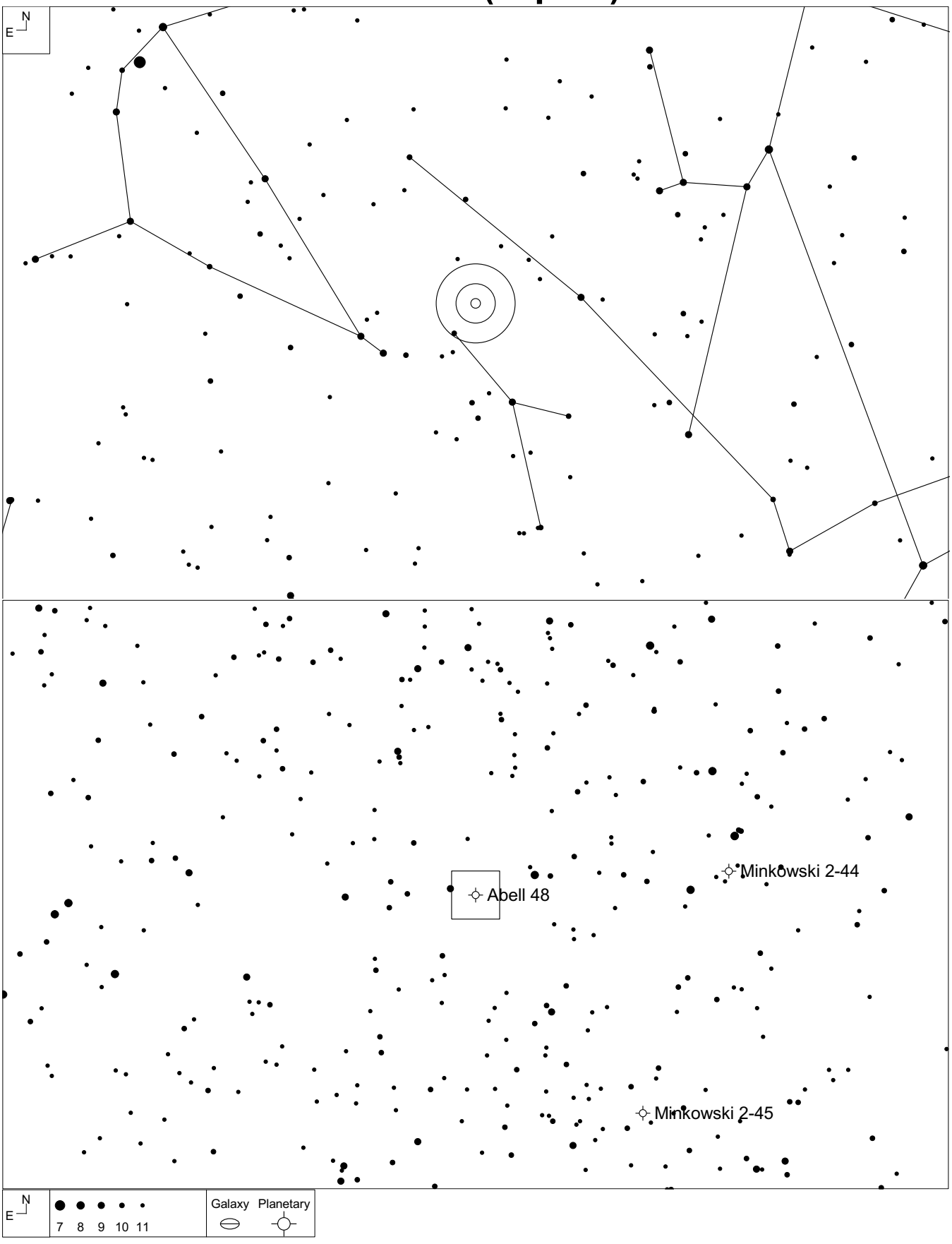
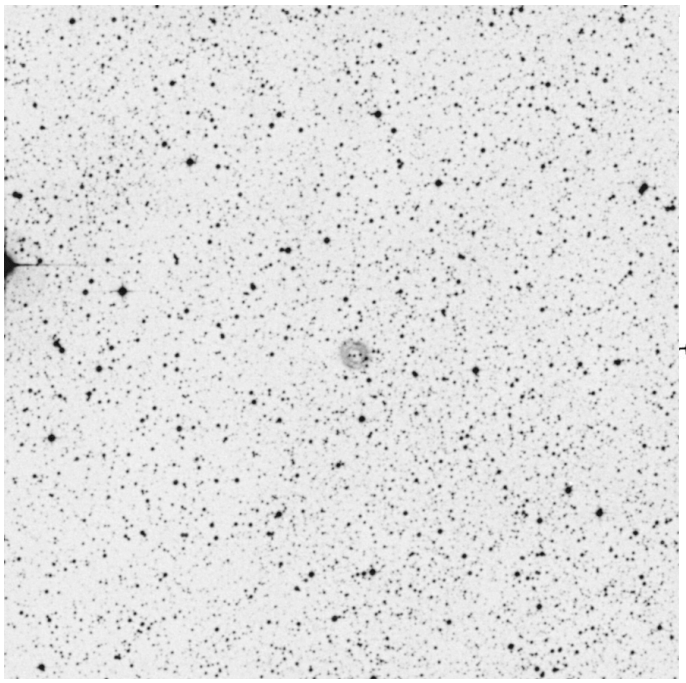
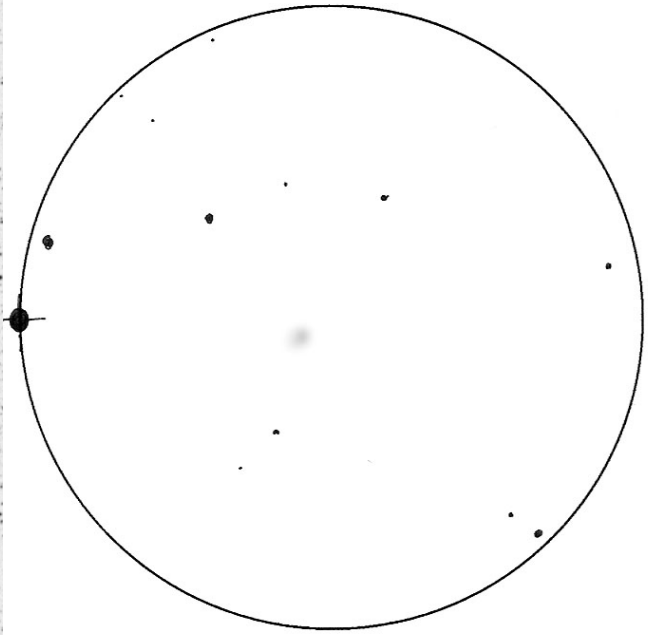
# Abell 48 (Aquila)



# Abell 48 (Aquila)



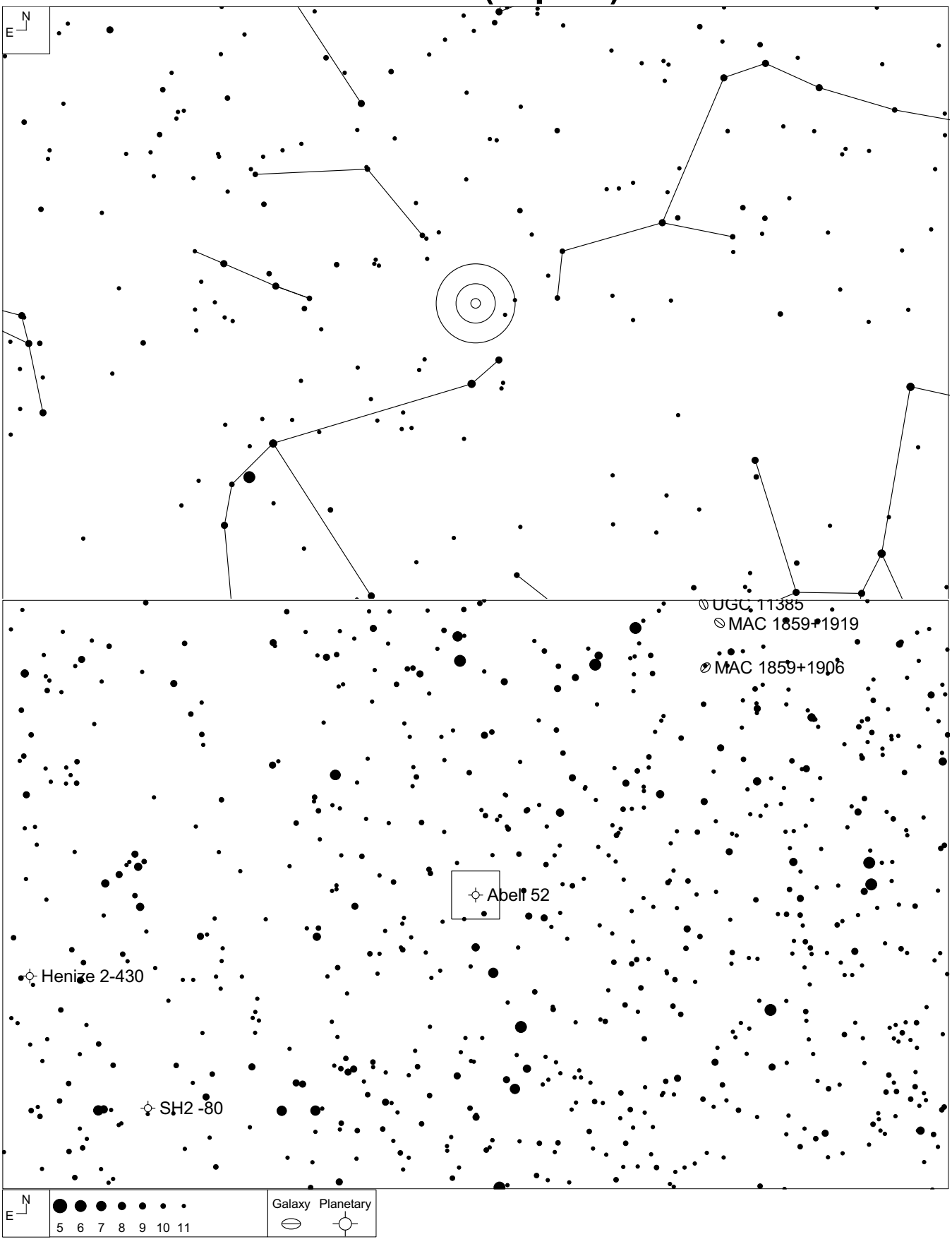


Equipment: 22” f/4.0
Magnification: 293x with O-III filter
Field: 16.8’
NELM: 6.5
Transparency: 7/10

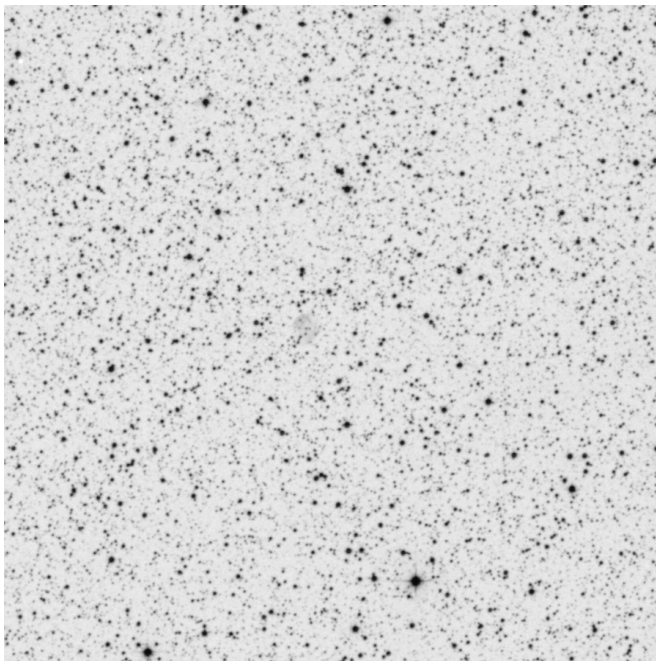
**22” f/4.0 (203, 293 and 377x)** – This Abell is an extremely faint round disk. Averted vision picks this up only 50% of the time with the O-III filter, while it is totally invisible without the O-III filter. Estimated size is about 30” in diameter. Central star is not spotted. An 8.5 magnitude star lies about 8’ east.

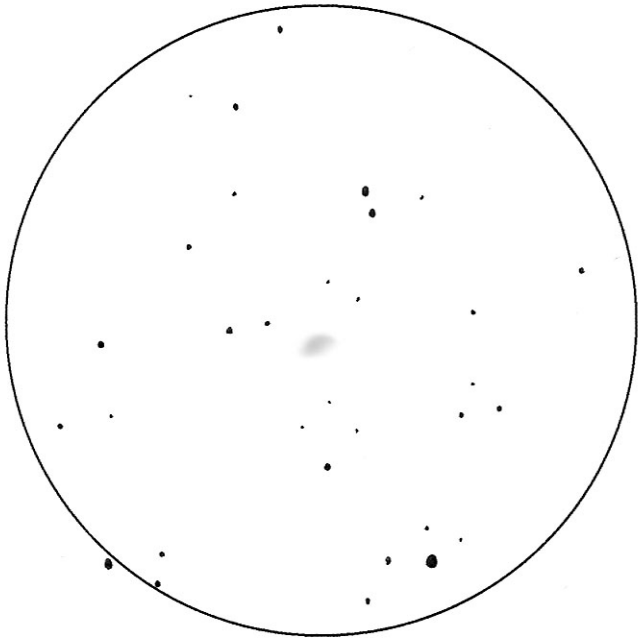
| Other ID | Type | RA | Dec | Mag | * Mag | Size |
|---|---|---|---|---|---|---|
| PK 29+0.1 | 4 | 18h 42.8m | -03º 13’ | > 18p | - | 43 x 37” |

# Abell 52 (Aquila)



# Abell 52 (Aquila)



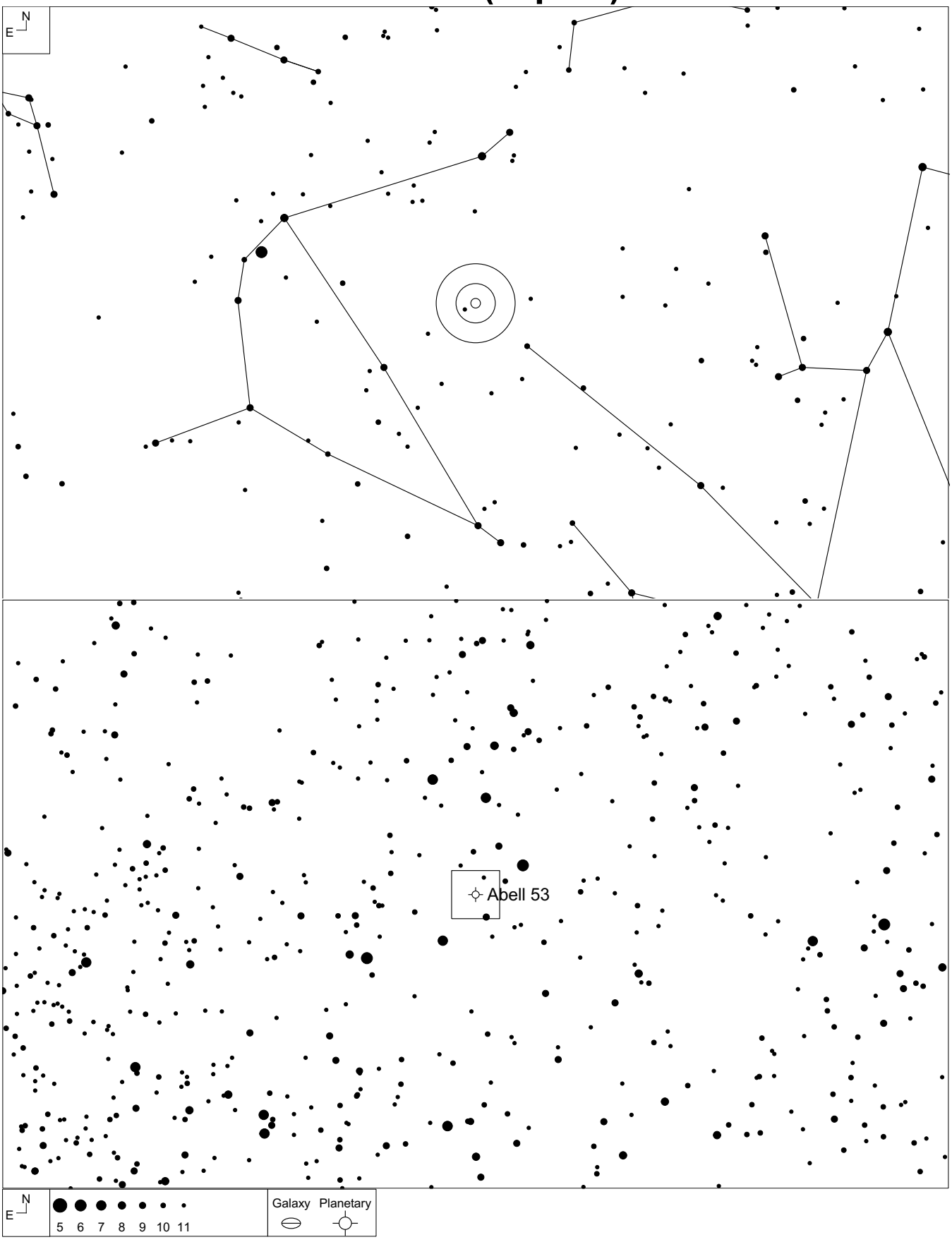


Equipment: 22” f/4.0
Magnification: 293x with O-III filter
Field: 16.8’
NELM: 6.5
Transparency: 7/10

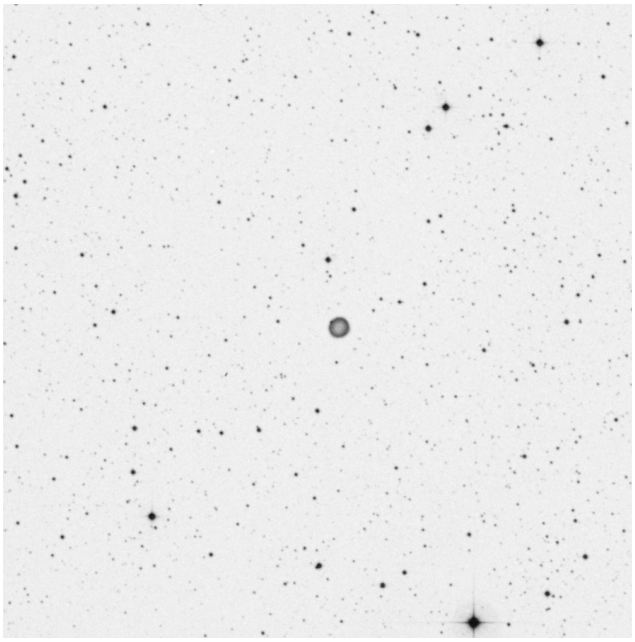
**22” f/4.0 (203 and 293x)** – The planetary shows a very faint and 3:1 elongated patch with a position angle of 120º. Even surface brightness throughout its 30” x 10” surface. I could hold this object nearly 100% of the time with averted vision and O-III filter. Its 17.2 magnitude central star is not visible. A 9.8 magnitude star lies about 6’ SSW. A nice 30-60-right triangle of 13$^{th}$ magnitude stars lie about 3’ south.

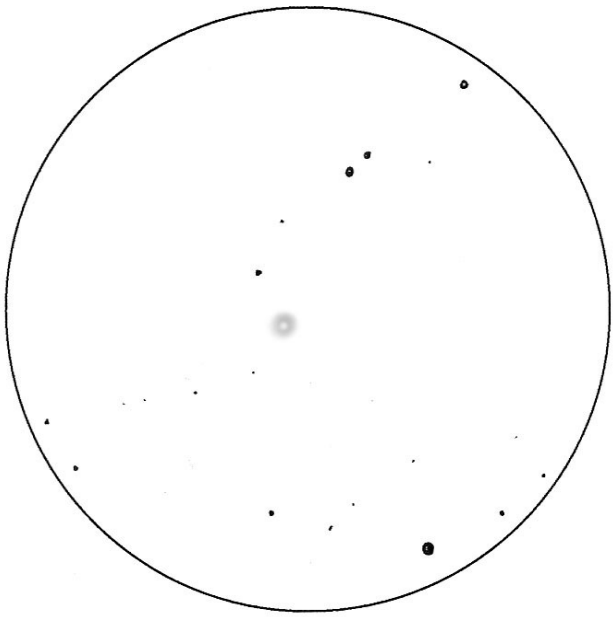
| Other ID | Type | RA | Dec | Mag | * Mag | Size |
|---|---|---|---|---|---|---|
| PK 50+5.1 | 3b | 19h 04.6m | +17º 57’ | 16.5p | 17.2 | 37 x 34” |

# Abell 53 (Aquila)



# Abell 53 (Aquila)



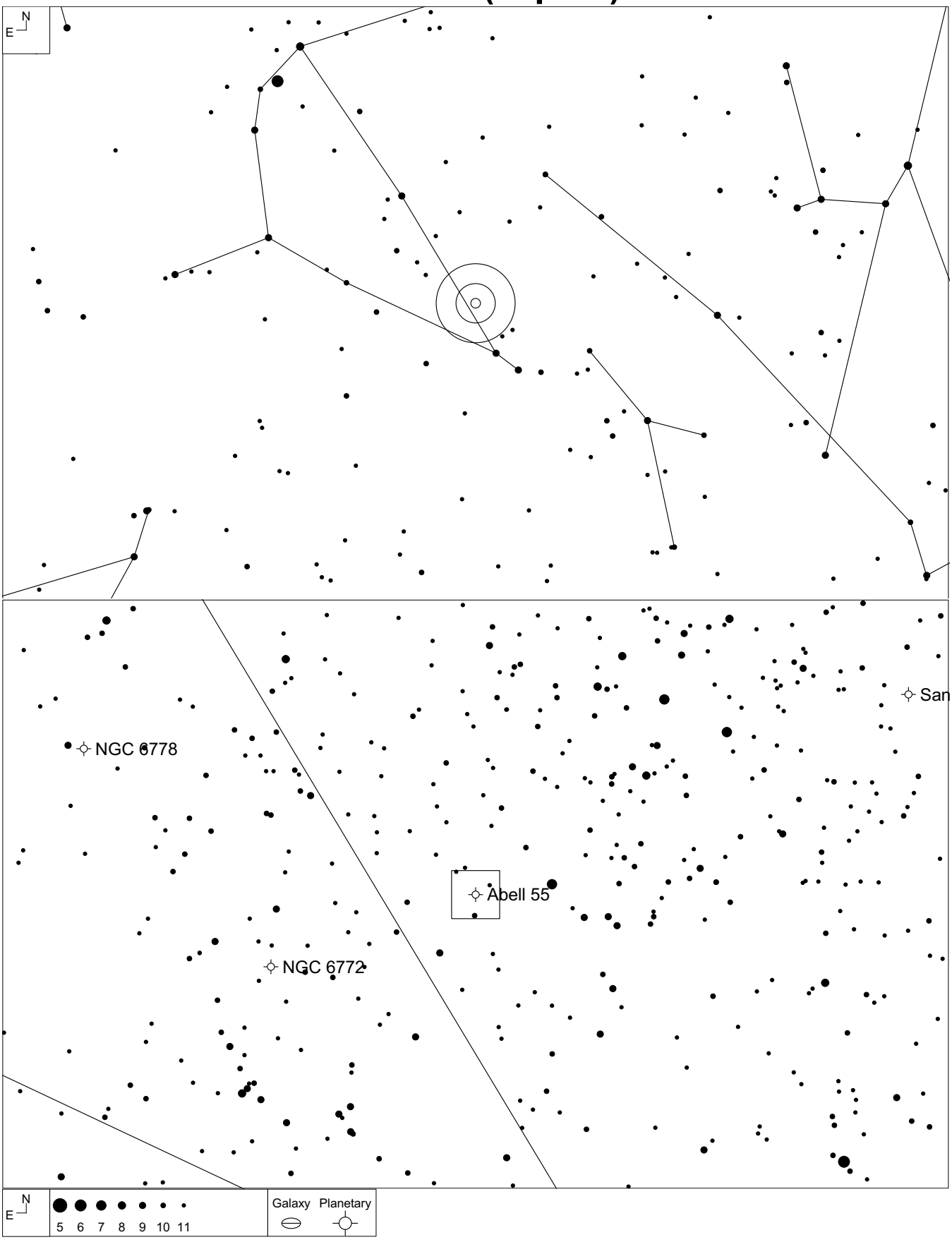


Equipment: 22” f/4.0
Magnification: 293x with O-III filter
Field: 16.8’
NELM: 6.5
Transparency: 7/10

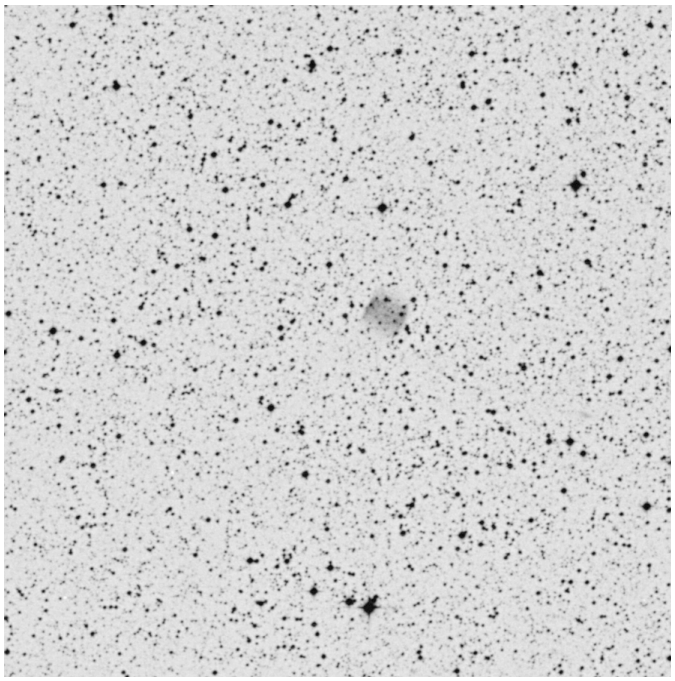
**22” f/4.0 (203 and 293x) –** This Abell shows a very nice and considerably bright, round disk measuring about 30” across. Annular structure was seen with averted vision and O-III filter. The diameter of the central hole of the annulus is about 10”. The outer edges are distinct and abrupt. This object was sometimes visible with direct vision. The best view is at 203x and O-III filter. I didn’t try for the 20.3 magnitude central star.

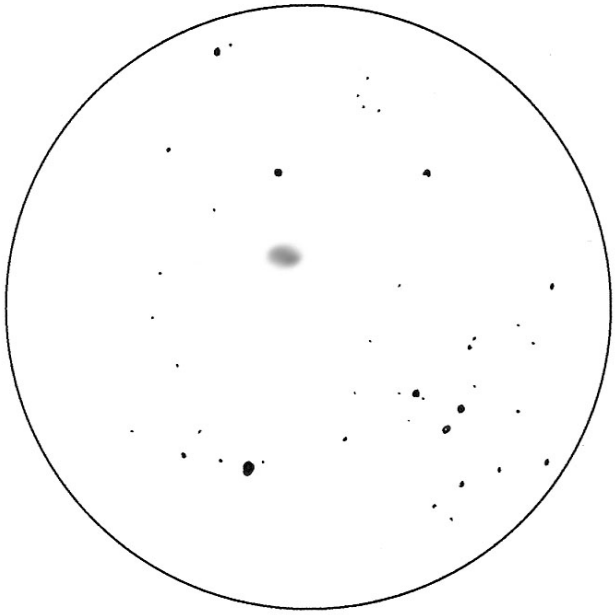
| Other ID | Type | RA | Dec | Mag | * Mag | Size |
|---|---|---|---|---|---|---|
| PK 40-0.1 | 4 | 19h 06.8m | +06º 24’ | 16.9p<br>15.5v | 20.3 | 30 x 27” |

# Abell 55 (Aquila)



# Abell 55 (Aquila)



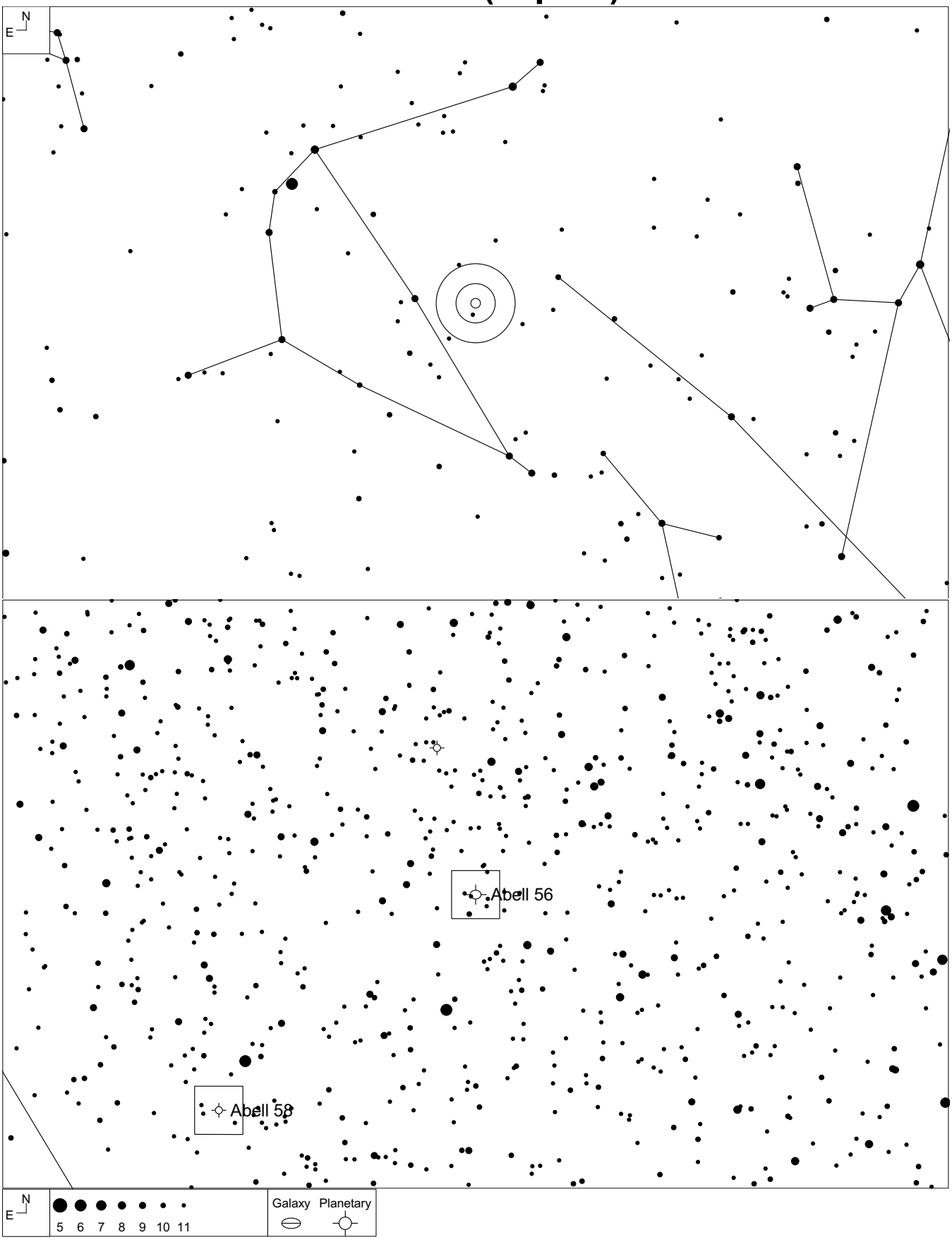


Equipment: 22” f/4.0
Magnification: 203x with O-III filter
Field: 24.3’
NELM: 6.5
Transparency: 7/10

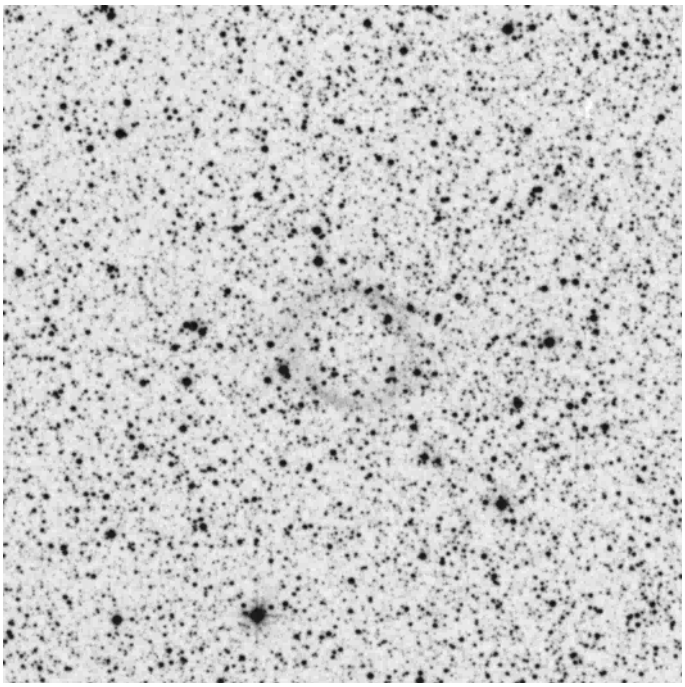
**22” f/4.0 (155 and 203x) –** This planetary is one of the easier Abells. Its considerably bright slightly elongated disk is visible with direct vision. It has well defined edges and even surface brightness throughout. The center is slightly brighter and no central star is seen, as it was listed as magnitude 19.2. Position angle is about 90 degrees. It shows best at 155x with an O-III filter. This object is visible without any filters between 75 and 293x. I did not try any higher magnifications. The size is about 40” x 30”.

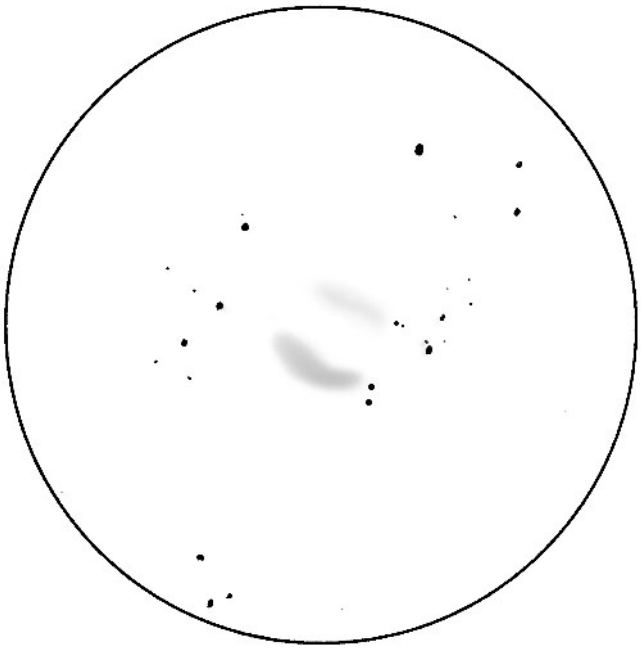
| Other ID | Type | RA | Dec | Mag | * Mag | Size |
|---|---|---|---|---|---|---|
| PK 33-5.1 | 3 | 19h 10.5m | -02º 21’ | 15.4p | 19.2 | 47 x 32” |

# Abell 56 (Aquila)



# Abell 56 (Aquila)





Equipment: 30” f/4.3
Magnification: 222x with O-III filter
Field: 22.2’
NELM: 6.5
Transparency: 7/10

**30” f/4.3 (222x) –** This Abell shows two complimentary crescent shaped parts. The southern part is significantly brighter than the northern piece. The southern part is considerably bright even surface brightness patch with well-defined edges and is 120” long and about 20” thick. It is seen 100% of the time with averted vision and 50% with direct vision. The northern piece is an extremely faint patch of about 100” long and 20” thick. It is seen only 50% of the time with averted vision and not at all with direct vision. This PNe is best seen at 222x and O-III filter. The central star is not spotted.

| Other ID | Type | RA | Dec | Mag | * Mag | Size |
|---|---|---|---|---|---|---|
| PK 37-3.2 | 4 | 19h 13.1m | +02º 53’ | >15.5p | 19.7 | 188 x 174” |