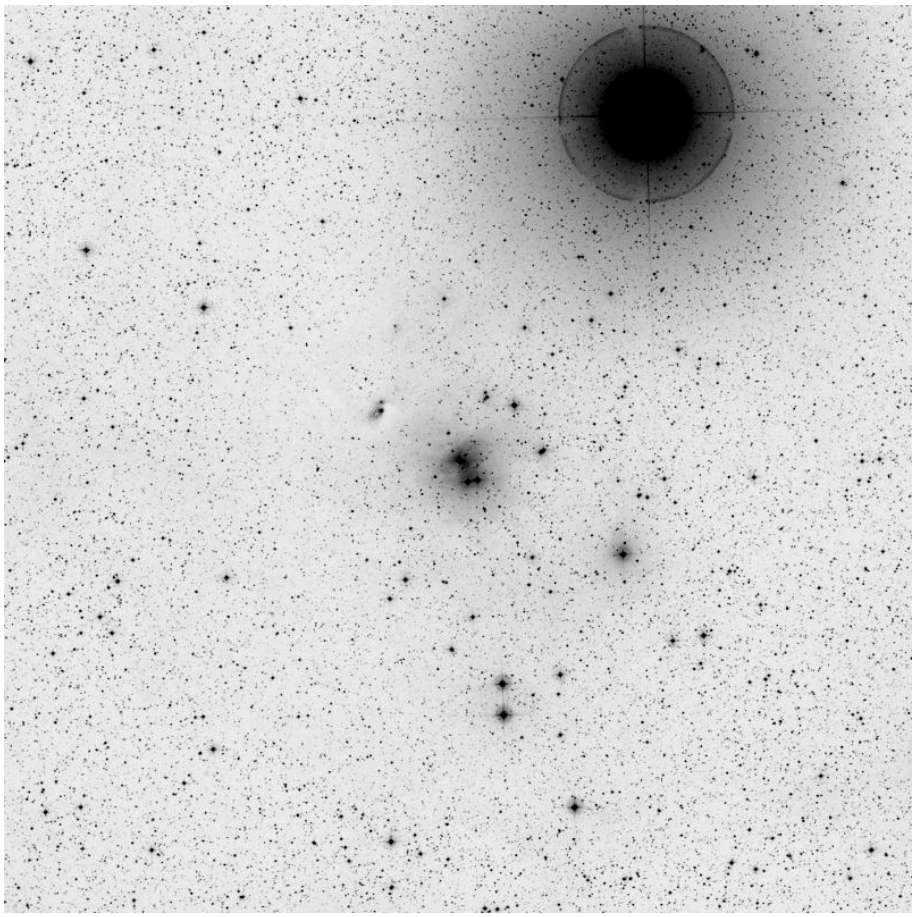
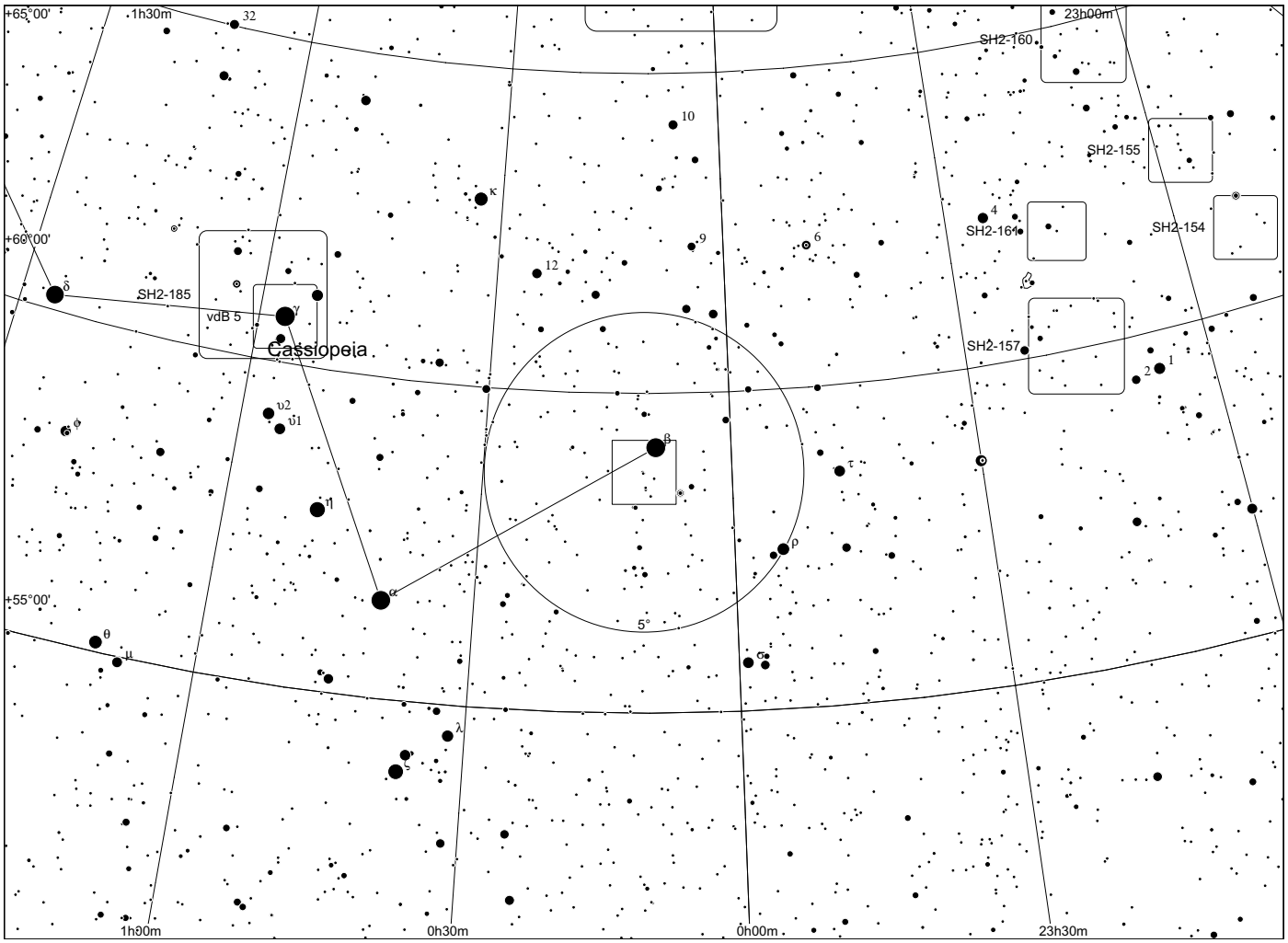
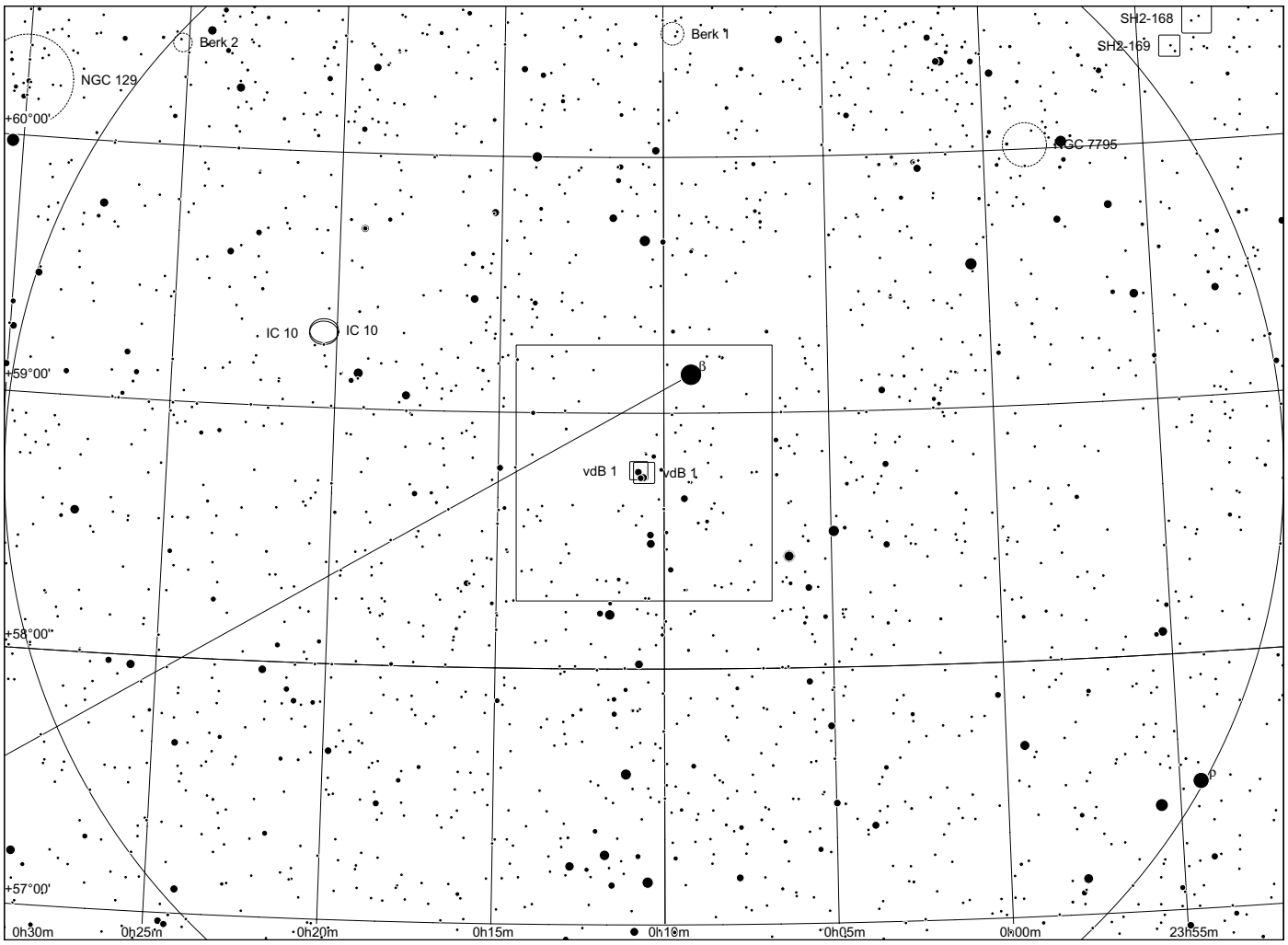
# vdB 1 and Friends in Cassiopeia

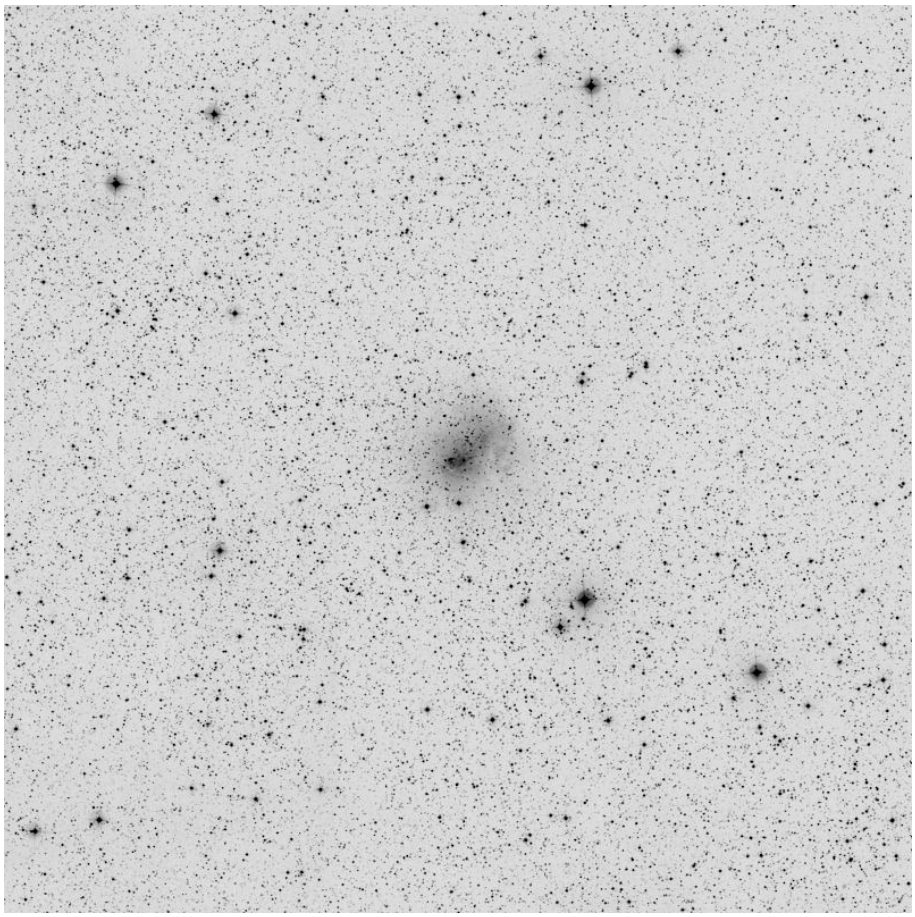


| | | |
|---|---|---|
| vdB 1 | 00 10 46.37 +58 46 10.3 | |

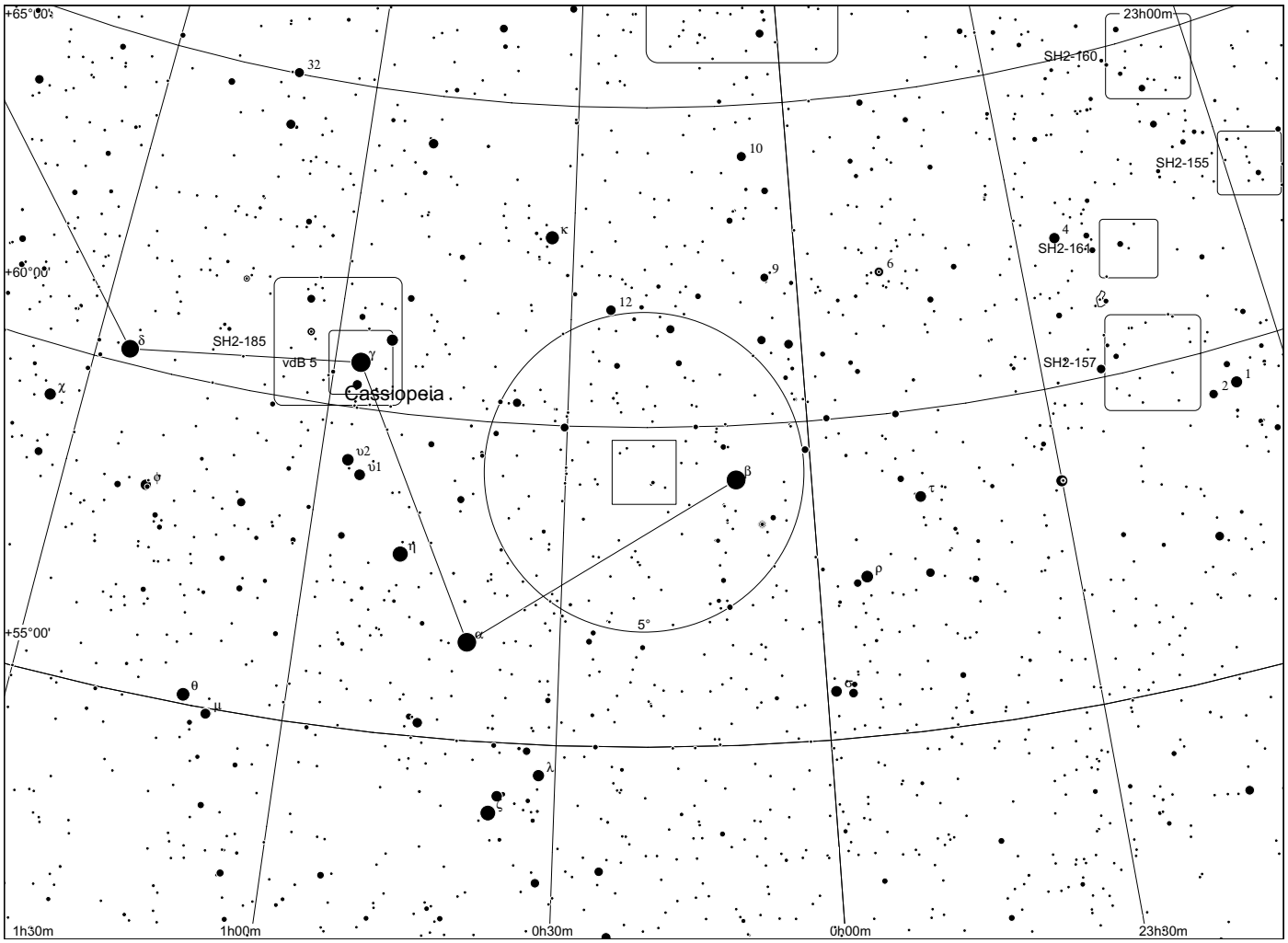

+65°00'
1h30m
32
23h00m
SH2-160
10
SH2-155
κ
4
SH2-161
SH2-154
+60°00'
9
6
12
δ
SH2-185
γ
vdB 5
Cassiopeia
SH2-157
1
2
υ2
υ1
φ
β
τ
η
ρ
α
+55°00'
5°
θ
μ
σ
λ
1h00m
0h30m
0h00m
23h30m

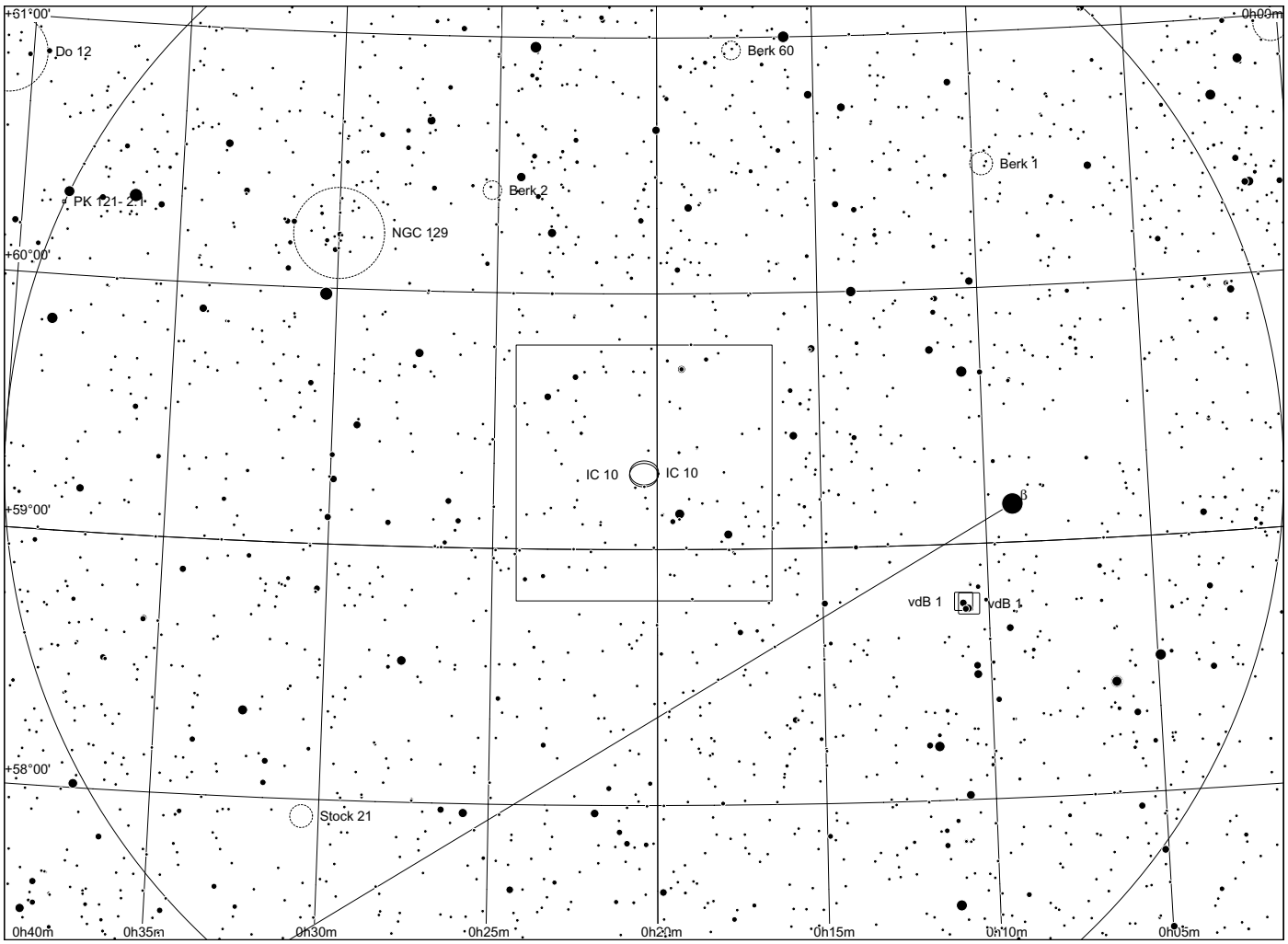

Berk 2
Berk 1
SH2-168
SH2-169
NGC 129
+60°00'
NGC 7795
IC 10
IC 10
+59°00'
β
vdB 1
vdB 1
+58°00'
ρ
+57°00'
0h30m
0h25m
0h20m
0h15m
0h10m
0h05m
0h00m
23h55m

# IC 10 in Cassiopeia

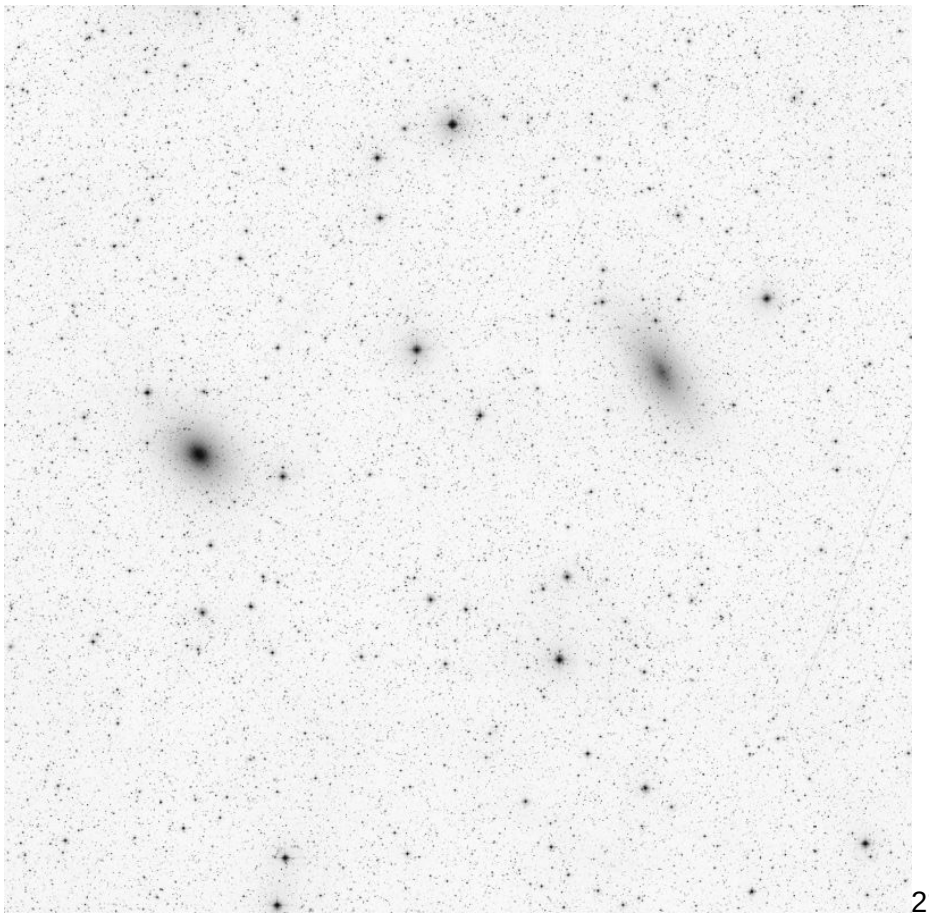


| | | |
|---|---|---|
| IC 10 | 00 20 17.34 +59 18 13.6 | |


+65°00'
+60°00'
+55°00'
23h00m
SH2-160
SH2-155
SH2-164
SH2-157
SH2-185
vdB 5
Cassiopeia
5°
1h30m
1h00m
0h30m
0h00m
23h30m

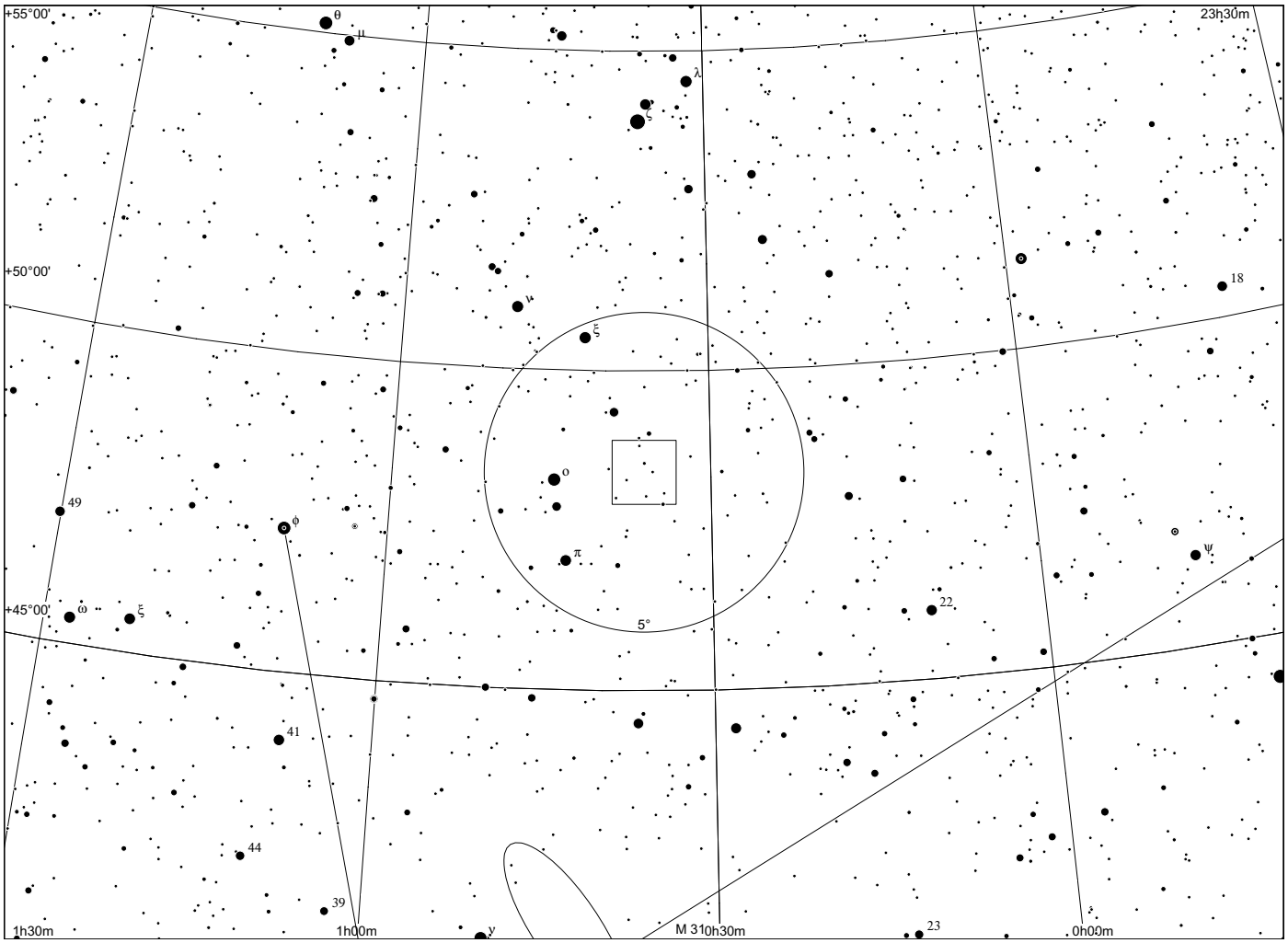

+61°00'
+60°00'
+59°00'
+58°00'
0h00m
Do 12
Berk 60
Berk 1
Berk 2
PK 121- 2-1
NGC 129
IC 10
IC 10
vdB 1
vdB 1
Stock 21
0h40m
0h35m
0h30m
0h25m
0h20m
0h15m
0h10m
0h05m

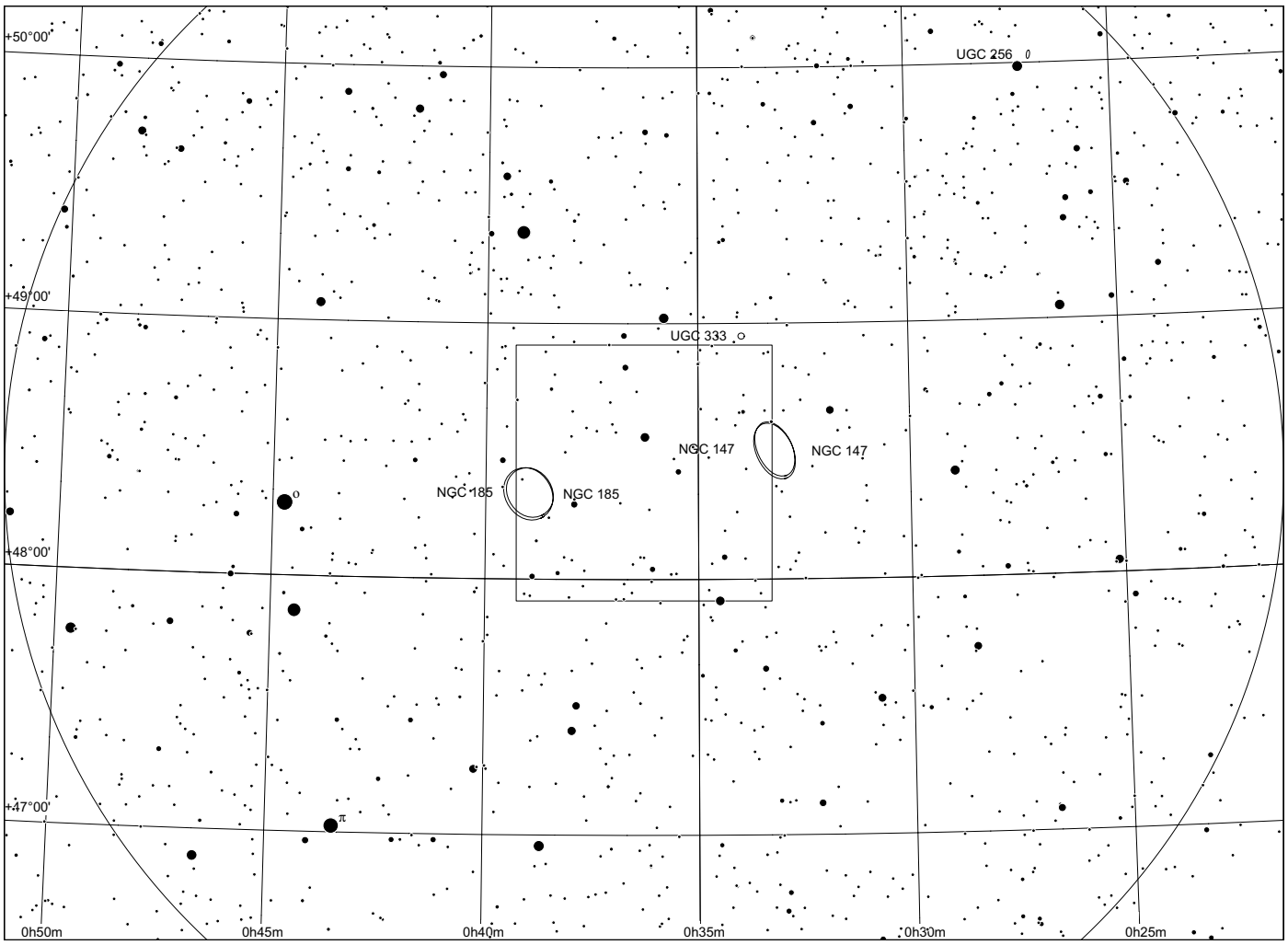
# NGC 147/185 in Cassiopeia



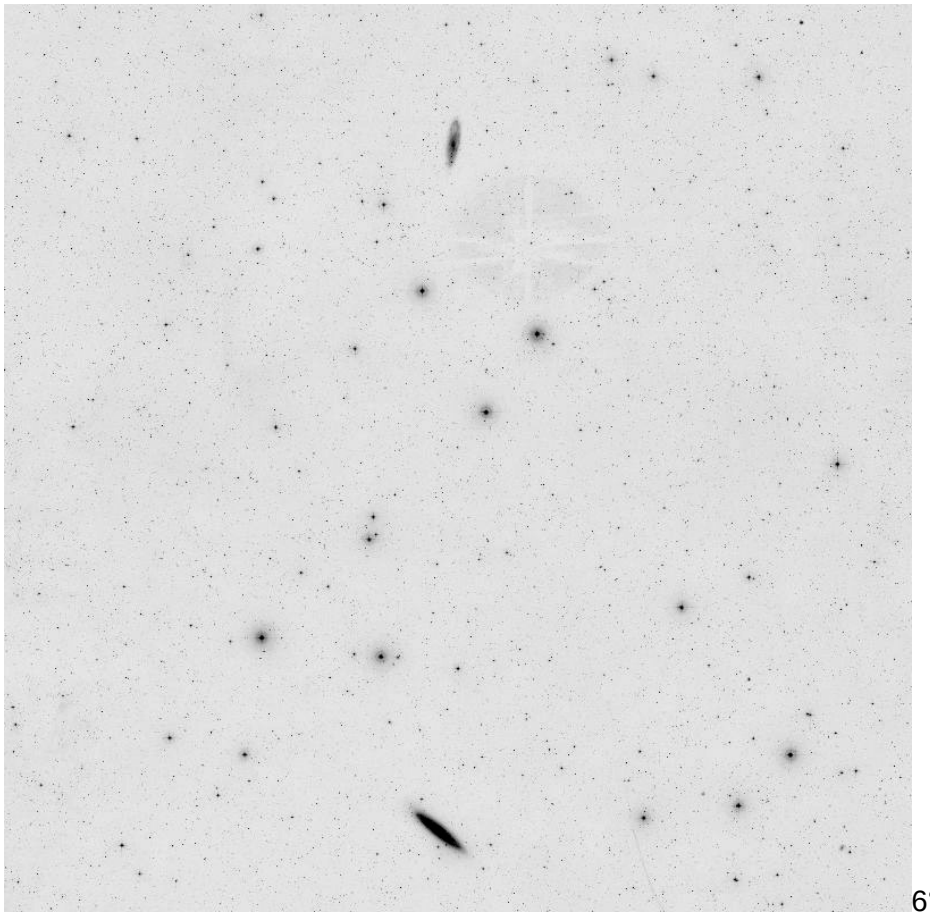
2°x2°

| | | |
|---|---|---|
| | | |
| NGC 147 und NGC 185 | 00 38 57.97 +48 20 14.6 und 00 33 12.12 +48 30 31.5 | |

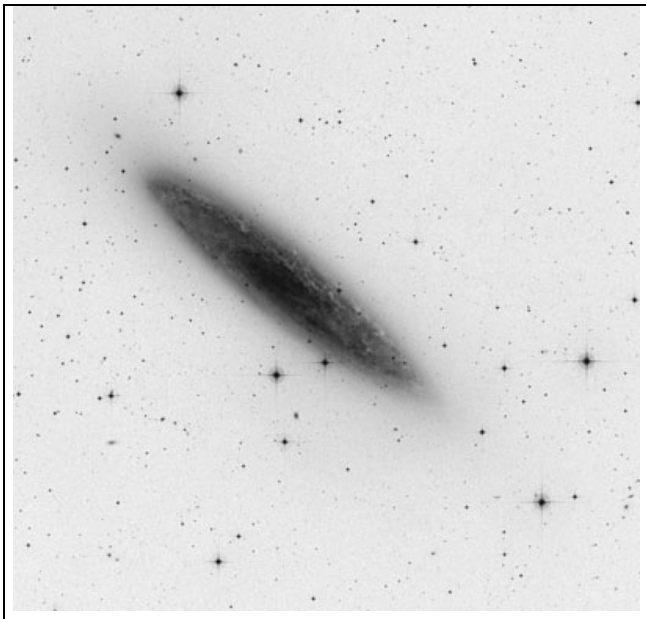

+55°00'
+50°00'
+45°00'
23h30m
1h30m
1h00m
M 31
0h30m
0h00m
5°
θ
μ
λ
ξ
ο
π
φ
ω
ξ
ψ
49
18
22
41
44
39
23

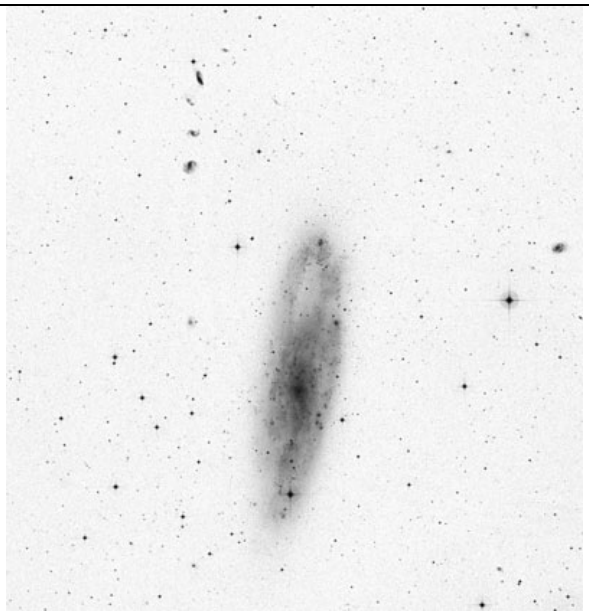

+50°00'
+49°00'
+48°00'
+47°00'
0h50m
0h45m
0h40m
0h35m
0h30m
0h25m
UGC 256
UGC 333
NGC 147
NGC 147
NGC 185
NGC 185
ο
π

# NGC 253 und 247  in  Sculptor

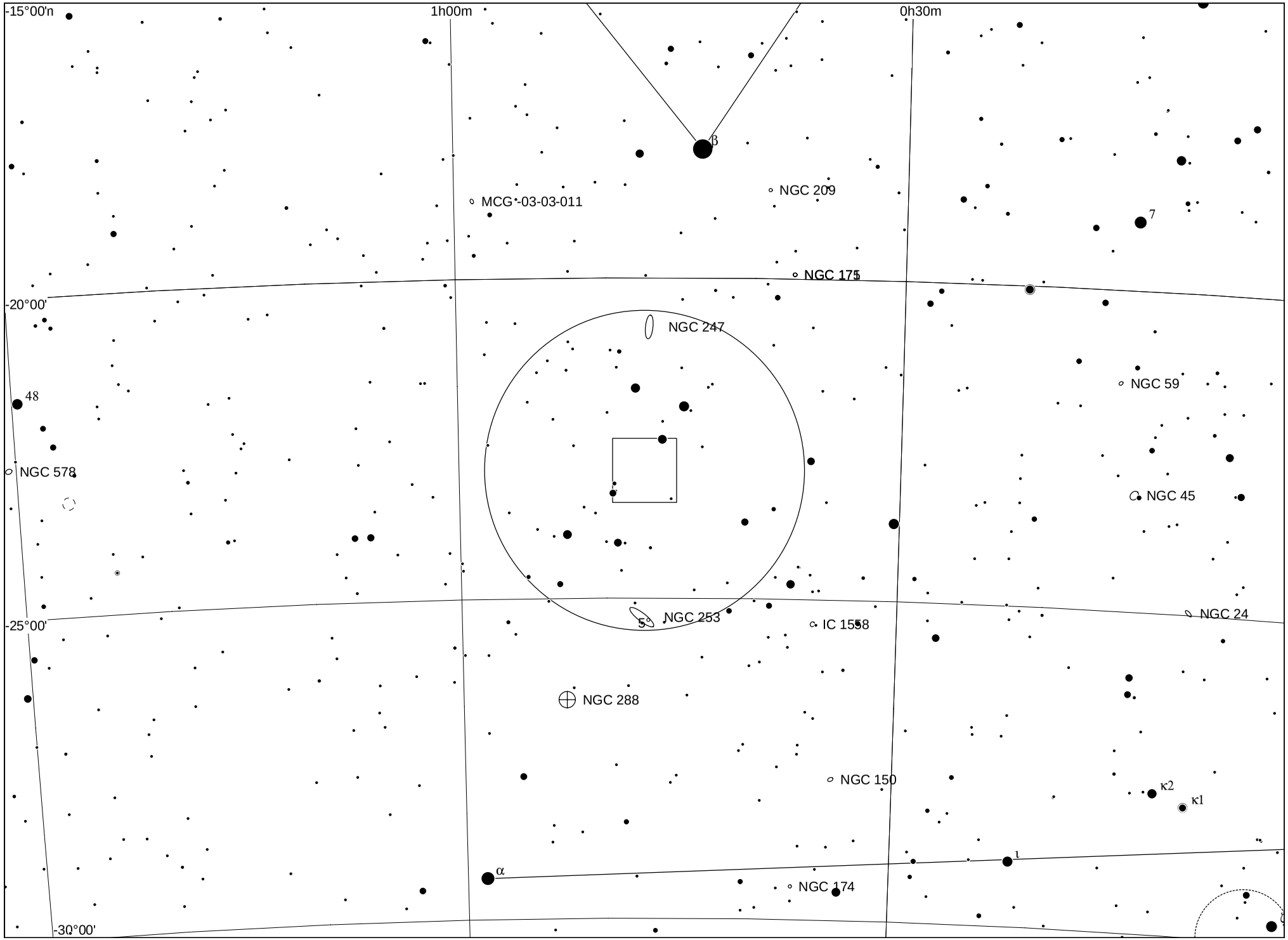


6°

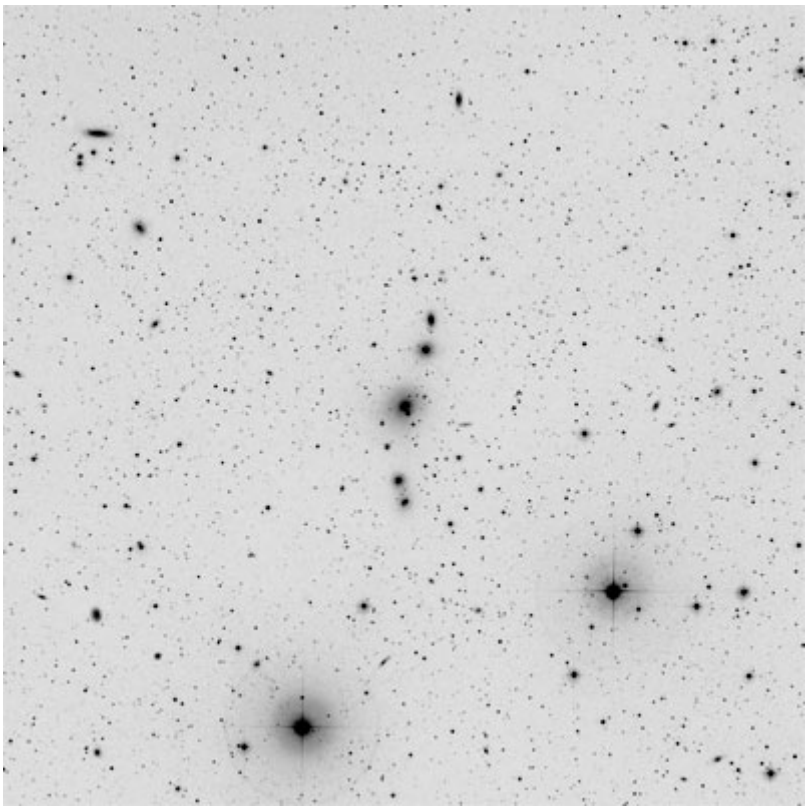


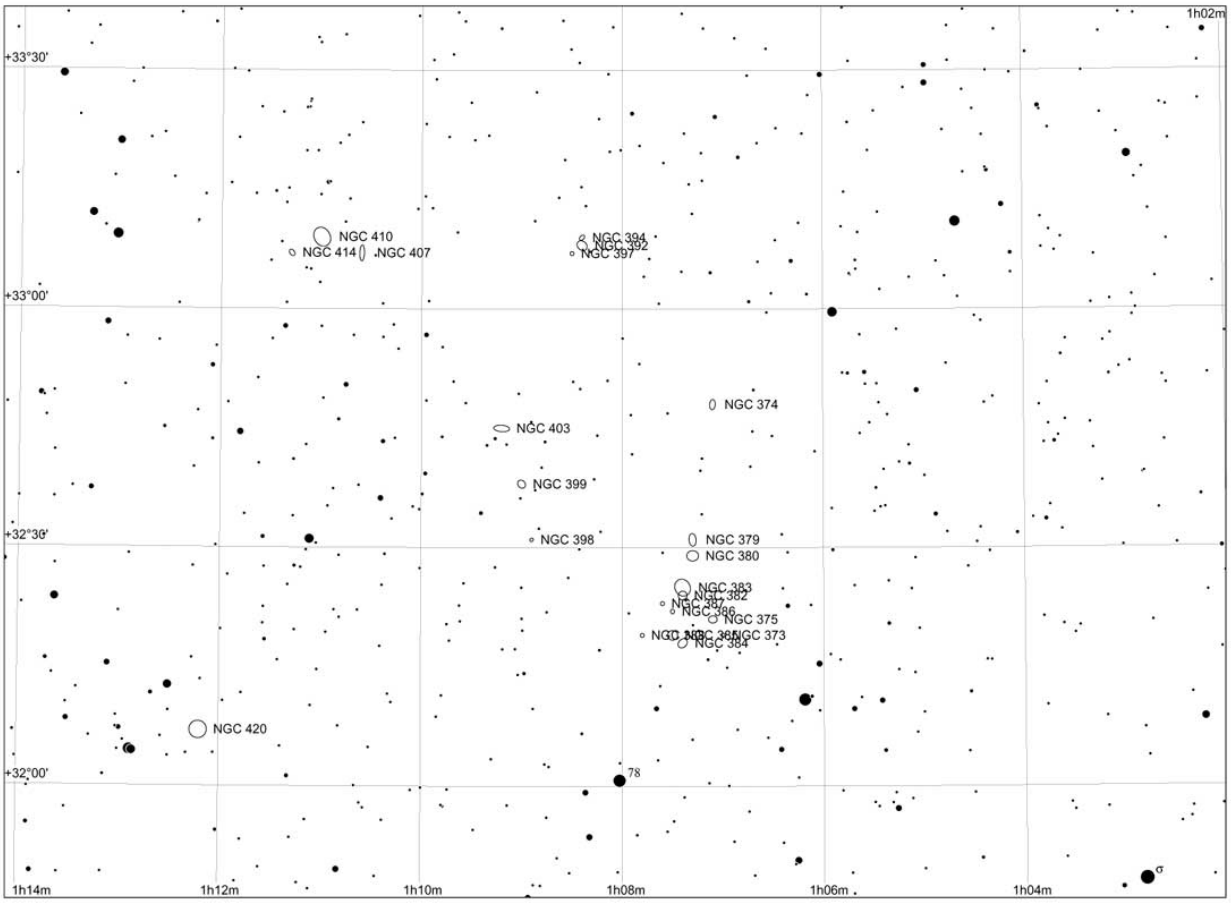


| | | |
|---|---|---|
| NGC 253 | 00h 47, -25° 17' | |

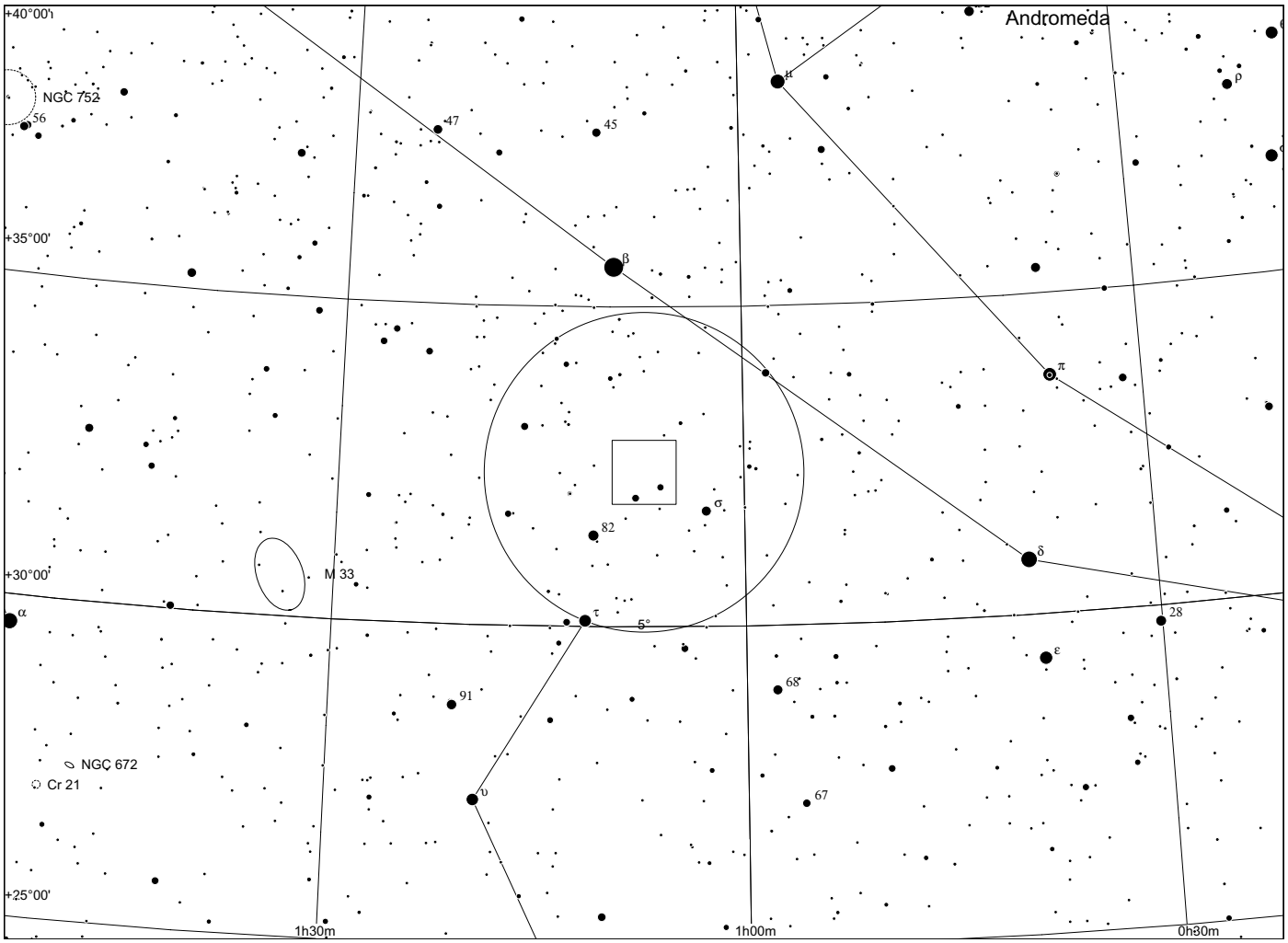

-15°00'n
1h00m
0h30m
β
NGC 209
MCG -03-03-011
7
NGC 175
-20°00'
NGC 247
NGC 59
48
NGC 578
NGC 45
NGC 24
-25°00'
5
NGC 253
IC 1558
NGC 288
NGC 150
κ2
κ1
ι
α
NGC 174
-30°00'

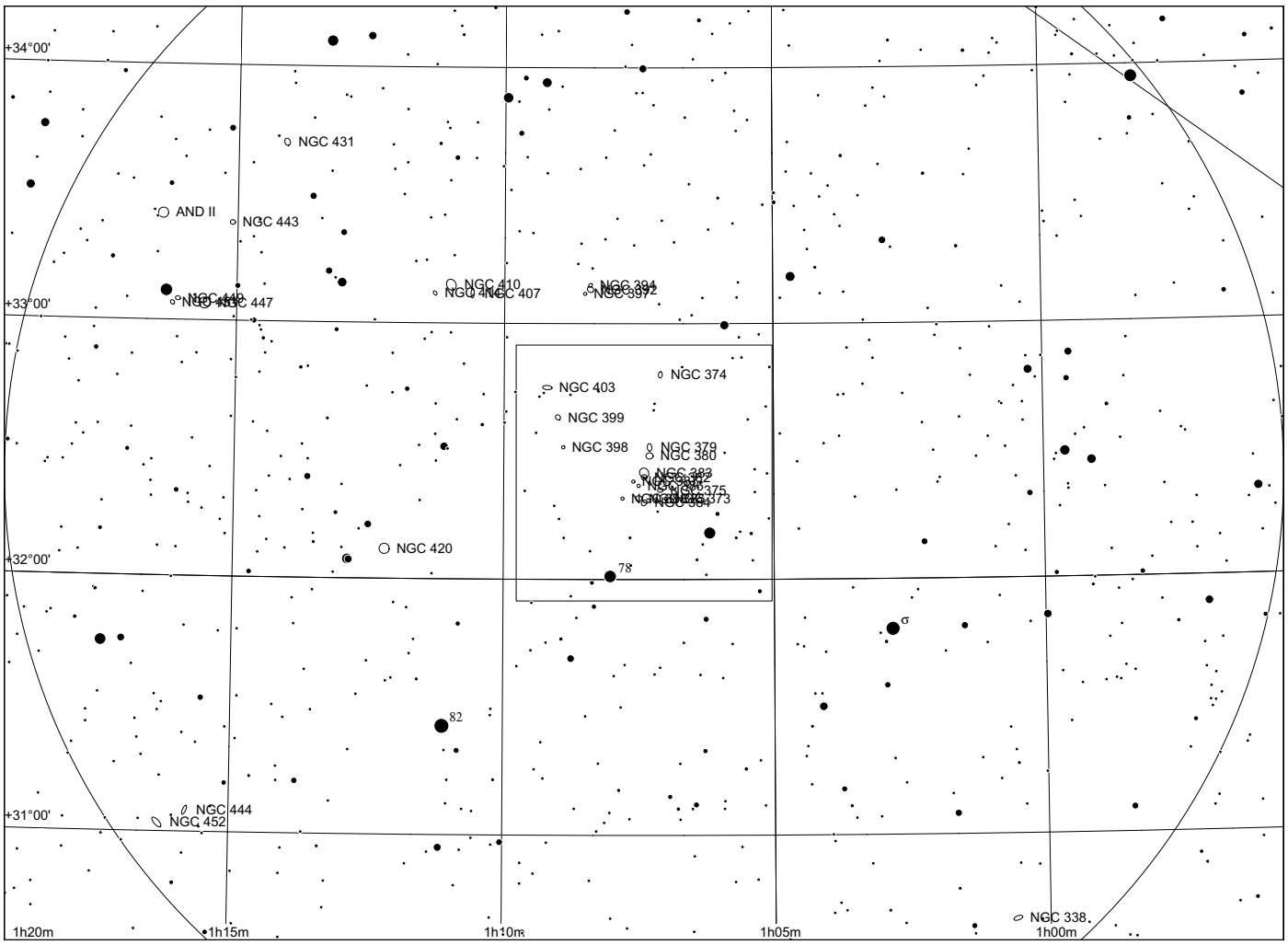
# NGC 383 and friend in Pisces



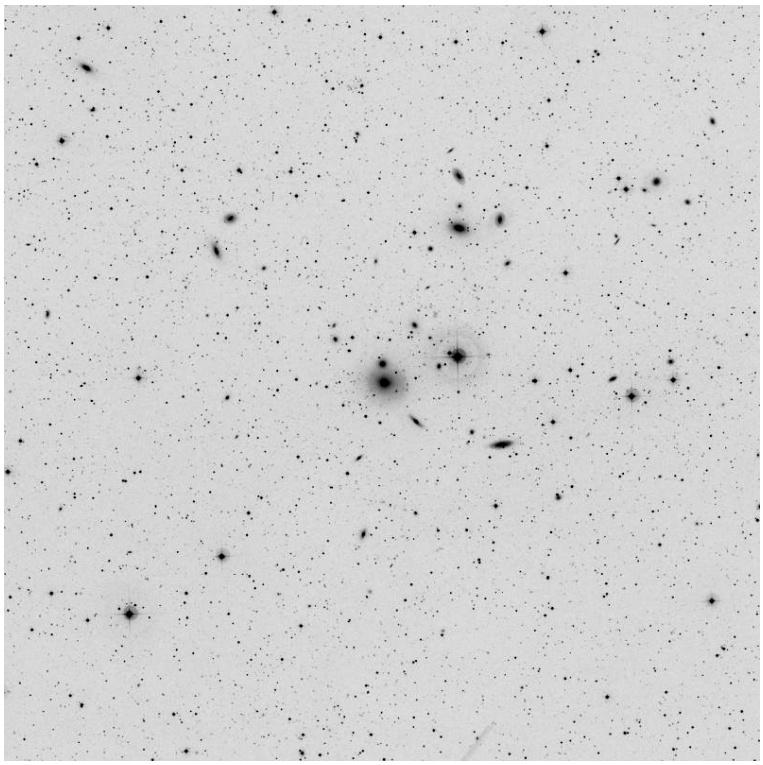


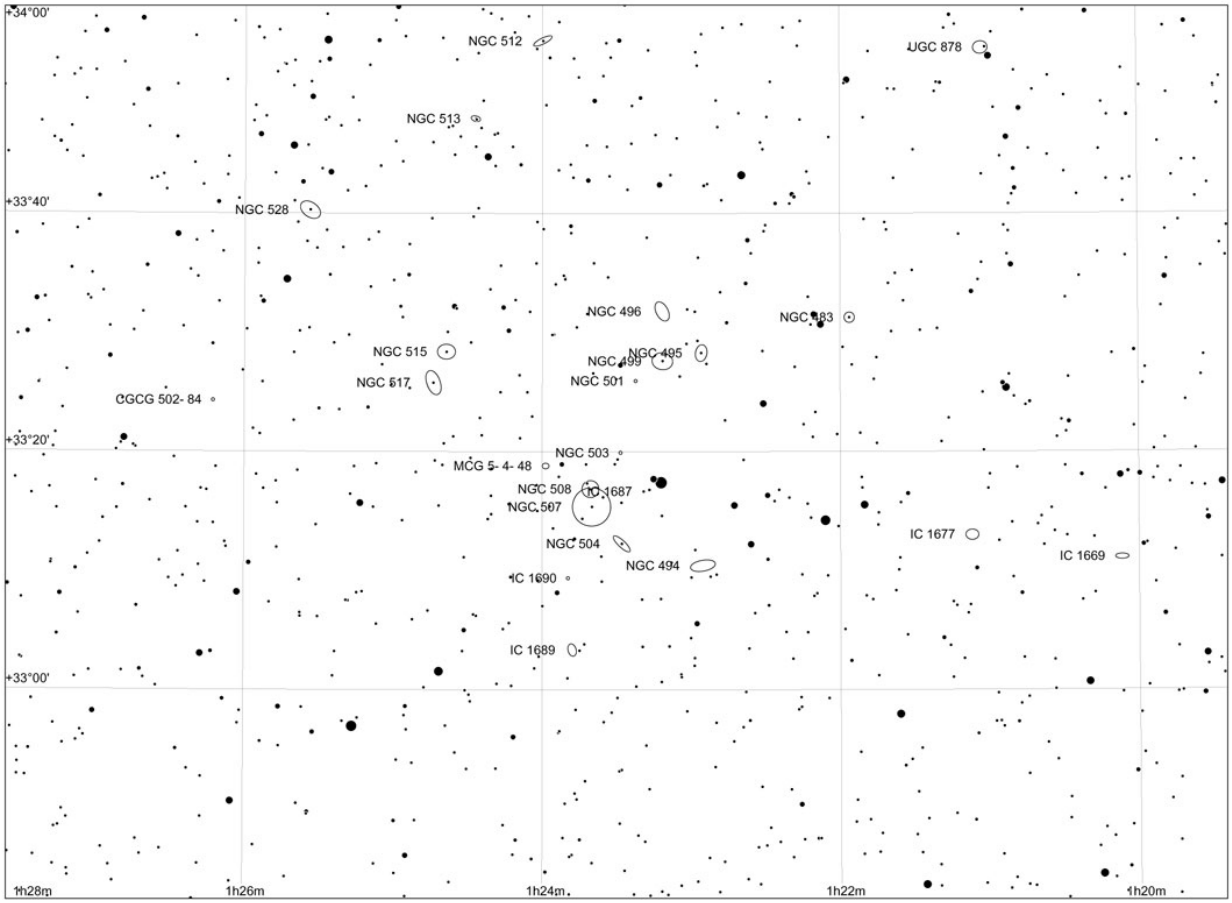

| | | |
|---|---|---|
| NGC 383 | 01 07 24.94 +32 24 45.2 | |


Andromeda
+40°00'
+35°00'
+30°00'
+25°00'
NGC 752
56
47
45
μ
ρ
β
π
σ
82
δ
M 33
α
τ
5°
28
ε
68
91
NGC 672
Cr 21
υ
67
1h30m
1h00m
0h30m

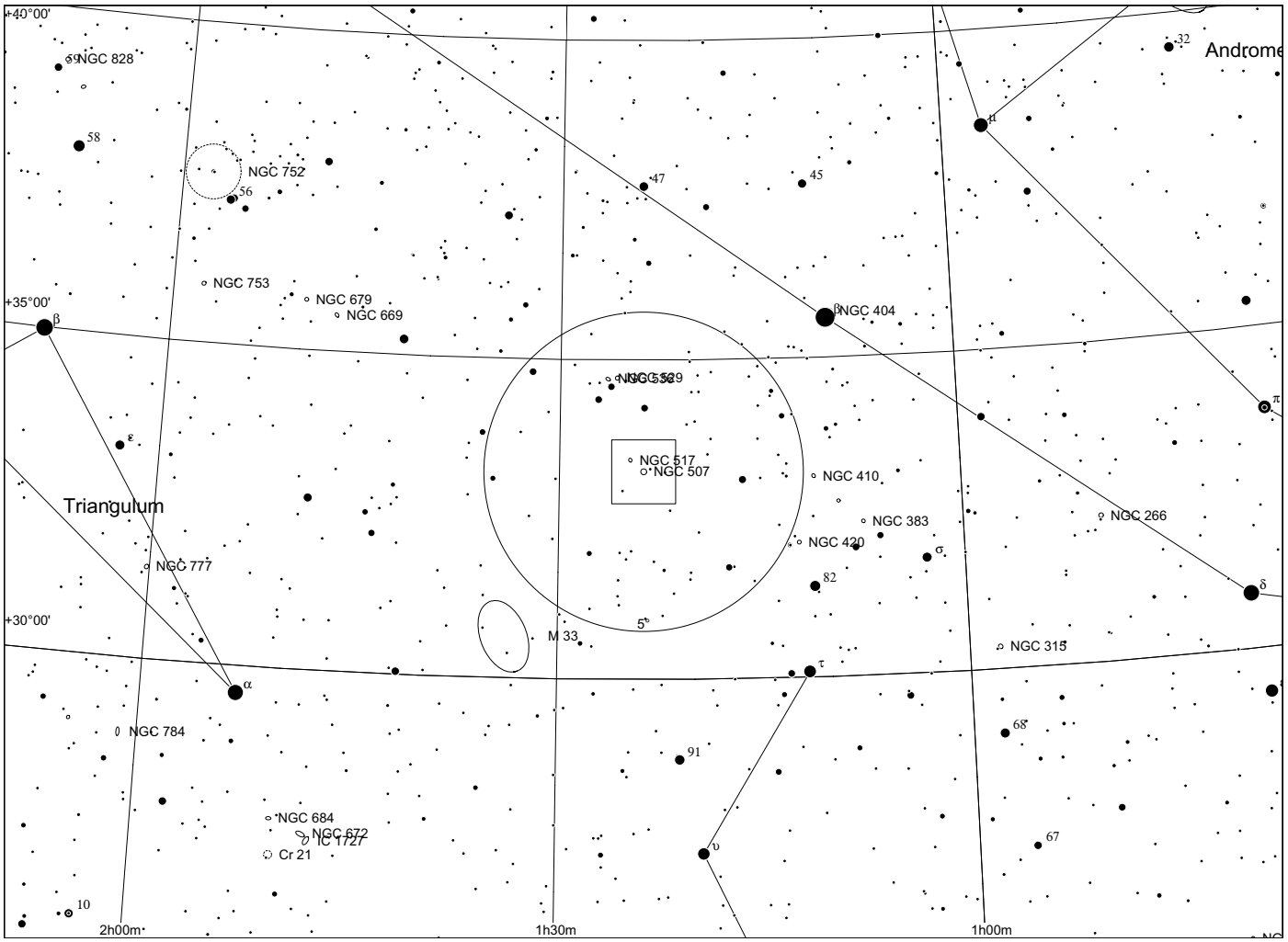

+34°00'
+33°00'
+32°00'
+31°00'
NGC 431
AND II
NGC 443
NGC 447
NGC 410
NGC 407
NGC 394
NGC 374
NGC 403
NGC 399
NGC 398
NGC 379
NGC 380
NGC 420
78
σ
82
NGC 444
NGC 452
NGC 338
1h20m
1h15m
1h10m
1h05m
1h00m

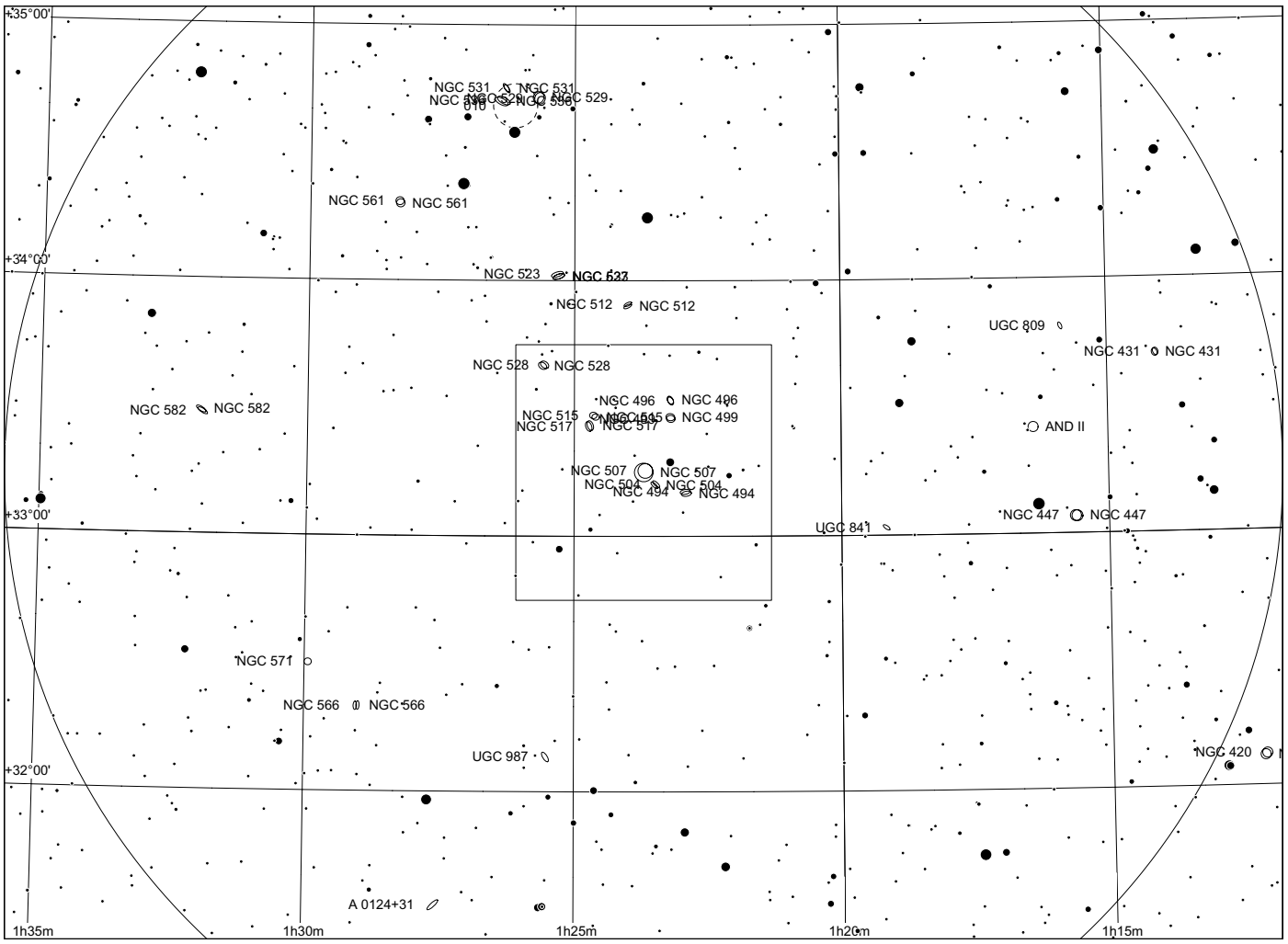
# NGC 507 group in Pisces



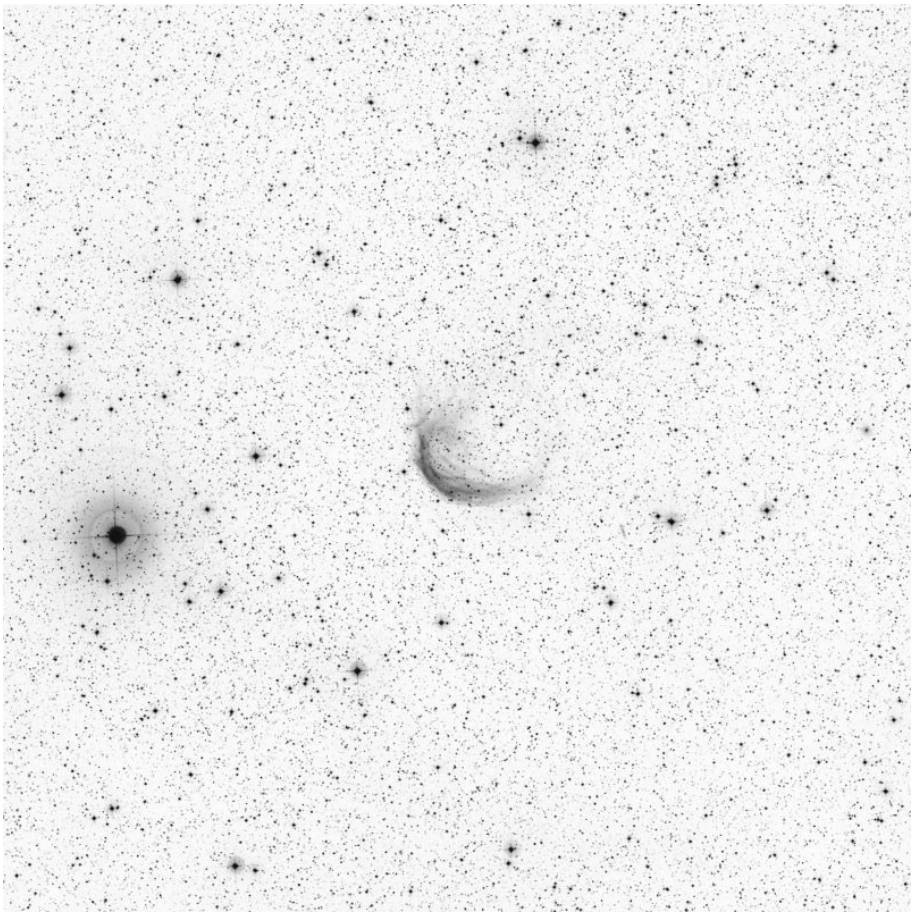



| | | |
|---|---|---|
| NGC 507 | 01 23 40.00 +33 15 20.0 | |

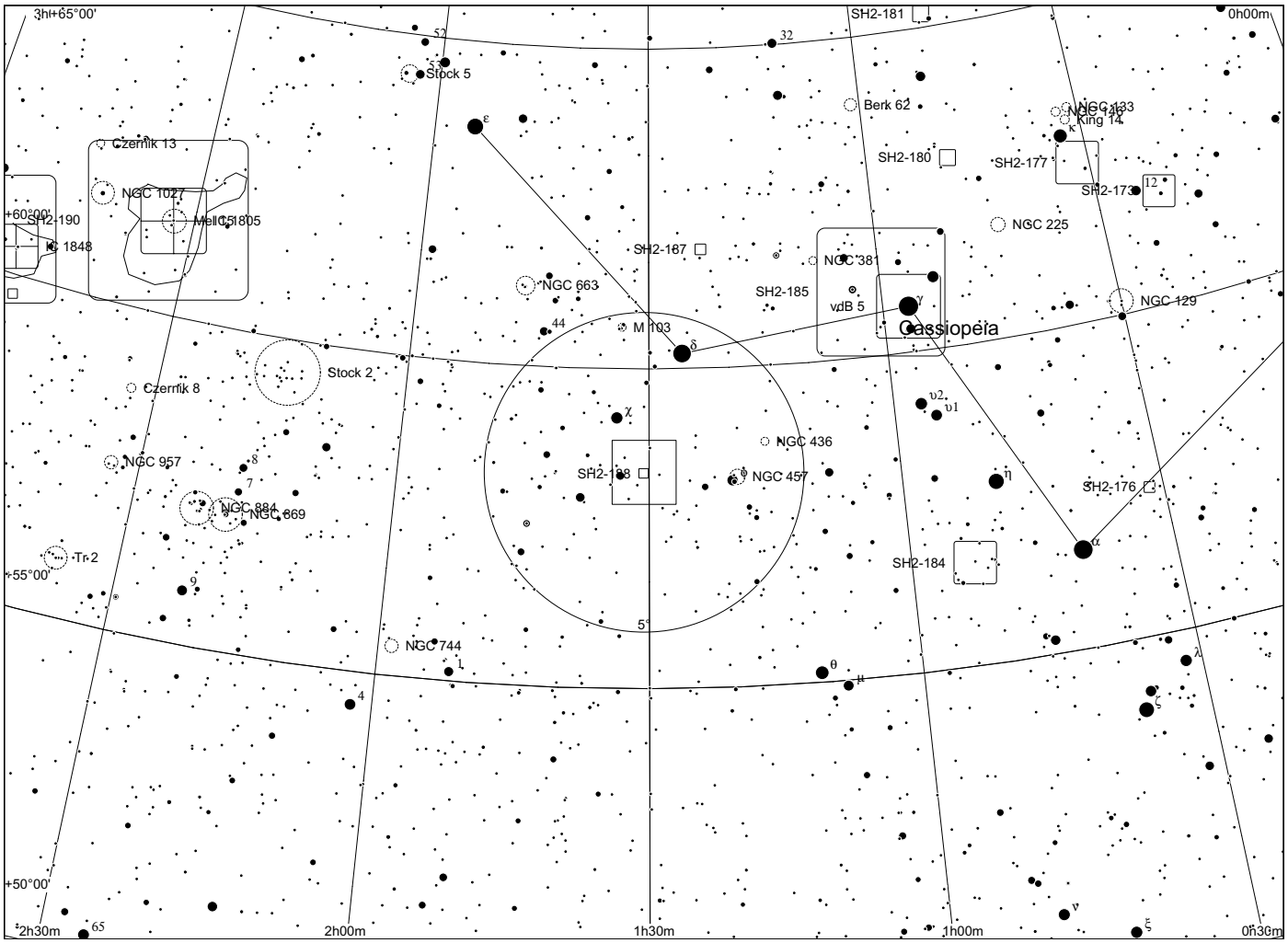

+40°00'
+35°00'
+30°00'
2h00m
1h30m
1h00m
Androme
Triangulum
NGC 828
NGC 752
NGC 753
NGC 679
NGC 669
NGC 404
NGC 517
NGC 507
NGC 410
NGC 383
NGC 420
NGC 266
NGC 315
NGC 777
M 33
NGC 784
NGC 684
NGC 672
IC 1727
Cr 21

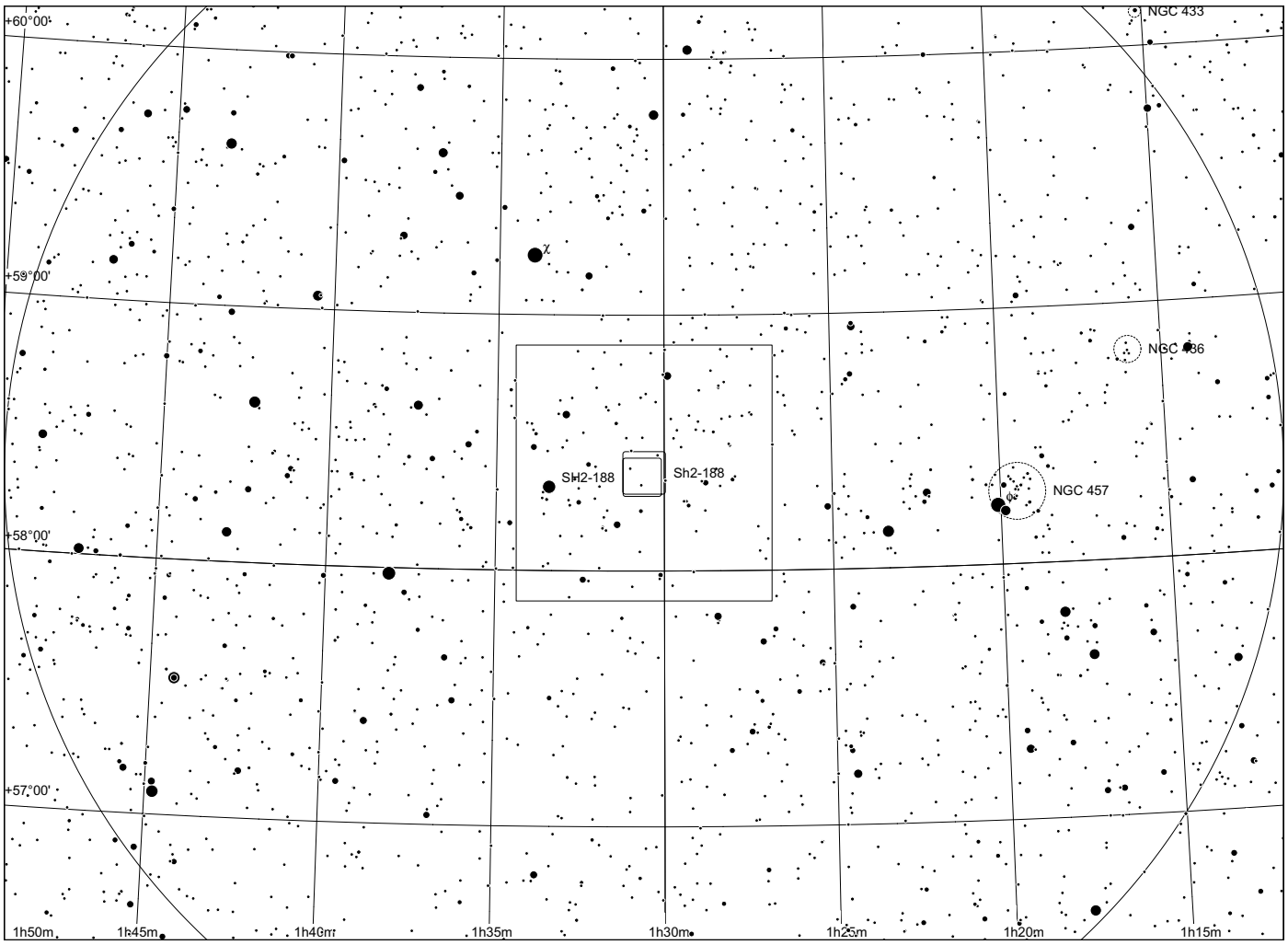

+35°00'
+34°00'
+33°00'
+32°00'
1h35m
1h30m
1h25m
1h20m
1h15m
NGC 531
NGC 529
NGC 561
NGC 523
NGC 512
NGC 528
NGC 496
NGC 499
NGC 517
NGC 507
NGC 504
NGC 494
NGC 582
UGC 809
NGC 431
AND II
NGC 447
UGC 841
NGC 571
NGC 566
UGC 987
NGC 420
A 0124+31

# Simeis 22 (Sh2-188) in Cassiopeia

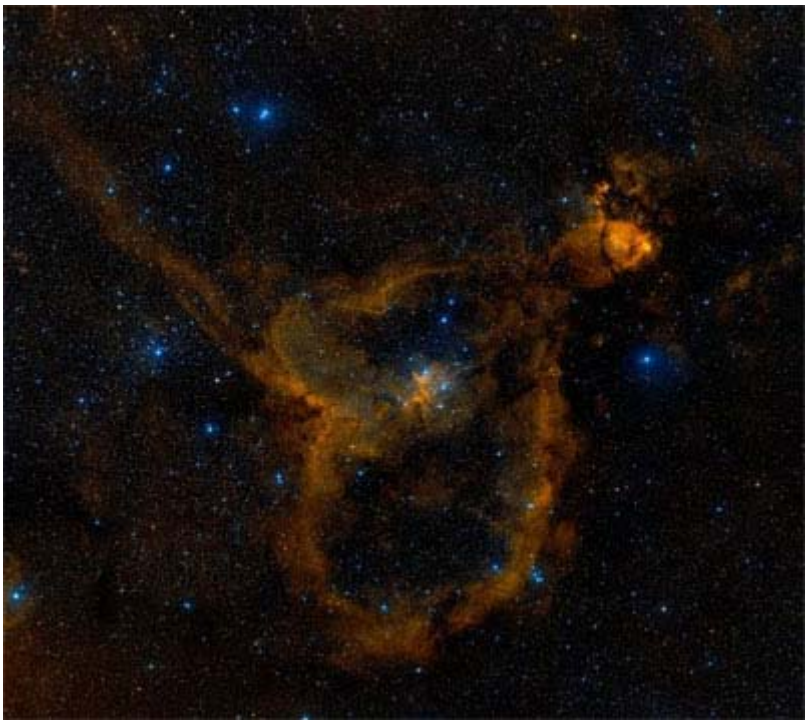


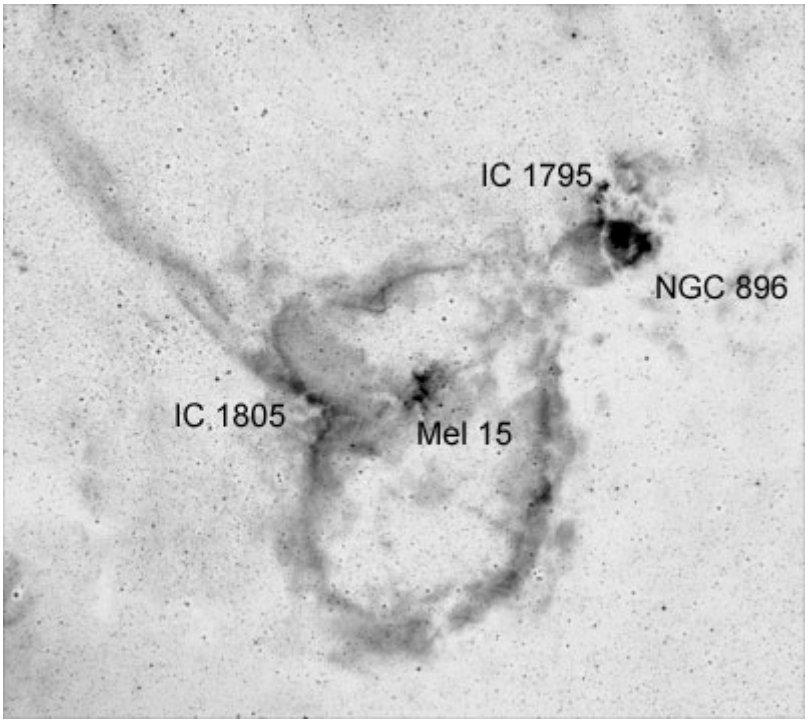
| | | |
|---|---|---|
| Simeis 22 | 01 30 40 +58 22 00 | |


3h+65°00'
0h00m
SH2-181
Stock 5
Berk 62
NGC 133
King 14
Czernik 13
SH2-180
SH2-177
SH2-173
NGC 1027
Melotte 5
+60°00'
SH2-190
IC 1848
NGC 225
SH2-187
NGC 381
NGC 663
SH2-185
vdB 5
NGC 129
M 103
Cassiopeia
Stock 2
Czernik 8
NGC 436
NGC 957
SH2-188
NGC 457
SH2-176
NGC 884
NGC 869
Tr 2
SH2-184
+55°00'
NGC 744
+50°00'
2h30m
2h00m
1h30m
1h00m
0h30m

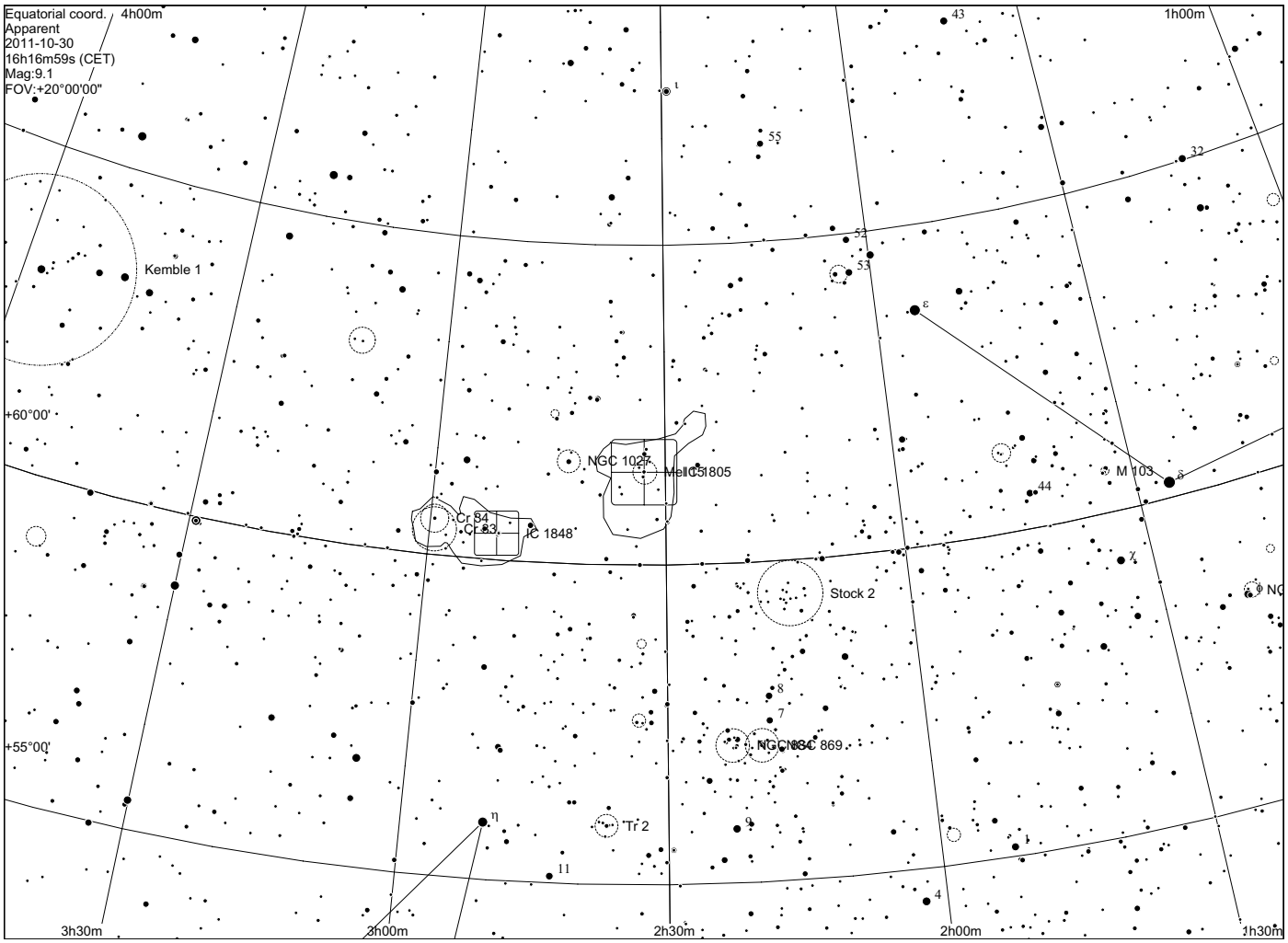

+60°00'
NGC 433
+59°00'
NGC 436
SH2-188
Sh2-188
NGC 457
+58°00'
+57°00'
1h50m
1h45m
1h40m
1h35m
1h30m
1h25m
1h20m
1h15m

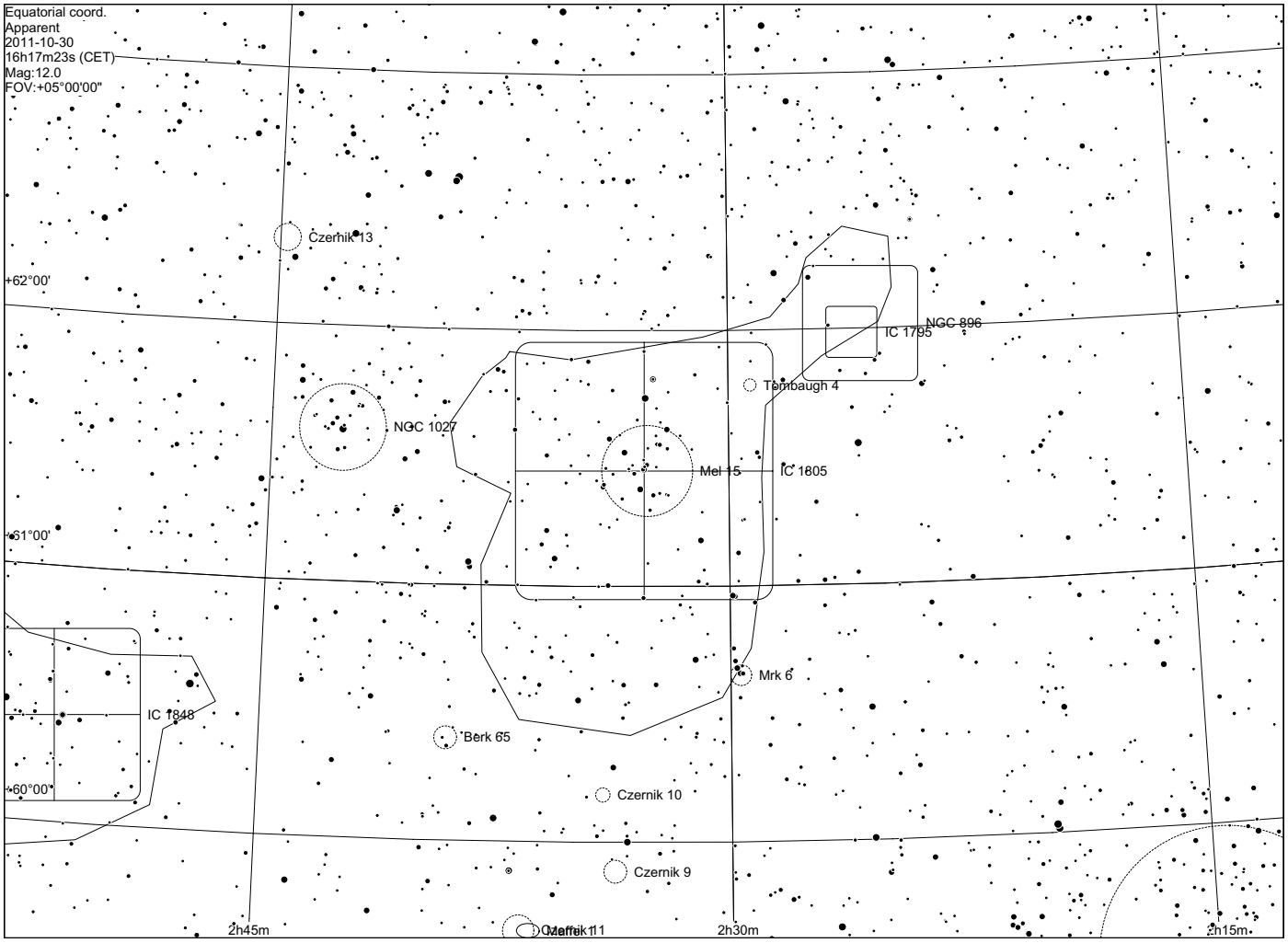
# Heart Nebula in  Cassiopeia



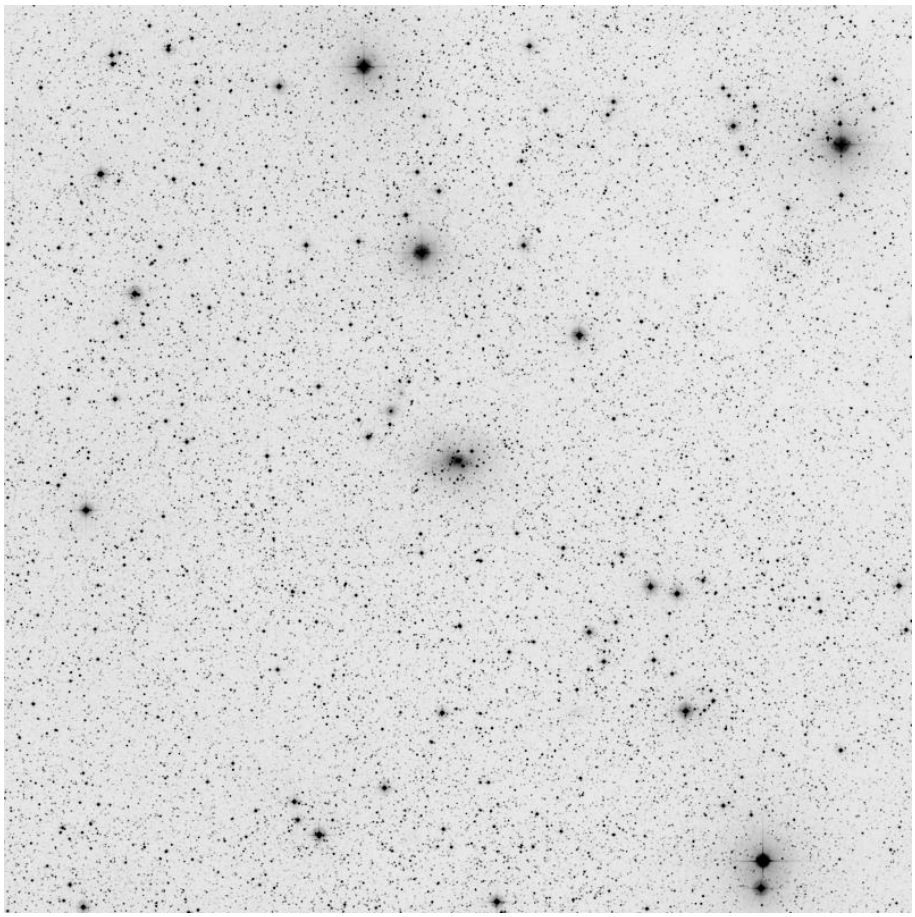



| | | |
|---|---|---|
| Melotte 15 | 02 32 40  +61 27 00 | |

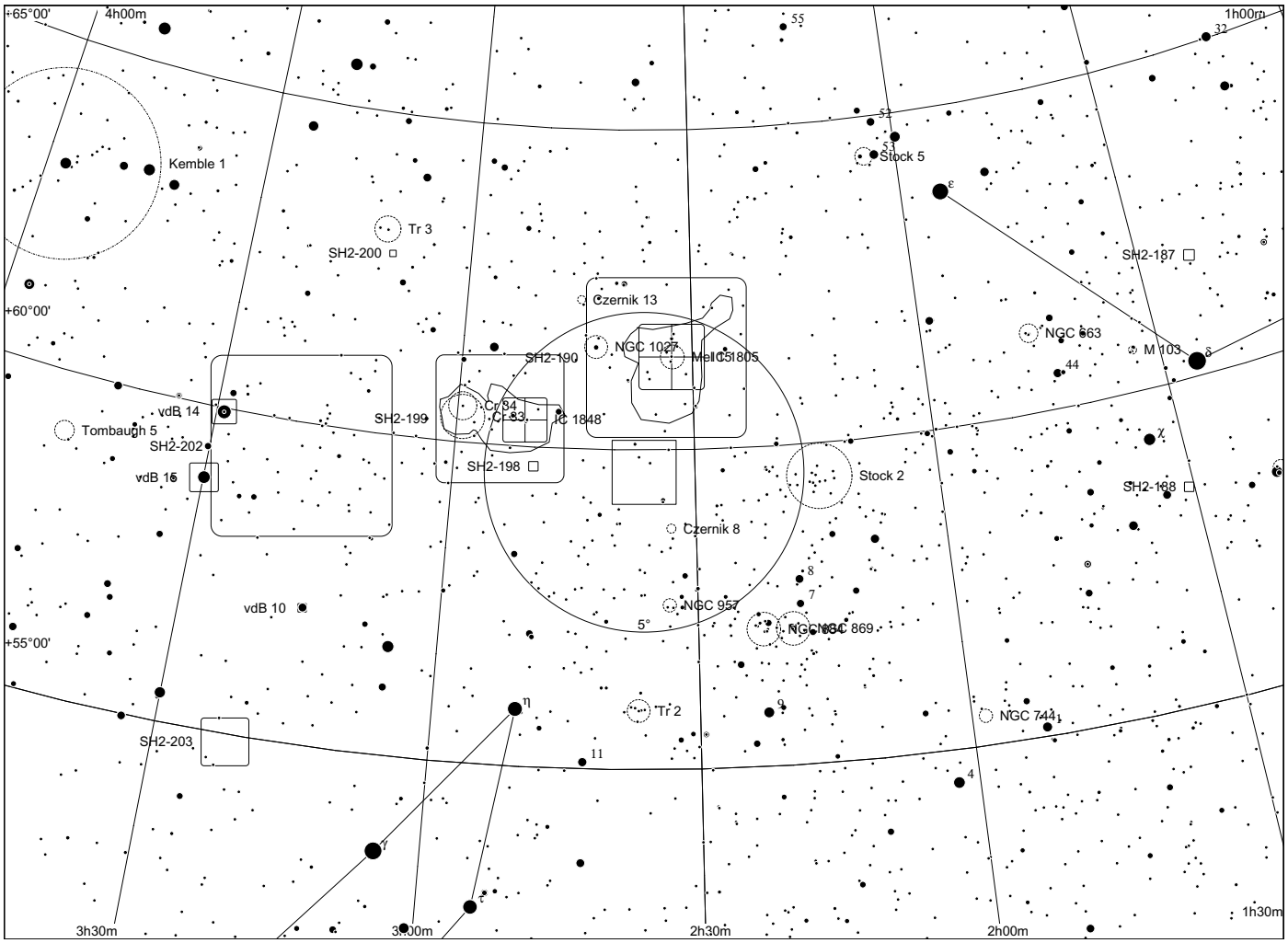

Equatorial coord.
Apparent
2011-10-30
16h16m59s (CET)
Mag:9.1
FOV:+20°00'00"
4h00m
1h00m
Kemble 1
+60°00'
NGC 1027
Melo 1805
Cr 84
Cr 83
IC 1848
M 103
Stock 2
NGC 869
+55°00'
Tr 2
3h30m
3h00m
2h30m
2h00m
1h30m

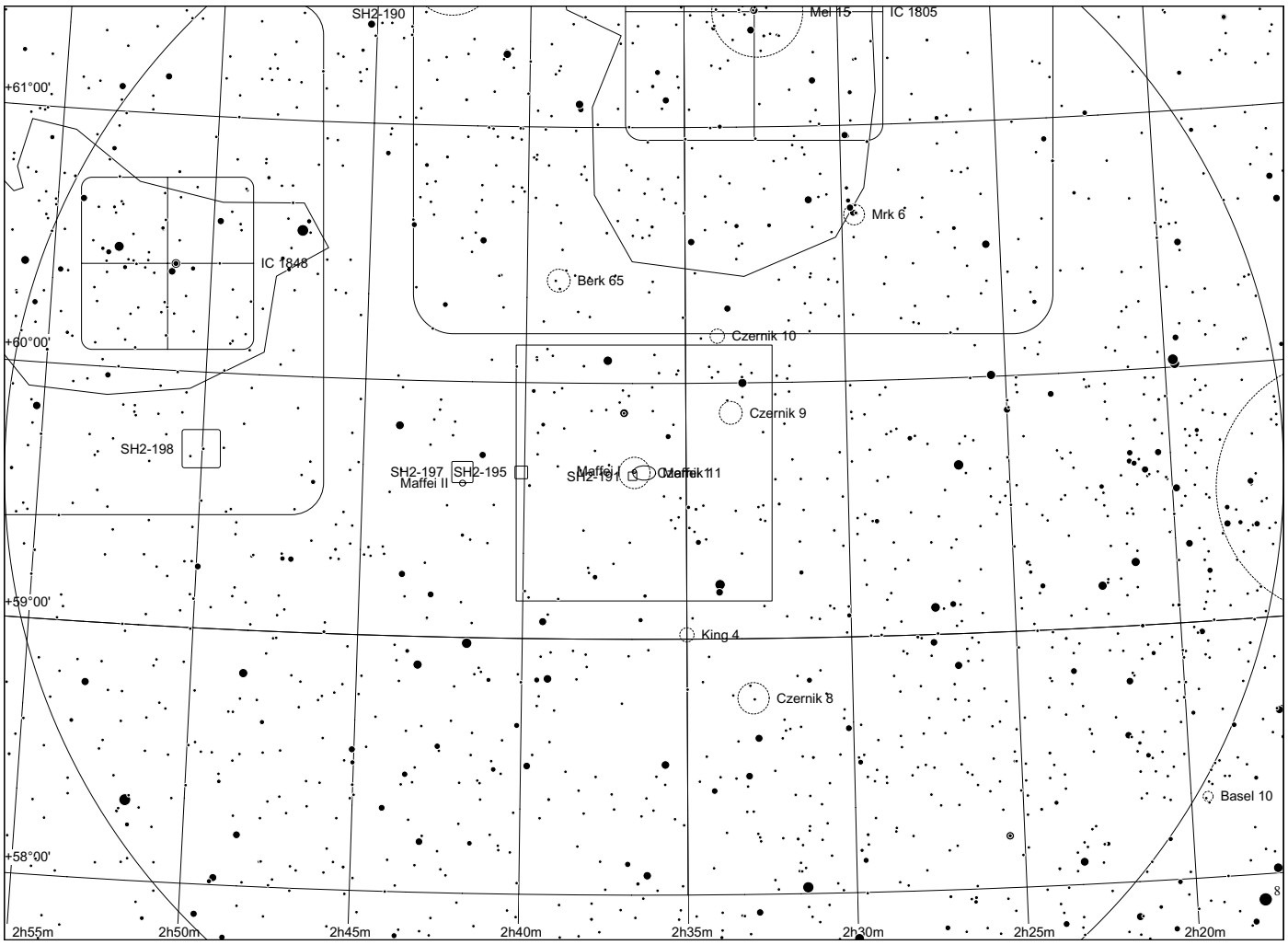

Equatorial coord.
Apparent
2011-10-30
16h17m23s (CET)
Mag:12.0
FOV:+05°00'00"
Czernik 13
+62°00'
NGC 896
IC 1795
Tombaugh 4
NGC 1027
Mel 15
IC 1805
+61°00'
Mrk 6
IC 1848
Berk 65
+60°00'
Czernik 10
Czernik 9
2h45m
2h30m
2h15m

# Maffei 1 in Cassiopeia

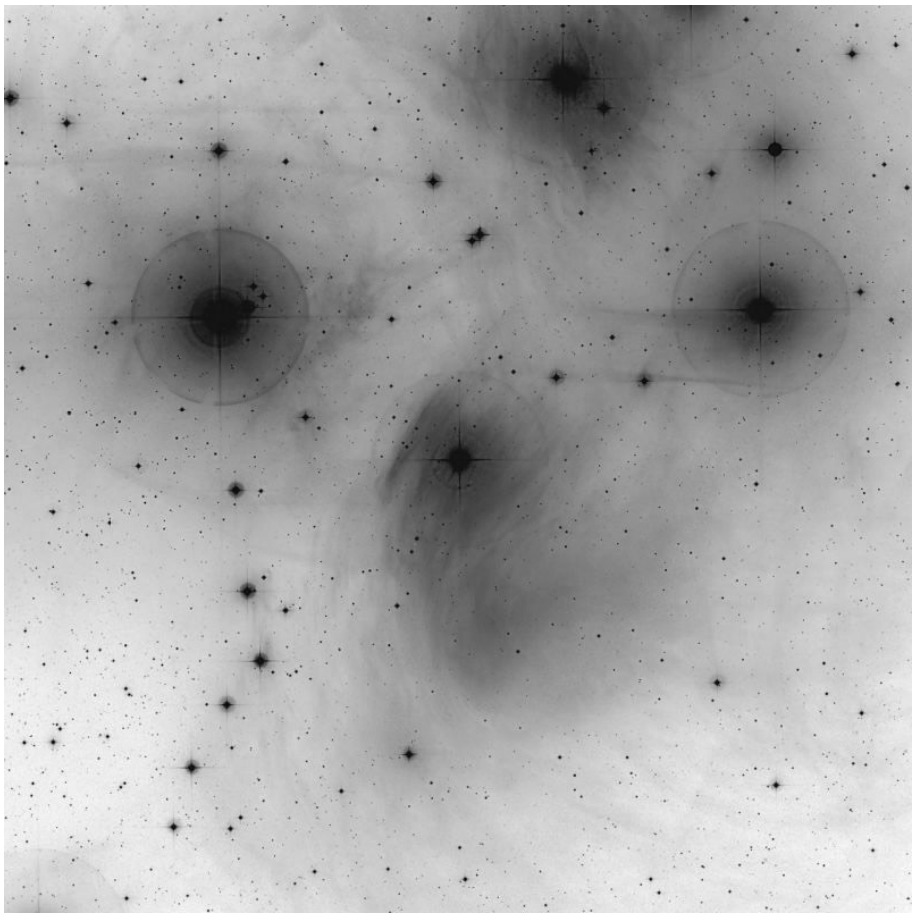


| | | |
|---|---|---|
| | | |
| Maffei 1 | 02 36 35 +59 39 19 | |

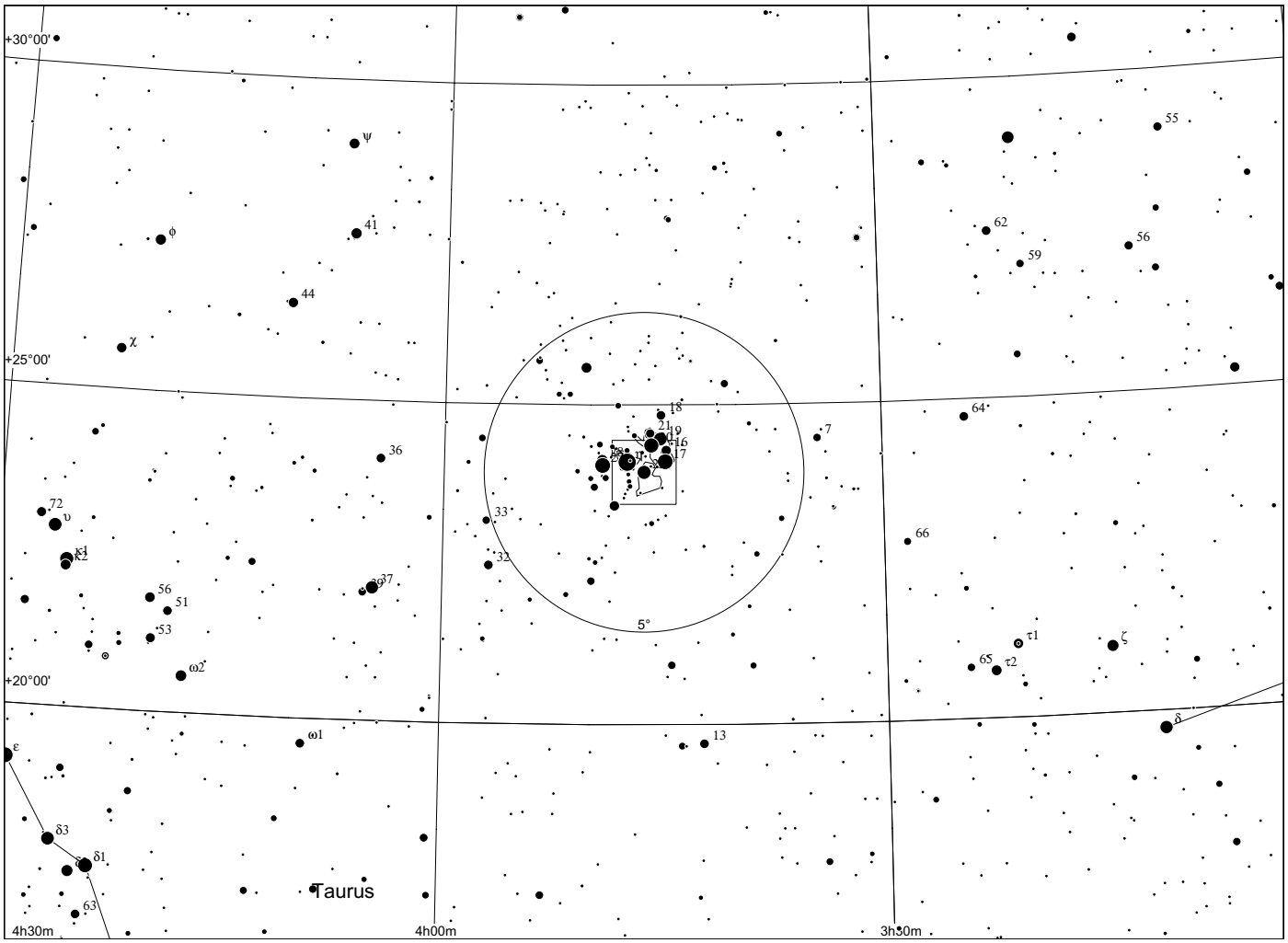

+65°00'
4h00m
1h00m
Kemble 1
Tr 3
SH2-200
Stock 5
SH2-187
+60°00'
Czernik 13
NGC 1027
Mel 15
IC 1805
NGC 663
M 103
SH2-190
vdB 14
Tombaugh 5
SH2-202
vdB 15
SH2-199
Cr 34
IC 83
IC 1848
SH2-198
Stock 2
SH2-188
Czernik 8
vdB 10
NGC 957
NGC 869
+55°00'
Tr 2
NGC 744
SH2-203
3h30m
3h00m
2h30m
2h00m
1h30m

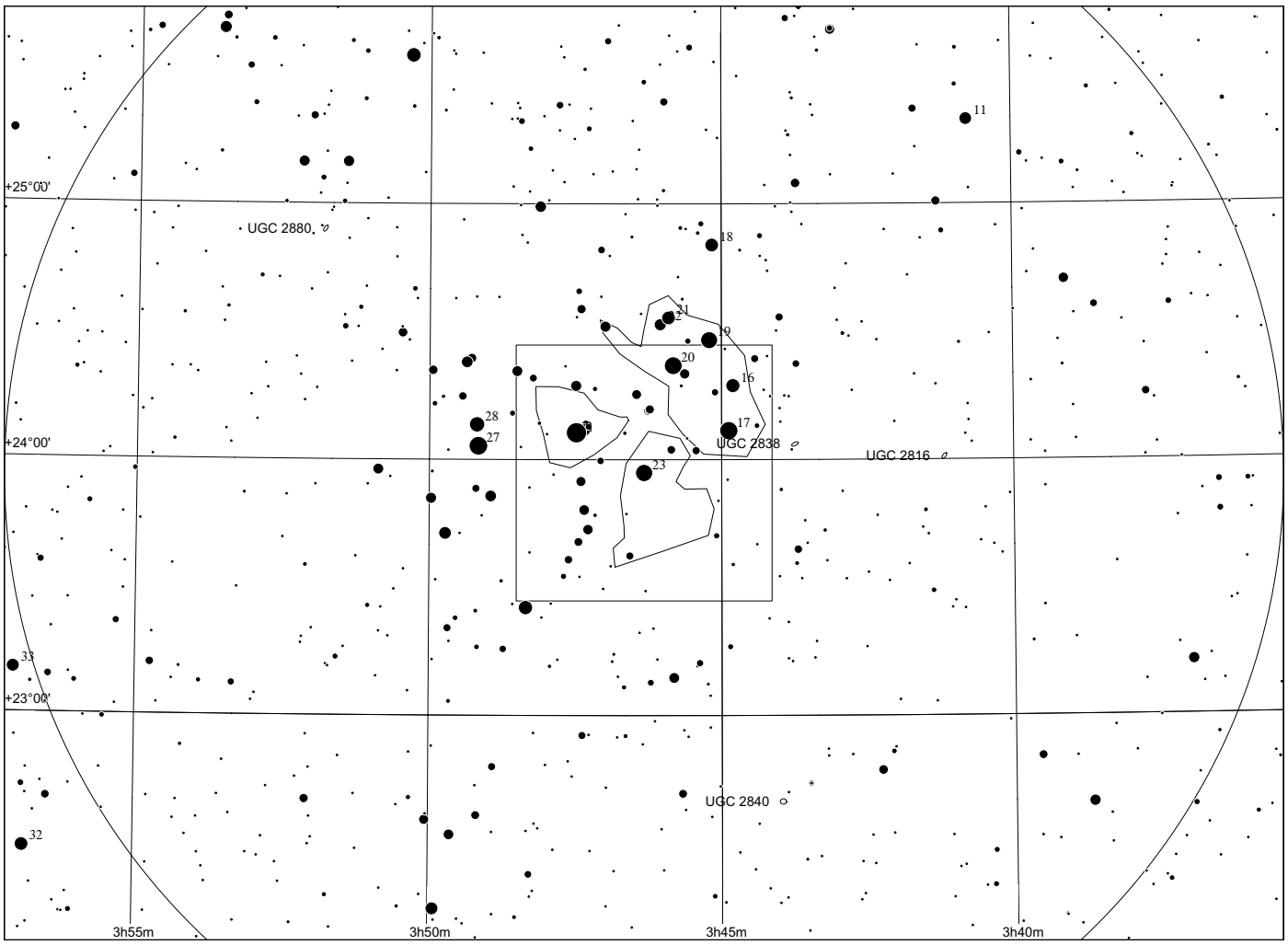

SH2-190
Mel 15
IC 1805
+61°00'
Mrk 6
IC 1848
Berk 65
Czernik 10
+60°00'
Czernik 9
SH2-198
SH2-197
SH2-195
Maffei II
Maffei I
Czernik 11
+59°00'
King 4
Czernik 8
Basel 10
+58°00'
2h55m
2h50m
2h45m
2h40m
2h35m
2h30m
2h25m
2h20m

# Merope-Nebel NGC 1435 und IC 349 in Taurus

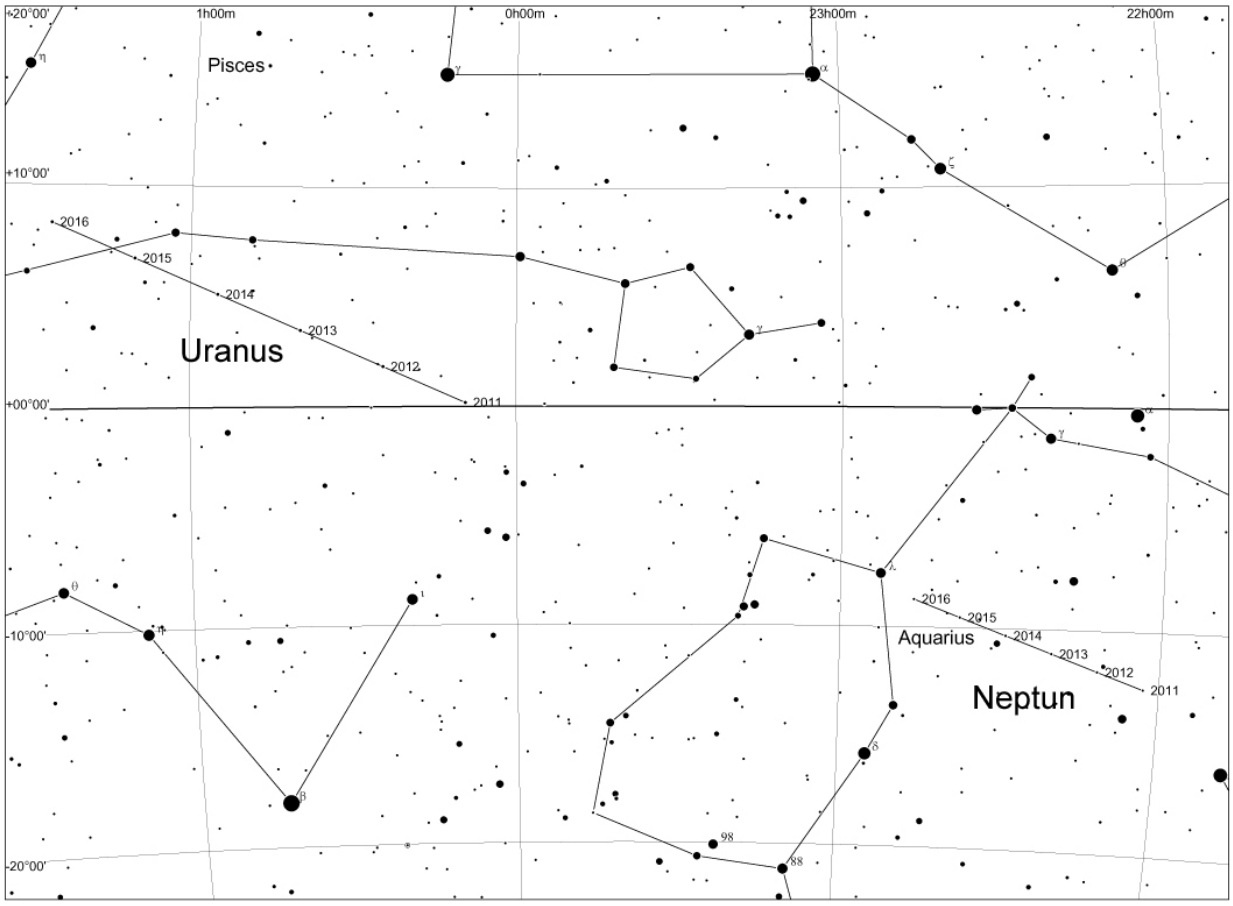


| | | |
|---|---|---|
| Merope | 03 46 19.57 +23 56 54.1 | |


+30°00'
+25°00'
+20°00'
4h30m
4h00m
3h30m
Taurus
5°


+25°00'
+24°00'
+23°00'
UGC 2880
UGC 2838
UGC 2816
UGC 2840
3h55m
3h50m
3h45m
3h40m

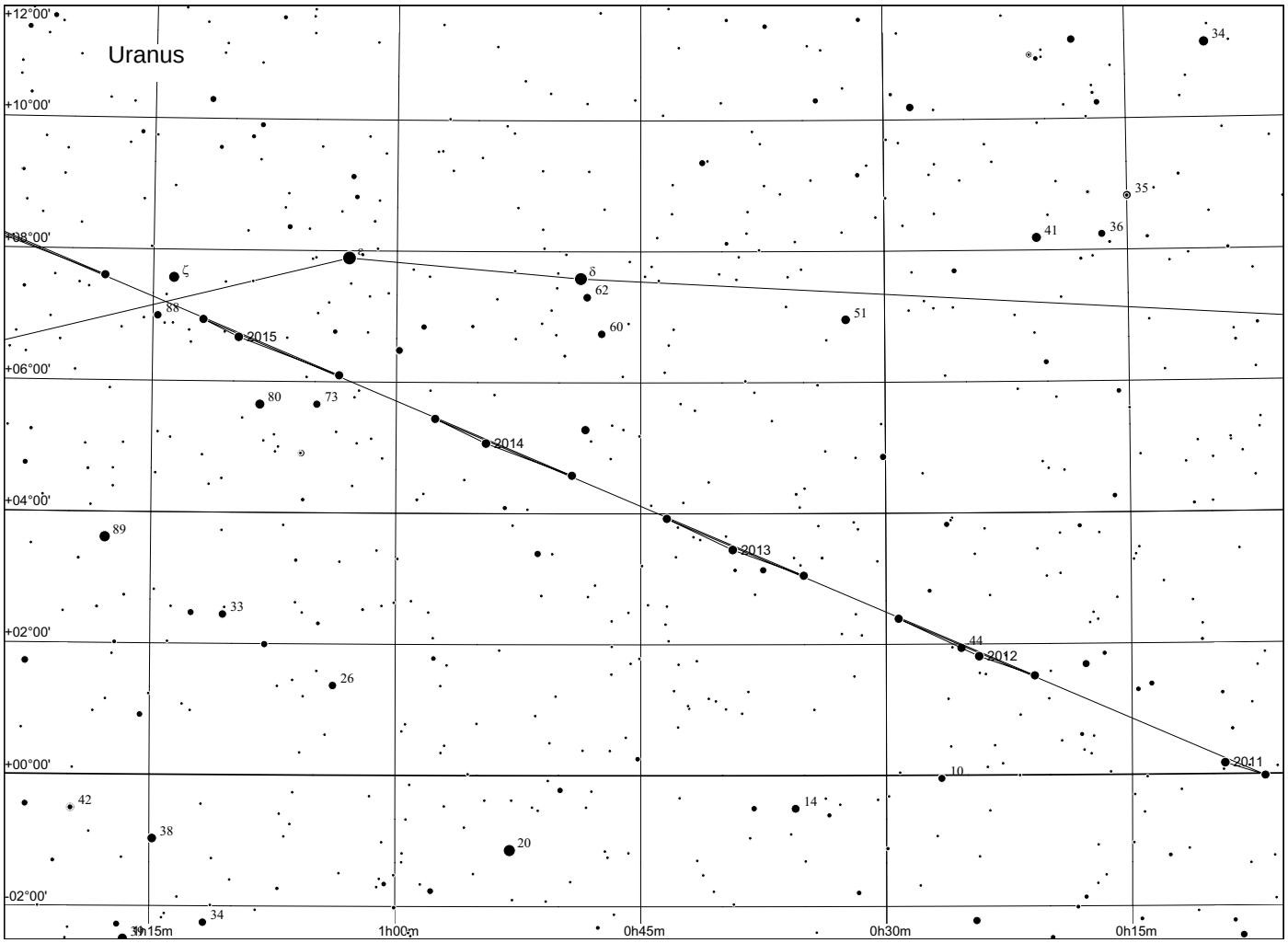
# Monde von Uranus und Neptun

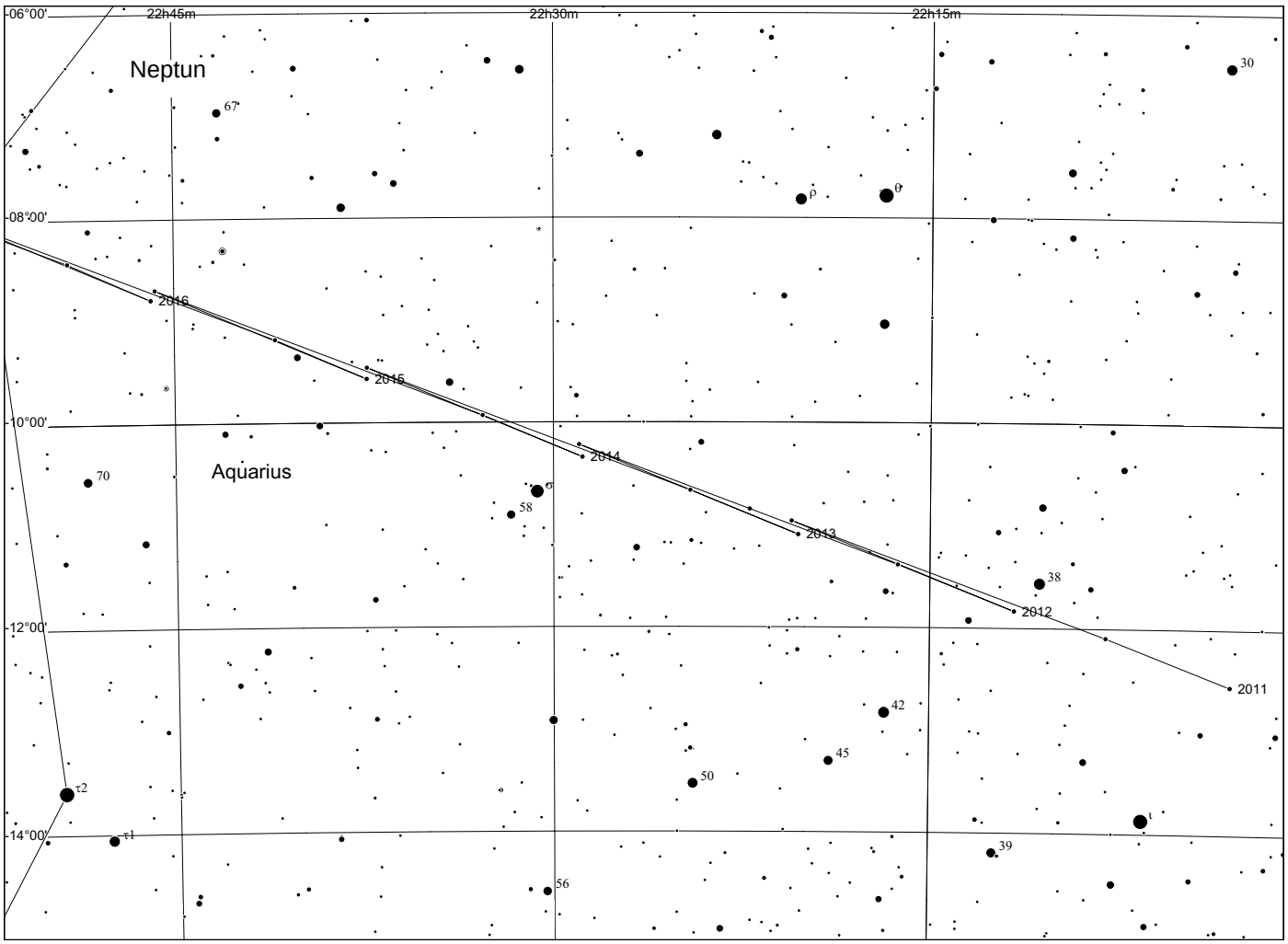



Die Positionen der Planeten sind jeweils zum 1. Oktober eines Jahres markiert.

**Uranus** hat eine maximale Helligkeit von 5m6 und einen maximalen Scheibchendurchmesser von 3.6". Die hellsten Monde sind von innen nach außen mit ihrer jeweiligen Maximalhelligkeit und Durchmesser Miranda mit 16m5 (472 km), Ariel mit 14m4 (1158 km), Umbriel mit 15m0 (1169 km), Titania mit 13m9 1578 km) und Oberon mit 14m1 (1523 km).

**Neptun** hat eine maximale Helligkeit von 7m8 und einen maximalen Scheibchendurchmesser von 2.5". Der einzige beobachtbare Mond ist Triton mit 13m4 und einem Durchmesser von 2700 km. Er umkreist Neptun in knapp 6 Tagen auf einer um 157° gegen die Ekliptik geneigte Bahn und ist aufgrund dieser Neigung immer in genügend Abstand vom Planetenscheibchen sichtbar. Aufgrund seiner Helligkeit, und seines Abstandes zur weniger hellen Neptunscheibe ist Triton somit leichter zu beobachten als die Uranusmonde.


Uranus
+12°00'
+10°00'
+08°00'
+06°00'
+04°00'
+02°00'
+00°00'
-02°00'
1h15m
1h00m
0h45m
0h30m
0h15m
2011
2012
2013
2014
2015
ζ
δ
62
60
51
88
80
73
89
33
26
42
38
34
20
14
10
44
41
36
35
34


Neptun
Aquarius
-06°00'
-08°00'
-10°00'
-12°00'
-14°00'
22h45m
22h30m
22h15m
2011
2012
2013
2014
2015
2016
ρ
θ
σ
58
70
67
30
38
42
45
50
39
56
τ2
τ1