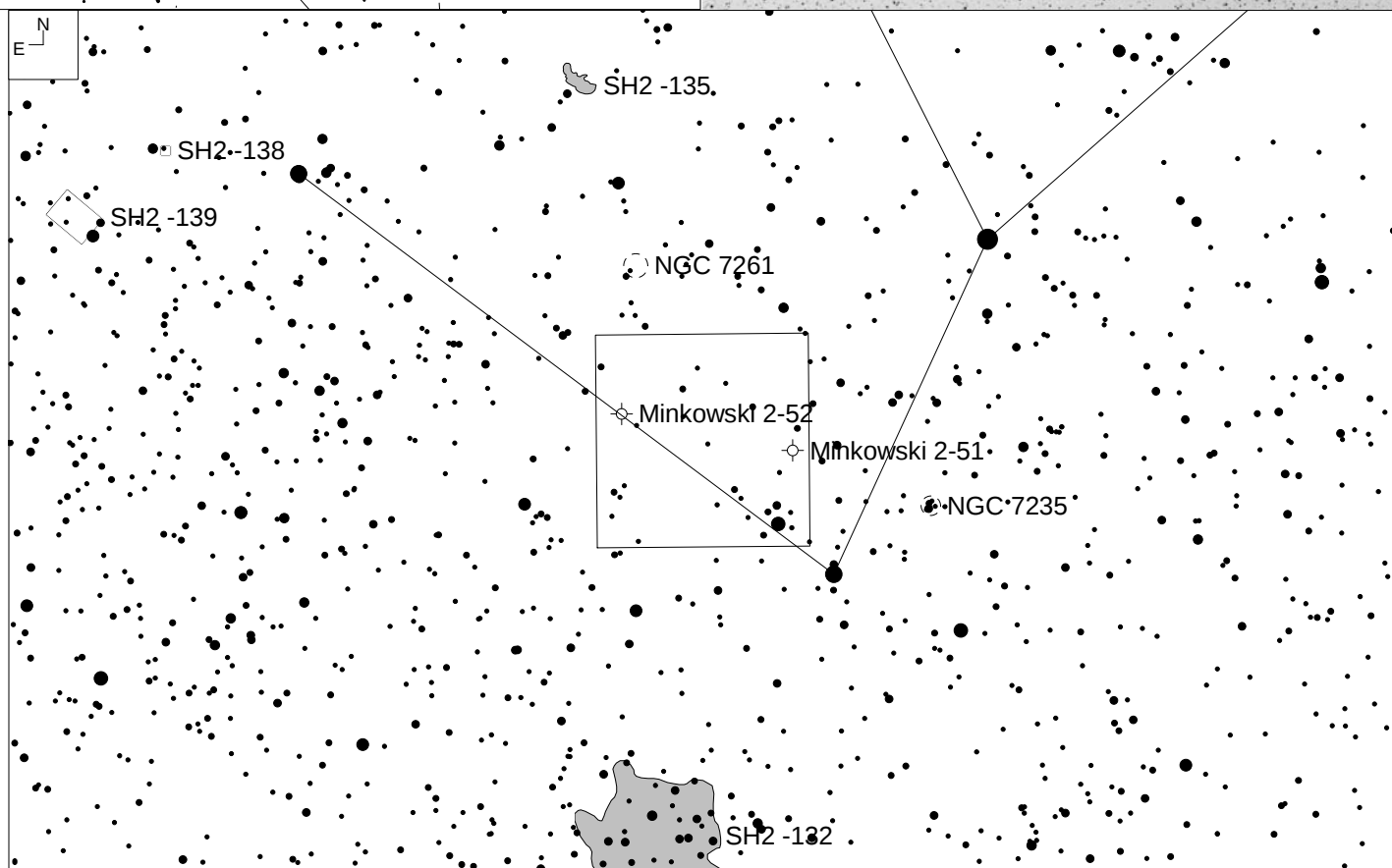
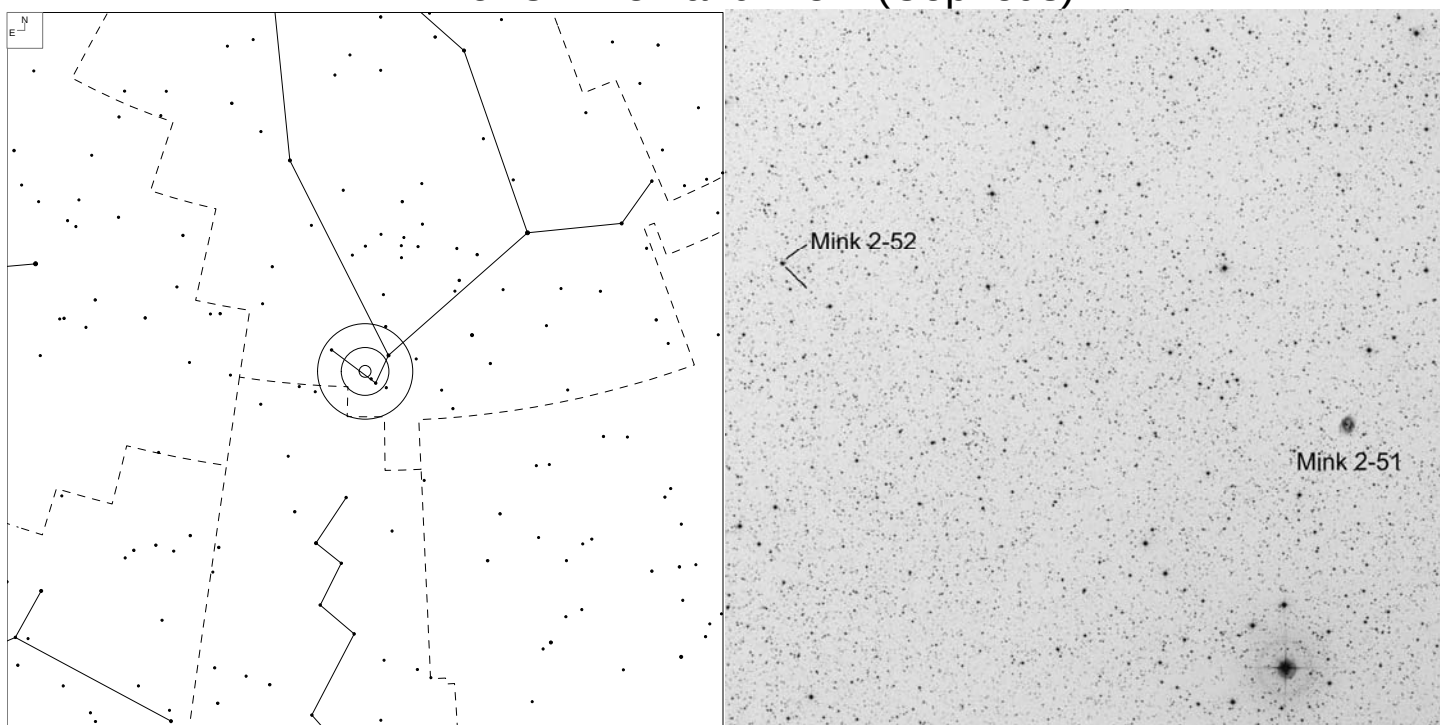
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 36-57.1	4+3	22 29 38.4	-20 50 12	7.5p 7.3v	13.62	900x720"

NGC 7139 (Cepheus)



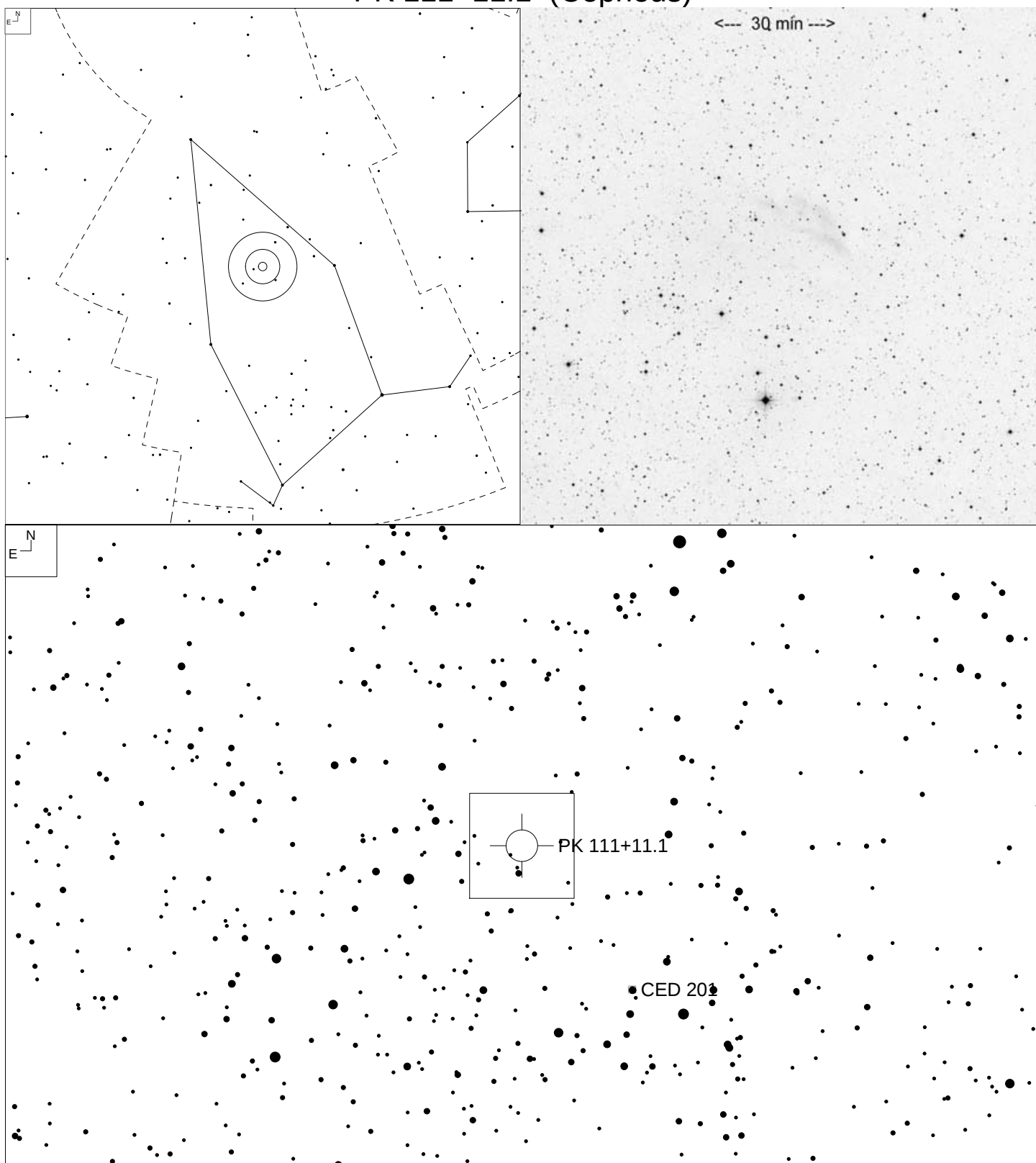
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 104+7.1	3b	21 46 08.6	+63 47 31	13.3p 13.3v	18.1	86x70"

Minkowski 2-51 and 2-52 (Cepheus)



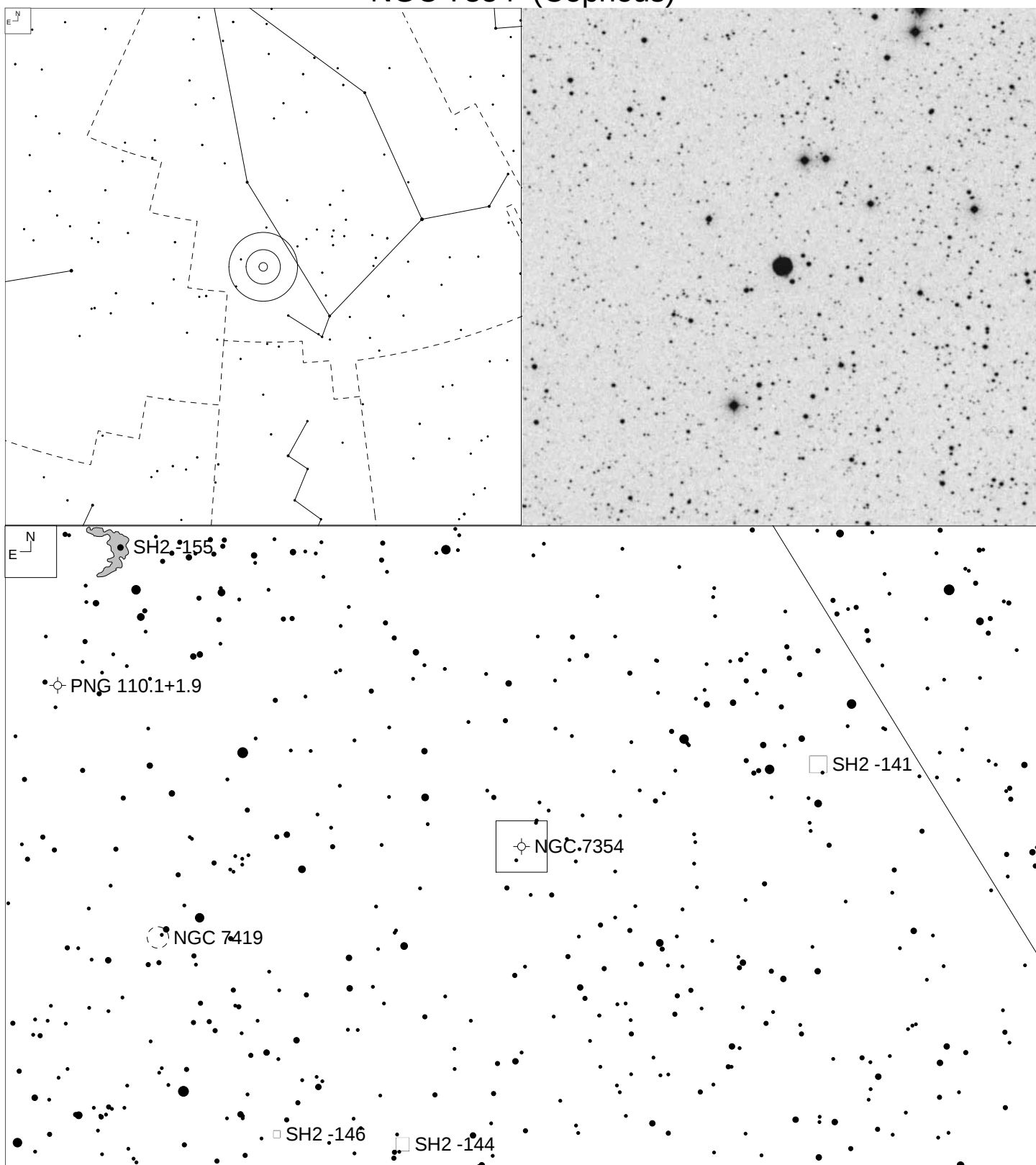
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 103+0.1	2+3	22 16 03.8	+57 28 33	13.5p 13.5v	20.4	13x12"
PK 103+0.2	3	22 20 30.9	+57 36 18	14.0p 15.3v	-	13x12"

PK 111+11.1 (Cepheus)



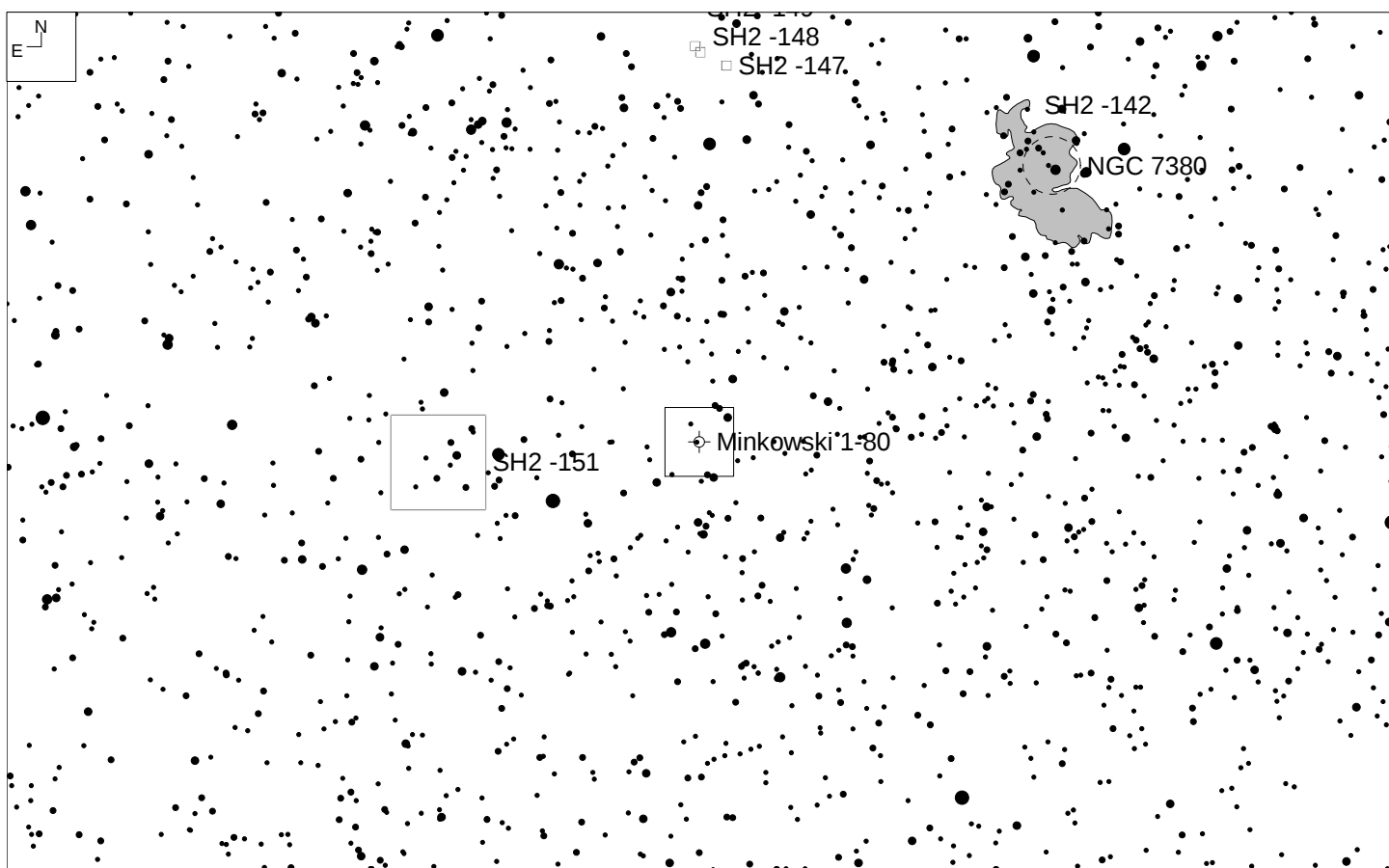
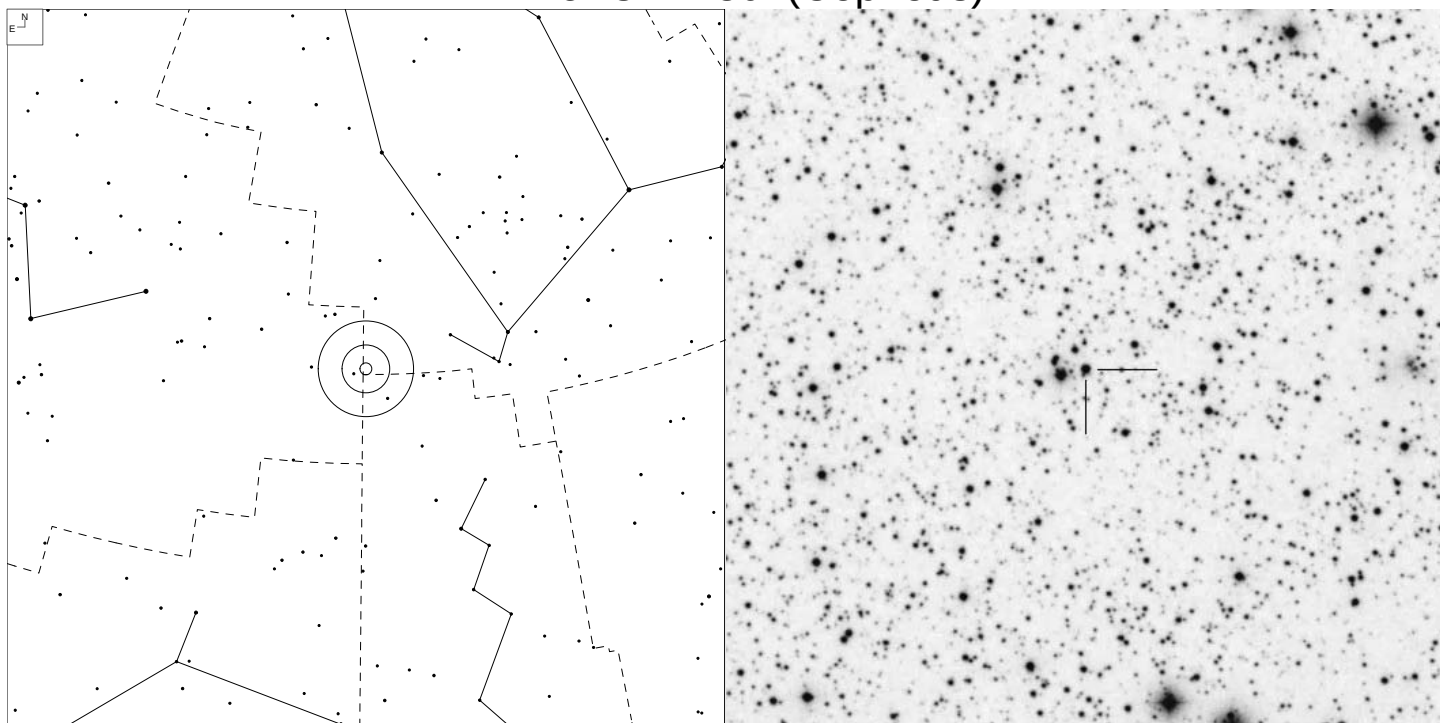
Other ID	Type	RA	Dec	Mag	* Mag	Size
-	-	22 19 33.9	+70 56 05	-	15.1	8.8'

NGC 7354 (Cepheus)



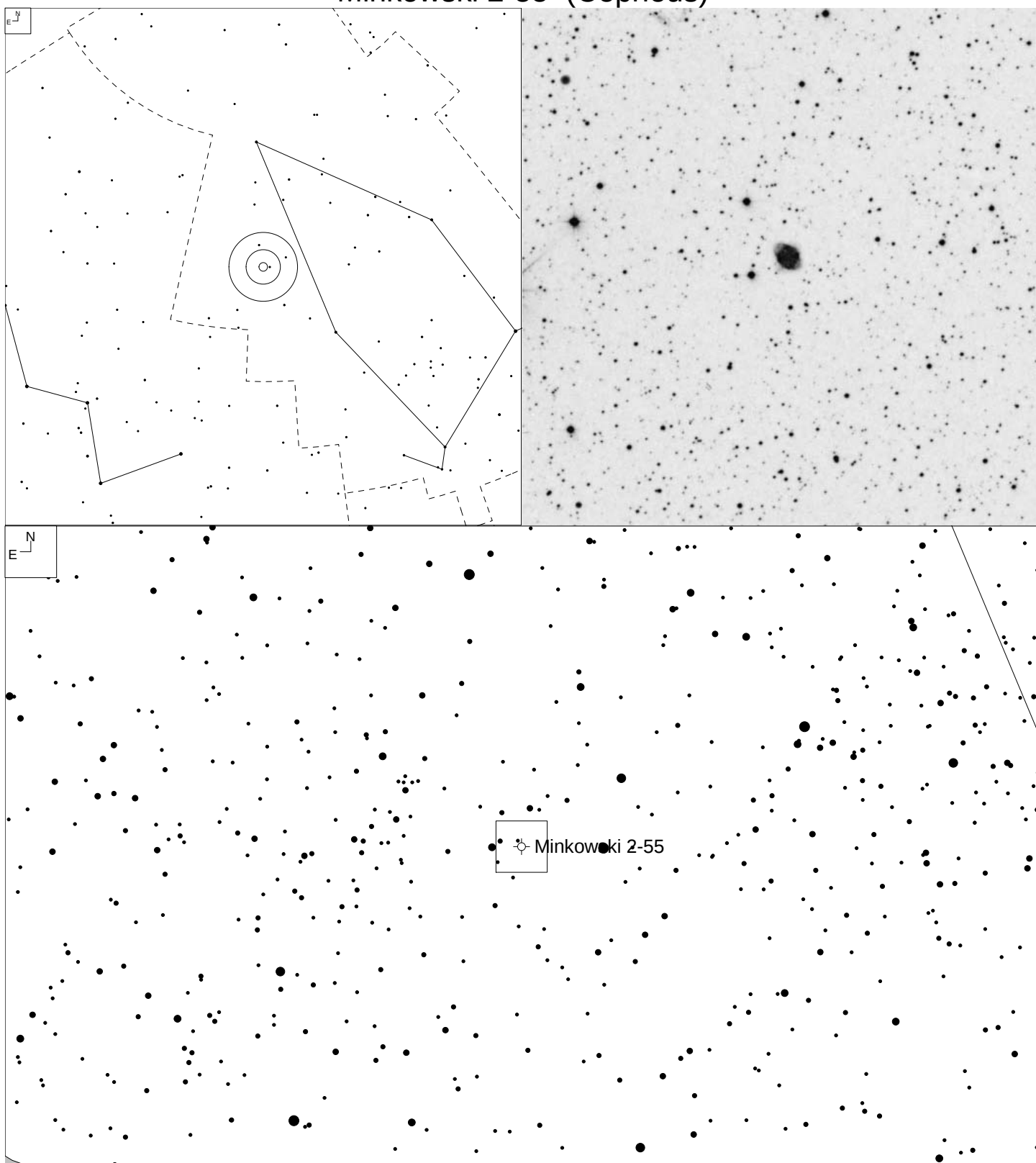
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 107+2.1	4+3b	22 40 20.1	+61 17 06	12.9p 12.2v	16.1	24"

Minkowski 1-80 (Cepheus)



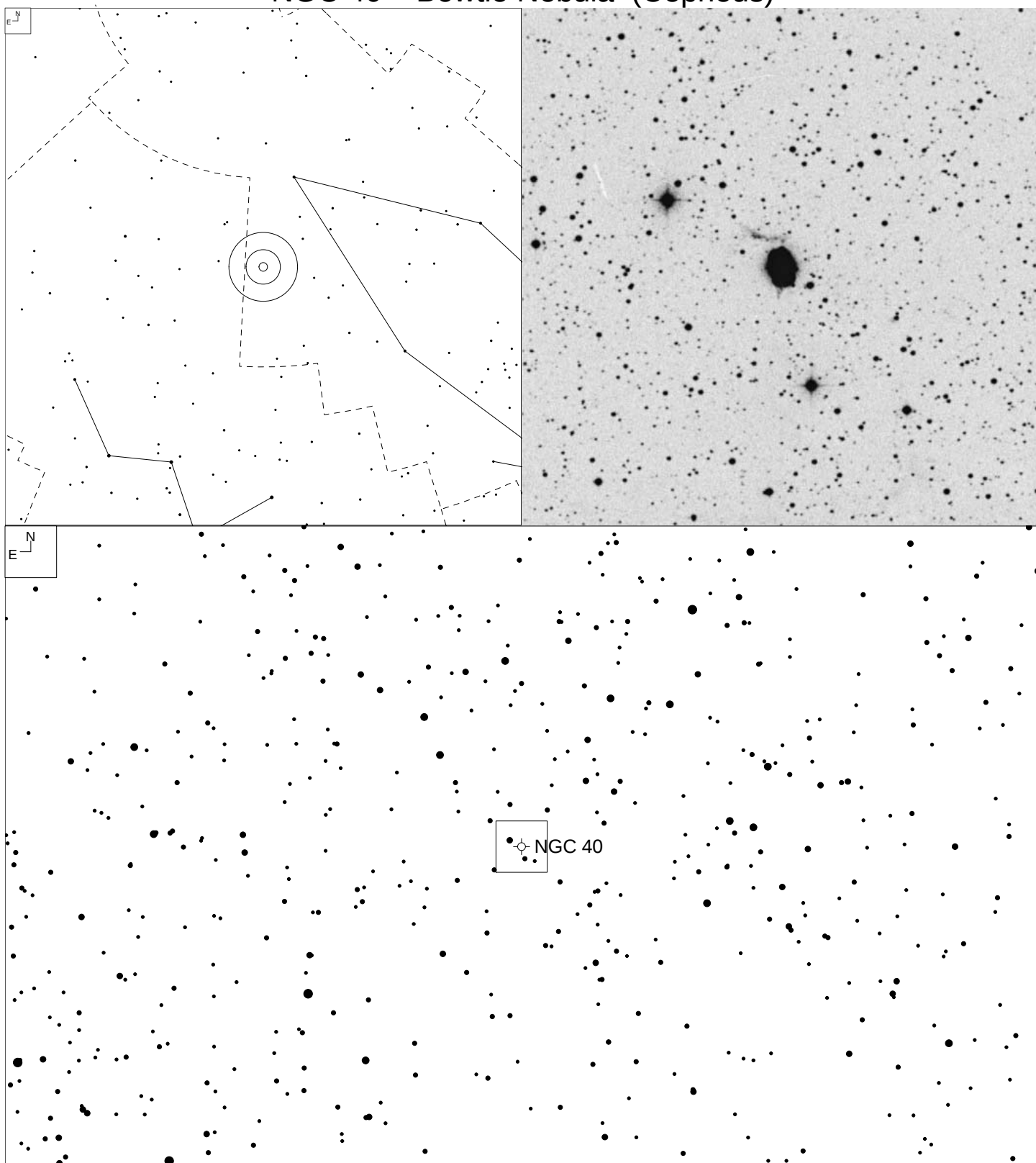
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 107+2.1	2	22 56 19.9	+57 09 20	14.0p 14.0v	-	8"

Minkowski 2-55 (Cepheus)



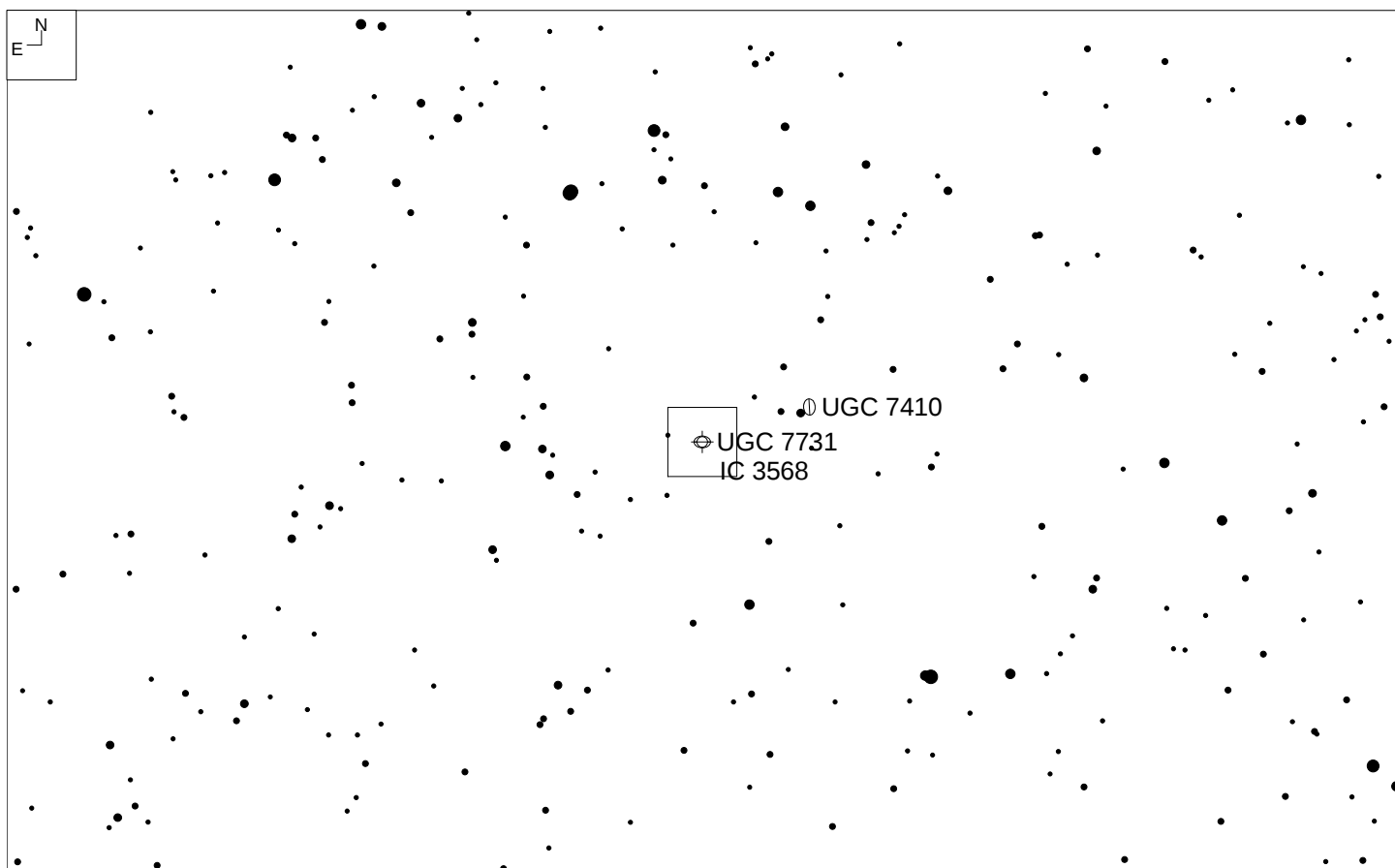
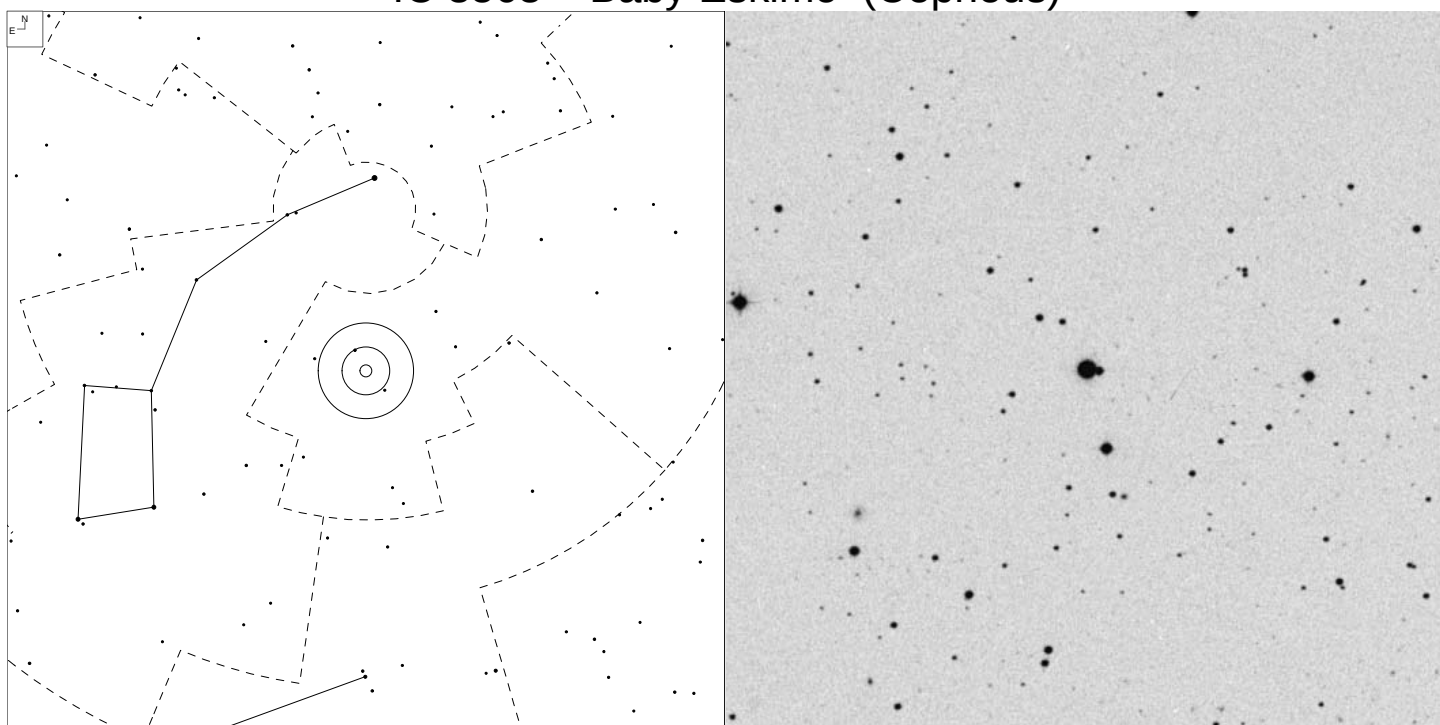
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 116+8.1	3	23 31 51.5	+70 22 16	14.3p 14.2v	21.1	63 x 45"

NGC 40 – Bowtie Nebula (Cepheus)



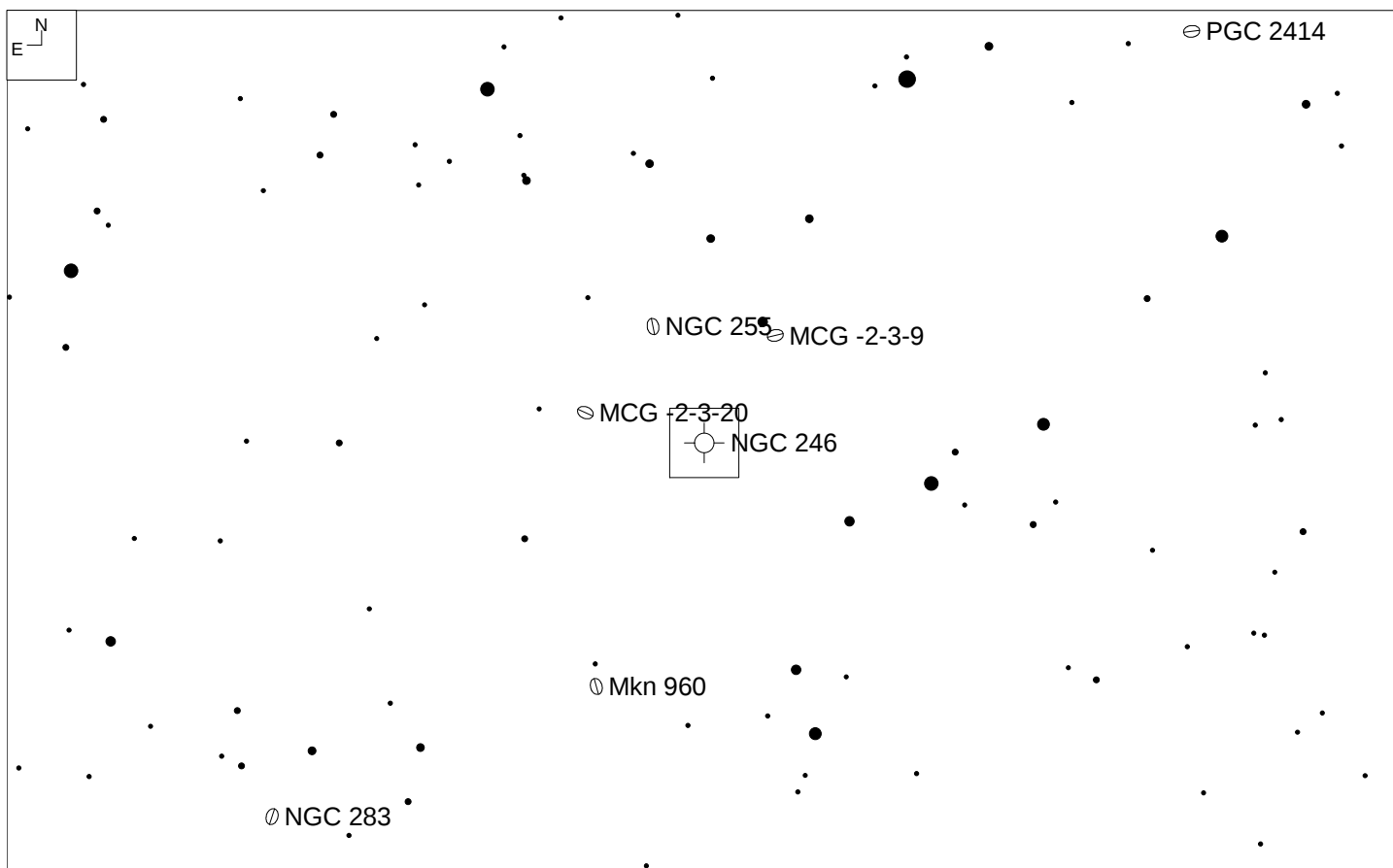
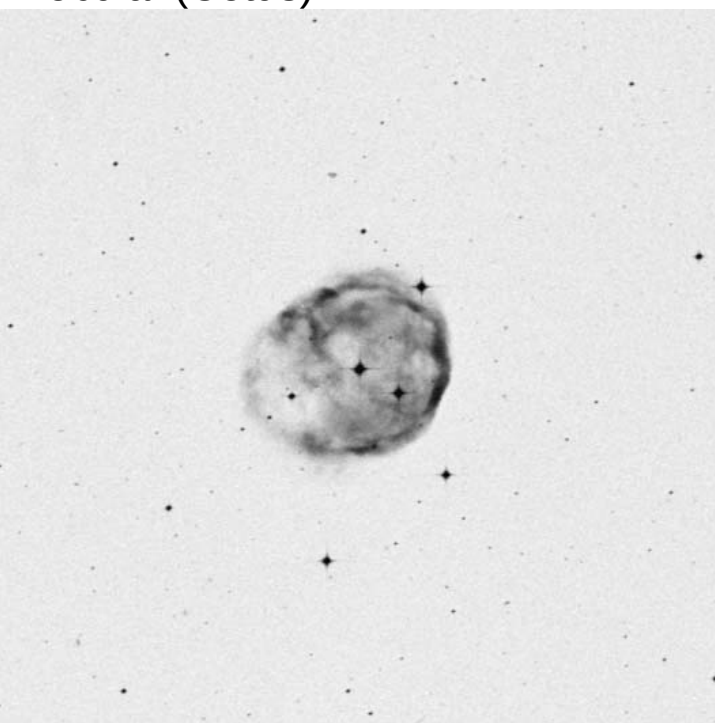
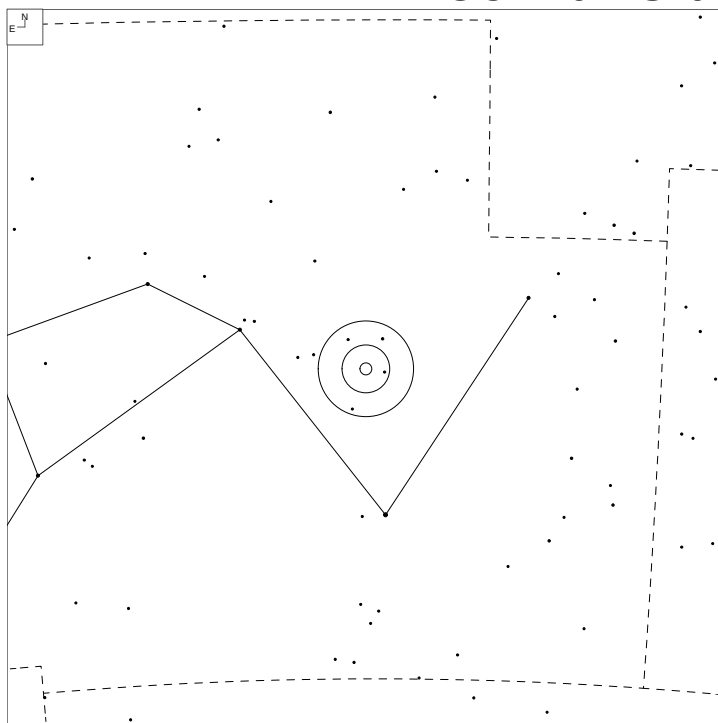
Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 120+9.1	3b+3	00 13 00.9	+72 31 19	10.7p 12.3v	11.5	38x35"

IC 3568 – Baby Eskimo (Cepheus)



Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 123+34.1	2+2a	12 33 06.1	+82 33 48	11.6p 10.6v	11.4	15"

NGC 246 – Skull Nebula (Cetus)



Other ID	Type	RA	Dec	Mag	* Mag	Size
PK 118-74.1	3b	00 47 03.6	-11 52 20	8.0p 10.9v	11.95	240x210"

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Sorted by Constellation

Page	AL	Object	Type	RA	Dec	Size	Mag	Mag*	Con
9		PK 118+2.1		00 07.3	+64 57	126	-	-	Cas
10		Vysotsky 1-1		00 18.7	+53 52	5	12.6p	14.1	Cas
11		PK 119+0.1	-	00 20.0	+62 59	15 x 15	15.7	22.3	Cas
12		PK 119-6.1	3b+3	00 28.2	+55 57	5 x 5	13.3p	16.5	Cas
13		Sharpless 2-176		00 31.9	+57 23	720	-	-	Cas
14		Wein 1-1	-	00 38.9	+66 24	19 x 19	21.9	21	Cas
15		PK 121+00.1	-	00 40.4	+62 51	40 x 40	15.4p	-	Cas
16		PK 124+10.1	5	01 07.1	+73 33	270x270	-	16.4	Cas
17		Kohoutek 3-90	-	01 25.0	+65 39	9 x 9	16.1	-	Cas
18		Sharpless 2-188		01 30.5	+58 23	540	-	-	Cas
19		Wein 2-5		01 42.7	+60 10	198	-	-	Cas
20	*	IC 1747	3b+3	01 57.6	+63 20	13 x 13	13.6	15.4	Cas
21		Kohoutek 3-91	-	01 58.6	+66 34	10 x 10	20.9p	20.5	Cas
22		Kohoutek 3-92	-	02 03.7	+64 58	12 x 12	16.7p	20.6	Cas
23		Kohoutek 3-93	-	02 26.5	+65 48	10 x 10	17.7	-	Cas
24		PK 136+5.1		03 03.8	+64 53	498	-	-	Cas
25	*	IC 289	4	03 10.3	+61 20	45 x 30	12.3	15.5b	Cas
26		PK 138+4.1		03 11.1	+62 48	342	-	-	Cas
27		Hubble 12	-	23 26.9	+58 11	10 x 10	14	13.8	Cas
28		Vysotsky 2-3		23 23.0	+46 54	4	13.9p	14.7	And
29	*	NGC 7662 (Blue Snowball)	4+3	23 25.9	+42 33	17 x 14	8.6	12.7	And
30		Kohoutek 1-20	4	23 39.1	+48 13	37 x 31	16.5	20.7	And
31		Minkowski 1-1		01 37.3	+50 28	6	14.1p	16.2	And
32		PK 125-47.1		00 59.9	+15 44	276	-	-	Psc
33	*	NGC 1360	3	03 33.4	-25 51	460x320	70	11.4	For
34	*	M-76 (Cork Nebula)	3+4	01 42.3	+51 34	90 x 45	12.2p	16.3	Per
35		PK 131-05.1	-	01 53.0	+56 24	24 x 24	14.9p	18	Per
36		Minkowski 1-2	1	01 58.8	+52 54	18	14.9p	13.4	Per
37		PK 149-9.1		03 27.3	+45 24	540	-	17	Per
38		Minkowski 1-4	-	03 41.7	+52 17	4 x 4	13.6p	16.7	Per
39		PK 156-13.1		03 45.4	+37 49	34	-	17.7	Per
40	*	IC 351	2a	03 47.5	+35 03	8 x 6	12.4P	15.0p	Per
41	*	IC 2003	2	03 56.4	+33 52	7 x 7	12.6P	15.4	Per
42		Kohoutek 3-64		04 13.5	+51 51	8	16.9p	-	Per
43	*	Sharpless 2-216	3	04 45.5	+46 49	100'	-	-	Per
44		Wein 1-2		04 46.6	+44 28	92	-	20.8	Per
45	*	NGC 1535	4+6	04 14.3	-12 45	20 x 17	10.8	11.6	Eri
46	*	NGC 1501	3	04 07.0	+60 55	56 x 48	11.3	14.2	Cam
47		Minkowski 2-2	3	04 13.3	+56 57	12 x 11	14.0p	-	Cam
48		PK 171-25.1	4	03 53.5	+19 28	38 x 38	13.9p	17.2	Tau
49	*	NGC 1514 (Crystal Ball)	3+2	04 09.2	+30 47	120 x 90	10.8	9.4	Tau
50		Haro 3-29	-	04 37.3	+25 03	20 x 20	15.3	18.6	Tau
51		M-1		05 34.5	+22 01	360 x 240	8.4	-	Tau
52		PK 181+0.1	-	05 52.8	+28 06	65 x 65	15.9	21.1	Tau
53		Sharpless 2-221	SNR?	04 54.8	+46 41	25.3x9.2'	-	-	Aur
54		Kohoutek 2-1	3	05 07.1	+30 49	132x132	13.7	18.8	Aur
55		Sharpless 2-223	SNR?	05 16.6	+42 04	60.0x7.0'	-	-	Aur
56		IC 2120	2	05 18.2	+37 36	50 x 50	12	16.2	Aur
57		Sharpless 2-224	SNR?	05 26.9	+42 58	30.5x17.5'	-	-	Aur
58		Wein 2-21	-	05 31.6	+28 59	10 x 10	16.1	-	Aur
59	*	IC 2149	3b+1	05 56.3	+46 07	12 x 6	11.2	10.5p	Aur
60		NGC 2242	-	06 34.1	+44 47	22 x 22	15.2	17.6	Aur

Sorted by Constellation

Page	AL	Object	Type	RA	Dec	Size	Mag	Mag*	Con
61	*	PK 164+31.1	4	07 57.8	+53 25	450x400	14.0p	16	Lyn
62	*	Jonckheere 320	2	05 05.6	+10 42	11 x 8	12.9P	14.4	Ori
63		Haro 3-75	-	05 40.7	+12 21	24 x 24	13.9	-	Ori
64	*	NGC 2022	4+2	05 42.2	09 05	28 x 27	12.3P	14.9	Ori
65		Wein 1-4		06 14.5	+07 34	40	-	21.1	Ori
66	*	IC 418 (Raspberry Nebula)	4	05 27.6	-12 46	14 x 11	12	9	Lep
67		PK 11+17.1		05 55.1	-22 54	2.2'			Lep
68		IC 443	SNR?	06 17.9	+22 46	27x7'	-	-	Gem
69	*	Jonckheere 900	3b+2	06 26.0	+17 47	12 x 10	12.4p	15.3	Gem
70	*	Minkowski 1-7	2	06 37.4	+24 01	38 x 20	13.4p	19.6	Gem
71		PK 192+7.1		06 40.1	+21 25	76	-	19	Gem
72	*	NGC 2371/2 (Double Bubble)	3a+2	07 25.5	+29 29	54 x 35	10.8	14.8	Gem
73	*	NGC 2392 (Eskimo Nebula)	3b	07 29.1	+20 55	47 x 43	9.7	10.4	Gem
74		PK 218-10.1	-	06 23.6	-10 13	94 x 94	15.4	16.2	Mon
75		Kohoutek 3-72		06 23.9	+05 30	11	-	-	Mon
76		Wein 1-5	-	06 41.6	-05 03	15 x 15	17.9	19.1	Mon
77		Kohoutek 2-2	3	06 52.5	+09 58	414x414	12.5	15	Mon
78		Minkowski 1-8	-	06 53.6	+03 08	22 x 15	14.3	21.3	Mon
79		Minkowski 1-9	1	07 05.3	+02 47	12	13.3p	15.6	Mon
80		PK 217+2.1	-	07 06.8	-03 05	12 x 5	14.2	-	Mon
81	*	NGC 2346	3b+4	07 09.4	-00 48	60 x 50	12.5	11.4v	Mon
82		Wein 1-6		07 17.4	-10 11	62	-	16.8	Mon
83		Minkowski 3-3	4	07 26.6	-05 22	15 x 10	14.3	-	Mon
84	*	IC 2165	3b	06 21.8	-12 59	9 x 7	12.5p	15.1	CMa
85		PNG 233.0-10.1	4	06 50.7	-22 26	55 x 55	16.3	-	CMa
86		PK 239-12.1	-	06 55.2	-29 07	30 x 30	15.1	19	CMa
87		Sanduleak 2-2		07 02.8	-13 43	10	13.3p	16.2	CMa
88		Minkowski 3-1	? + 4	07 02.8	-31 36	14 x 9	12	15.5	CMa
89		Kohoutek 2-3	3	07 07.0	-22 02	76 x 53	14.8	21	CMa
90		Kohoutek 1-10	3b	07 12.6	-16 06	90 x 54	-	21	CMa
91		Minkowski 3-2	3b	07 14.8	-27 50	12 x 7	15.7	21.1	CMa
92		Minkowski 1-13	-	07 21.2	-18 09	42 x 30	12.9	-	CMa
93		Minkowski 1-18	2b	07 42.1	-14 21	31 x 30	14	20.9	Pup
93	*	NGC 2438 (in M-46)	4	07 41.9	-14 44	68 x 68	11	17.7	Pup
94	*	NGC 2440	5+3	07 41.9	-18 12	54 x 20	11.4	14	Pup
95	*	NGC 2452	4+3	07 47.4	-27 30	22 x 16	12.6p	19.0p	Pup
96		Kohoutek 1-12	2	07 50.2	-19 18	38 x 36	15.9	21	Pup
97		Minkowski 3-4	4	07 55.2	-23 38	14 x 14	14	15.7	Pup
98		Sanduleak 2-21	-	08 08.7	-19 14	40 x 40	13.7	-	Pup
99		Saduleak 2-28		08 36.6	-35 15	20	-	-	Pyx
100	*	Minkowski 3-6	2a	08 40.7	-32 22	8.2 x 8.2	10.7p	13.9	Pyx
101		Kohoutek 1-2	2	08 57.8	-28 57	63 x 54	15.3	16.6	Pyx
102	*	NGC 2818	3b	09 16.0	-36 37	40 x 40	13	17.5	Pyx
103	*	IRAS 09371+1212 (Frosty Leo)	Proto	09 39.9	+11 59	12	10.5	11	Leo
104	*	NGC 2610	4+2	08 33.4	-16 09	38 x 31	13.6	15.5	Hya
105	*	NGC 3242 (Ghost of Jupiter)	4+3b	10 24.8	-18 38	40 x 35	8.8	11.7	Hya
106		Kohoutek 1-28	-	10 34.5	-29 11	54 x 54	-	16.7	Hya
107		Kohoutek 1-22	-	11 26.7	-34 22	188 x 174	12.6	17.4	Hya
108	*	NGC 3132 (Eight-burst)	4+2	10 07.0	-40 26	30 x 30	8.2	8.8	Vel
109	*	NGC 4361	3a+2	12 24.5	-18 48	81 x 81	10.3	13	Crv
110	*	M-97	3a	11 14.8	+55 00	180 x 180	12	16	UMa
111		Longmore-Tritton 5	-	12 55.5	+25 53	528	-	14.9	Com

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Page	AL	Object	Type	RA	Dec	Size	Mag	Mag*	Con
112		IC 4406	4+3	14 22.5	-43 41	100 x 37	10.6	17	Lup
113	*	NGC 5873	2	15 12.9	-38 06	3 x 3	13.3	15.5	Lup
114	*	NGC 6026	4	16 01.3	-34 33	54 x 36	13.2p	13.2	Lup
115		Kohoutek 1-32		16 03.3	-36 01	60	-	19	Lup
116	*	NGC 6058	3+2	16 04.4	+40 41	25 x 20	13.3	13.7	Her
117	*	IC 4593 (White Eyed Nebula)	2+2	16 12.3	+12 04	15 x 11	11.4	11.2	Her
118	*	NGC 6210 (Turtle Nebula)	2+3b	16 44.5	+23 48	20 x 13	9.7	12.3	Her
119		Kohoutek 1-14	4	17 42.6	+21 27	47 x 47	15.6	16.4	Her
120		Wein 3-1		18 34.0	14 49	2.3'	-	-	Her
121		PK 051+9.1	-	18 49.8	+20 50	3 x 3	11.6	13.3	Her
122		Henize 2-126	2	15 22.3	-23 38	6 x 6	11.6	16.7	Lib
123		Henize 2-180	1	16 43.9	-18 57	12	14.4	15.2	Oph
124	*	IC 4634	2a+3	17 01.6	-21 40	10 x 7	12.3	17.4	Oph
125	*	Minkowski 2-9 (Butterfly Nebula)	?+6	17 05.6	-10 09	39 x 15	14.6	15.6	Oph
126		Sanduleak 2-172	-	17 05.7	-25 25	10	14.9	17.8	Oph
127	*	NGC 6309 (Box Nebula)	3b+6	17 14.1	-12 54	21 x 12	11.7	14.4	Oph
128		Sanduleak 3-42	-	17 17.3	-28 59	17	16.4p	-	Oph
129		Minkowski 3-39	3+2	17 21.2	-27 11	21 x 15	15.3	-	Oph
130		Minkowski 3-9	3	17 25.7	-26 12	18 x 16	15.6	18.8	Oph
131		Minkowski 1-20	1	17 29.0	-19 16	7	13.4p	17.1	Oph
132	*	NGC 6369 (Little Ghost)	4+2	17 29.3	-23 45	28 x 28	10.4	16	Oph
133		Wray 16-282	3	17 31.7	-28 42	37	14.9p	-	Oph
134		Minkowski 1-22	4	17 35.2	-18 34	9	13.3p	-	Oph
135		Henize 2-260	-	17 39.0	-18 18	10	11.0v	14.2	Oph
136		Henize 2-261	3	17 40	-21 14	17	15.3p	-	Oph
137		Henize 2-264	3	17 40.5	-27 01	37	-	20.3	Oph
138		Henize 2-266	3b	17 42.0	-24 43	6.2 x 6.2	13.6	17	Oph
139		PK 28+10.1	-	18 06.0	+00 22	36	16.8p	16.8	Oph
140	*	NGC 6572 (Emerald Nebula)	2a	18 12.1	+06 51	14 x 9	9	13.1	Oph
141		Cannon 3-1	2	18 17.6	+10 09	7 x 7	11.8	12.5	Oph
142	*	NGC 6072	3a	16 13.0	-36 14	50 x 30	14.1	17.5	Sco
143	*	NGC 6153	4	16 31.4	-40 14	25 x 25	11.5	16.1	Sco
144		Wray 17-76	-	16 44.8	-28 04	23	11.0 IR	12.7	Sco
145		IC 4637	3	17 05.2	-40 53	21 x 17	13.6	12.5	Sco
146	*	NGC 6302 (Bug Nebula)	6	17 13.7	-37 06	83 x 24	9.7	21.1	Sco
147	*	NGC 6337 (Cheerio Nebula)	4	17 22.2	-38 29	40 x 40	11.9p	16	Sco
148		Sanduleak 3-62	-	17 32.3	-39 51	20	15.8p	-	Sco
149		Henize 2-253	4	17 36.5	-39 22	18	14.4p	-	Sco
150		Wray 17-98	3+2	17 46.0	-31 04	13	-	-	Sco
151		Henize 2-289	-	17 49.8	-37 01	10	12.0p	16.8	Sco
152		Minkowski 1-28	3+6	17 47.6	-22 06	15	16.8p	20.8	Sgr
153		Henize 2-286	2+4	17 47.9	-30 00	3 x 3	12	18.6	Sgr
154		NGC 6439	2a	17 48.3	-16 29	5 x 5	13.8	18	Sgr
155	*	NGC 6445 (Crescent Nebula)	3b+3	17 49.3	-20 01	38 x 29	9.5	19.1	Sgr
156	*	Henize 2-305	2	17 55.1	-21 45	5 x 5	13.6	14	Sgr
157		Minkowski 2-25	3	18 02.7	-32 09	14	15.0p	-	Sgr
158		IC 4673	4	18 03.3	-27 06	16 x 16	12.9p	17.6	Sgr
159	*	NGC 6537 (Red Spider Nebula)	2a+6	18 05.3	-19 5	5 x 5	12.5	18.8	Sgr
160		Minkowski 3-23	2	18 07.1	-30 34	11	13.8p	-	Sgr

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Page	AL	Object	Type	RA	Dec	Size	Mag	Mag*	Con
161	*	PK 359-06.2 (Gomez Hamburger)	-	18 09.2	-32 10	5.5 x 3.5	14.4v	-	Sgr
162	*	NGC 6565	4	18 11.9	-28 10	10 x 8	13.2	18.5	Sgr
163	*	NGC 6563	3a	18 12.0	-33 52	50 x 37	12	18	Sgr
164	*	NGC 6567	2a+3	18 13.8	-19 04	11 x 7	11.7	15	Sgr
165	*	NGC 6578	2a	18 16.3	-20 27	8 x 8	13.1	15.8	Sgr
166	*	NGC 6620	2b	18 22.9	-26 50	5 x 5	15	19.6	Sgr
167	*	NGC 6629	2a	18 25.7	-23 12	16 x 14	10.8	13	Sgr
168		PK 13-2.1	-	18 26.0	-18 13	18'	15.2	-	Sgr
169	*	NGC 6644	2	18 32.6	-25 08	3 x 3	12.2	15.6	Sgr
170	*	IC 4732	1	18 34.0	-22 28	3 x 3	13	16.2	Sgr
171		Wray 15-1876	-	18 34.9	-27 07	13	15.2p	18	Sgr
172		Minkowski 1-54	3	18 36.1	-17 00	13	12.5p	-	Sgr
173		Henize 3-1716	-	18 36.5	-19 19	-	15.1p	13.2	Sgr
174		Minkowski 1-56	1	18 37.8	-17 06	10	13.3p	16.2	Sgr
175		Henize 2-418	-	18 44.3	-30 20	13	15.1	15.6	Sgr
176		Sanduleak 2-364	?+3	18 45.6	-20 35	13	13.9p	18.4	Sgr
177	*	IC 4776	2a	18 45.9	-33 21	8 x 6	11	14.1	Sgr
178		Sanduleak 2-375	2	18 55.3	-32 16	4 x 4	10.9	13.9	Sgr
179		Sanduleak 2-381	2	19 05.3	-33 09	5 x 5	13.4	-	Sgr
180		Pne Candidate Jul 27, 2009		19 37.7	-13 51.3	34	-	-	Sgr
181	*	NGC 6818 (Little Gem)	4	19 43.9	-14 09	22 x 15	10	12	Sgr
182	*	NGC 6543 (Cat's Eye Nebula)	3a+2	17 58.6	+66 38	23 x 18	8.3	10.9	Dra
183		Kohoutek 1-16	3	18 21.9	+64 22	110x110	14.5p	15	Dra
184		Kohoutek 1-6	2	20 04.4	+74 26	2.7'	-	-	Dra
185	*	M-57 (Ring Nebula)	4+3	18 53.6	+33 01	85 x 62	8.8	15	Lyr
186		Minkowski 1-64	4	18 50.0	+35 15	36.2 x 36.2	12.8p		Lyr
187	*	NGC 6765	5	19 11.1	+30 33	38 x 38	13.1	16	Lyr
188		Kohoutek 3-27		19 14.5	+28 41	16	14.9p	17.2	Lyr
189	*	Henize 2-438 (Campbell's Star)	4	19 34.8	+30 31	3 x 3	9.6	10.1	Cyg
190	*	Minkowski 1-92 (Footprint)	proto	19 36.3	+29 33	- x -	-	-	Cyg
191	*	NGC 6826 (Blinking Planetary)	3a+2	19 44.9	+50 31	27 x 24	8.7	10.6	Cyg
192	*	NGC 6833	2	19 49.7	+48 58	2 x 2	12	20.3	Cyg
193		Kohoutek 3-46	3b+4	19 50.0	+33 46	32 x 17	16.4	-	Cyg
194		Henize 1-4	3b	19 59.3	+31 55	22	14.1	21.1	Cyg
195		NGC 6857	3+3	20 01.8	+33 31	40 x 40	11.4	13.3	Cyg
196		PK 75+4.1	3b	20 04.3	+39 36	28	16	-	Cyg
197		Minkowski 1-75	3b+6	20 04.7	+31 27	42	16.0v	21	Cyg
198		Kohoutek 3-74	-	20 08.7	+42 30	20	16.1p	-	Cyg
199		Minkowski 4-17	4+2	20 09.0	+43 44	23 x 21	14.6	-	Cyg
200		WR 134		20 09.4	+36 08	100'	-	-	Cyg
201		PN G075.5+1.7		20 15.3	+38 02.7	240	-	-	Cyg
202	*	NGC 6884	2b	20 10.4	+46 28	6 x 6	12.6	18.6	Cyg
203	*	NGC 6881	2a+3	20 10.8	+37 25	5 x 5	14.3	18.3	Cyg
204	*	NGC 6894	4+2	20 16.4	+30 34	55 x 55	11.5	17.5	Cyg
205		Wein 1-10	-	20 31.9	+48 53	3.2'	15.1v	18.1	Cyg
206		Kohoutek 4-53		20 42.3	+37 40	20	16.0p	-	Cyg
207		Kohoutek 4-55	-	20 45.2	+44 39	27	-	-	Cyg
208		Kohoutek 3-79	-	20 53.2	+53 46	12	17.8p	-	Cyg
209	*	NGC 7008 (Fetus Nebula)	3	21 00.6	+54 33	86 x 69	13.3	13.3	Cyg
210	*	PK 80-6.1 (Egg Nebula)	proto	21 02.3	+36 42	16 x 16	13.5	-	Cyg
211	*	NGC 7026 (Cheeseburger Neb.)	3a	21 06.3	+47 51	28 x 13	11.8	14.2	Cyg

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Page	AL	Object	Type	RA	Dec	Size	Mag	Mag*	Con
212	*	NGC 7027 (Magic Carpet Neb.)	3a	21 07.1	+42 14	18 x 11	10.4	11.3	Cyg
213	*	PK 089-0.1	3a	21 14.1	+47 44	44 x 29	14.5	19.7	Cyg
214	*	NGC 7048	3b	21 14.2	+46 16	60 x 50	11.3	18	Cyg
215		Wein 2-245	-	21 18.1	+43 49	35	-	-	Cyg
216		Kohoutek 3-81	-	21 22.3	+38 07	10	15.4p	15.7	Cyg
217		Kohoutek 3-82		21 30.9	+50 00	24	16.0p	19.5	Cyg
218	*	IC 5117	2	21 32.5	+44 35	2 x 2	13.3	16.7	Cyg
219	*	PK 86-8.1	2	21 33.1	+39 38	5 x 5	12.7	17.3	Cyg
220		Minkowski 1-79	4	21 37.0	+48 56	39 x 27	13.3	19.1	Cyg
221		Minkowski 1-59	2	18 43.3	-09 05	5 x 5	13.3p	-	Sct
222		Minkowski 1-46	4+2	18 27.9	-15 33	11	14.6p	12.8	Sct
223		PNG 22.5+1.0	-	18 28.6	-08 43	17	18.0p	-	Sct
224		Minkowski 1-51	3	18 33.5	-11 07	10	16.7p	-	Sct
225		Minkowski 3-30	4	18 41.3	-15 34	17	14.6p	17.9	Sct
226		Wein 1-7		18 44.1	-12 13	17	-	21	Sct
227		Kohoutek 4-5		18 45.6	-06 19	20	15.7p	-	Sct
228		Minkowski 4-11	2	18 54.3	-10 05	22 x 20	13.8	18.7	Sct
229	*	IC 1295	3b+2	18 54.6	-08 50	120 x 90	13.5	15	Sct
230		Minkowski 4-9	4	18 14.3	-04 59	54	16.0p	20.3	Ser
231		PC 19	-	18 24.7	+02 29	14	12.1p	-	Ser
232		Sharpless 2-68	-	18 25.0	+00 52	7.0'	10.0v	16	Ser
233		Minkowski 2-43	1	18 26.6	-02 43	15	16.8p	1	Ser
234		Kohoutek 3-4	3b+2	18 31.0	+02 26	13 x 11	15.8	-	Ser
235		RCW 181	3b	18 54.9	+06 03	5.11	-	-	Ser
236		Kohoutek 3-34	-	19 24.0	+25 19	10	15.8p	-	Vul
237		Minkowski 4-15	6	19 33.0	+26 53	35 x 7	16.9p	-	Vul
238		Minkowski 4-16	-	19 39.7	+26 29	10	16.2	-	Vul
239		Henize 1-3	2	19 48.5	+22 09	12	16	11.6	Vul
240		Minkowski 2-48	3	19 50.5	+25 54	29 x 13	16.5p	-	Vul
241		NGC 6842	3b	19 55	+29 17	55 x 55	13.6	16	Vul
242	*	M-27 (Dumbbell Nebula)	3+2	19 59.6	+22 43	480x240	7.3	12	Vul
243		Wein 1-9	-	20 09.1	+26 27	24	-	21	Vul
244		Henize 1-6	3+2	20 17.3	+25 22	24	14.9p	-	Vul
245		Henize 1-7	-	20 19.6	+27 00	5	13.5p	-	Vul
246		Sharpless 2-80	-	19 11.5	+16 52	1.8'	8.2IR	11.1	Sge
247		PK 51+1.1	4	19 19.3	+17 12	20	-	15.1	Sge
248		PK 58-5.1	-	20 01.7	+19 55	2.5'	-	17.4	Sge
249		Kohoutek 3-51	-	20 02.6	+17 37	15	14.7p	-	Sge
250	*	NGC 6879	2a	20 10.5	+16 55	8 x 8	13	15.2	Sge
251		Henize 1-5	3+2	20 11.9	+20 20	40	16.2p	11.3	Sge
252	*	NGC 6886	2+3	20 12.7	+19 59	6 x 6	12.2	15.7	Sge
253	*	IC 4997	1	20 20.2	+16 44	2 x 2	11.4	13.7	Sge
254	*	NGC 6891	2a+2b	20 15.2	+12 42	12 x 12	11.4	11.1	Del
255	*	NGC 6905 (Blue Flash)	3+3	20 22.4	+20 07	44 x 37	10.4	14.2	Del
256		PK 31-0.2	-	18 50.4	-01 40	25	-	-	Aql
257		Kohoutek 3-17	2	18 56.3	+07 07	15	-	-	Aql
258		Minkowski 1-66	1	18 58.5	-01 04	10	13.2p	-	Aql
259	*	Sharpless 2-71	3b+3	19 02.0	+02 09	124 x 75	12.3	13.7	Aql
260		PK 43+2.1	-	19 02.3	+10 18	14	-	18.5	Aql
261	*	NGC 6741 (Phantom Streak)	4	19 02.6	-00 27	9 x 7	9.9	14.7	Aql
262		PK 36-1.2	-	19 03	+03 02	12	-	-	Aql

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Page	AL	Object	Type	RA	Dec	Size	Mag	Mag*	Con
263		Sharpless 2-78	-	19 03.2	+14 07	10.0'	-	17.7	Aql
264	*	NGC 6751	3	19 05.9	-05 59	18 x 18	12.2	13	Aql
265		PK 36-2.1	-	19 08.0	+02 21	21	-	-	Aql
266		Minkowski 4-12	4+2	19 13.1	+15 47	16 x 6	15.5	-	Aql
267		PK 29-7.1	-	19 13.9	-06 19	14	15.6p	-	Aql
268		NGC 6772	3b+2	19 14.6	-02 42	75 x 50	14.2	18.7	Aql
269	*	IC 4846	2	19 15.7	-09 00	2 x 2	12.7	15.1	Aql
270		Sanduleak 2-387	-	19 18.3	-11 06	16	13.3p	14	Aql
271	*	NGC 6778	3+3	19 18.4	-01 35	19 x 13	13.3	15	Aql
272	*	NGC 6781	3b+3	19 18.4	+06 33	106x106	10.3	16.3	Aql
273		Minkowski 4-14	4+3	19 21	+07 37	7	14.8p	-	Aql
274	*	NGC 6790	2	19 23.2	+01 31	9 x 5	10.3	10.5	Aql
275	*	Vysotsky 2-2	1	19 24.3	+09 54	14	12.7	14.6	Aql
276		PK 48-1.1	SNR	19 26.5	+13 20	40	-	-	Aql
277		PB 10	-	19 28.3	+12 20	10	14.8p	-	Aql
278	*	NGC 6803	2a	19 31.3	+10 03	5 x 5	12.4	15.2	Aql
279	*	NGC 6804	4+2	19 31.6	+09 13	63 x 50	11	13	Aql
280	*	NGC 6807	2	19 34.6	+05 41	2 x 2	13.8	19.3	Aql
281		Merrill 1-1	4	19 39.2	+15 57	2 x 2	12.6	14.1	Aql
282		Minkowski 1-73	2	19 41.1	+14 57	5 x 5	13.9p	14.5	Aql
282		Minkowski 1-74	1	19 42.3	+15 09	5 x 5	12.8p	18.1	Aql
283		PC 22	-	19 42.0	+13 51	24 x 18	14.4p	18.1	Aql
284		PK 35-0.1	-	19 58.2	+01 37	33	12.8IR	15.1	Aql
285		NGC 6852	4	20 00.6	+01 42	27 x 27	12.8p	17.9	Aql
286	*	IC 1297	-	19 17.3	-39 36	8 x 6	11.8	14.2	CrA
287		IC 5148/50 (Spare Tyre Neb.)	4	21 59.5	-39 23	120x120	12.9p	16.5	Gru
288	*	IC 5217	2	22 23.9	+50 57	8 x 6	12.6	15.5	Lac
289		Minkowski 2-53	3b	22 32.3	+56 10	14 x 14	14.8	21.2	Lac
290	*	NGC 7094	4	21 36.9	+12 47	97 x 90	13.3	13.6	Peg
291	*	Jones 1	3b	23 35.9	+30 28	314x314	15.1p	16.1	Peg
292	*	NGC 7009 (Saturn Nebula)	4+6	21 04.2	-11 22	39 x 30	8	11.9	Aqr
293	*	NGC 7293 (Helix Nebula)	4+3	22 29.6	-20 48	900x720	6.3	13.4	Aqr
294		NGC 7139	3b	21 45.9	+63 39	86 x 70	13	18	Cep
295		Minkowski 2-51	2+3	22 16.1	+57 36	13 x 12	14.1	20.4	Cep
295		Minkowski 2-52	3	22 20.5	+57 36	13 x 12	14.1	-	Cep
296		PK 111+11.1	-	22 19.5	+70 56	8.8'	-	15.1	Cep
297	*	NGC 7354	4+3b	22 40.4	+61 17	24 x 24	12.9	15	Cep
298		Minkowski 1-80	2	22 56.3	+57 09	8 x 8	14	-	Cep
299		Minkowski 2-55	3	23 31.9	+70 22	42 x 36	14.4	21.1	Cep
300	*	NGC 40 (Bowtie Nebula)	3b+3	00 13.0	+72 32	38 x 35	10.7p	10	Cep
301	*	IC 3568 (Baby Eskimo)	2+2a	12 32.9	+82 33	15 x 15	9	12.4	Cep
302	*	NGC 246	3b+3	00 47.0	-11 53	240x210	8.0p	12	Cet

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Page	AL	Object	Type	RA	Dec	Size	Mag	Mag*	Con
141		Cannon 3-1	2	18 17.6	+10 09	7 x 7	11.8	12.5	Oph
50		Haro 3-29	-	04 37.3	+25 03	20 x 20	15.3	18.6	Tau
63		Haro 3-75	-	05 40.7	+12 21	24 x 24	13.9	-	Ori
239		Henize 1-3	2	19 48.5	+22 09	12	16	11.6	Vul
194		Henize 1-4	3b	19 59.3	+31 55	22	14.1	21.1	Cyg
251		Henize 1-5	3+2	20 11.9	+20 20	40	16.2p	11.3	Sge
244		Henize 1-6	3+2	20 17.3	+25 22	24	14.9p	-	Vul
245		Henize 1-7	-	20 19.6	+27 00	5	13.5p	-	Vul
122		Henize 2-126	2	15 22.3	-23 38	6 x 6	11.6	16.7	Lib
123		Henize 2-180	1	16 43.9	-18 57	12	14.4	15.2	Oph
149		Henize 2-253	4	17 36.5	-39 22	18	14.4p	-	Sco
135		Henize 2-260	-	17 39.0	-18 18	10	11.0v	14.2	Oph
136		Henize 2-261	3	17 40	-21 14	17	15.3p	-	Oph
137		Henize 2-264	3	17 40.5	-27 01	37	-	20.3	Oph
138		Henize 2-266	3b	17 42.0	-24 43	6.2 x 6.2	13.6	17	Oph
153		Henize 2-286	2+4	17 47.9	-30 00	3 x 3	12	18.6	Sgr
151		Henize 2-289	-	17 49.8	-37 01	10	12.0p	16.8	Sco
156	*	Henize 2-305	2	17 55.1	-21 45	5 x 5	13.6	14	Sgr
175		Henize 2-418	-	18 44.3	-30 20	13	15.1	15.6	Sgr
189	*	Henize 2-438 (Campbell's Star)	4	19 34.8	+30 31	3 x 3	9.6	10.1	Cyg
173		Henize 3-1716	-	18 36.5	-19 19	-	15.1p	13.2	Sgr
27		Hubble 12	-	23 26.9	+58 11	10 x 10	14	13.8	Cas
25	*	IC 289	4	03 10.3	+61 20	45 x 30	12.3	15.5b	Cas
40	*	IC 351	2a	03 47.5	+35 03	8 x 6	12.4P	15.0p	Per
68		IC 443	SNR?	06 17.9	+22 46	27x7'	-	-	Gem
229	*	IC 1295	3b+2	18 54.6	-08 50	120 x 90	13.5	15	Sct
286	*	IC 1297	-	19 17.3	-39 36	8 x 6	11.8	14.2	CrA
20	*	IC 1747	3b+3	01 57.6	+63 20	13 x 13	13.6	15.4	Cas
41	*	IC 2003	2	03 56.4	+33 52	7 x 7	12.6P	15.4	Per
56		IC 2120	2	05 18.2	+37 36	50 x 50	12	16.2	Aur
59	*	IC 2149	3b+1	05 56.3	+46 07	12 x 6	11.2	10.5p	Aur
84	*	IC 2165	3b	06 21.8	-12 59	9 x 7	12.5p	15.1	CMa
301	*	IC 3568 (Baby Eskimo)	2+2a	12 32.9	+82 33	15 x 15	9	12.4	Cep
66	*	IC 418 (Raspberry Nebula)	4	05 27.6	-12 46	14 x 11	12	9	Lep
112		IC 4406	4+3	14 22.5	-43 41	100 x 37	10.6	17	Lup
117	*	IC 4593 (White Eyed Nebula)	2+2	16 12.3	+12 04	15 x 11	11.4	11.2	Her
124	*	IC 4634	2a+3	17 01.6	-21 40	10 x 7	12.3	17.4	Oph
145		IC 4637	3	17 05.2	-40 53	21 x 17	13.6	12.5	Sco
158		IC 4673	4	18 03.3	-27 06	16 x 16	12.9p	17.6	Sgr
170	*	IC 4732	1	18 34.0	-22 28	3 x 3	13	16.2	Sgr
177	*	IC 4776	2a	18 45.9	-33 21	8 x 6	11	14.1	Sgr
269	*	IC 4846	2	19 15.7	-09 00	2 x 2	12.7	15.1	Aql
253	*	IC 4997	1	20 20.2	+16 44	2 x 2	11.4	13.7	Sge
218	*	IC 5117	2	21 32.5	+44 35	2 x 2	13.3	16.7	Cyg
287		IC 5148/50 (Spare Tyre Neb.)	4	21 59.5	-39 23	120x120	12.9p	16.5	Gru
288	*	IC 5217	2	22 23.9	+50 57	8 x 6	12.6	15.5	Lac
103	*	IRAS 09371+1212 (Frosty Leo)	Proto	09 39.9	+11 59	12	10.5	11	Leo
62	*	Jonckheere 320	2	05 05.6	+10 42	11 x 8	12.9P	14.4	Ori
69	*	Jonckheere 900	3b+2	06 26.0	+17 47	12 x 10	12.4p	15.3	Gem

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Page	AL	Object	Type	RA	Dec	Size	Mag	Mag*	Con
291	*	Jones 1	3b	23 35.9	+30 28	314x314	15.1p	16.1	Peg
101		Kohoutek 1-2	2	08 57.8	-28 57	63 x 54	15.3	16.6	Pyx
184		Kohoutek 1-6	2	20 04.4	+74 26	2.7'	-	-	Dra
90		Kohoutek 1-10	3b	07 12.6	-16 06	90 x 54	-	21	CMa
96		Kohoutek 1-12	2	07 50.2	-19 18	38 x 36	15.9	21	Pup
119		Kohoutek 1-14	4	17 42.6	+21 27	47 x 47	15.6	16.4	Her
183		Kohoutek 1-16	3	18 21.9	+64 22	110x110	14.5p	15	Dra
30		Kohoutek 1-20	4	23 39.1	+48 13	37 x 31	16.5	20.7	And
107		Kohoutek 1-22	-	11 26.7	-34 22	188 x 174	12.6	17.4	Hya
106		Kohoutek 1-28	-	10 34.5	-29 11	54 x 54	-	16.7	Hya
115		Kohoutek 1-32		16 03.3	-36 01	60	-	19	Lup
54		Kohoutek 2-1	3	05 07.1	+30 49	132x132	13.7	18.8	Aur
77		Kohoutek 2-2	3	06 52.5	+09 58	414x414	12.5	15	Mon
89		Kohoutek 2-3	3	07 07.0	-22 02	76 x 53	14.8	21	CMa
257		Kohoutek 3-17	2	18 56.3	+07 07	15	-	-	Aql
188		Kohoutek 3-27		19 14.5	+28 41	16	14.9p	17.2	Lyr
236		Kohoutek 3-34	-	19 24.0	+25 19	10	15.8p	-	Vul
234		Kohoutek 3-4	3b+2	18 31.0	+02 26	13 x 11	15.8	-	Ser
193		Kohoutek 3-46	3b+4	19 50.0	+33 46	32 x 17	16.4	-	Cyg
249		Kohoutek 3-51	-	20 02.6	+17 37	15	14.7p	-	Sge
42		Kohoutek 3-64		04 13.5	+51 51	8	16.9p	-	Per
75		Kohoutek 3-72		06 23.9	+05 30	11	-	-	Mon
198		Kohoutek 3-74	-	20 08.7	+42 30	20	16.1p	-	Cyg
208		Kohoutek 3-79	-	20 53.2	+53 46	12	17.8p	-	Cyg
216		Kohoutek 3-81	-	21 22.3	+38 07	10	15.4p	15.7	Cyg
217		Kohoutek 3-82		21 30.9	+50 00	24	16.0p	19.5	Cyg
17		Kohoutek 3-90	-	01 25.0	+65 39	9 x 9	16.1	-	Cas
21		Kohoutek 3-91	-	01 58.6	+66 34	10 x 10	20.9p	20.5	Cas
22		Kohoutek 3-92	-	02 03.7	+64 58	12 x 12	16.7p	20.6	Cas
23		Kohoutek 3-93	-	02 26.5	+65 48	10 x 10	17.7	-	Cas
227		Kohoutek 4-5		18 45.6	-06 19	20	15.7p	-	Sct
206		Kohoutek 4-53		20 42.3	+37 40	20	16.0p	-	Cyg
207		Kohoutek 4-55	-	20 45.2	+44 39	27	-	-	Cyg
111		Longmore-Tritton 5	-	12 55.5	+25 53	528	-	14.9	Com
51		M-1		05 34.5	+22 01	360 x 240	8.4	-	Tau
242	*	M-27 (Dumbbell Nebula)	3+2	19 59.6	+22 43	480x240	7.3	12	Vul
185	*	M-57 (Ring Nebula)	4+3	18 53.6	+33 01	85 x 62	8.8	15	Lyr
34	*	M-76 (Cork Nebula)	3+4	01 42.3	+51 34	90 x 45	12.2p	16.3	Per
110	*	M-97	3a	11 14.8	+55 00	180 x 180	12	16	UMa
281		Merrill 1-1	4	19 39.2	+15 57	2 x 2	12.6	14.1	Aql
31		Minkowski 1-1		01 37.3	+50 28	6	14.1p	16.2	And
36		Minkowski 1-2	1	01 58.8	+52 54	18	14.9p	13.4	Per
38		Minkowski 1-4	-	03 41.7	+52 17	4 x 4	13.6p	16.7	Per
70	*	Minkowski 1-7	2	06 37.4	+24 01	38 x 20	13.4p	19.6	Gem
78		Minkowski 1-8	-	06 53.6	+03 08	22 x 15	14.3	21.3	Mon
79		Minkowski 1-9	1	07 05.3	+02 47	12	13.3p	15.6	Mon
92		Minkowski 1-13	-	07 21.2	-18 09	42 x 30	12.9	-	CMa
93		Minkowski 1-18	2b	07 42.1	-14 21	31 x 30	14	20.9	Pup
131		Minkowski 1-20	1	17 29.0	-19 16	7	13.4p	17.1	Oph
134		Minkowski 1-22	4	17 35.2	-18 34	9	13.3p	-	Oph
152		Minkowski 1-28	3+6	17 47.6	-22 06	15	16.8p	20.8	Sgr
222		Minkowski 1-46	4+2	18 27.9	-15 33	11	14.6p	12.8	Sct

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Page	AL	Object	Type	RA	Dec	Size	Mag	Mag*	Con
224		Minkowski 1-51	3	18 33.5	-11 07	10	16.7p	-	Sct
172		Minkowski 1-54	3	18 36.1	-17 00	13	12.5p	-	Sgr
174		Minkowski 1-56	1	18 37.8	-17 06	10	13.3p	16.2	Sgr
221		Minkowski 1-59	2	18 43.3	-09 05	5 x 5	13.3p	-	Sct
186		Minkowski 1-64	4	18 50.0	+35 15	36.2 x 36.2	12.8p		Lyr
258		Minkowski 1-66	1	18 58.5	-01 04	10	13.2p	-	Aql
282		Minkowski 1-73	2	19 41.1	+14 57	5 x 5	13.9p	14.5	Aql
282		Minkowski 1-74	1	19 42.3	+15 09	5 x 5	12.8p	18.1	Aql
197		Minkowski 1-75	3b+6	20 04.7	+31 27	42	16.0v	21	Cyg
220		Minkowski 1-79	4	21 37.0	+48 56	39 x 27	13.3	19.1	Cyg
298		Minkowski 1-80	2	22 56.3	+57 09	8 x 8	14	-	Cep
190	*	Minkowski 1-92 (Footprint)	proto	19 36.3	+29 33	- x -	-	-	Cyg
47		Minkowski 2-2	3	04 13.3	+56 57	12 x 11	14.0p	-	Cam
125	*	Minkowski 2-9 (Butterfly Nebula)	?+6	17 05.6	-10 09	39 x 15	14.6	15.6	Oph
157		Minkowski 2-25	3	18 02.7	-32 09	14	15.0p	-	Sgr
233		Minkowski 2-43	1	18 26.6	-02 43	15	16.8p	1	Ser
240		Minkowski 2-48	3	19 50.5	+25 54	29 x 13	16.5p	-	Vul
295		Minkowski 2-51	2+3	22 16.1	+57 36	13 x 12	14.1	20.4	Cep
295		Minkowski 2-52	3	22 20.5	+57 36	13 x 12	14.1	-	Cep
289		Minkowski 2-53	3b	22 32.3	+56 10	14 x 14	14.8	21.2	Lac
299		Minkowski 2-55	3	23 31.9	+70 22	42 x 36	14.4	21.1	Cep
88		Minkowski 3-1	? + 4	07 02.8	-31 36	14 x 9	12	15.5	CMa
91		Minkowski 3-2	3b	07 14.8	-27 50	12 x 7	15.7	21.1	CMa
83		Minkowski 3-3	4	07 26.6	-05 22	15 x 10	14.3	-	Mon
97		Minkowski 3-4	4	07 55.2	-23 38	14 x 14	14	15.7	Pup
100	*	Minkowski 3-6	2a	08 40.7	-32 22	8.2 x 8.2	10.7p	13.9	Pyx
130		Minkowski 3-9	3	17 25.7	-26 12	18 x 16	15.6	18.8	Oph
160		Minkowski 3-23	2	18 07.1	-30 34	11	13.8p	-	Sgr
225		Minkowski 3-30	4	18 41.3	-15 34	17	14.6p	17.9	Sct
129		Minkowski 3-39	3+2	17 21.2	-27 11	21 x 15	15.3	-	Oph
230		Minkowski 4-9	4	18 14.3	-04 59	54	16.0p	20.3	Ser
228		Minkowski 4-11	2	18 54.3	-10 05	22 x 20	13.8	18.7	Sct
266		Minkowski 4-12	4+2	19 13.1	+15 47	16 x 6	15.5	-	Aql
273		Minkowski 4-14	4+3	19 21	+07 37	7	14.8p	-	Aql
237		Minkowski 4-15	6	19 33.0	+26 53	35 x 7	16.9p	-	Vul
238		Minkowski 4-16	-	19 39.7	+26 29	10	16.2	-	Vul
199		Minkowski 4-17	4+2	20 09.0	+43 44	23 x 21	14.6	-	Cyg
300	*	NGC 40 (Bowtie Nebula)	3b+3	00 13.0	+72 32	38 x 35	10.7p	10	Cep
302	*	NGC 246	3b+3	00 47.0	-11 53	240x210	8.0p	12	Cet
33	*	NGC 1360	3	03 33.4	-25 51	460x320	70	11.4	For
46	*	NGC 1501	3	04 07.0	+60 55	56 x 48	11.3	14.2	Cam
49	*	NGC 1514 (Crystal Ball)	3+2	04 09.2	+30 47	120 x 90	10.8	9.4	Tau
45	*	NGC 1535	4+6	04 14.3	-12 45	20 x 17	10.8	11.6	Eri
64	*	NGC 2022	4+2	05 42.2	09 05	28 x 27	12.3P	14.9	Ori
60		NGC 2242	-	06 34.1	+44 47	22 x 22	15.2	17.6	Aur
81	*	NGC 2346	3b+4	07 09.4	-00 48	60 x 50	12.5	11.4v	Mon
72	*	NGC 2371/2 (Double Bubble)	3a+2	07 25.5	+29 29	54 x 35	10.8	14.8	Gem
73	*	NGC 2392 (Eskimo Nebula)	3b	07 29.1	+20 55	47 x 43	9.7	10.4	Gem
93	*	NGC 2438 (in M-46)	4	07 41.9	-14 44	68 x 68	11	17.7	Pup
94	*	NGC 2440	5+3	07 41.9	-18 12	54 x 20	11.4	14	Pup
95	*	NGC 2452	4+3	07 47.4	-27 30	22 x 16	12.6p	19.0p	Pup

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Page	AL	Object	Type	RA	Dec	Size	Mag	Mag*	Con
104	*	NGC 2610	4+2	08 33.4	-16 09	38 x 31	13.6	15.5	Hya
102	*	NGC 2818	3b	09 16.0	-36 37	40 x 40	13	17.5	Pyx
108	*	NGC 3132 (Eight-burst)	4+2	10 07.0	-40 26	30 x 30	8.2	8.8	Vel
105	*	NGC 3242 (Ghost of Jupiter)	4+3b	10 24.8	-18 38	40 x 35	8.8	11.7	Hya
109	*	NGC 4361	3a+2	12 24.5	-18 48	81 x 81	10.3	13	Crv
113	*	NGC 5873	2	15 12.9	-38 06	3 x 3	13.3	15.5	Lup
114	*	NGC 6026	4	16 01.3	-34 33	54 x 36	13.2p	13.2	Lup
116	*	NGC 6058	3+2	16 04.4	+40 41	25 x 20	13.3	13.7	Her
142	*	NGC 6072	3a	16 13.0	-36 14	50 x 30	14.1	17.5	Sco
143	*	NGC 6153	4	16 31.4	-40 14	25 x 25	11.5	16.1	Sco
118	*	NGC 6210 (Turtle Nebula)	2+3b	16 44.5	+23 48	20 x 13	9.7	12.3	Her
146	*	NGC 6302 (Bug Nebula)	6	17 13.7	-37 06	83 x 24	9.7	21.1	Sco
127	*	NGC 6309 (Box Nebula)	3b+6	17 14.1	-12 54	21 x 12	11.7	14.4	Oph
147	*	NGC 6337 (Cheerio Nebula)	4	17 22.2	-38 29	40 x 40	11.9p	16	Sco
132	*	NGC 6369 (Little Ghost)	4+2	17 29.3	-23 45	28 x 28	10.4	16	Oph
154		NGC 6439	2a	17 48.3	-16 29	5 x 5	13.8	18	Sgr
155	*	NGC 6445 (Crescent Nebula)	3b+3	17 49.3	-20 01	38 x 29	9.5	19.1	Sgr
159	*	NGC 6537 (Red Spider Nebula)	2a+6	18 05.3	-19 5	5 x 5	12.5	18.8	Sgr
182	*	NGC 6543 (Cat's Eye Nebula)	3a+2	17 58.6	+66 38	23 x 18	8.3	10.9	Dra
163	*	NGC 6563	3a	18 12.0	-33 52	50 x 37	12	18	Sgr
162	*	NGC 6565	4	18 11.9	-28 10	10 x 8	13.2	18.5	Sgr
164	*	NGC 6567	2a+3	18 13.8	-19 04	11 x 7	11.7	15	Sgr
140	*	NGC 6572 (Emerald Nebula)	2a	18 12.1	+06 51	14 x 9	9	13.1	Oph
165	*	NGC 6578	2a	18 16.3	-20 27	8 x 8	13.1	15.8	Sgr
166	*	NGC 6620	2b	18 22.9	-26 50	5 x 5	15	19.6	Sgr
167	*	NGC 6629	2a	18 25.7	-23 12	16 x 14	10.8	13	Sgr
169	*	NGC 6644	2	18 32.6	-25 08	3 x 3	12.2	15.6	Sgr
261	*	NGC 6741 (Phantom Streak)	4	19 02.6	-00 27	9 x 7	9.9	14.7	Aql
264	*	NGC 6751	3	19 05.9	-05 59	18 x 18	12.2	13	Aql
187	*	NGC 6765	5	19 11.1	+30 33	38 x 38	13.1	16	Lyr
268		NGC 6772	3b+2	19 14.6	-02 42	75 x 50	14.2	18.7	Aql
271	*	NGC 6778	3+3	19 18.4	-01 35	19 x 13	13.3	15	Aql
272	*	NGC 6781	3b+3	19 18.4	+06 33	106x106	10.3	16.3	Aql
274	*	NGC 6790	2	19 23.2	+01 31	9 x 5	10.3	10.5	Aql
278	*	NGC 6803	2a	19 31.3	+10 03	5 x 5	12.4	15.2	Aql
279	*	NGC 6804	4+2	19 31.6	+09 13	63 x 50	11	13	Aql
280	*	NGC 6807	2	19 34.6	+05 41	2 x 2	13.8	19.3	Aql
181	*	NGC 6818 (Little Gem)	4	19 43.9	-14 09	22 x 15	10	12	Sgr
191	*	NGC 6826 (Blinking Planetary)	3a+2	19 44.9	+50 31	27 x 24	8.7	10.6	Cyg
192	*	NGC 6833	2	19 49.7	+48 58	2 x 2	12	20.3	Cyg
241		NGC 6842	3b	19 55	+29 17	55 x 55	13.6	16	Vul
285		NGC 6852	4	20 00.6	+01 42	27 x 27	12.8p	17.9	Aql
195		NGC 6857	3+3	20 01.8	+33 31	40 x 40	11.4	13.3	Cyg
250	*	NGC 6879	2a	20 10.5	+16 55	8 x 8	13	15.2	Sge
203	*	NGC 6881	2a+3	20 10.8	+37 25	5 x 5	14.3	18.3	Cyg
202	*	NGC 6884	2b	20 10.4	+46 28	6 x 6	12.6	18.6	Cyg
252	*	NGC 6886	2+3	20 12.7	+19 59	6 x 6	12.2	15.7	Sge
254	*	NGC 6891	2a+2b	20 15.2	+12 42	12 x 12	11.4	11.1	Del
204	*	NGC 6894	4+2	20 16.4	+30 34	55 x 55	11.5	17.5	Cyg
255	*	NGC 6905 (Blue Flash)	3+3	20 22.4	+20 07	44 x 37	10.4	14.2	Del

Sorted by Object

Page	AL	Object	Type	RA	Dec	Size	Mag	Mag*	Con
209	*	NGC 7008 (Fetus Nebula)	3	21 00.6	+54 33	86 x 69	13.3	13.3	Cyg
292	*	NGC 7009 (Saturn Nebula)	4+6	21 04.2	-11 22	39 x 30	8	11.9	Aqr
211	*	NGC 7026 (Cheeseburger Neb.)	3a	21 06.3	+47 51	28 x 13	11.8	14.2	Cyg
212	*	NGC 7027 (Magic Carpet Neb.)	3a	21 07.1	+42 14	18 x 11	10.4	11.3	Cyg
214	*	NGC 7048	3b	21 14.2	+46 16	60 x 50	11.3	18	Cyg
290	*	NGC 7094	4	21 36.9	+12 47	97 x 90	13.3	13.6	Peg
294		NGC 7139	3b	21 45.9	+63 39	86 x 70	13	18	Cep
293	*	NGC 7293 (Helix Nebula)	4+3	22 29.6	-20 48	900x720	6.3	13.4	Aqr
297	*	NGC 7354	4+3b	22 40.4	+61 17	24 x 24	12.9	15	Cep
29	*	NGC 7662 (Blue Snowball)	4+3	23 25.9	+42 33	17 x 14	8.6	12.7	And
277		PB 10	-	19 28.3	+12 20	10	14.8p	-	Aql
231		PC 19	-	18 24.7	+02 29	14	12.1p	-	Ser
283		PC 22	-	19 42.0	+13 51	24 x 18	14.4p	18.1	Aql
139		PK 028+10.1	-	18 06.0	+00 22	36	16.8p	16.8	Oph
267		PK 029-7.1	-	19 13.9	-06 19	14	15.6p	-	Aql
256		PK 31-0.2	-	18 50.4	-01 40	25	-	-	Aql
284		PK 35-0.1	-	19 58.2	+01 37	33	12.8IR	15.1	Aql
262		PK 36-1.2	-	19 03	+03 02	12	-	-	Aql
265		PK 36-2.1	-	19 08.0	+02 21	21	-	-	Aql
260		PK 43+2.1	-	19 02.3	+10 18	14	-	18.5	Aql
276		PK 48-1.1	SNR	19 26.5	+13 20	40	-	-	Aql
247		PK 51+1.1	4	19 19.3	+17 12	20	-	15.1	Sge
121		PK 051+9.1	-	18 49.8	+20 50	3 x 3	11.6	13.3	Her
248		PK 58-5.1	-	20 01.7	+19 55	2.5'	-	17.4	Sge
196		PK 75+4.1	3b	20 04.3	+39 36	28	16	-	Cyg
210	*	PK 80-6.1 (Egg Nebula)	proto	21 02.3	+36 42	16 x 16	13.5	-	Cyg
219	*	PK 86-8.1	2	21 33.1	+39 38	5 x 5	12.7	17.3	Cyg
213	*	PK 089-0.1	3a	21 14.1	+47 44	44 x 29	14.5	19.7	Cyg
67		PK 11+17.1		05 55.1	-22 54	2.2'			Lep
296		PK 111+11.1	-	22 19.5	+70 56	8.8'	-	15.1	Cep
9		PK 118+2.1		00 07.3	+64 57	126	-	-	Cas
11		PK 119+0.1	-	00 20.0	+62 59	15 x 15	15.7	22.3	Cas
12		PK 119-6.1	3b+3	00 28.2	+55 57	5 x 5	13.3p	16.5	Cas
15		PK 121+00.1	-	00 40.4	+62 51	40 x 40	15.4p	-	Cas
16		PK 124+10.1	5	01 07.1	+73 33	270x270	-	16.4	Cas
32		PK 125-47.1		00 59.9	+15 44	276	-	-	Psc
35		PK 131-05.1	-	01 53.0	+56 24	24 x 24	14.9p	18	Per
168		PK 013-2.1	-	18 26.0	-18 13	18'	15.2	-	Sgr
24		PK 136+5.1		03 03.8	+64 53	498	-	-	Cas
26		PK 138+4.1		03 11.1	+62 48	342	-	-	Cas
37		PK 149-9.1		03 27.3	+45 24	540	-	17	Per
39		PK 156-13.1		03 45.4	+37 49	34	-	17.7	Per
61	*	PK 164+31.1	4	07 57.8	+53 25	450x400	14.0p	16	Lyn
48		PK 171-25.1	4	03 53.5	+19 28	38 x 38	13.9p	17.2	Tau
52		PK 181+0.1	-	05 52.8	+28 06	65 x 65	15.9	21.1	Tau
71		PK 192+7.1		06 40.1	+21 25	76	-	19	Gem
80		PK 217+2.1	-	07 06.8	-03 05	12 x 5	14.2	-	Mon
74		PK 218-10.1	-	06 23.6	-10 13	94 x 94	15.4	16.2	Mon
86		PK 239-12.1	-	06 55.2	-29 07	30 x 30	15.1	19	CMA

Sorted by Object

Page	AL	Object	Type	RA	Dec	Size	Mag	Mag*	Con
161	*	PK 359-06.2 Gomez Hamburger	-	18 09.2	-32 10	5.5 x 3.5	14.4v	-	Sgr
201		PN G075.5+1.7		20 15.3	+38 02.7	240	-	-	Cyg
180		Pne Candidate Jul 27, 2009		19 37.7	-13 51.3	34	-	-	Sgr
223		PNG 22.5+1.0	-	18 28.6	-08 43	17	18.0p	-	Sct
85		PNG 233.0-10.1	4	06 50.7	-22 26	55 x 55	16.3	-	CMA
235		RCW 181	3b	18 54.9	+06 03	5.11	-	-	Ser
99		Saduleak 2-28		08 36.6	-35 15	20	-	-	Pyx
87		Sanduleak 2-2		07 02.8	-13 43	10	13.3p	16.2	CMA
98		Sanduleak 2-21	-	08 08.7	-19 14	40 x 40	13.7	-	Pup
126		Sanduleak 2-172	-	17 05.7	-25 25	10	14.9	17.8	Oph
176		Sanduleak 2-364	?+3	18 45.6	-20 35	13	13.9p	18.4	Sgr
178		Sanduleak 2-375	2	18 55.3	-32 16	4 x 4	10.9	13.9	Sgr
179		Sanduleak 2-381	2	19 05.3	-33 09	5 x 5	13.4	-	Sgr
270		Sanduleak 2-387	-	19 18.3	-11 06	16	13.3p	14	Aql
128		Sanduleak 3-42	-	17 17.3	-28 59	17	16.4p	-	Oph
148		Sanduleak 3-62	-	17 32.3	-39 51	20	15.8p	-	Sco
232		Sharpless 2-68	-	18 25.0	+00 52	7.0'	10.0v	16	Ser
259	*	Sharpless 2-71	3b+3	19 02.0	+02 09	124 x 75	12.3	13.7	Aql
263		Sharpless 2-78	-	19 03.2	+14 07	10.0'	-	17.7	Aql
246		Sharpless 2-80	-	19 11.5	+16 52	1.8'	8.2IR	11.1	Sge
13		Sharpless 2-176		00 31.9	+57 23	720	-	-	Cas
18		Sharpless 2-188		01 30.5	+58 23	540	-	-	Cas
43	*	Sharpless 2-216	3	04 45.5	+46 49	100'	-	-	Per
53		Sharpless 2-221	SNR?	04 54.8	+46 41	25.3x9.2'	-	-	Aur
55		Sharpless 2-223	SNR?	05 16.6	+42 04	60.0x7.0'	-	-	Aur
57		Sharpless 2-224	SNR?	05 26.9	+42 58	30.5x17.5'	-	-	Aur
10		Vyssotsky 1-1		00 18.7	+53 52	5	12.6p	14.1	Cas
275	*	Vyssotsky 2-2	1	19 24.3	+09 54	14	12.7	14.6	Aql
28		Vyssotsky 2-3		23 23.0	+46 54	4	13.9p	14.7	And
14		Wein 1-1	-	00 38.9	+66 24	19 x 19	21.9	21	Cas
44		Wein 1-2		04 46.6	+44 28	92	-	20.8	Per
65		Wein 1-4		06 14.5	+07 34	40	-	21.1	Ori
76		Wein 1-5	-	06 41.6	-05 03	15 x 15	17.9	19.1	Mon
82		Wein 1-6		07 17.4	-10 11	62	-	16.8	Mon
226		Wein 1-7		18 44.1	-12 13	17	-	21	Sct
243		Wein 1-9	-	20 09.1	+26 27	24	-	21	Vul
205		Wein 1-10	-	20 31.9	+48 53	3.2'	15.1v	18.1	Cyg
19		Wein 2-5		01 42.7	+60 10	198	-	-	Cas
58		Wein 2-21	-	05 31.6	+28 59	10 x 10	16.1	-	Aur
215		Wein 2-245	-	21 18.1	+43 49	35	-	-	Cyg
120		Wein 3-1		18 34.0	14 49	2.3'	-	-	Her
200		WR 134		20 09.4	+36 08	100'	-	-	Cyg
171		Wray 15-1876	-	18 34.9	-27 07	13	15.2p	18	Sgr
133		Wray 16-282	3	17 31.7	-28 42	37	14.9p	-	Oph
144		Wray 17-76	-	16 44.8	-28 04	23	11.0 IR	12.7	Sco
150		Wray 17-98	3+2	17 46.0	-31 04	13	-	-	Sco

Astronomical League Requirements

Page	AL	Object	Type	RA	Dec	Size (")	Mag	Mag*	Con
300	*	NGC 40 (Bowtie Nebula)	3b+3	00 13.0	+72 32	38 x 35	10.7p	10	Cep
302	*	NGC 246	3b+3	00 47.0	-11 53	240x210	8.0p	12	Cet
34	*	M-76 (Cork Nebula)	3+4	01 42.3	+51 34	90 x 45	12.2p	16.3	Per
20	*	IC 1747	3b+3	01 57.6	+63 20	13 x 13	13.6	15.4	Cas
25	*	IC 289	4	03 10.3	+61 20	45 x 30	12.3	15.5b	Cas
33	*	NGC 1360	3	03 33.4	-25 51	460x320	70	11.4	For
40	*	IC 351	2a	03 47.5	+35 03	8 x 6	12.4P	15.0p	Per
41	*	IC 2003	2	03 56.4	+33 52	7 x 7	12.6P	15.4	Per
46	*	NGC 1501	3	04 07.0	+60 55	56 x 48	11.3	14.2	Cam
49	*	NGC 1514 (Crystal Ball)	3+2	04 09.2	+30 47	120 x 90	10.8	9.4	Tau
45	*	NGC 1535	4+6	04 14.3	-12 45	20 x 17	10.8	11.6	Eri
43	*	Sharpless 2-216	3	04 45.5	+46 49	100'	-	-	Per
62	*	Jonckheere 320	2	05 05.6	+10 42	11 x 8	12.9P	14.4	Ori
66	*	IC 418 (Raspberry Nebula)	4	05 27.6	-12 46	14 x 11	12	9	Lep
64	*	NGC 2022	4+2	05 42.2	09 05	28 x 27	12.3P	14.9	Ori
59	*	IC 2149	3b+1	05 56.3	+46 07	12 x 6	11.2	10.5p	Aur
84	*	IC 2165	3b	06 21.8	-12 59	9 x 7	12.5p	15.1	CMa
69	*	Jonckheere 900	3b+2	06 26.0	+17 47	12 x 10	12.4p	15.3	Gem
70	*	Minkowski 1-7	2	06 37.4	+24 01	38 x 20	13.4p	19.6	Gem
81	*	NGC 2346	3b+4	07 09.4	-00 48	60 x 50	12.5	11.4v	Mon
72	*	NGC 2371/2 (Double Bubble)	3a+2	07 25.5	+29 29	54 x 35	10.8	14.8	Gem
73	*	NGC 2392 (Eskimo Nebula)	3b	07 29.1	+20 55	47 x 43	9.7	10.4	Gem
93	*	NGC 2438 (in M-46)	4	07 41.9	-14 44	68 x 68	11	17.7	Pup
94	*	NGC 2440	5+3	07 41.9	-18 12	54 x 20	11.4	14	Pup
95	*	NGC 2452	4+3	07 47.4	-27 30	22 x 16	12.6p	19.0p	Pup
61	*	PK 164+31.1 (JnEr 1)	4	07 57.8	+53 25	450x400	14.0p	16	Lyn
104	*	NGC 2610	4+2	08 33.4	-16 09	38 x 31	13.6	15.5	Hya
100	*	Minkowski 3-6	2a	08 40.7	-32 22	8.2 x 8.2	10.7p	13.9	Pyx
102	*	NGC 2818	3b	09 16.0	-36 37	40 x 40	13	17.5	Pyx
103	*	IRAS 09371+1212 (Frosty Leo)	Proto	09 39.9	+11 59	12	10.5	11	Leo
108	*	NGC 3132 (Eight-burst)	4+2	10 07.0	-40 26	30 x 30	8.2	8.8	Vel
105	*	NGC 3242 (Ghost of Jupiter)	4+3b	10 24.8	-18 38	40 x 35	8.8	11.7	Hya
110	*	M-97	3a	11 14.8	+55 00	180 x 180	12	16	UMa
109	*	NGC 4361	3a+2	12 24.5	-18 48	81 x 81	10.3	13	Crv
301	*	IC 3568 (Baby Eskimo)	2+2a	12 32.9	+82 33	15 x 15	9	12.4	Cep
113	*	NGC 5873	2	15 12.9	-38 06	3 x 3	13.3	15.5	Lup
114	*	NGC 6026	4	16 01.3	-34 33	54 x 36	13.2p	13.2	Lup
116	*	NGC 6058	3+2	16 04.4	+40 41	25 x 20	13.3	13.7	Her
117	*	IC 4593 (White Eyed Nebula)	2+2	16 12.3	+12 04	15 x 11	11.4	11.2	Her
142	*	NGC 6072	3a	16 13.0	-36 14	50 x 30	14.1	17.5	Sco
143	*	NGC 6153	4	16 31.4	-40 14	25 x 25	11.5	16.1	Sco
118	*	NGC 6210 (Turtle Nebula)	2+3b	16 44.5	+23 48	20 x 13	9.7	12.3	Her
124	*	IC 4634	2a+3	17 01.6	-21 40	10 x 7	12.3	17.4	Oph
125	*	Minkowski 2-9 (Butterfly Nebula)	?+6	17 05.6	-10 09	39 x 15	14.6	15.6	Oph
146	*	NGC 6302 (Bug Nebula)	6	17 13.7	-37 06	83 x 24	9.7	21.1	Sco
127	*	NGC 6309 (Box Nebula)	3b+6	17 14.1	-12 54	21 x 12	11.7	14.4	Oph
147	*	NGC 6337 (Cheerio Nebula)	4	17 22.2	-38 29	40 x 40	11.9p	16	Sco
132	*	NGC 6369 (Little Ghost)	4+2	17 29.3	-23 45	28 x 28	10.4	16	Oph
155	*	NGC 6445 (Crescent Nebula)	3b+3	17 49.3	-20 01	38 x 29	9.5	19.1	Sgr
156	*	Henize 2-305 (IC 4670)	2	17 55.1	-21 45	5 x 5	13.6	14	Sgr

Astronomical League Requirements

Page	AL	Object	Type	RA	Dec	Size (")	Mag	Mag*	Con
182	*	NGC 6543 (Cat's Eye Nebula)	3a+2	17 58.6	+66 38	23 x 18	8.3	10.9	Dra
159	*	NGC 6537 (Red Spider Nebula)	2a+6	18 05.3	-19 5	5 x 5	12.5	18.8	Sgr
161	*	PK 359-06.2 Gomez Hamburger	proto	18 09.2	-32 10	5.5 x 3.5	14.4v	-	Sgr
162	*	NGC 6565	4	18 11.9	-28 10	10 x 8	13.2	18.5	Sgr
163	*	NGC 6563	3a	18 12.0	-33 52	50 x 37	12	18	Sgr
140	*	NGC 6572 (Emerald Nebula)	2a	18 12.1	+06 51	14 x 9	9	13.1	Oph
164	*	NGC 6567	2a+3	18 13.8	-19 04	11 x 7	11.7	15	Sgr
165	*	NGC 6578	2a	18 16.3	-20 27	8 x 8	13.1	15.8	Sgr
166	*	NGC 6620	2b	18 22.9	-26 50	5 x 5	15	19.6	Sgr
167	*	NGC 6629	2a	18 25.7	-23 12	16 x 14	10.8	13	Sgr
169	*	NGC 6644	2	18 32.6	-25 08	3 x 3	12.2	15.6	Sgr
170	*	IC 4732	1	18 34.0	-22 28	3 x 3	13	16.2	Sgr
177	*	IC 4776	2a	18 45.9	-33 21	8 x 6	11	14.1	Sgr
185	*	M-57 (Ring Nebula)	4+3	18 53.6	+33 01	85 x 62	8.8	15	Lyr
229	*	IC 1295	3b+2	18 54.6	-08 50	120 x 90	13.5	15	Sct
259	*	Sharpless 2-71	3b+3	19 02.0	+02 09	124 x 75	12.3	13.7	Aql
261	*	NGC 6741 (Phantom Streak)	4	19 02.6	-00 27	9 x 7	9.9	14.7	Aql
264	*	NGC 6751	3	19 05.9	-05 59	18 x 18	12.2	13	Aql
187	*	NGC 6765	5	19 11.1	+30 33	38 x 38	13.1	16	Lyr
269	*	IC 4846	2	19 15.7	-09 00	2 x 2	12.7	15.1	Aql
286	*	IC 1297	-	19 17.3	-39 36	8 x 6	11.8	14.2	CrA
271	*	NGC 6778	3+3	19 18.4	-01 35	19 x 13	13.3	15	Aql
272	*	NGC 6781	3b+3	19 18.4	+06 33	106x106	10.3	16.3	Aql
274	*	NGC 6790	2	19 23.2	+01 31	9 x 5	10.3	10.5	Aql
275	*	Vysotsky 2-2	1	19 24.3	+09 54	14	12.7	14.6	Aql
278	*	NGC 6803	2a	19 31.3	+10 03	5 x 5	12.4	15.2	Aql
279	*	NGC 6804	4+2	19 31.6	+09 13	63 x 50	11	13	Aql
280	*	NGC 6807	2	19 34.6	+05 41	2 x 2	13.8	19.3	Aql
189	*	Henize 2-438 (Campbell's Star)	4	19 34.8	+30 31	3 x 3	9.6	10.1	Cyg
190	*	Minkowski 1-92 (Footprint)	proto	19 36.3	+29 33	- x -	-	-	Cyg
181	*	NGC 6818 (Little Gem)	4	19 43.9	-14 09	22 x 15	10	12	Sgr
191	*	NGC 6826 (Blinking Planetary)	3a+2	19 44.9	+50 31	27 x 24	8.7	10.6	Cyg
192	*	NGC 6833	2	19 49.7	+48 58	2 x 2	12	20.3	Cyg
242	*	M-27 (Dumbbell Nebula)	3+2	19 59.6	+22 43	480x240	7.3	12	Vul
202	*	NGC 6884	2b	20 10.4	+46 28	6 x 6	12.6	18.6	Cyg
250	*	NGC 6879	2a	20 10.5	+16 55	8 x 8	13	15.2	Sge
203	*	NGC 6881	2a+3	20 10.8	+37 25	5 x 5	14.3	18.3	Cyg
252	*	NGC 6886	2+3	20 12.7	+19 59	6 x 6	12.2	15.7	Sge
254	*	NGC 6891	2a+2b	20 15.2	+12 42	12 x 12	11.4	11.1	Del
204	*	NGC 6894	4+2	20 16.4	+30 34	55 x 55	11.5	17.5	Cyg
253	*	IC 4997	1	20 20.2	+16 44	2 x 2	11.4	13.7	Sge
255	*	NGC 6905 (Blue Flash)	3+3	20 22.4	+20 07	44 x 37	10.4	14.2	Del
209	*	NGC 7008 (Fetus Nebula)	3	21 00.6	+54 33	86 x 69	13.3	13.3	Cyg
210	*	PK 80-6.1 (Egg Nebula)	proto	21 02.3	+36 42	16 x 16	13.5	-	Cyg
292	*	NGC 7009 (Saturn Nebula)	4+6	21 04.2	-11 22	39 x 30	8	11.9	Aqr
211	*	NGC 7026 (Cheeseburger Neb.)	3a	21 06.3	+47 51	28 x 13	11.8	14.2	Cyg
212	*	NGC 7027 (Magic Carpet Neb.)	3a	21 07.1	+42 14	18 x 11	10.4	11.3	Cyg

Astronomical League Requirements

Page	AL	Object	Type	RA	Dec	Size (")	Mag	Mag*	Con
213	*	PK 089-0.1 (Sh 1-89)	3a	21 14.1	+47 44	44 x 29	14.5	19.7	Cyg
214	*	NGC 7048	3b	21 14.2	+46 16	60 x 50	11.3	18	Cyg
218	*	IC 5117	2	21 32.5	+44 35	2 x 2	13.3	16.7	Cyg
219	*	PK 86-8.1 (Hu 1-2)	2	21 33.1	+39 38	5 x 5	12.7	17.3	Cyg
290	*	NGC 7094	4	21 36.9	+12 47	97 x 90	13.3	13.6	Peg
288	*	IC 5217	2	22 23.9	+50 57	8 x 6	12.6	15.5	Lac
293	*	NGC 7293 (Helix Nebula)	4+3	22 29.6	-20 48	900x720	6.3	13.4	Aqr
297	*	NGC 7354	4+3b	22 40.4	+61 17	24 x 24	12.9	15	Cep
29	*	NGC 7662 (Blue Snowball)	4+3	23 25.9	+42 33	17 x 14	8.6	12.7	And
291	*	Jones 1	3b	23 35.9	+30 28	314x314	15.1p	16.1	Peg

Recommended reading

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- Coe, Steven R. 2000. *Deep Sky Observing. The Astronomical Tourist*. Springer Publishing Company, N.Y.
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Recommended Internet Sites

www.blackskies.org – Doug Snyder's Planetary Observers site

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

Revision History

Revision Date	Changes
Aug 30, 2009	- Identified requirements for Astronomical League Planetary Nebulae list (AL on the indices and a separate list by itself) - Added Longmore-Tritton 5 - Added Sharpless 2-216 (closest PNe to earth) - Added IRAS 09371+1212 (Frosty Leo) - Added Vyssotsky 2-2 - Added WR 134 – large PNe posted by Reiner on Cloudy Nights - Added PN G075.5+1.7 – new bubble PNe in Cygnus - Added new PNe candidate posted by Matthias on AmAstro 07/27/09