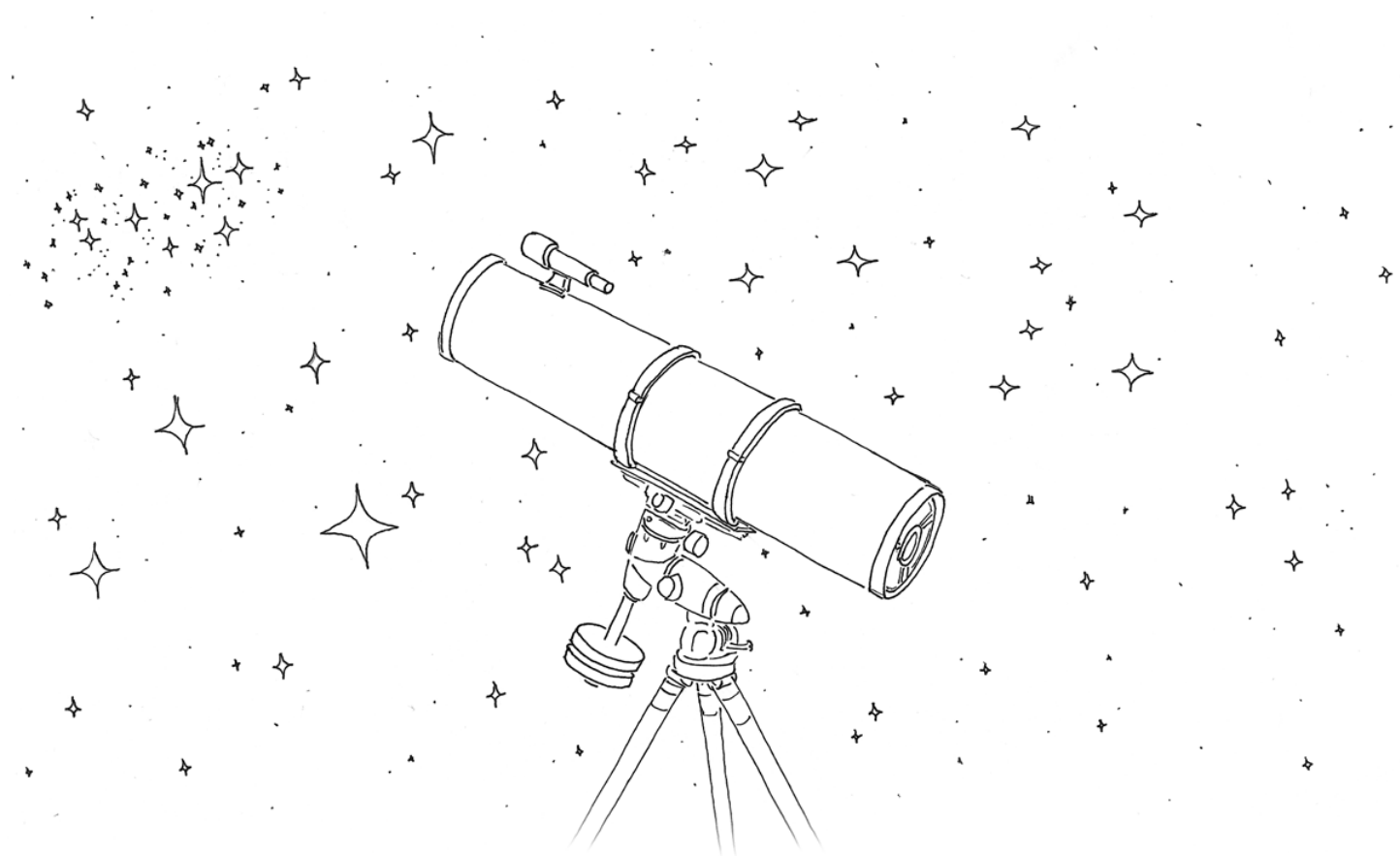


DEEP SKY HUNTER

STAR ATLAS



MICHAEL VLASOV - WWW.DEEPSKYWATCH.COM - 2013

Printable atlas of deep sky objects. 2nd release. Latest update: april 14th 2013

Plotted objects: DSO down to magnitude 14.0 and stars down to magnitude 10.2. Comprehensive manual post-editing

Select galaxy clusters and dense regions plotted in 21 separate "zoom" charts (with stars down to to 12-13m)

Indications of over 500 best deep sky objects (Messier, Caldwell, Herschel 400, SAC's best), bright & dark nebulae outlines, common names

Entire sky covered by 101 charts, 2 Index maps and 8 pages with detailed "zoom" charts. List of plotted deep sky objects available

Each chart covers 20x30° (40x30° double page spreads). Designed for A3 portrait B/W printing at 600 dpi

Source chart data was generated by "Sky Map Pro 10" software, C A Mariott © all rights reserved

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Please contact me with any questions, or if you find an inaccuracy - vlasov.michael@gmail.com

MAP KEY

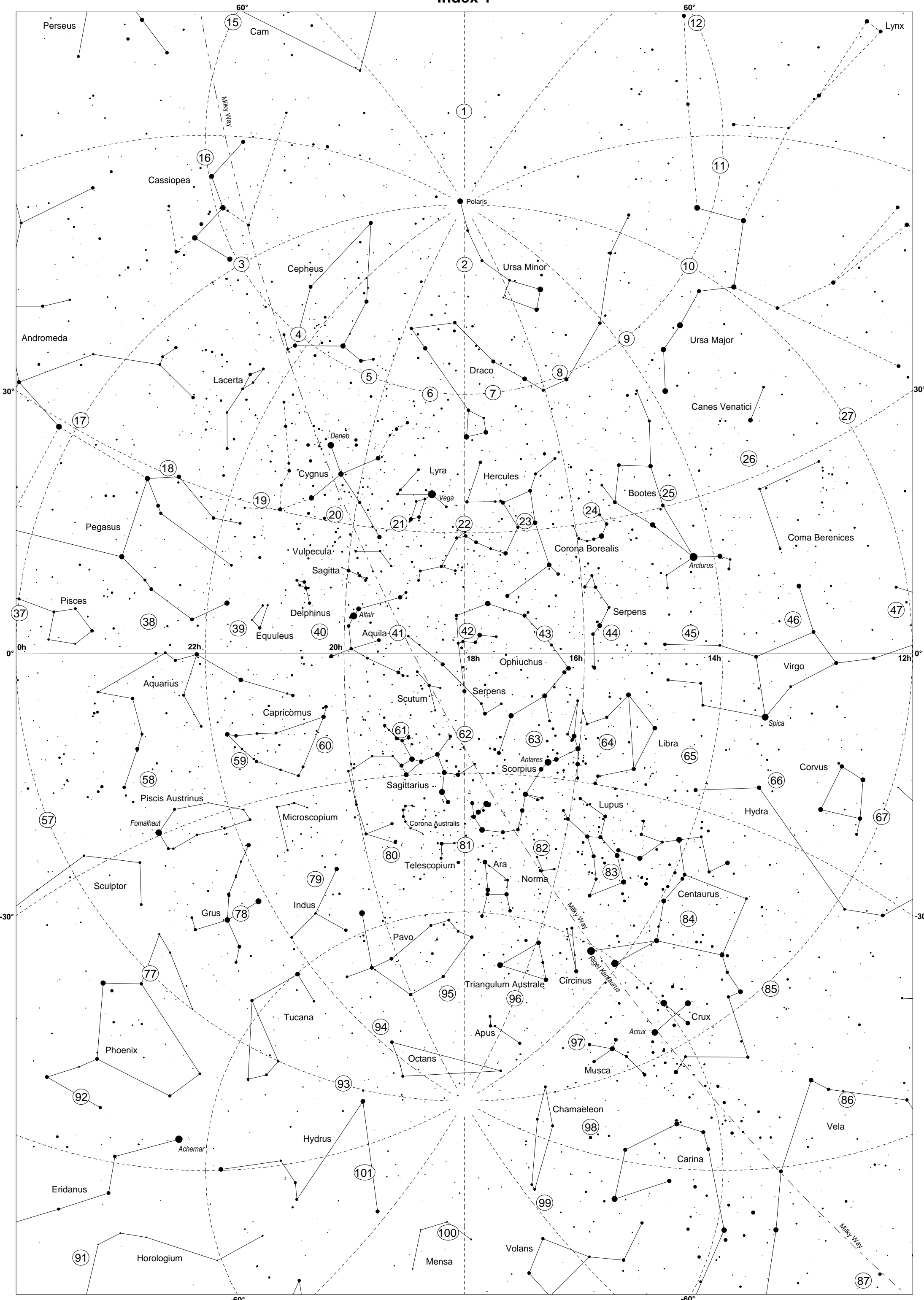
● ● ● ● ● ● ● ● ● ●
 < 0 1 2 3 4 5 6 7 8 9 10

⊠ Quasar
 ● Multiple star
 ☁ Dark nebula
 ○ Galaxy
 ◻ Bright nebula

○ Galaxy cluster / other
 ⊕ Globular cluster
 ⊙ Open cluster
 ⊕ Planetary nebula
 4984 NGC catalog number

IC 3799 Other catalog number
 * Best DSO indication - object belongs to:
 Messier / Caldwell / Herschel 400 / SAC's best
 46 Next neighbour page reference
 chart A17 Detailed "zoom" chart reference

Index 1



Index 2

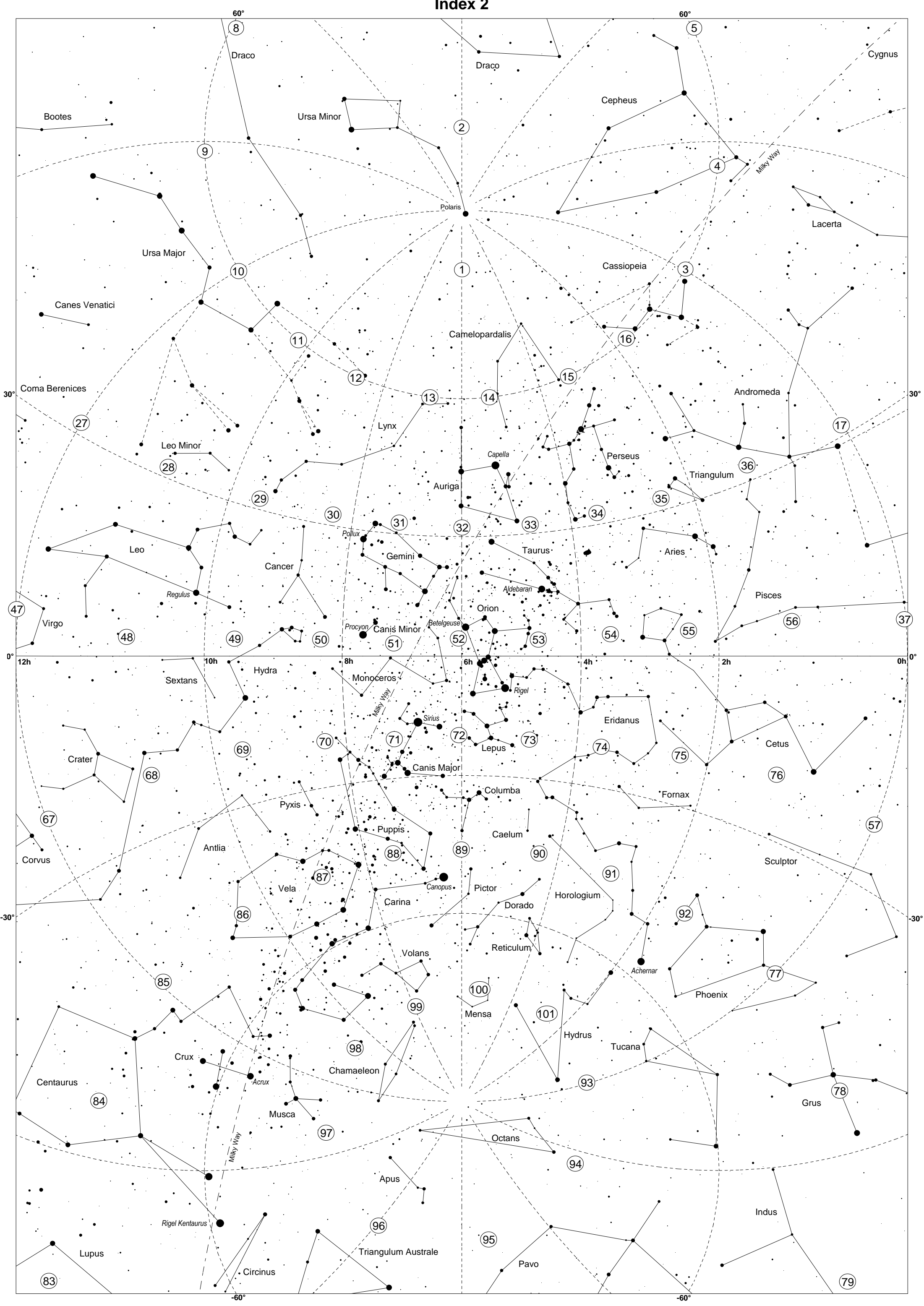
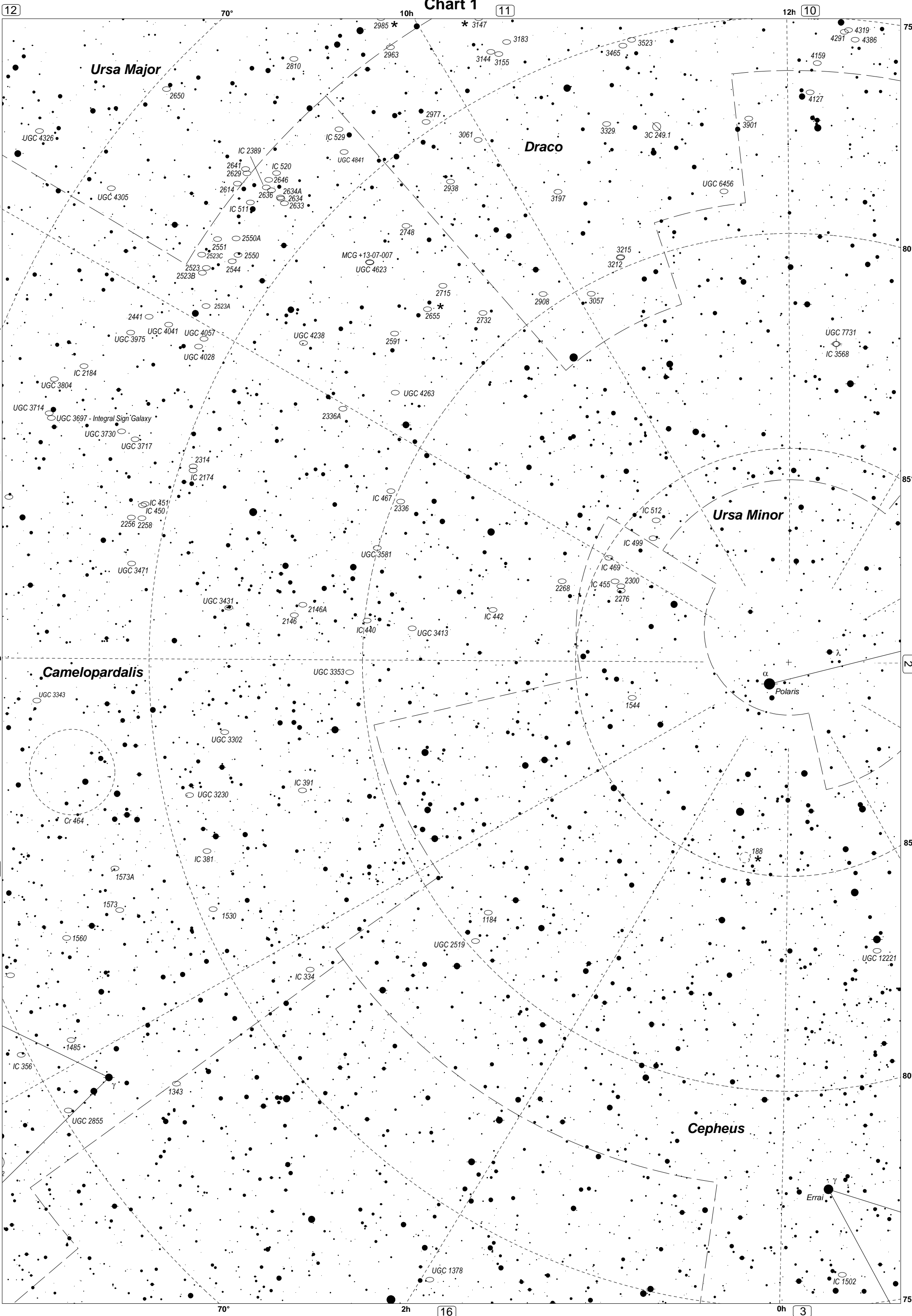


Chart 1



Ursa Major

Draco

Ursa Minor

Camelopardalis

Cepheus

Polaris

Errai

12

11

10

13

2

14

85°

15

75°

70°

10h

12h

8h

70°

6h

4h

70°

2h

0h

16

3

Chart 2

10

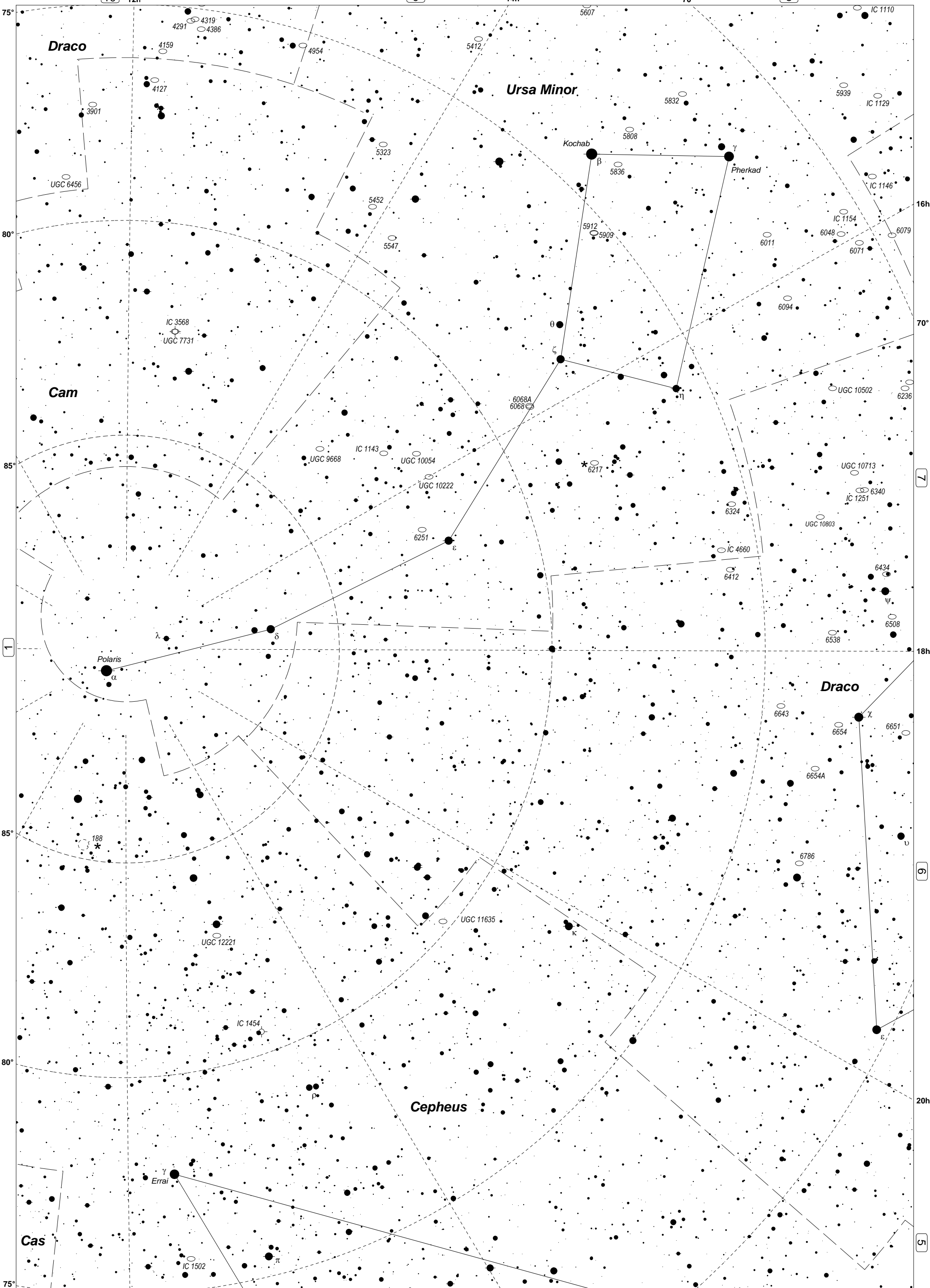
12h

9

14h

8

70°



75°
80°
85°
85°
80°
75°

16h
70°
18h
6
5

3

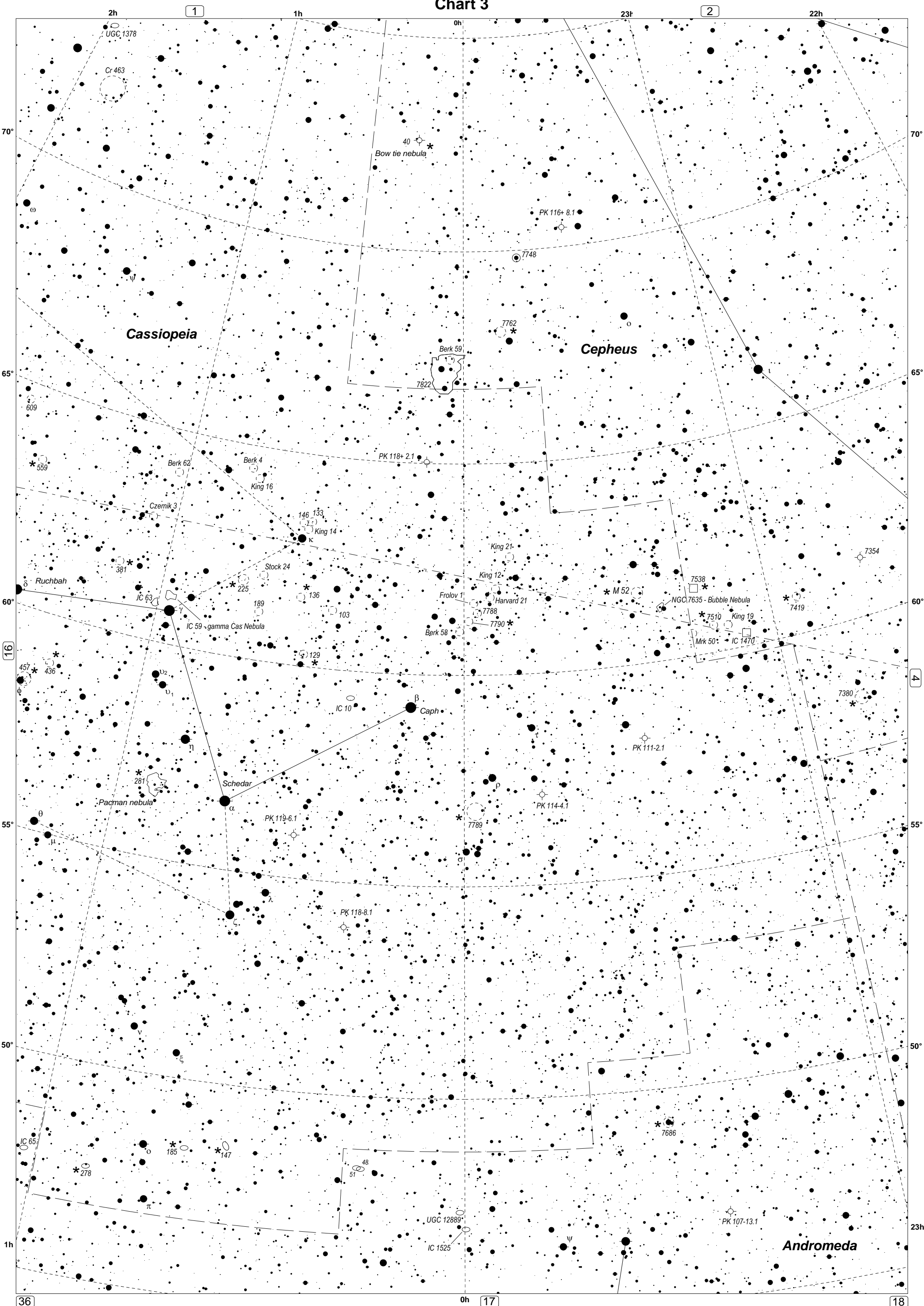
0h

4

22h

70°

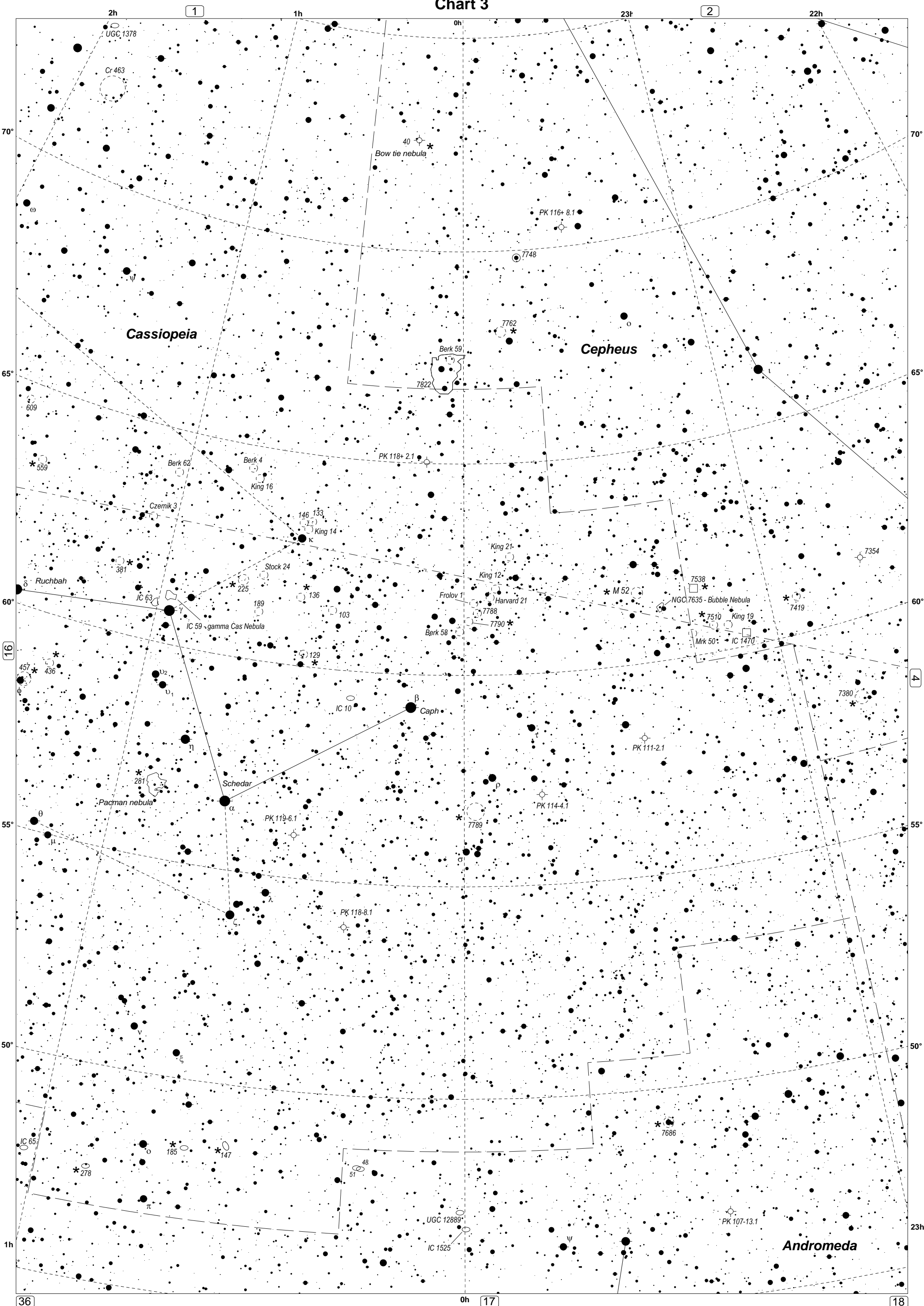
Chart 3



Cassiopeia

Cepheus

Andromeda



Cassiopeia

Cepheus

Andromeda

1

2

36

17

18

Chart 4

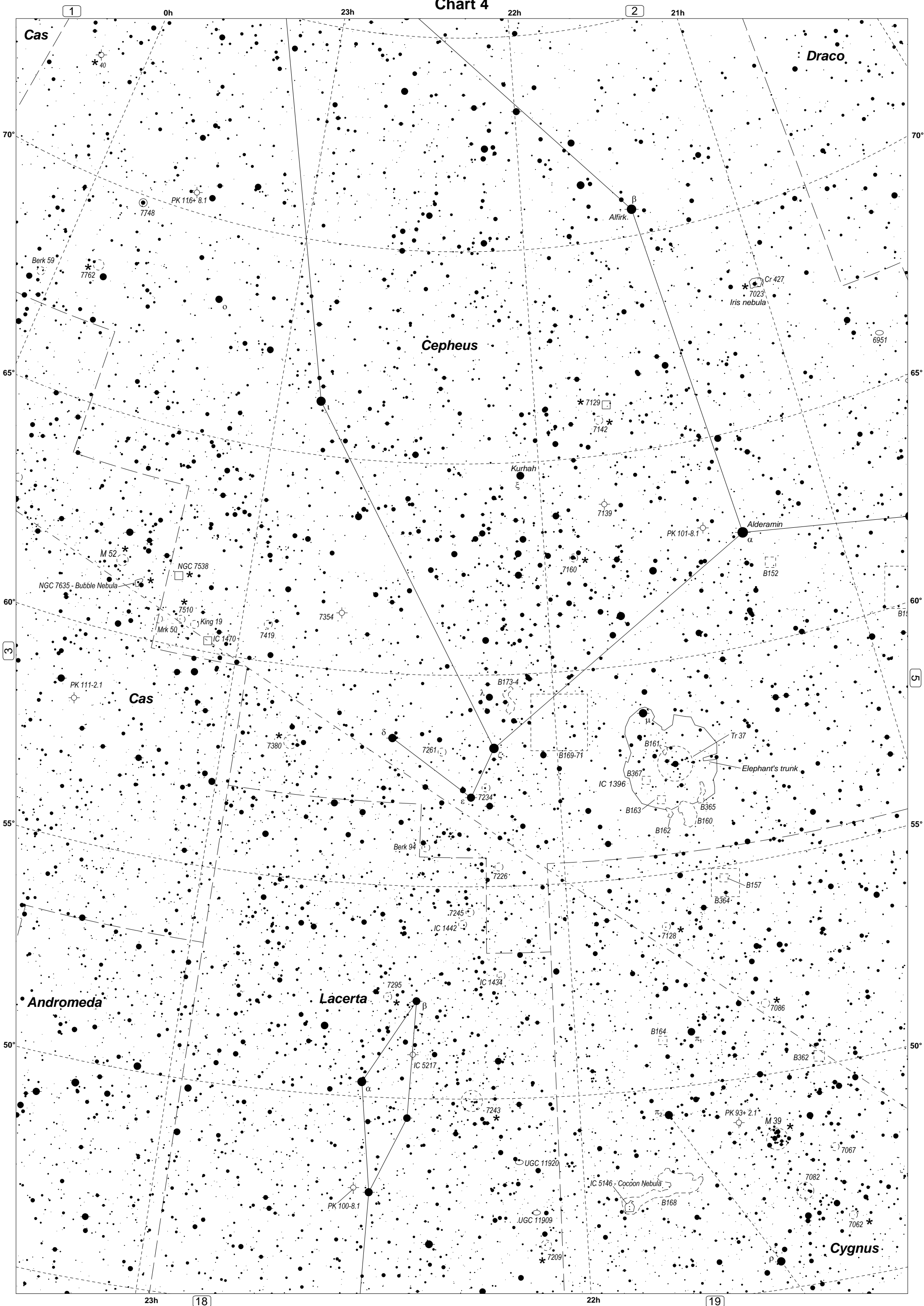
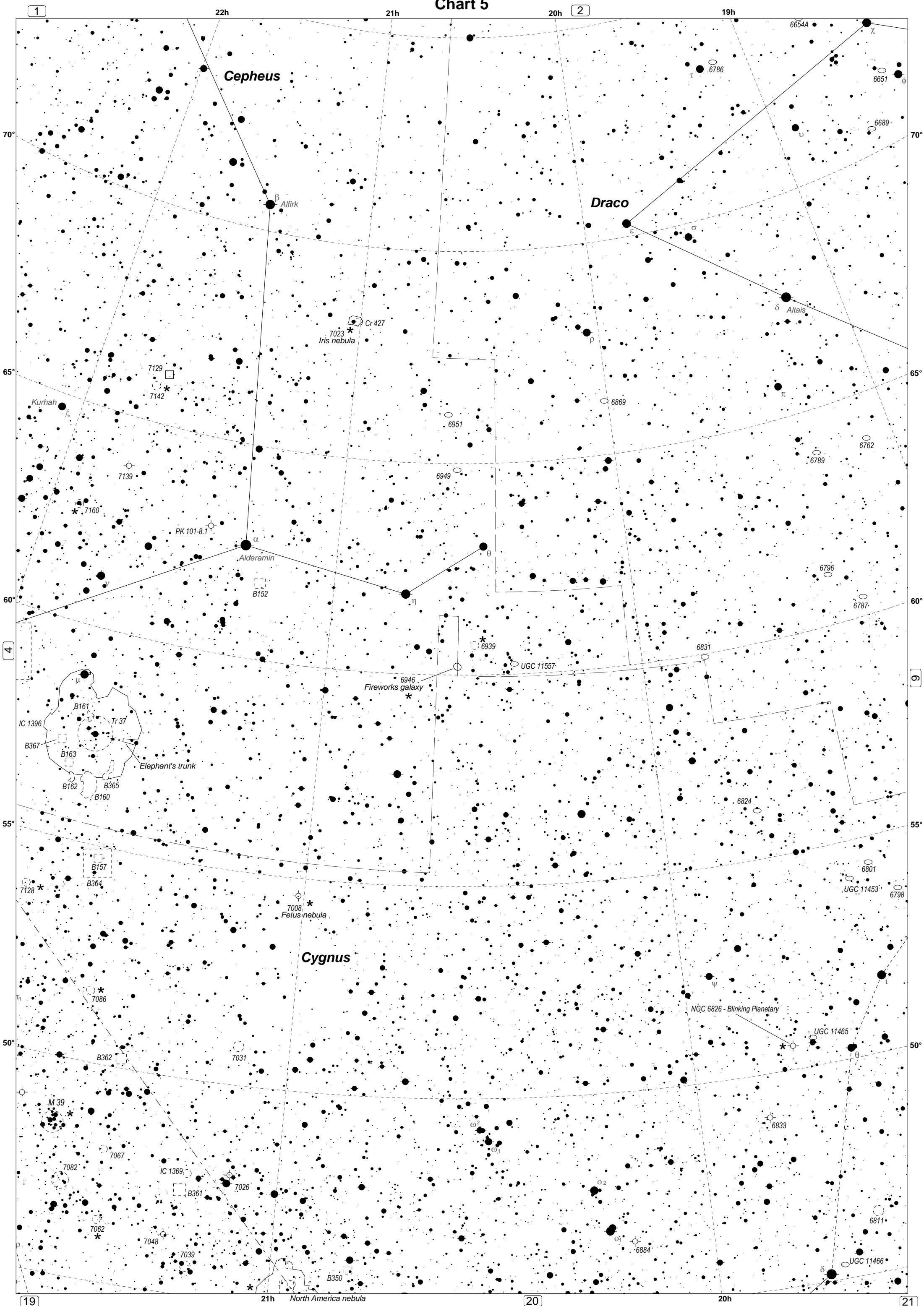


Chart 5



Cepheus

Draco

Cygnus

β Alfirk

δ Altair

α Alderamin

Cr 427

7023 Iris nebula

6946 Fireworks galaxy

Elephant's trunk

7008 Fetus nebula

NGC 6826 - Blinking Planetary

21h North America nebula

1

2

4

9

19

20

21

22h

21h

20h

19h

70°

70°

65°

65°

60°

60°

55°

55°

50°

50°

6654A

6786

6651

6689

7023

7129

7142

Kurahah

7139

7160

PK 101-8.1

B152

6951

6949

6869

6789

6762

6796

6787

6939

UGC 11557

6831

IC 1396

B161

Tr 37

B367

B163

B162

B365

B160

7128

B364

B157

6801

UGC 11453

6798

7086

7031

UGC 11465

0

M 39

7082

7067

7062

7048

7039

IC 1369

B361

7026

B350

ω²

ω₁

o₂

o₁

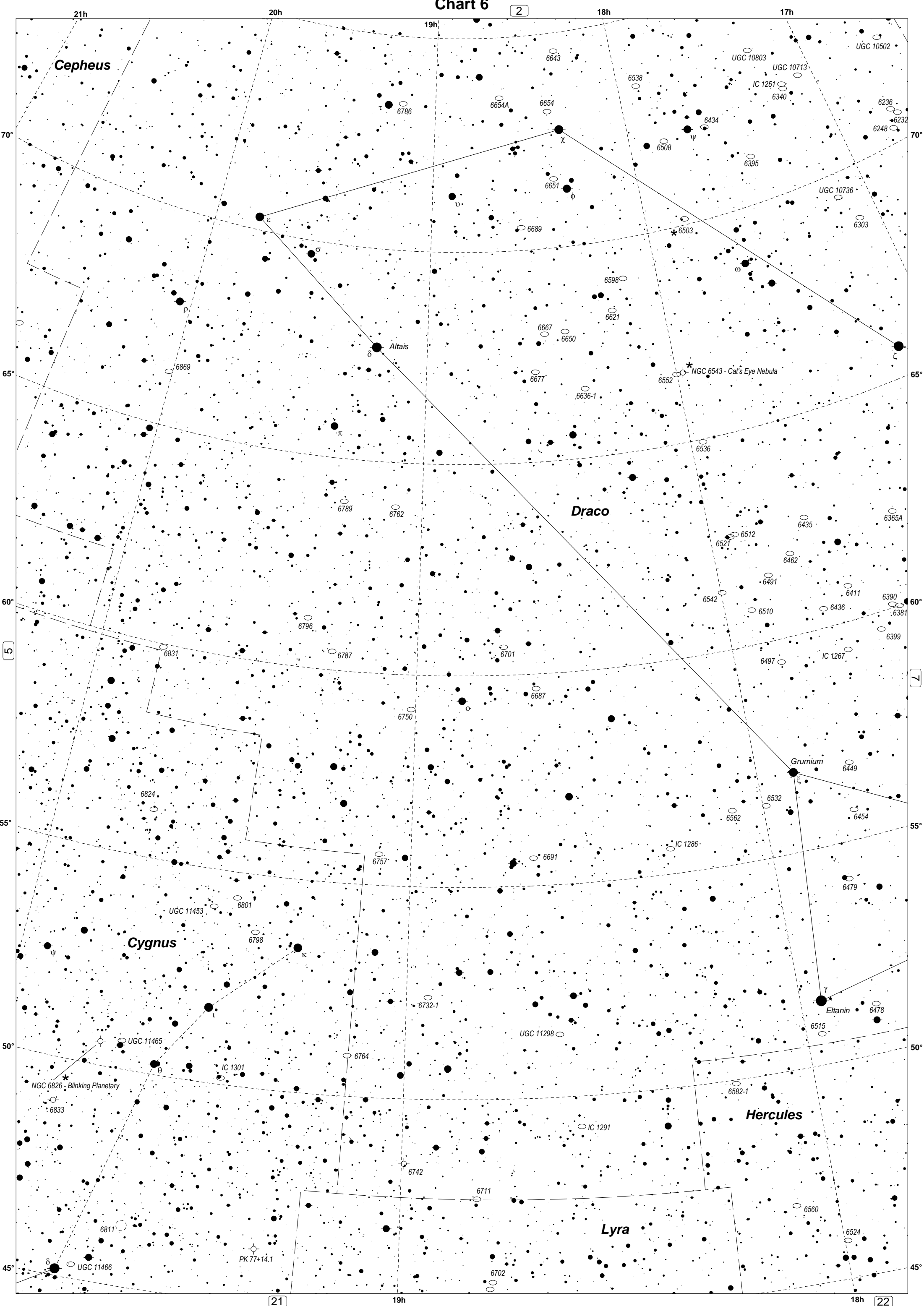
6884

6833

6811

UGC 11466

δ



Cepheus

Draco

Cygnus

Hercules

Lyra

Altair

Grumium

Eltanin

NGC 6543 - Cat's Eye Nebula

NGC 6826 - Blinking Planetary

PK 77+14.1

21h

20h

19h

18h

17h

70°

70°

65°

65°

60°

60°

55°

55°

50°

50°

45°

45°

21

19h

18h

22

Chart 7

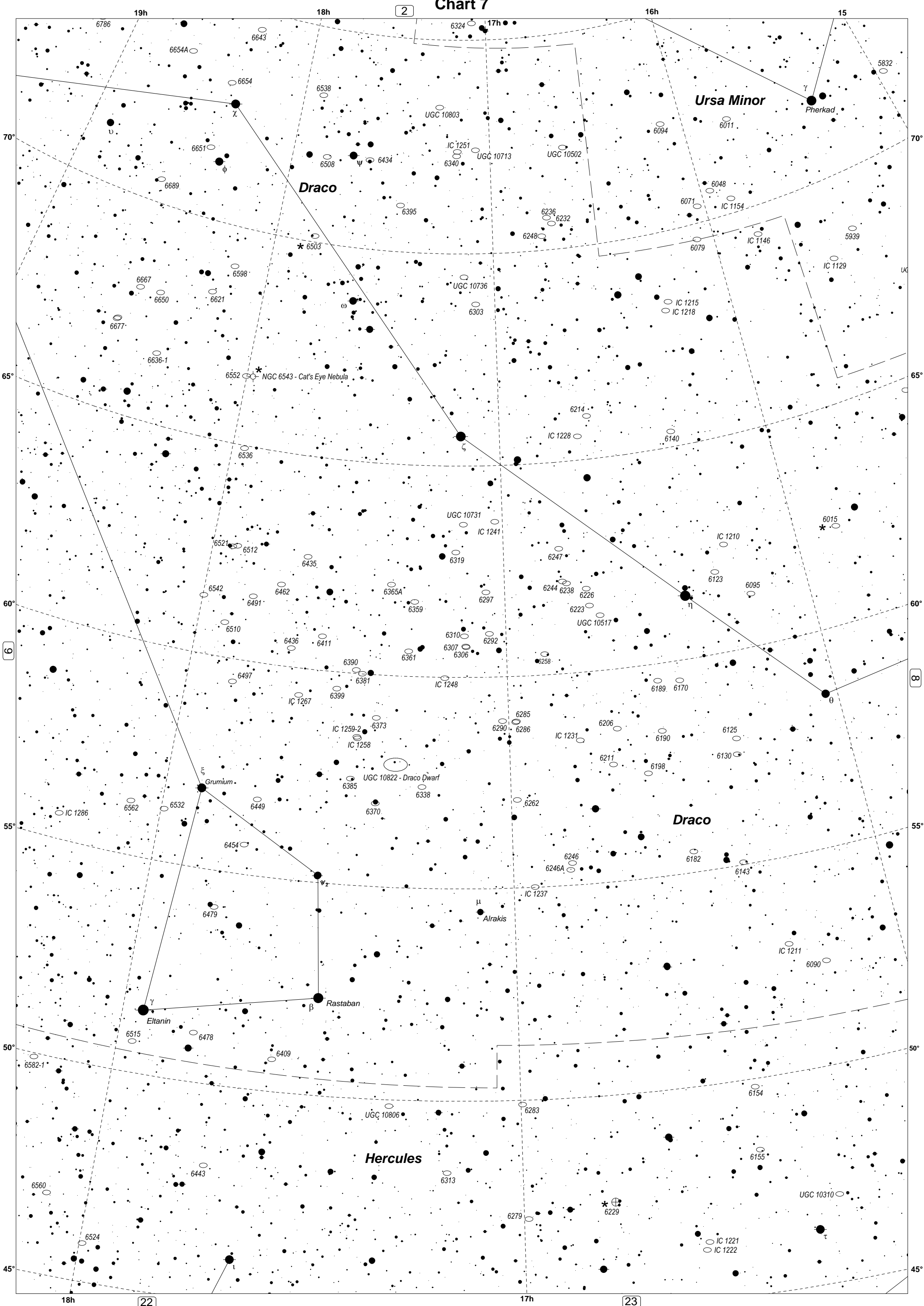


Chart 8

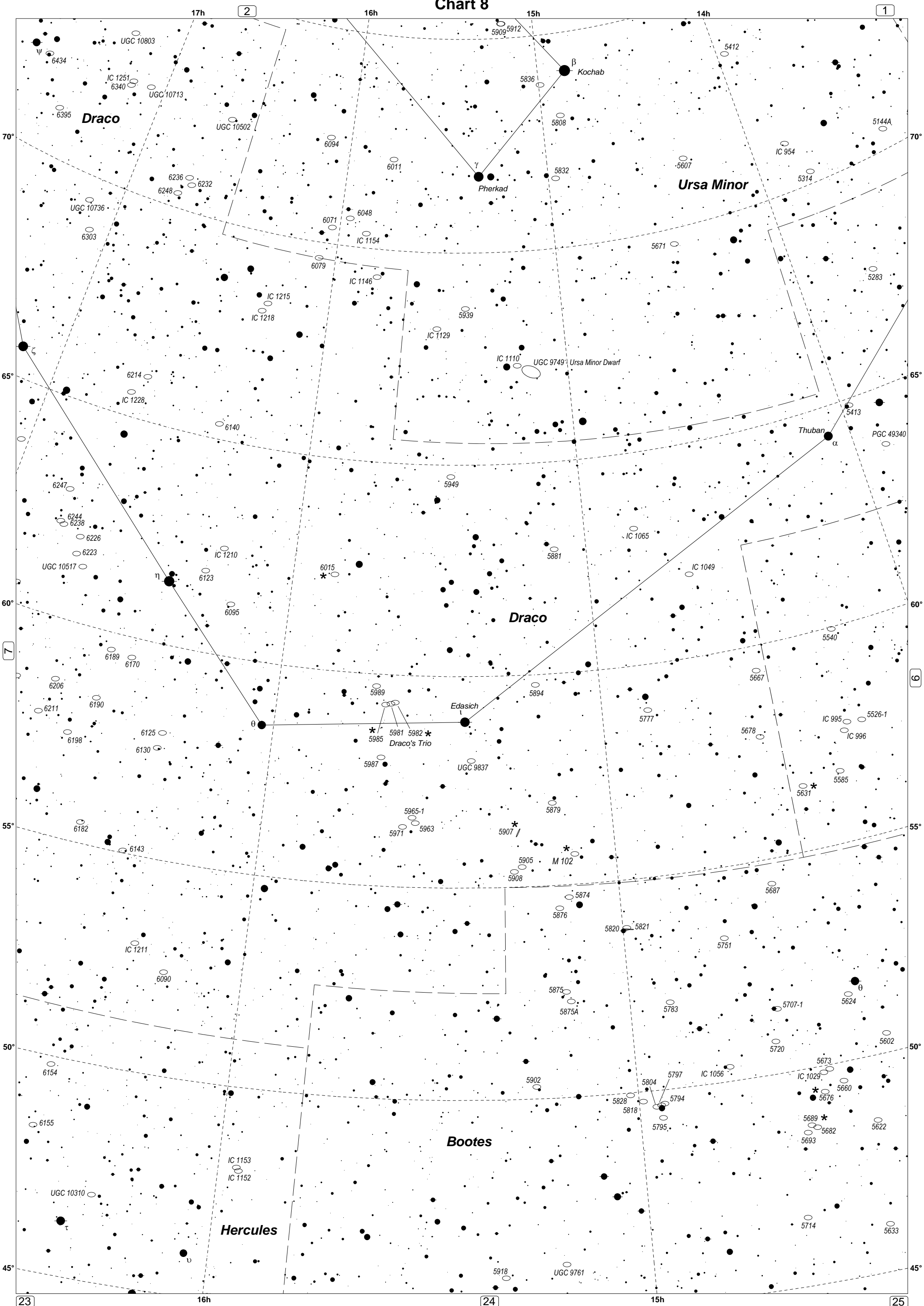


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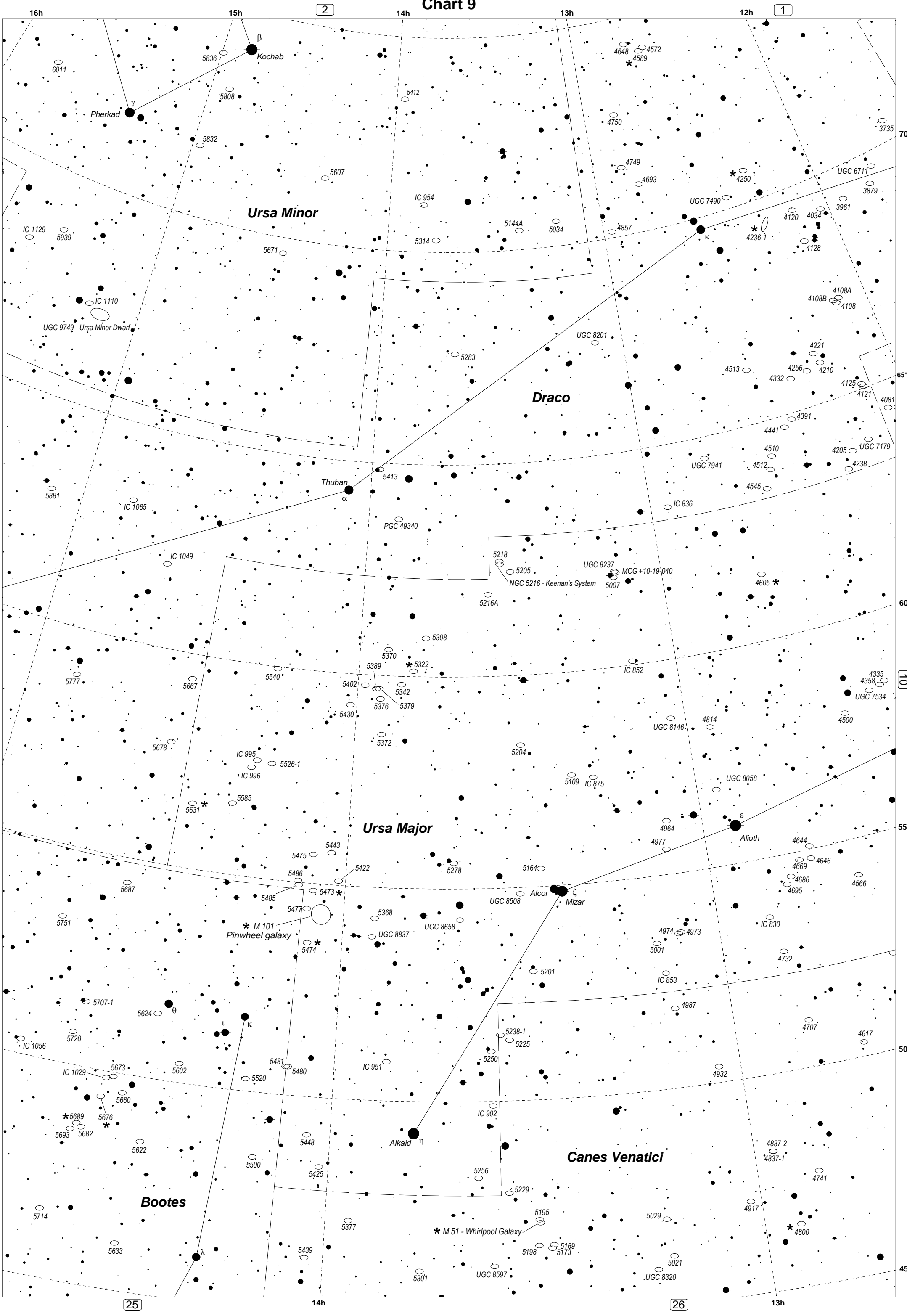


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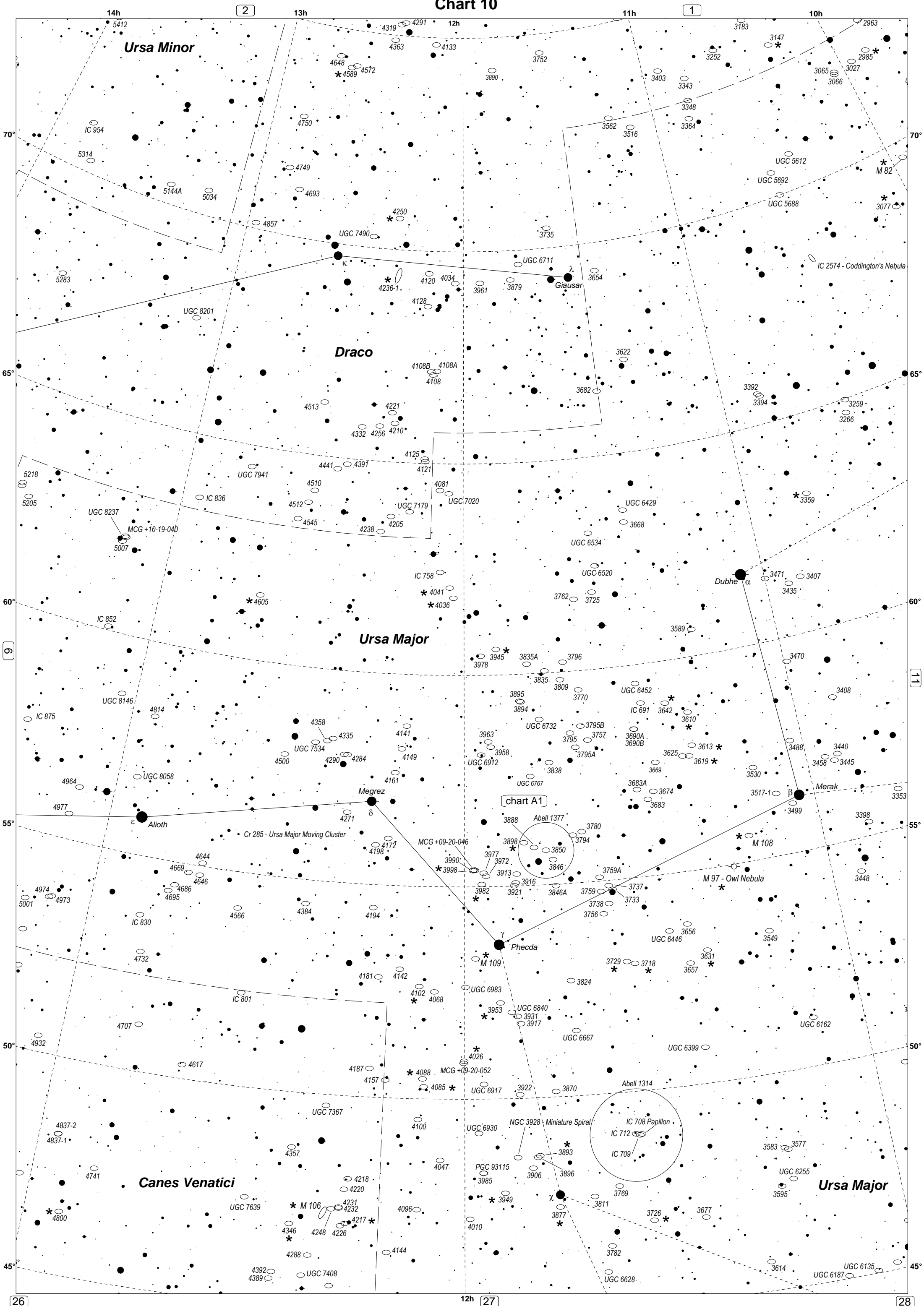


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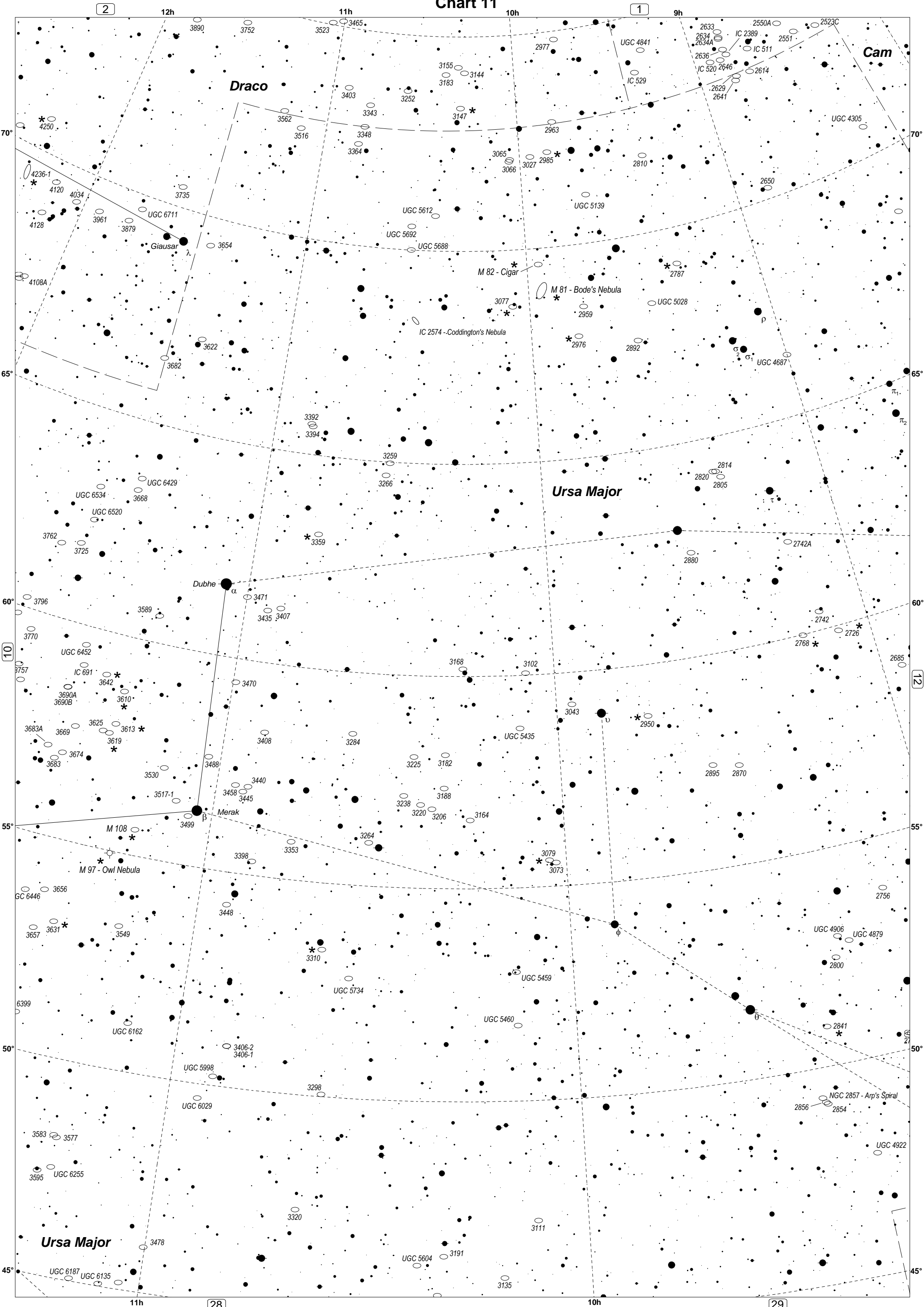
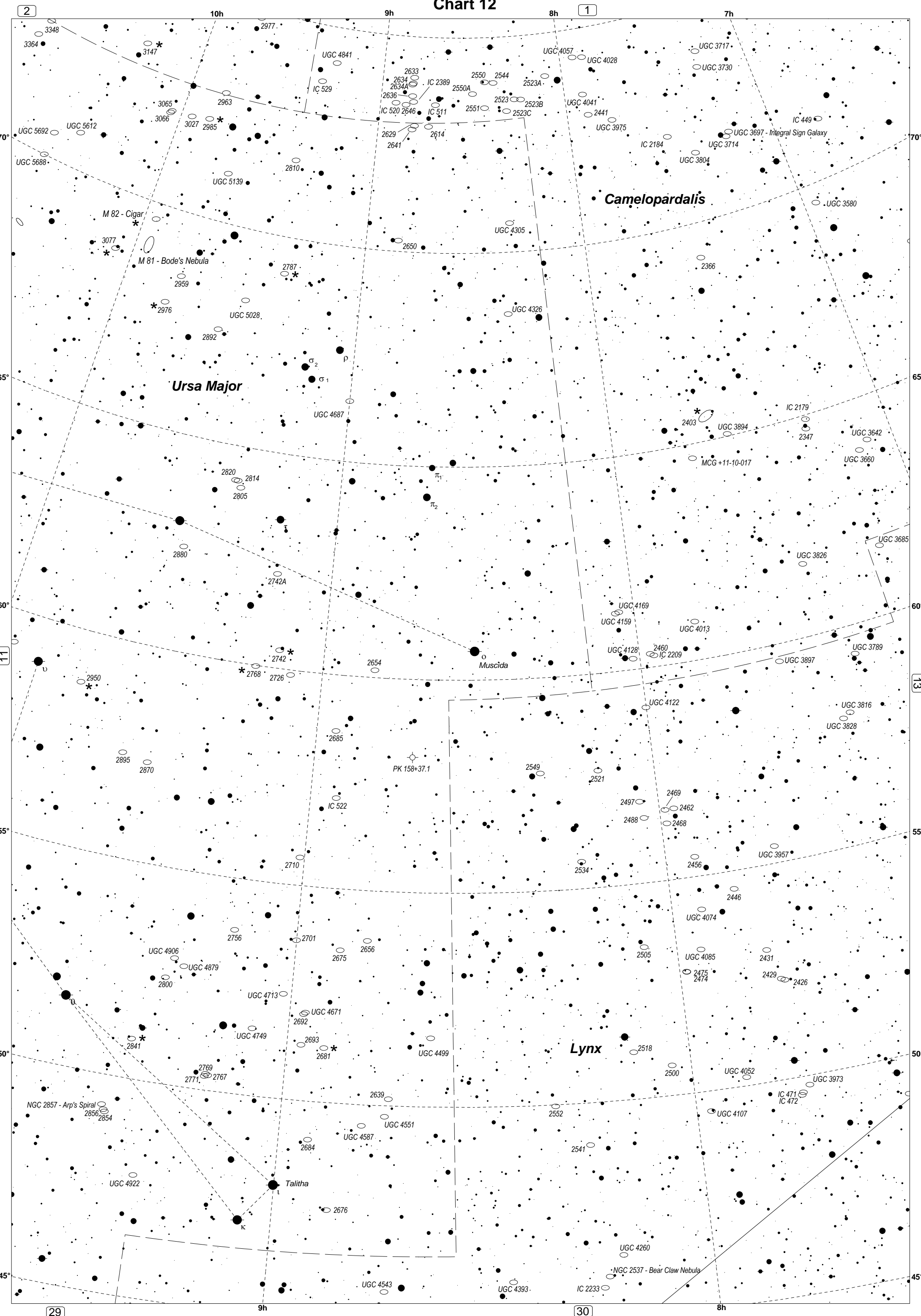
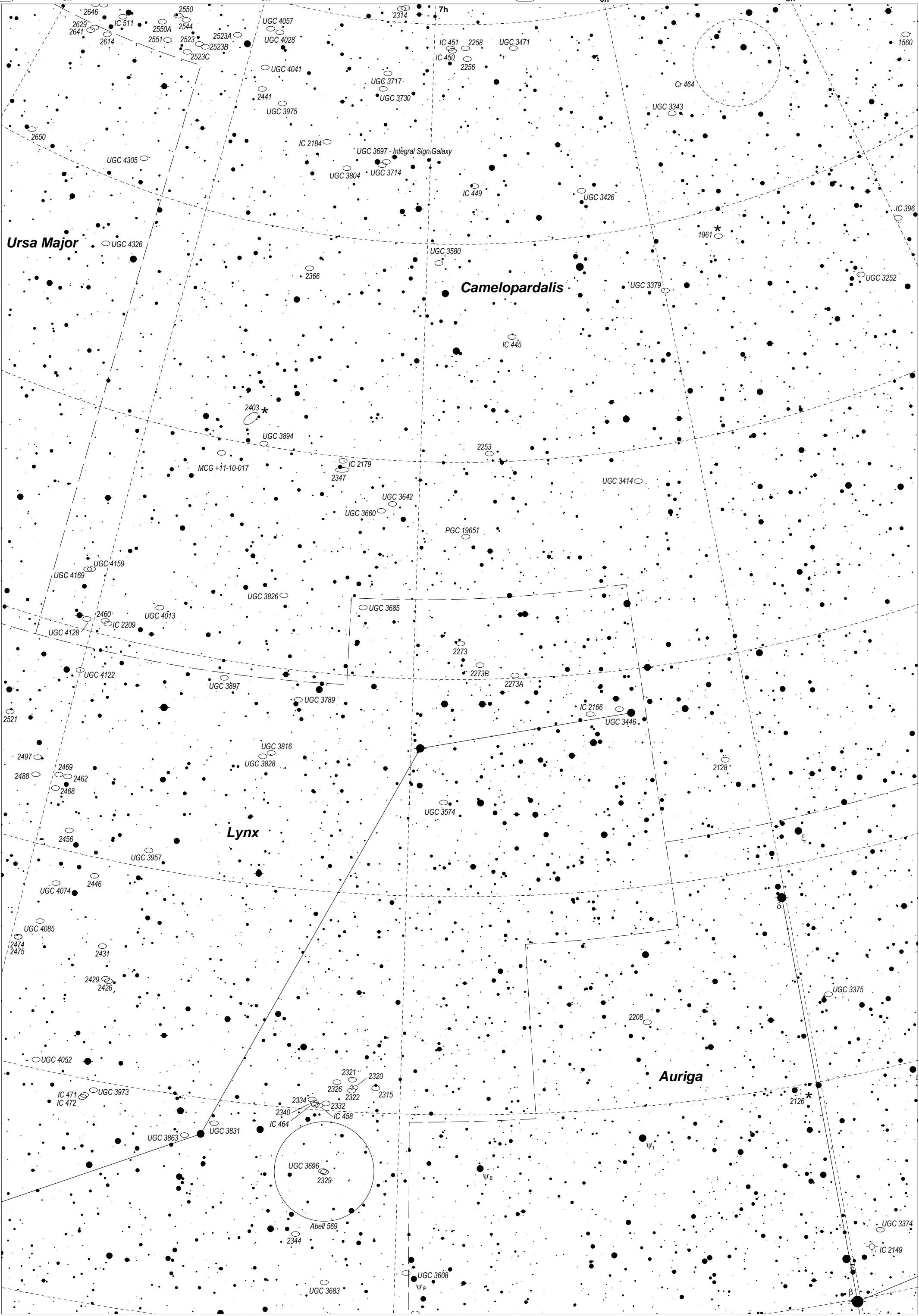


Chart 12





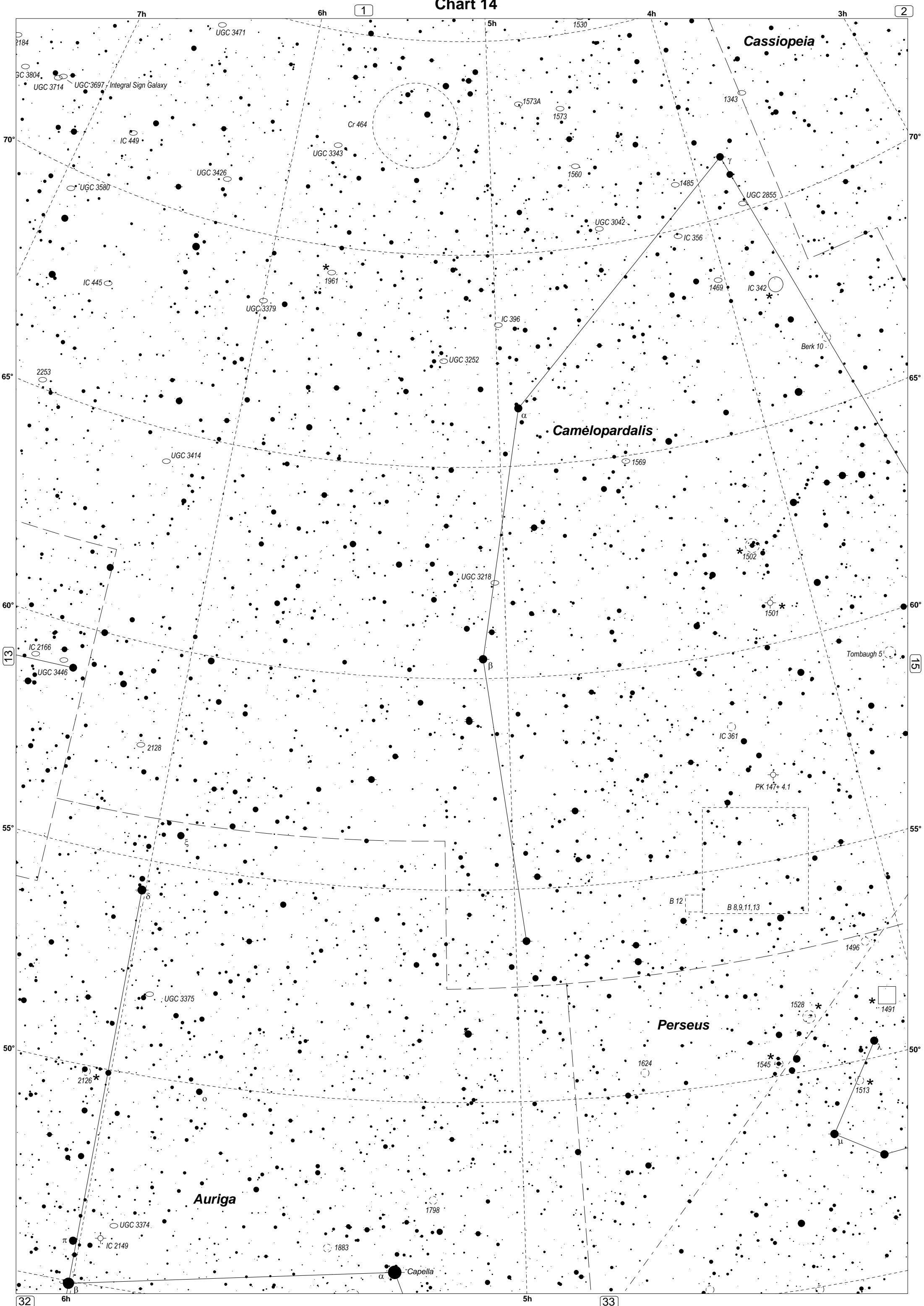
Ursa Major

Camelopardalis

Lynx

Auriga

Chart 14



Cassiopeia

Camelopardalis

Perseus

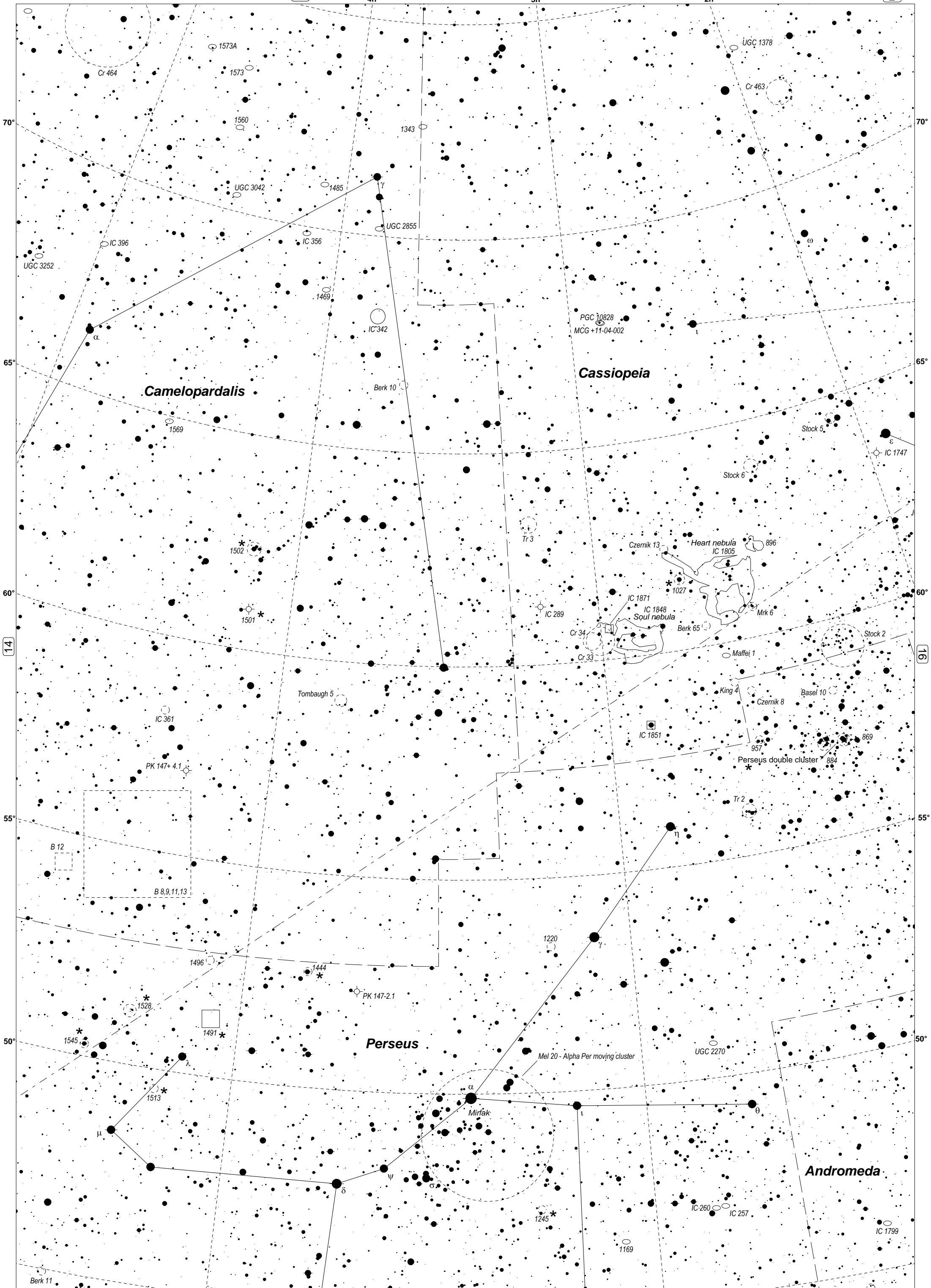
Auriga

Capella

Integral Sign Galaxy

Cr 464

2184
GC 3804
UGC 3714
UGC 3697
IC 449
UGC 3580
IC 445
2253
UGC 3414
IC 2166
UGC 3446
2128
UGC 3375
2126
UGC 3374
IC 2149
π
β
1883
1798
α
1530
1573A
1573
1560
UGC 3042
IC 356
1485
1469
IC 342
1343
UGC 2855
Berk 10
1502
1501
PK 147+ 4.1
IC 361
B 12
B 8,9,11,13
1496
1528
1545
1513
λ
μ
1491
Tombaugh 5
1961
UGC 3343
UGC 3379
IC 396
UGC 3252
UGC 3218
1569
1624

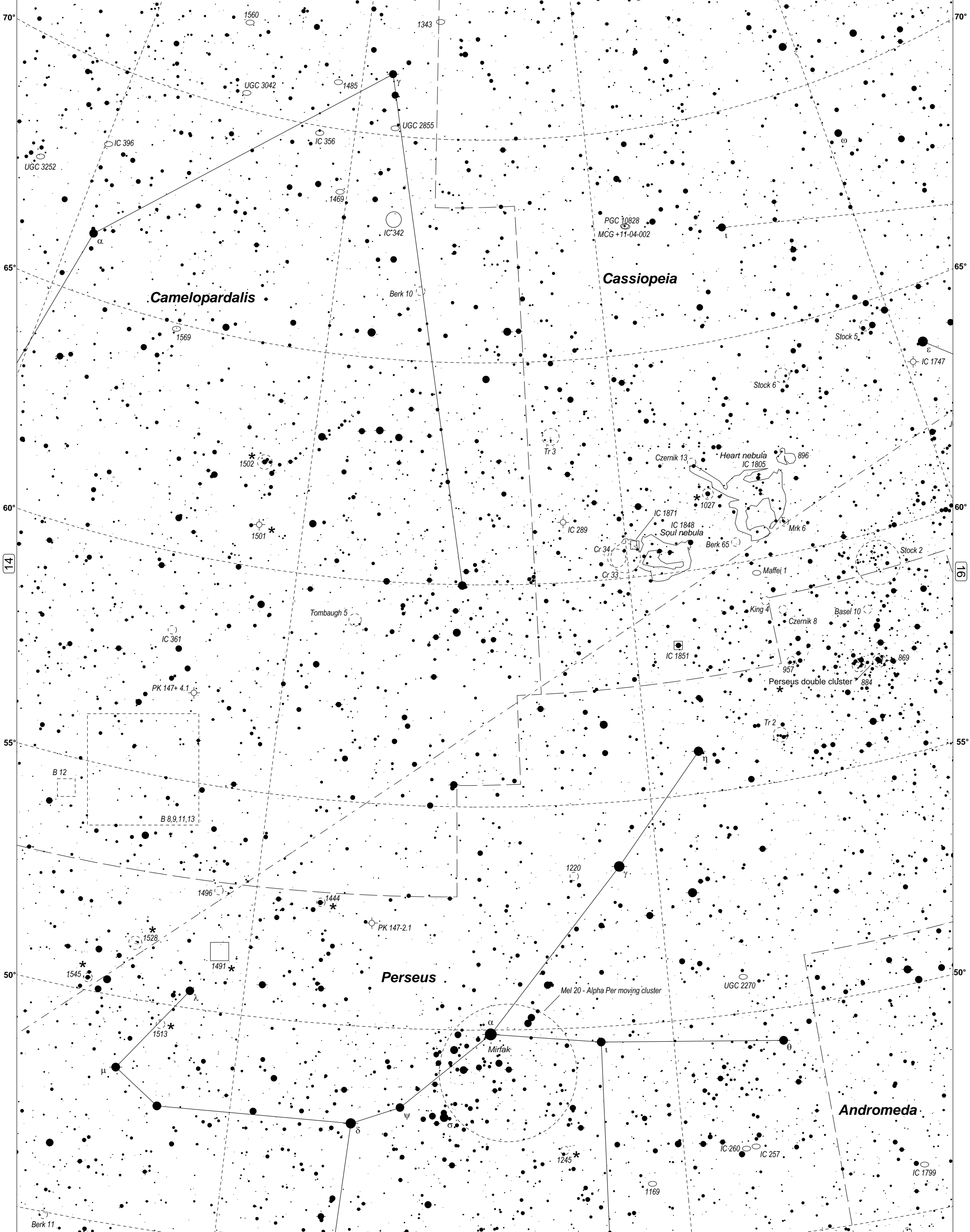


Camelopardalis

Cassiopeia

Perseus

Andromeda

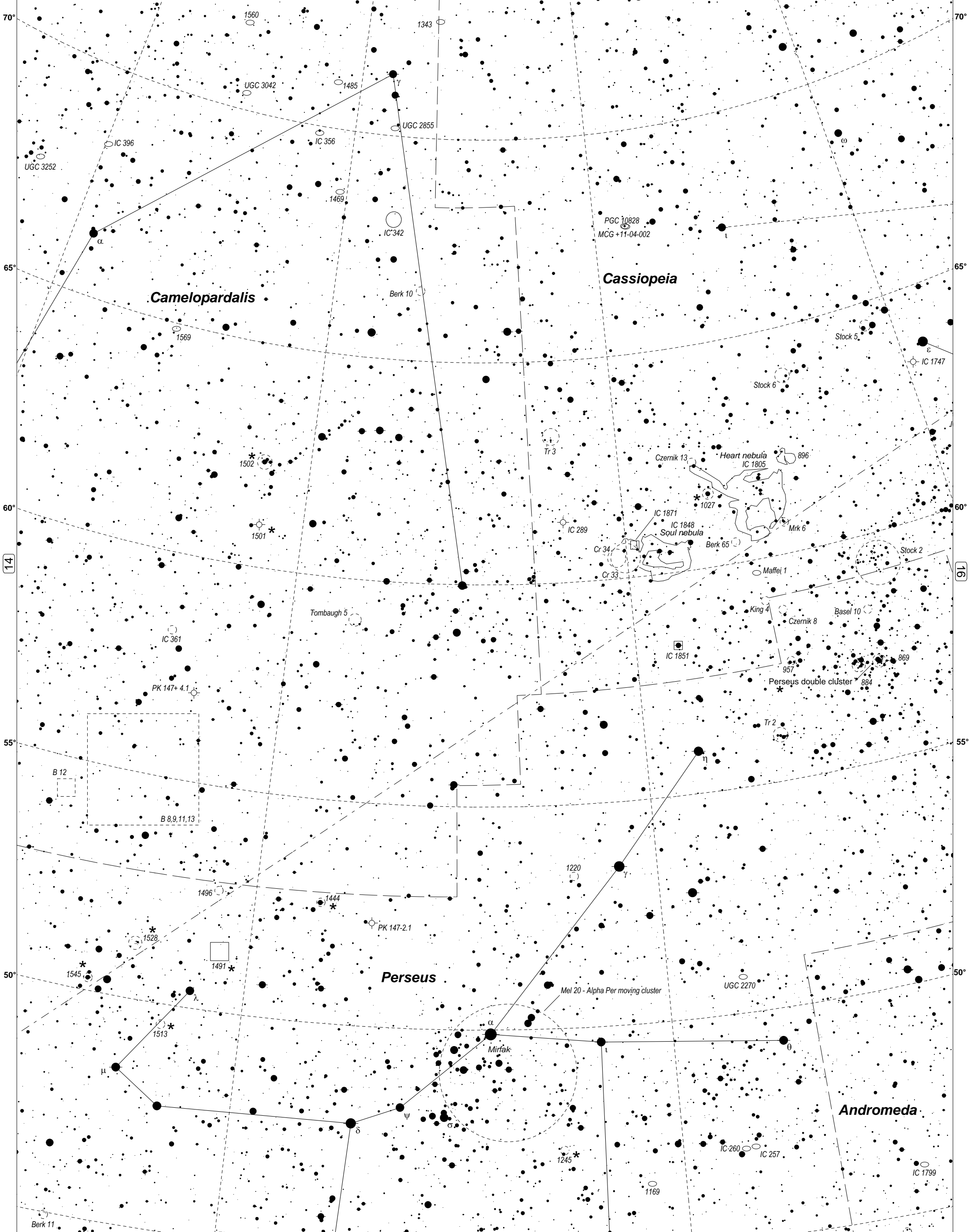


Camelopardalis

Cassiopeia

Perseus

Andromeda



Camelopardalis

Cassiopeia

Perseus

Andromeda

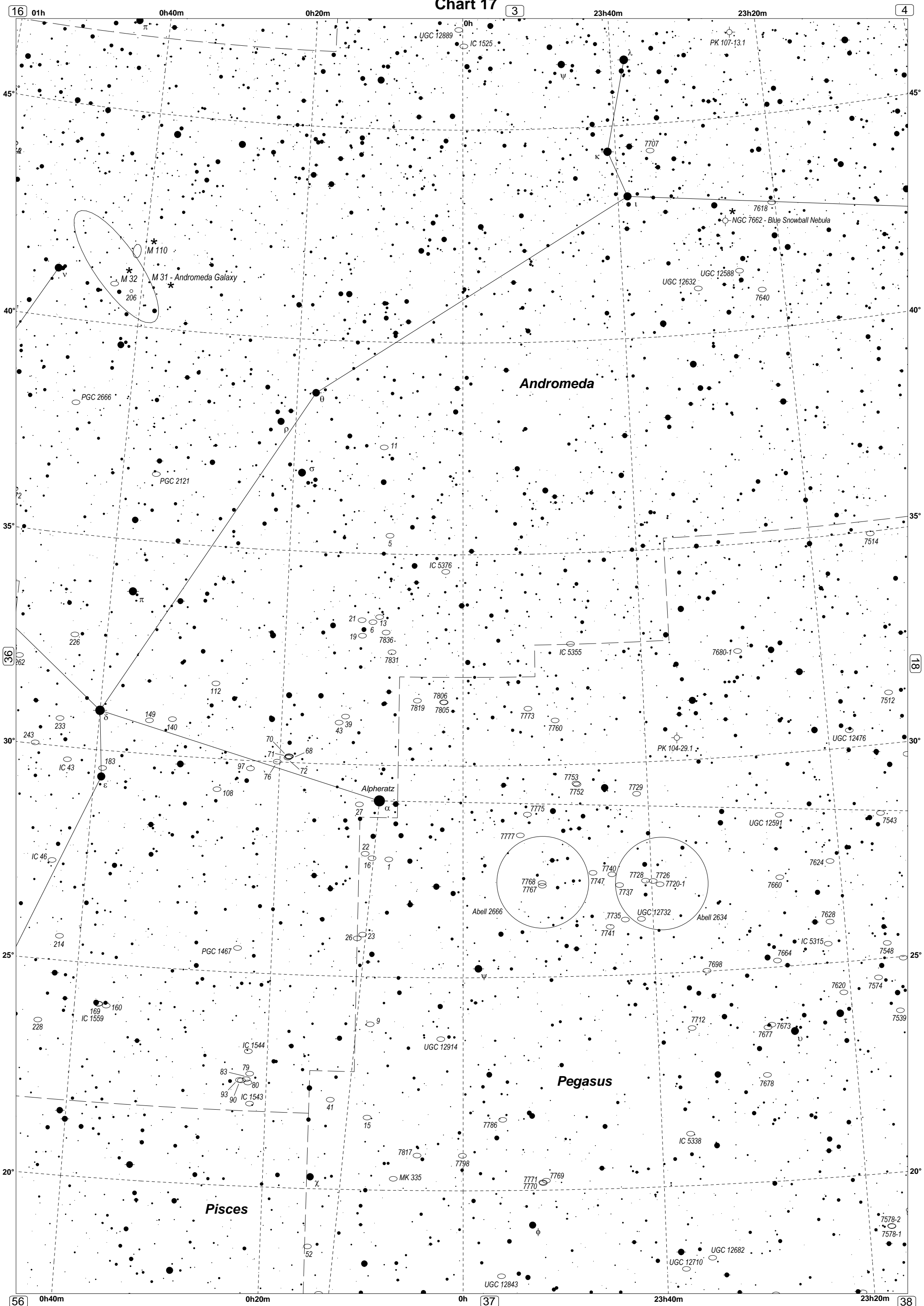


Chart 17

16

3

4

45°

45°

40°

40°

35°

35°

30°

30°

25°

25°

20°

20°

56

37

38

01h

0h40m

0h20m

0h

23h40m

23h20m

0h40m

0h20m

0h

23h40m

23h20m

Andromeda

Pegasus

Pisces

M 110
M 32
M 31 - Andromeda Galaxy
206

7618
NGC 7662 - Blue Snowball Nebula

Alpheratz
α

Abell 2666
7768
7767
7740
7747
7728
7726
7720-1
7737
7735
7741
Abell 2634
UGC 12732

IC 1544
83
79
80
93
90
IC 1543

UGC 12632
UGC 12588
7640

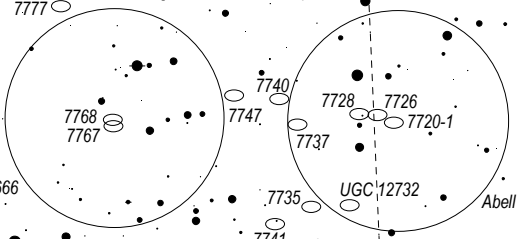
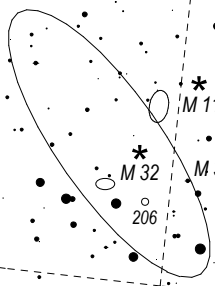


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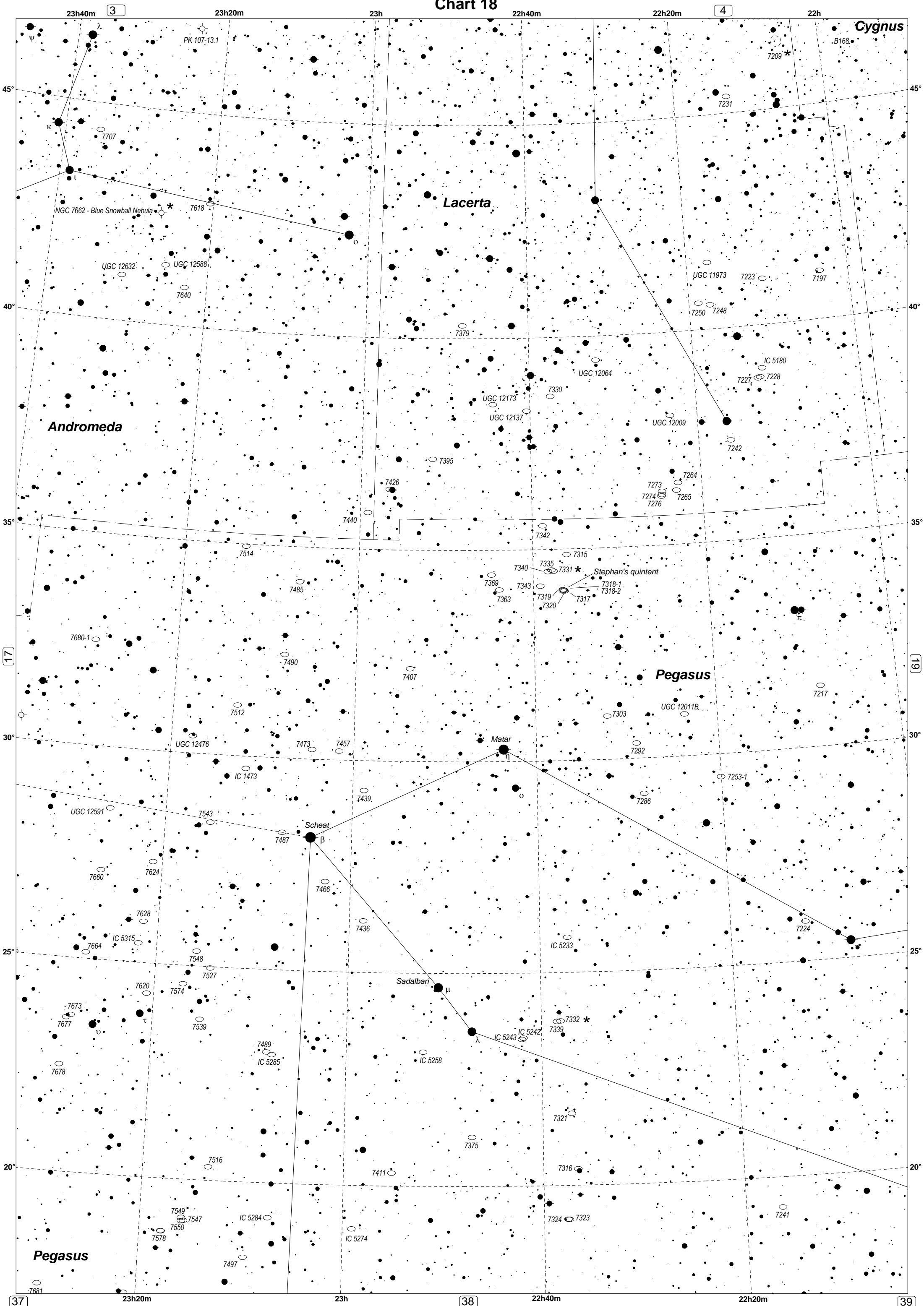


Chart 19

22h20m

4

22h

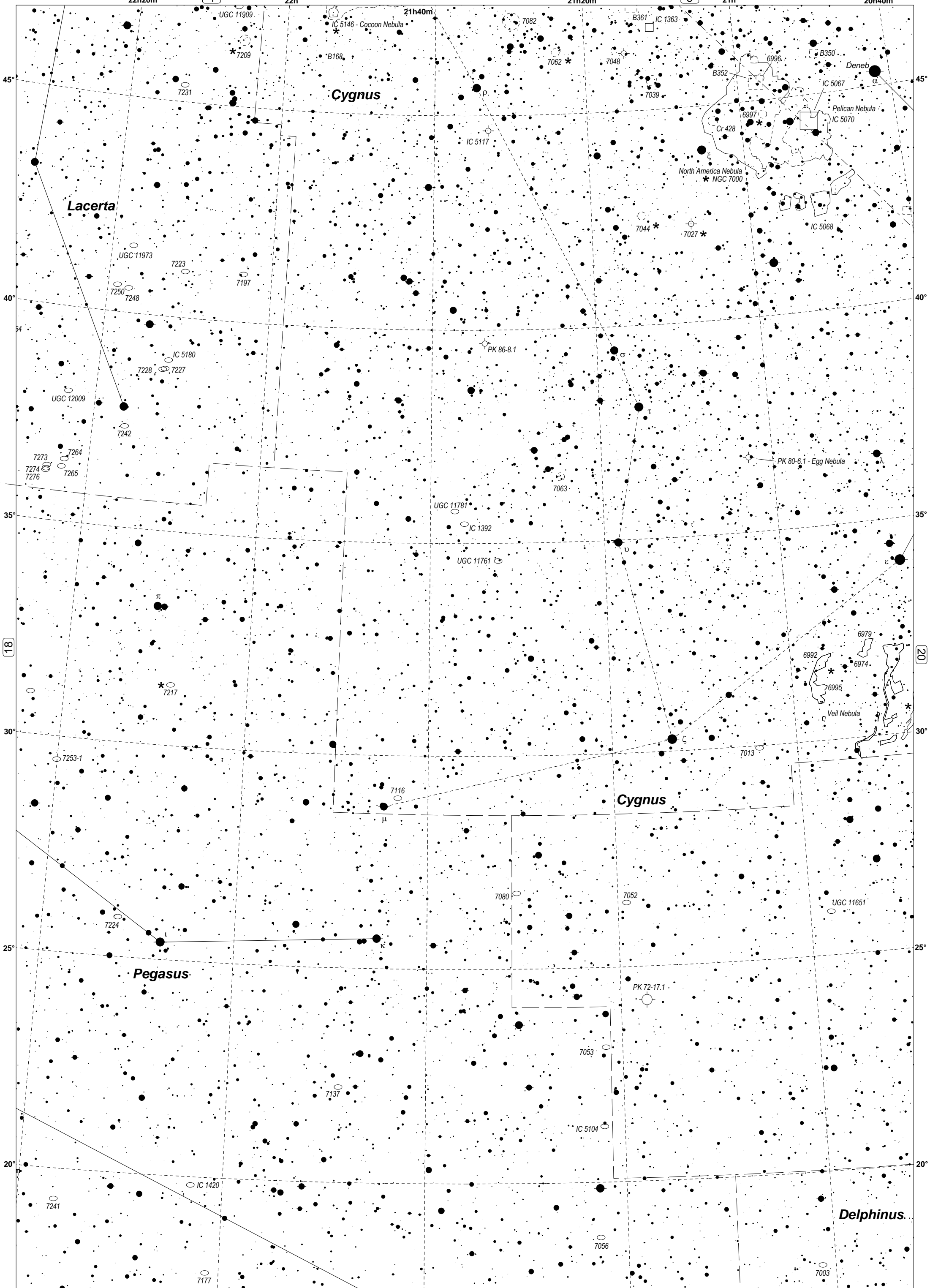
21h40m

21h20m

5

21h

20h40m



18

20

25

20

38

22h

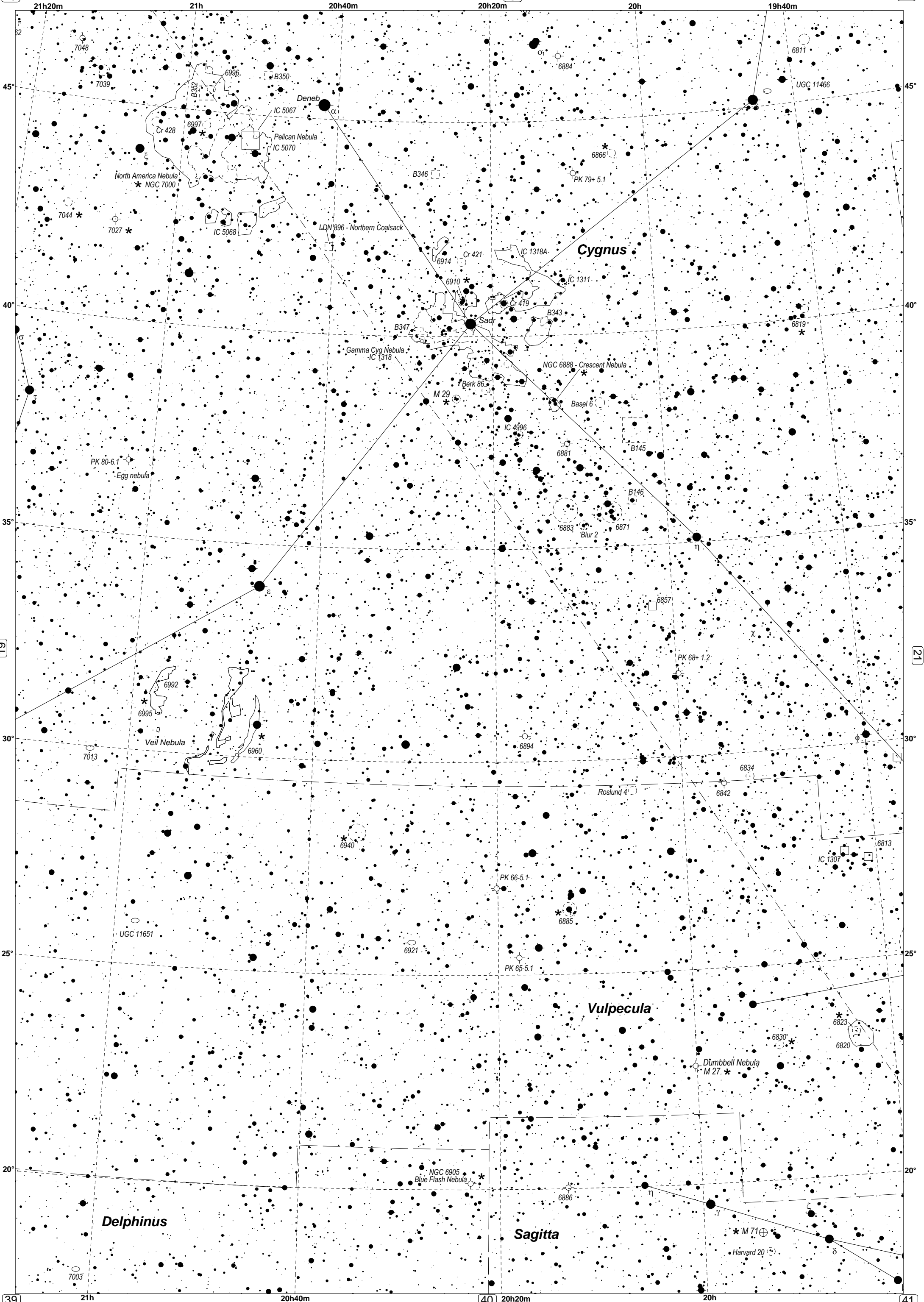
21h40m

39

21h20m

21h

40



North America Nebula
★ NGC 7000

Deneb
α

Cygnus

Veil Nebula

Vulpecula

Delphinus

Sagitta

Dumbbell Nebula
★ M 27

Blue Flash Nebula
★ NGC 6905

★ M 71

★ Harvard 20

Chart 21

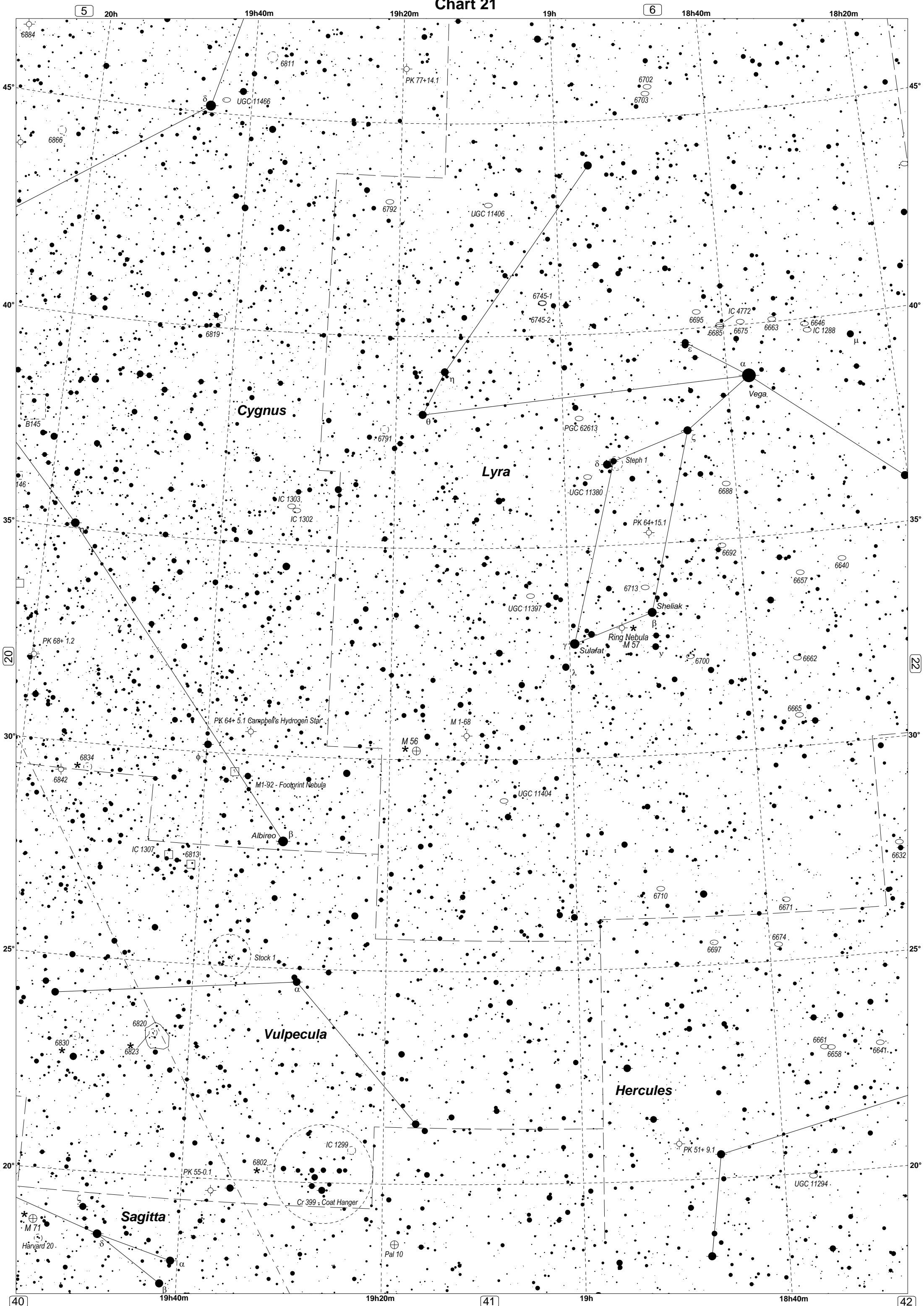


Chart 22

18h40m

6

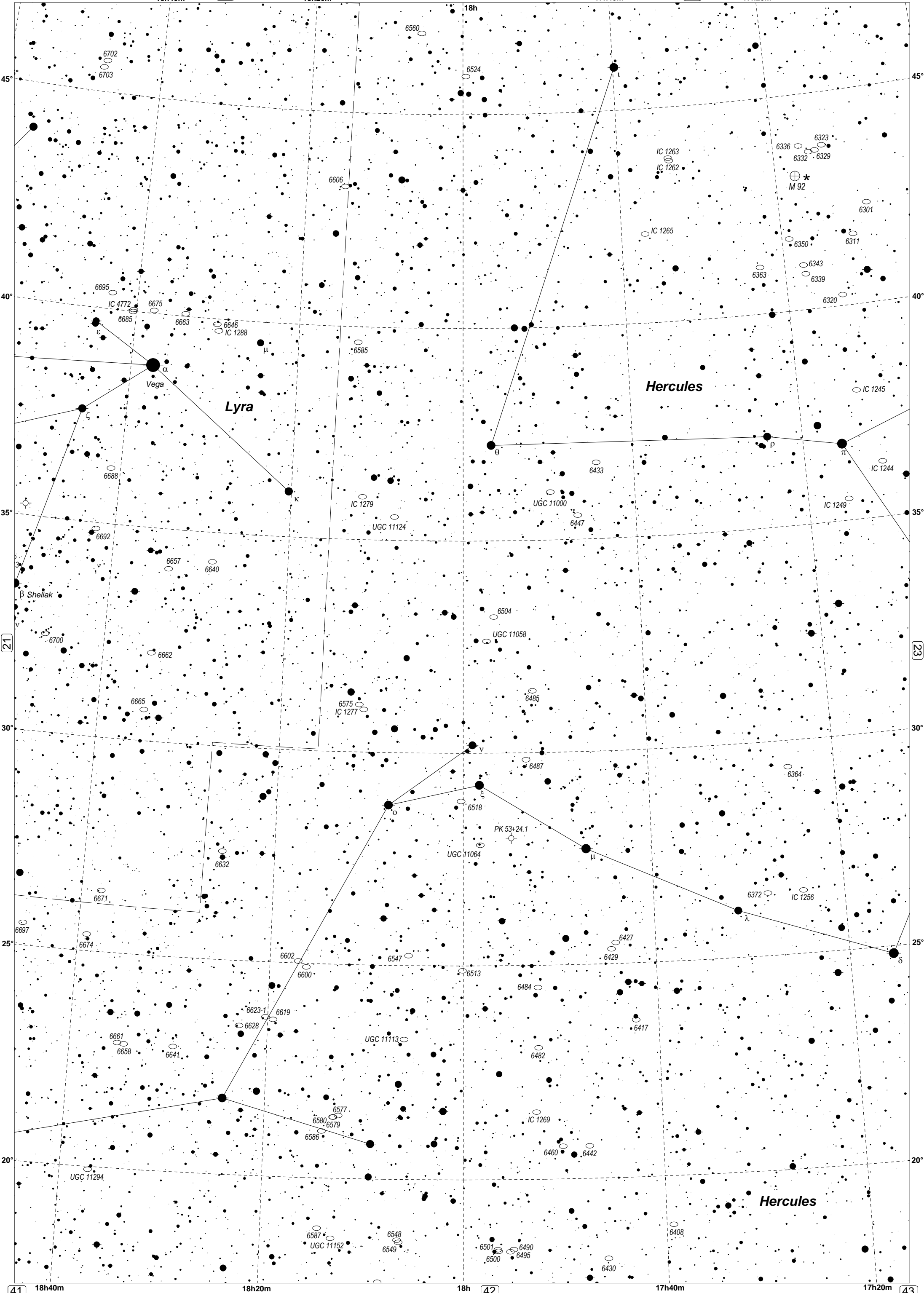
18h20m

18h

17h40m

7

17h20m



21

23

41 18h40m

18h20m

18h

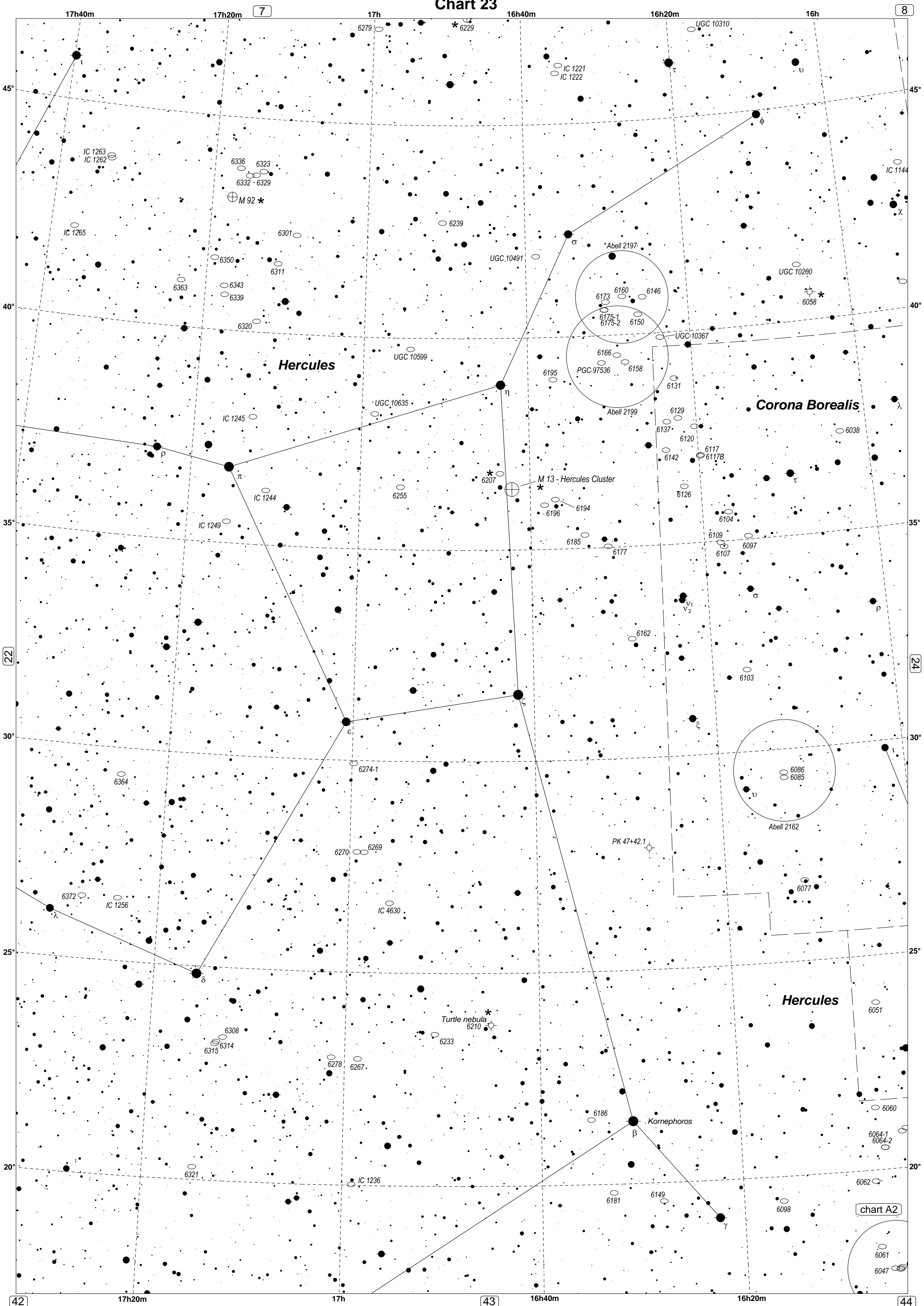
42

17h40m

17h20m

43

Chart 23



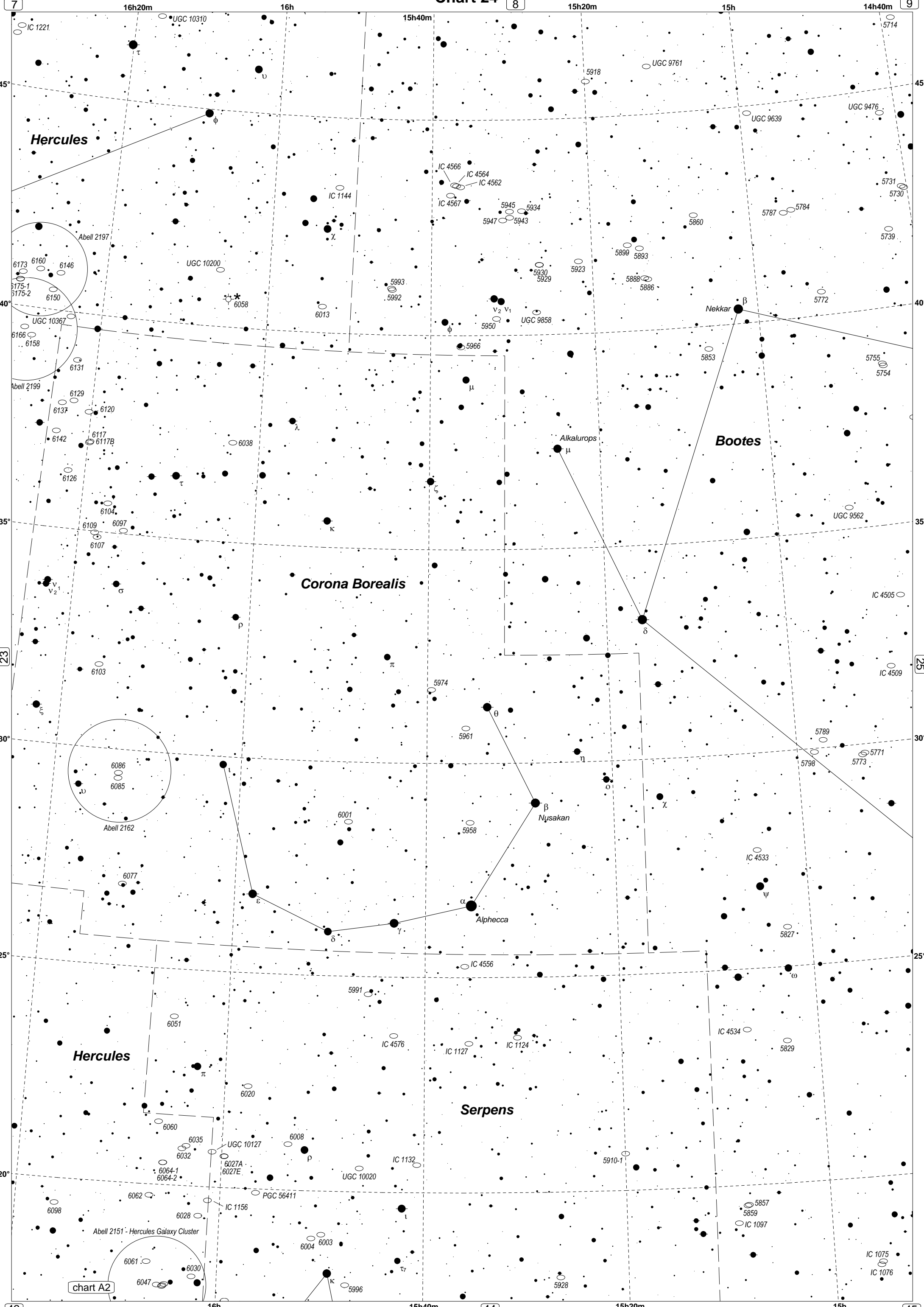
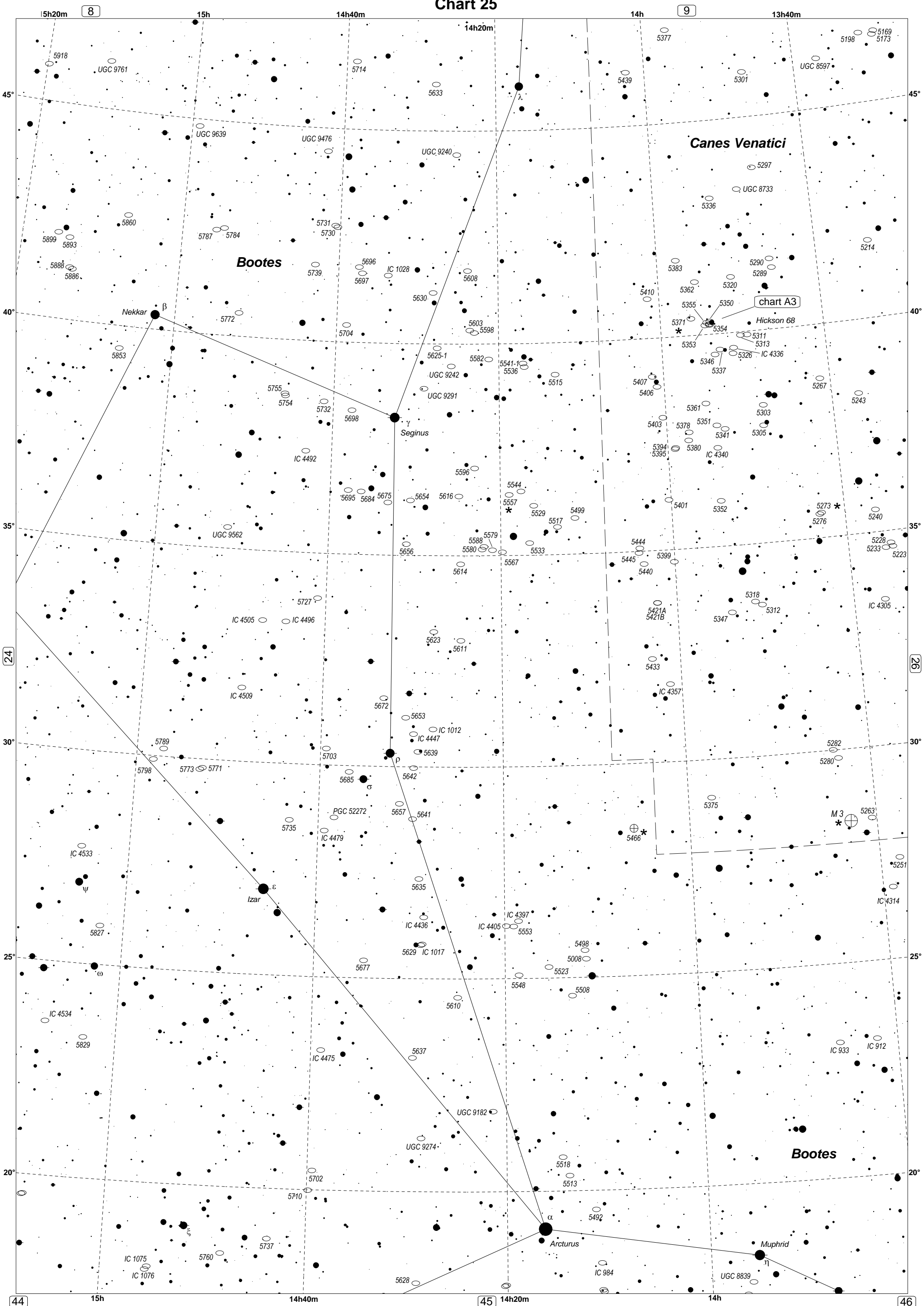


Chart 25



Canes Venatici

Bootes

chart A3

Hickson 68

Seginus

Nekkar

Bootes

Arcturus

Muphrid

M 3

8

9

24

26

44

45

46

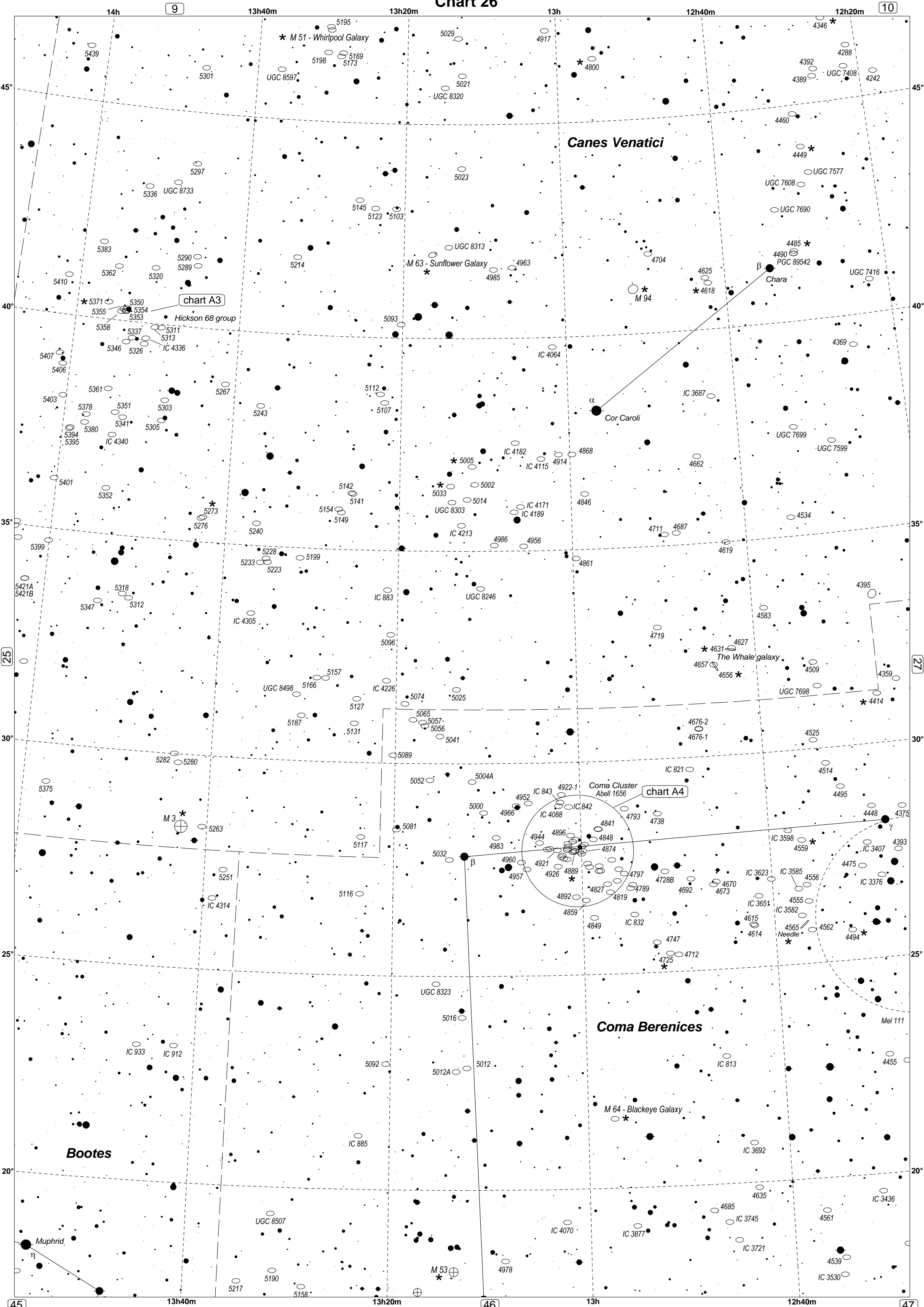


Chart 27

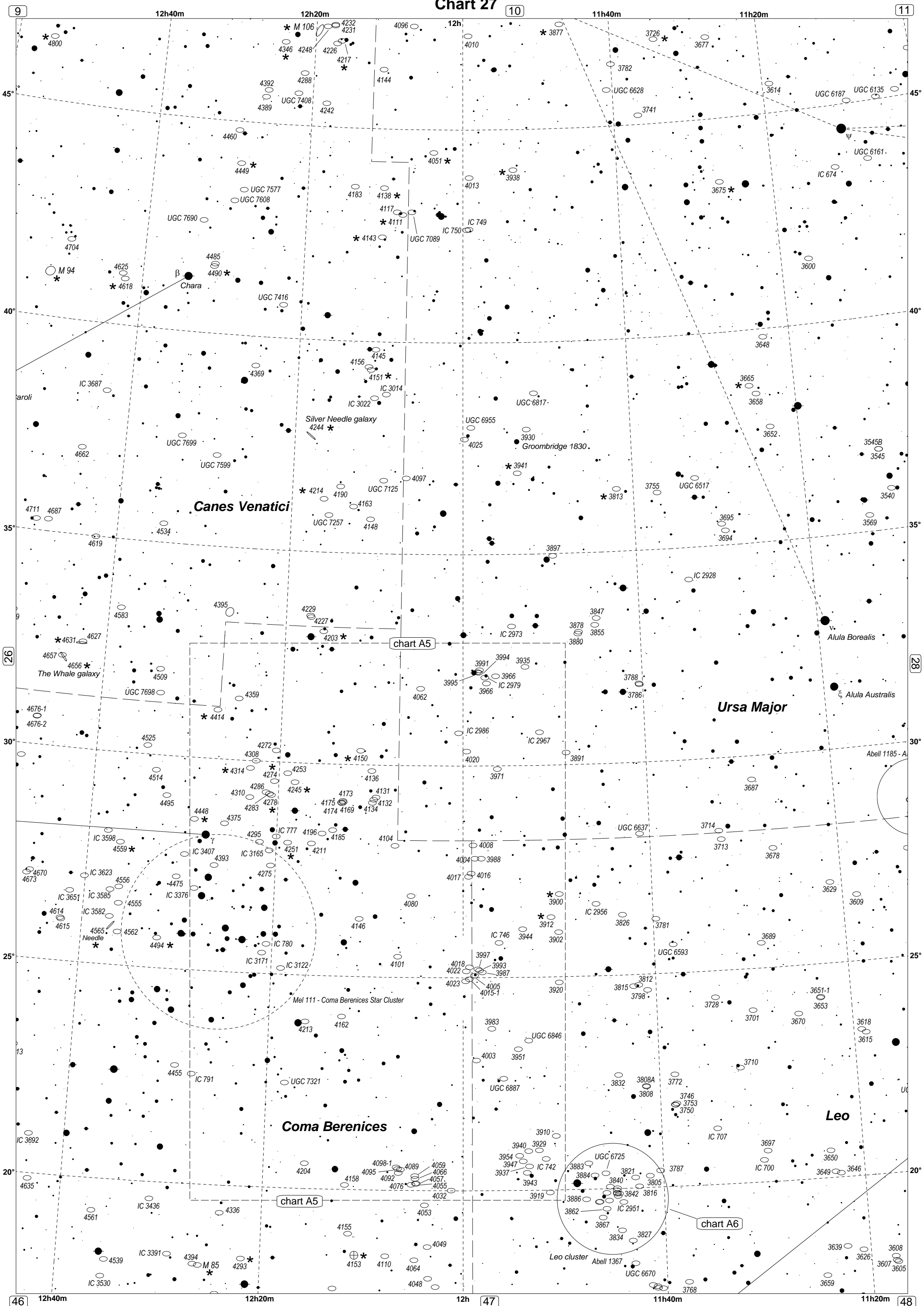


Chart 29

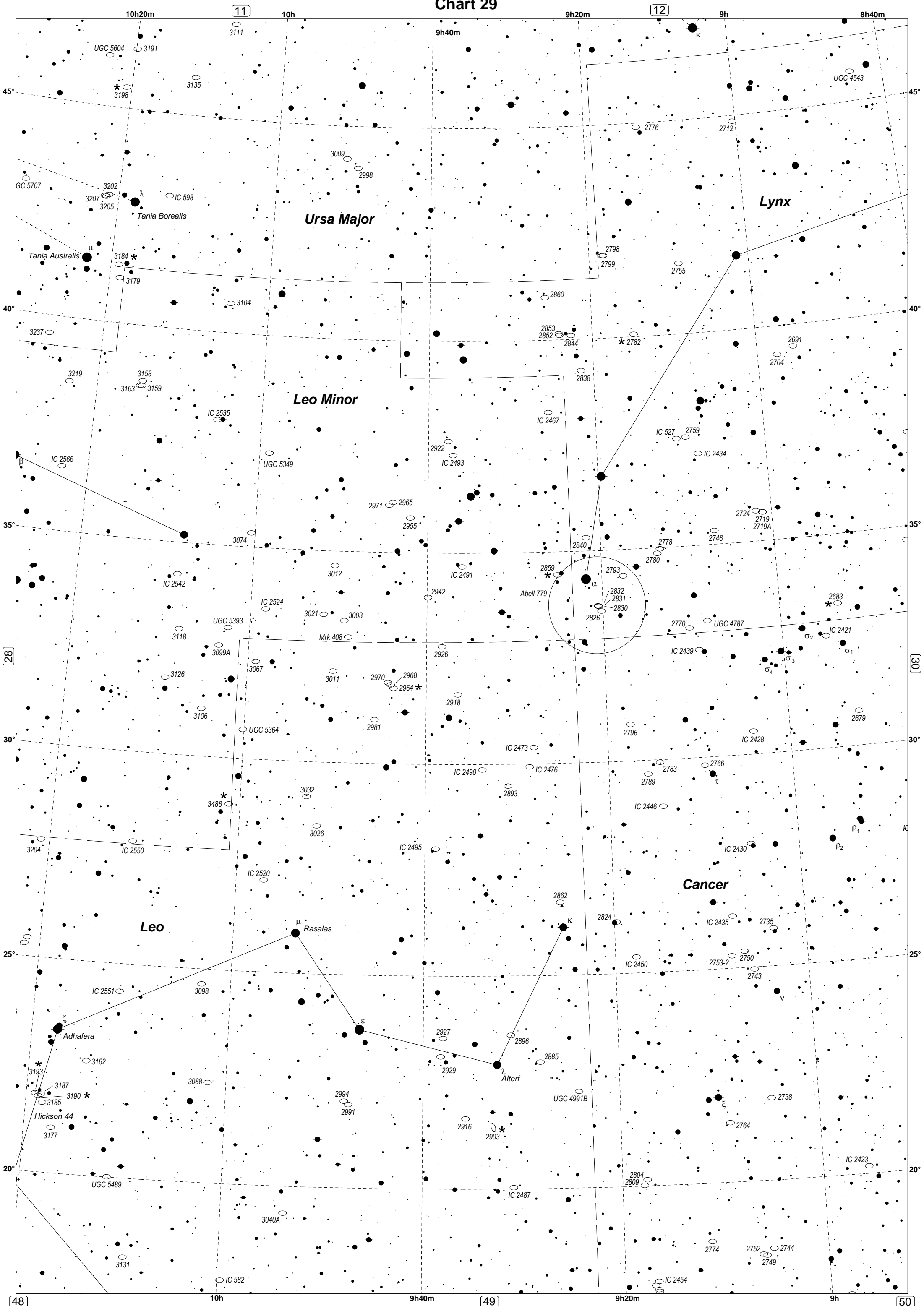


Chart 30

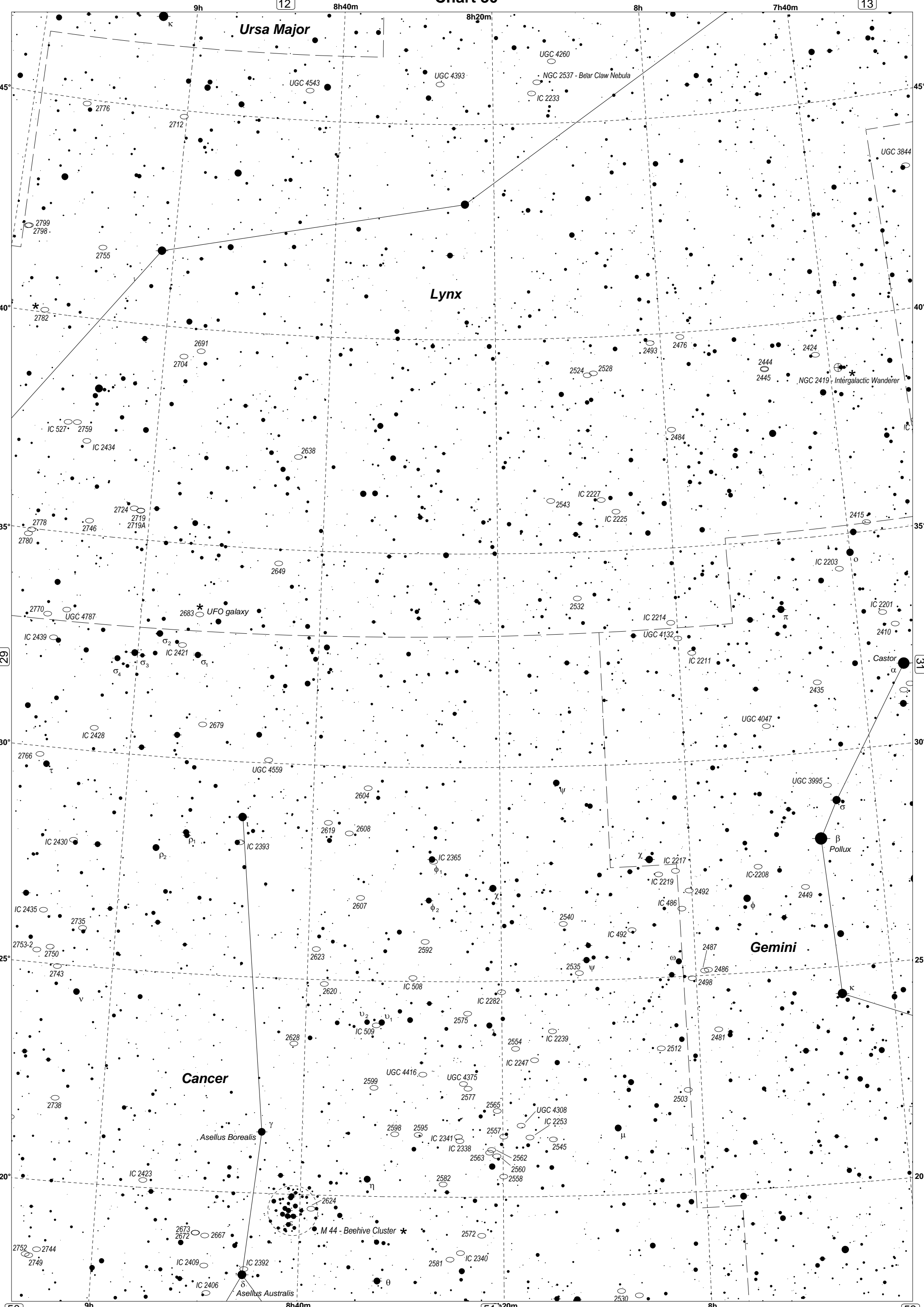


Chart 31

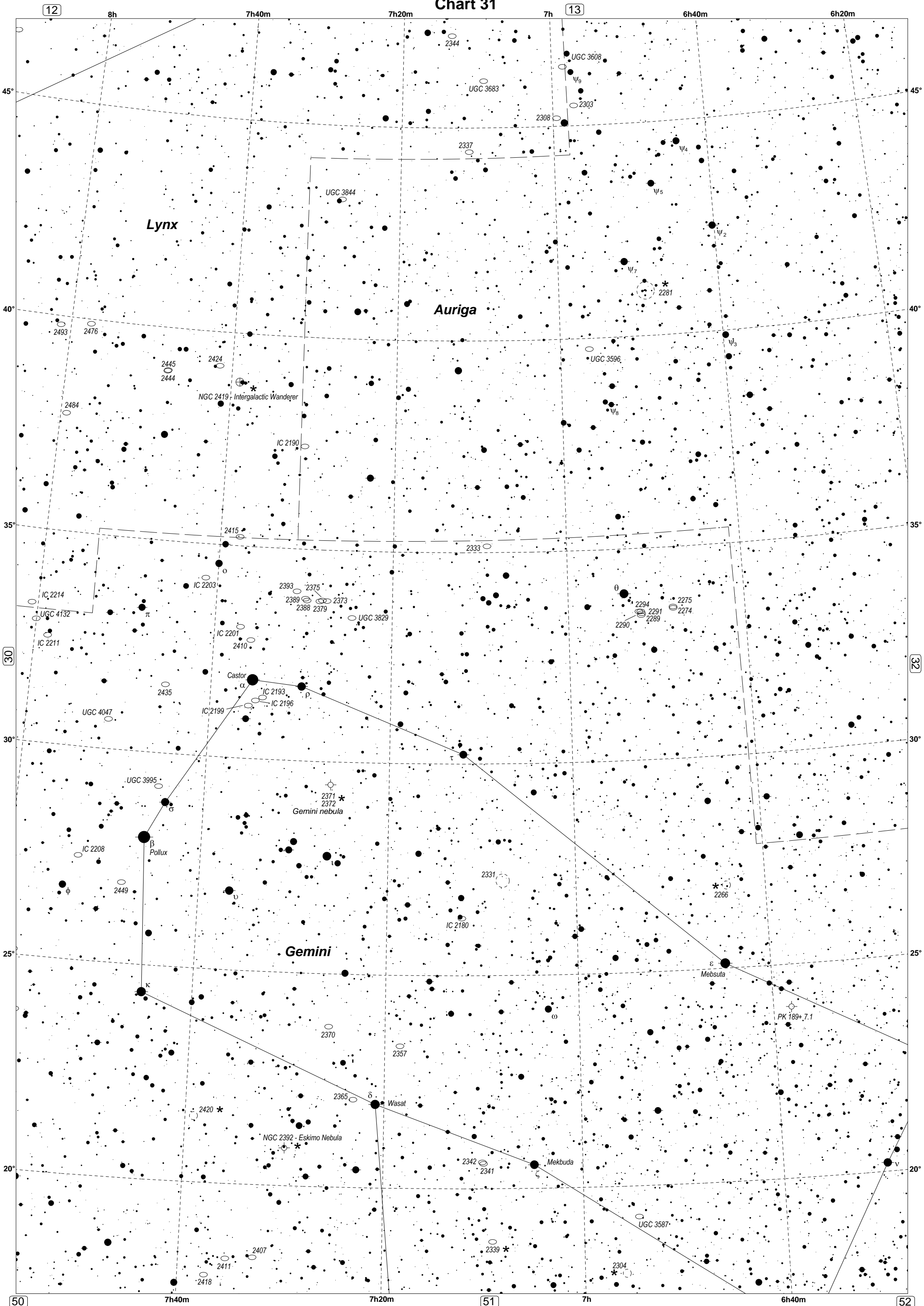


Chart 32

6h40m

13

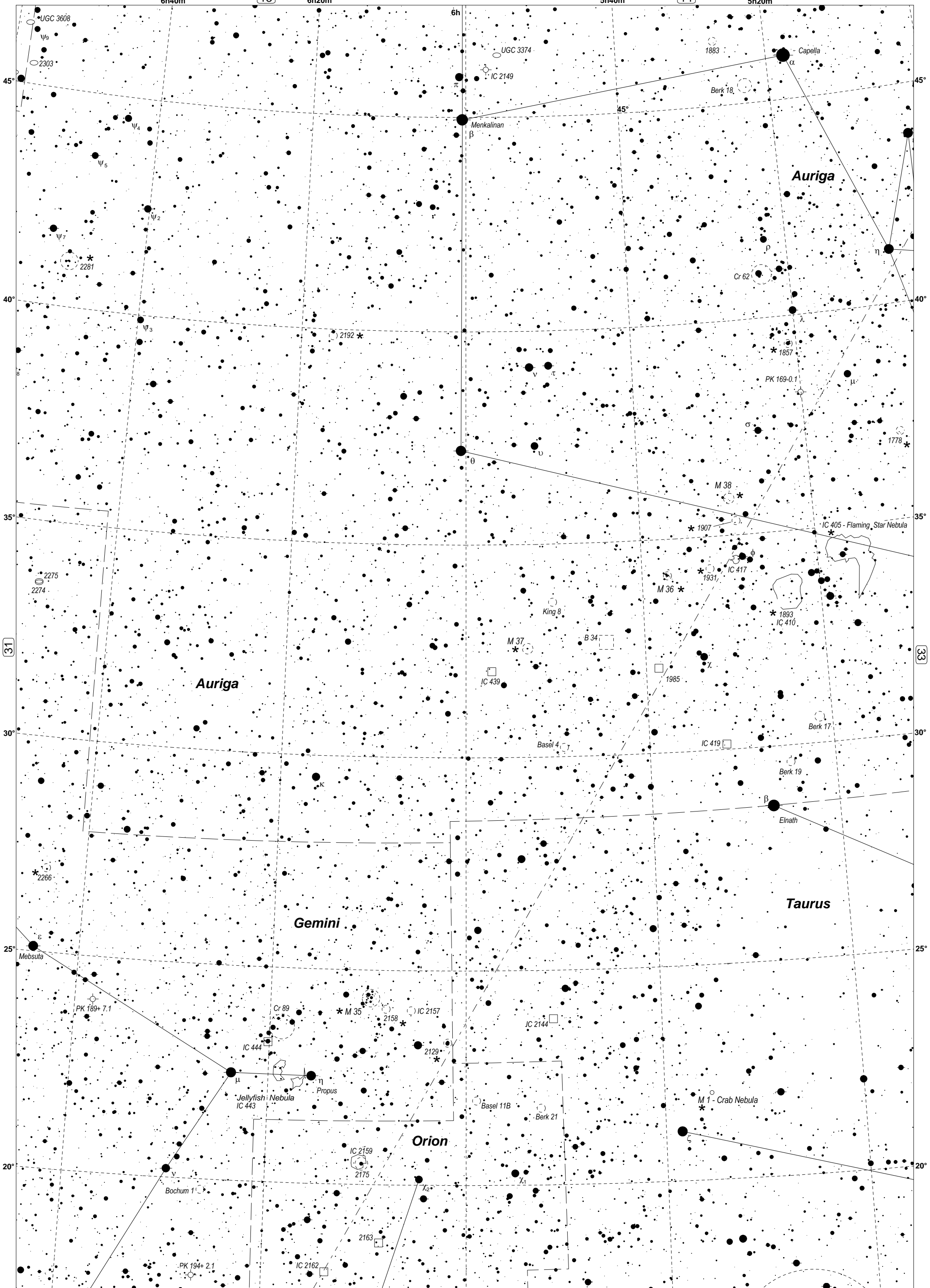
6h20m

6h

5h40m

14

5h20m



Auriga

Auriga

Gemini

Taurus

Orion

31

33

51

52

53

Chart 33

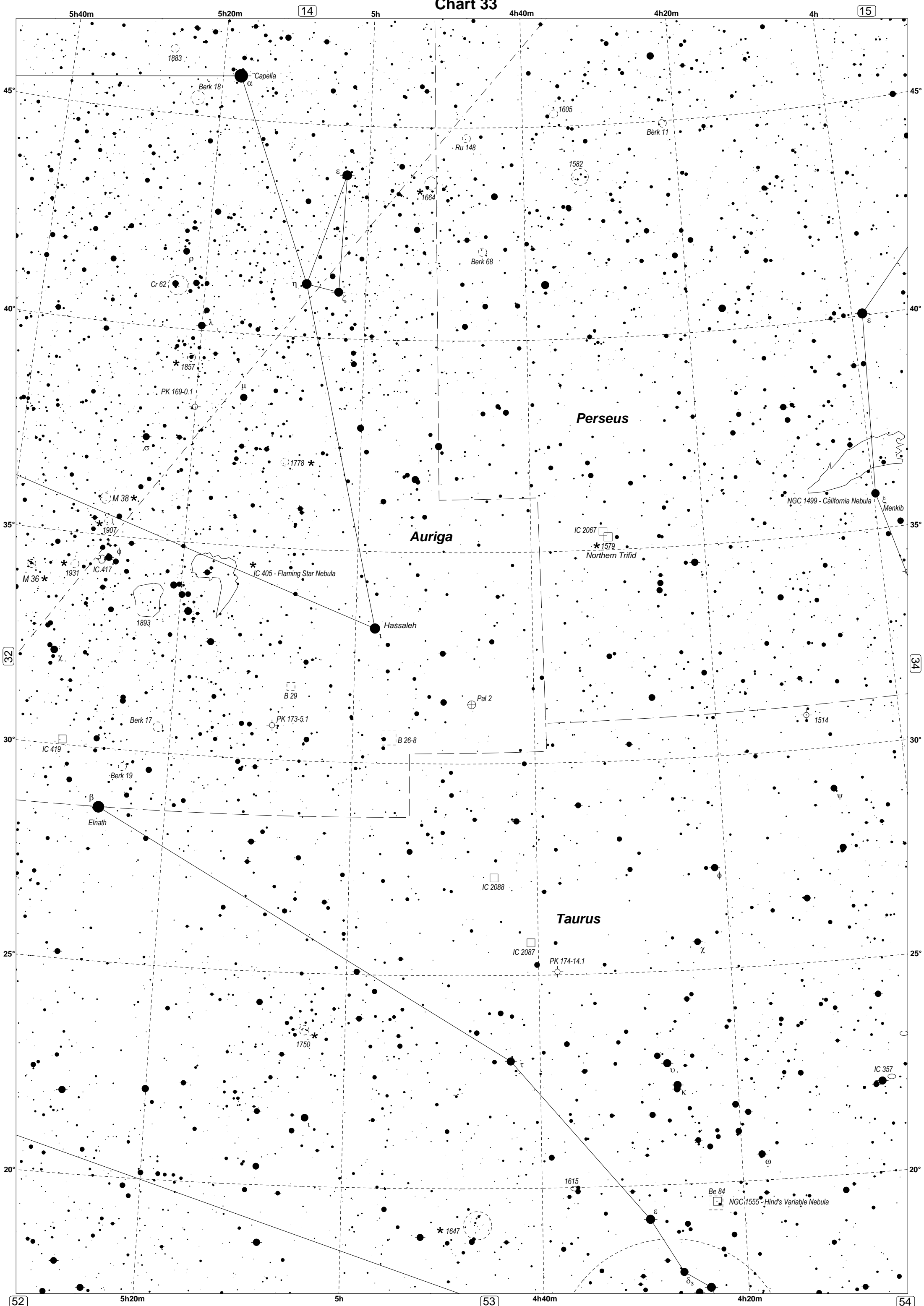
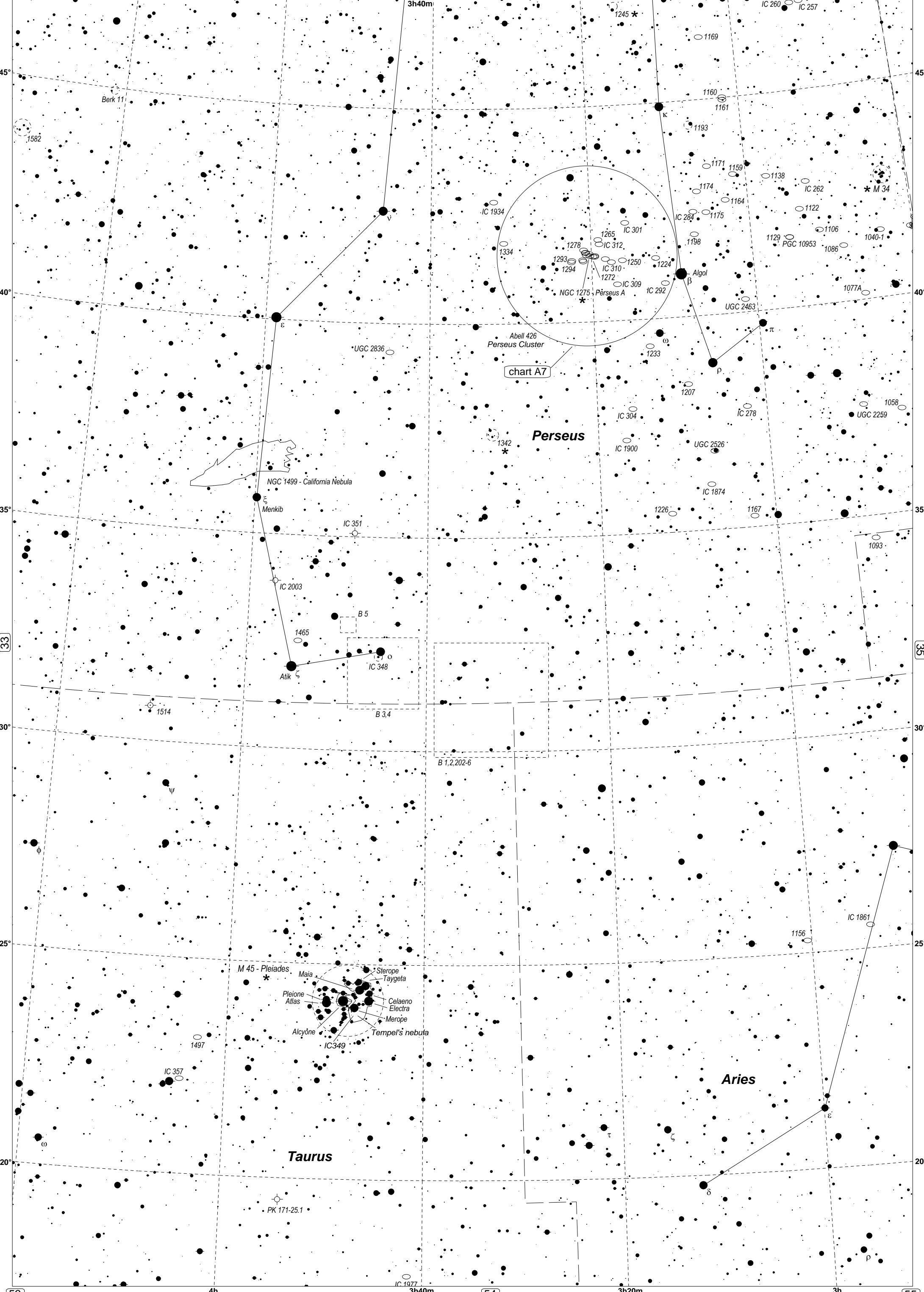
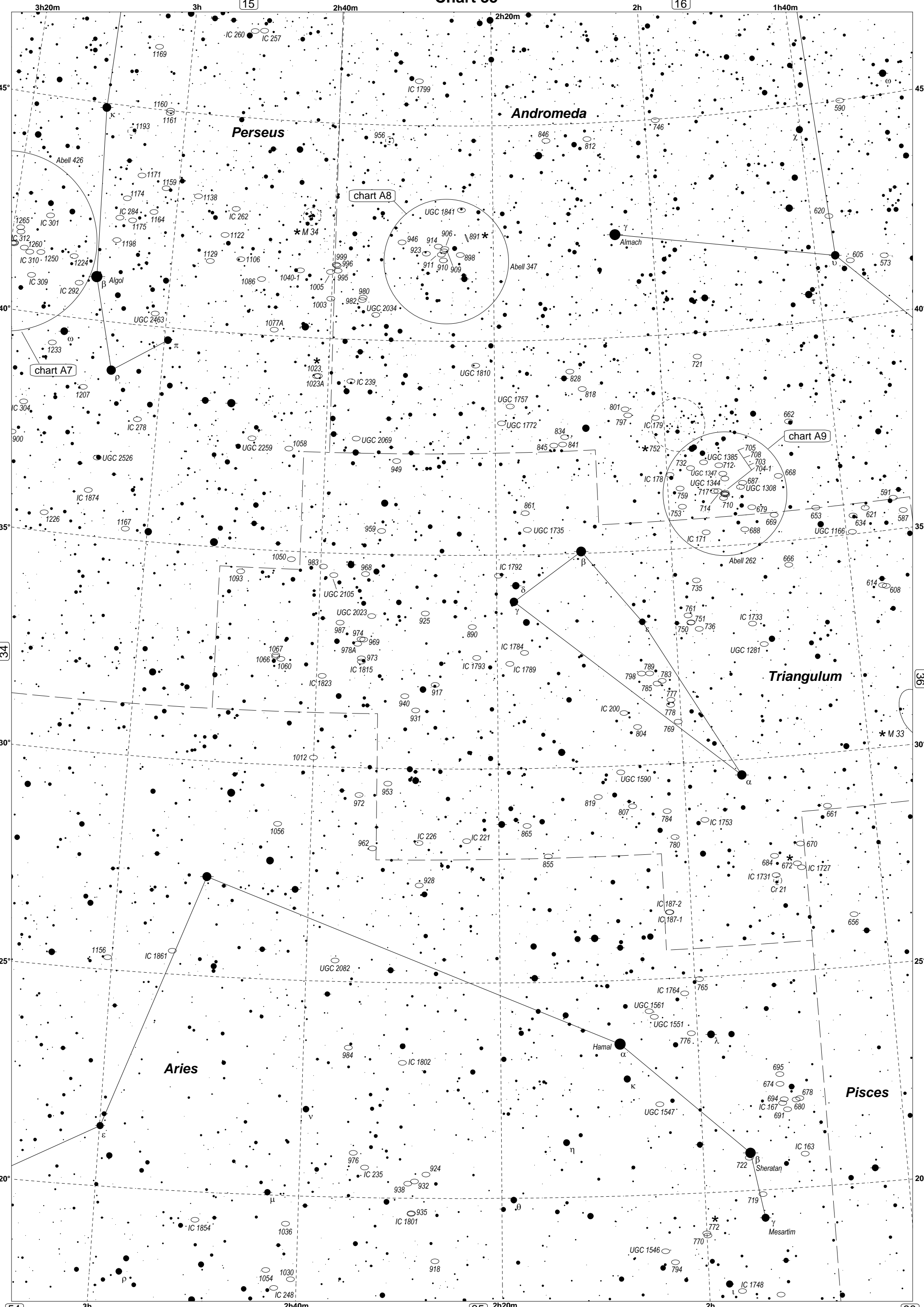
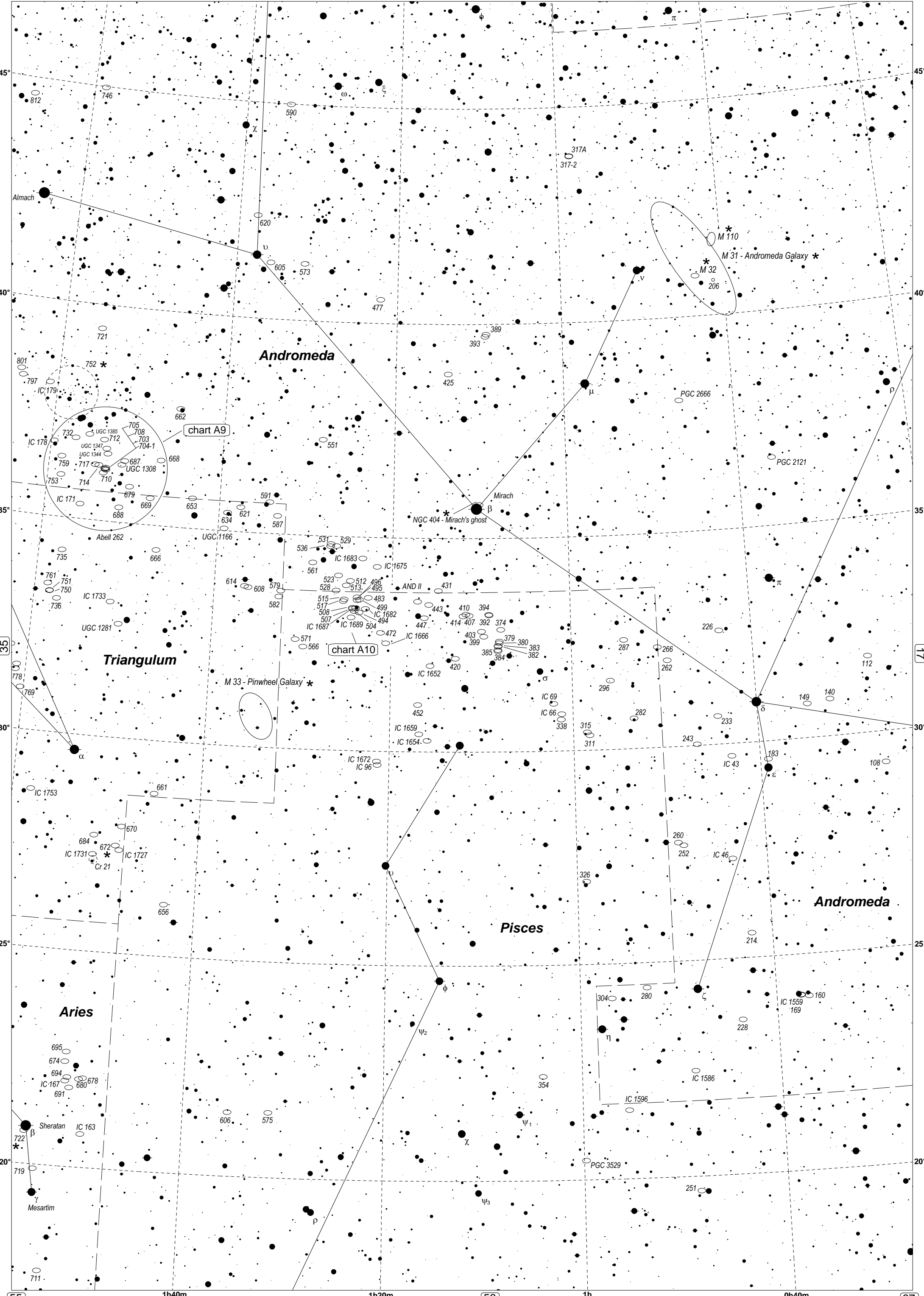
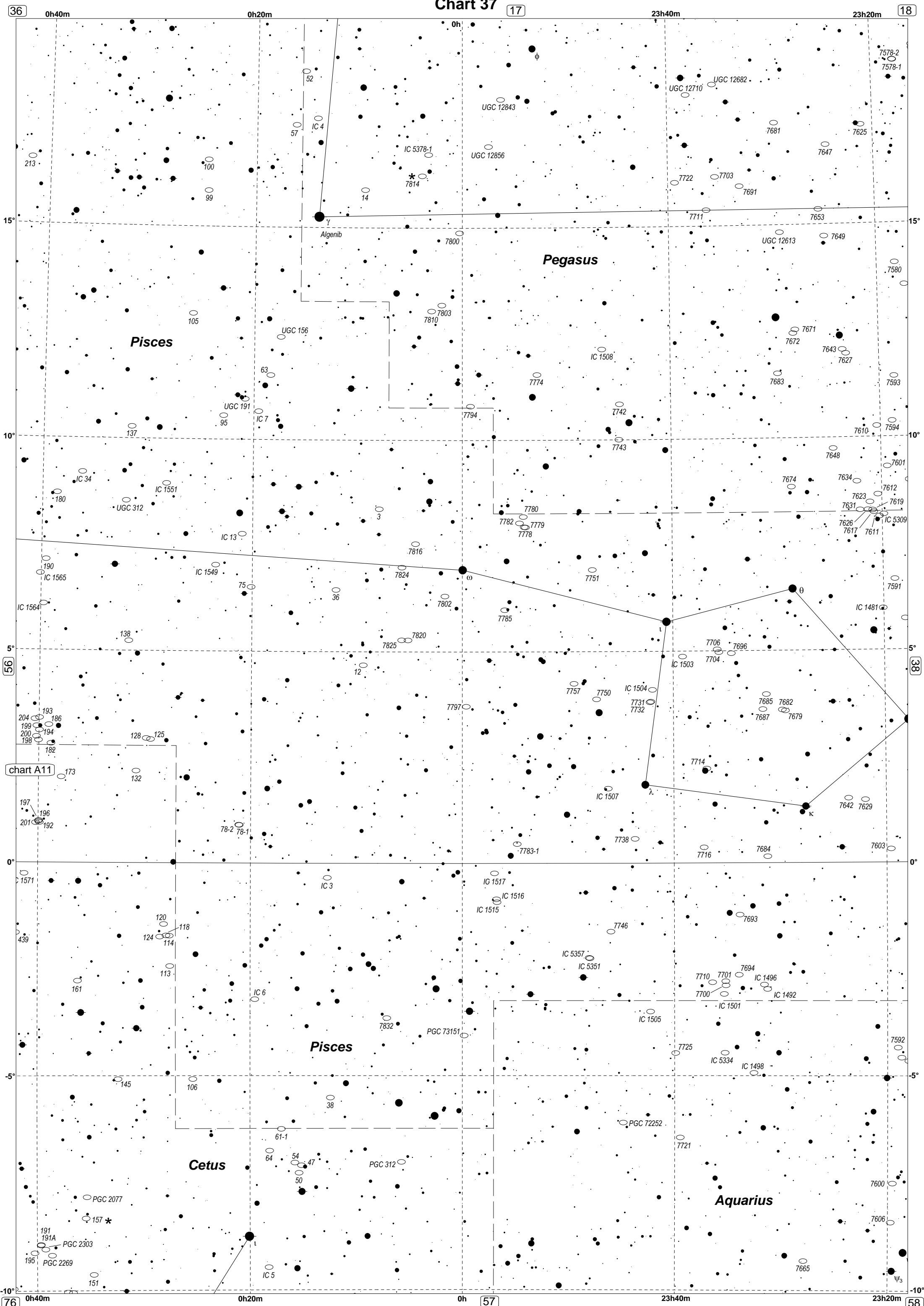


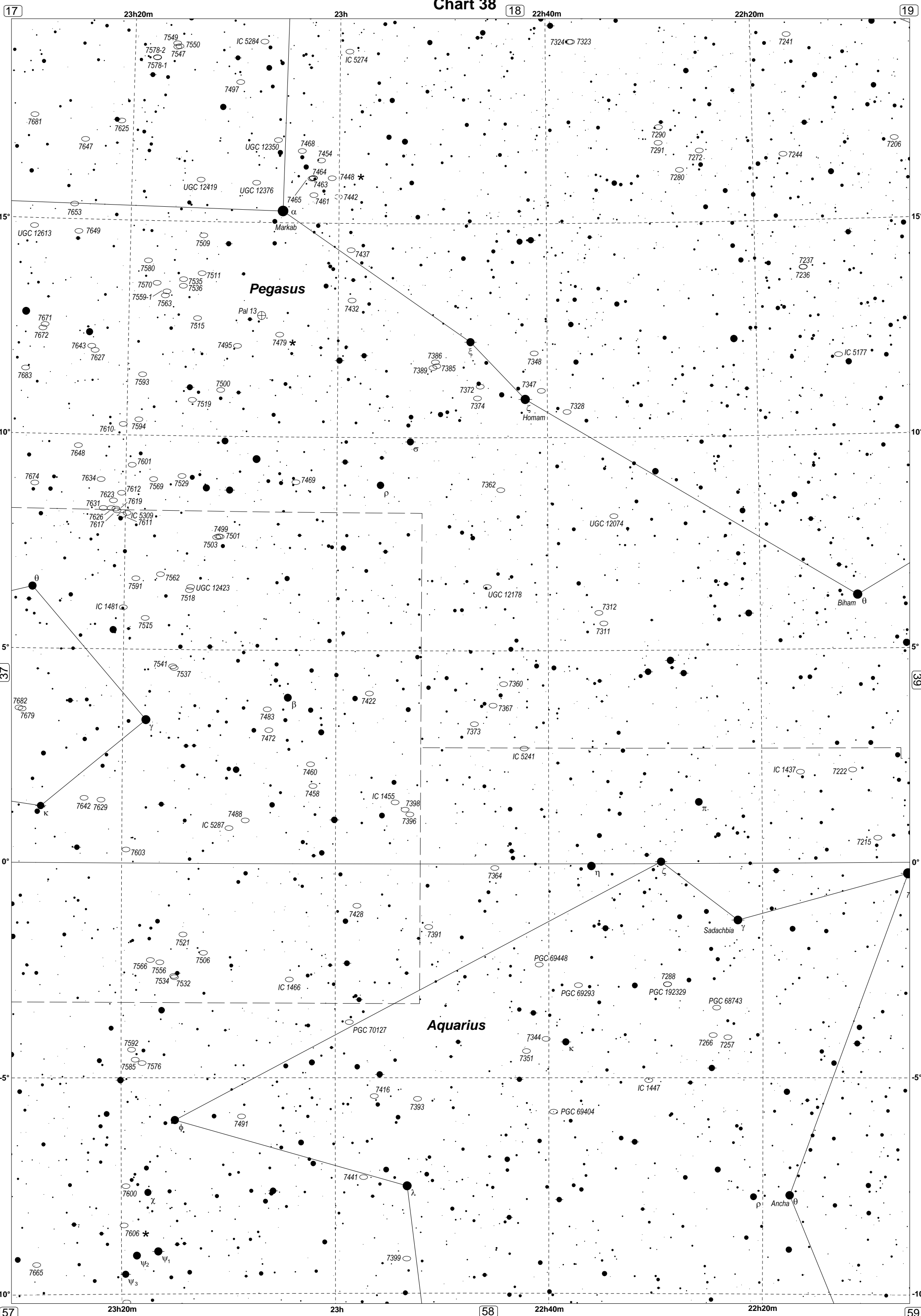
Chart 34

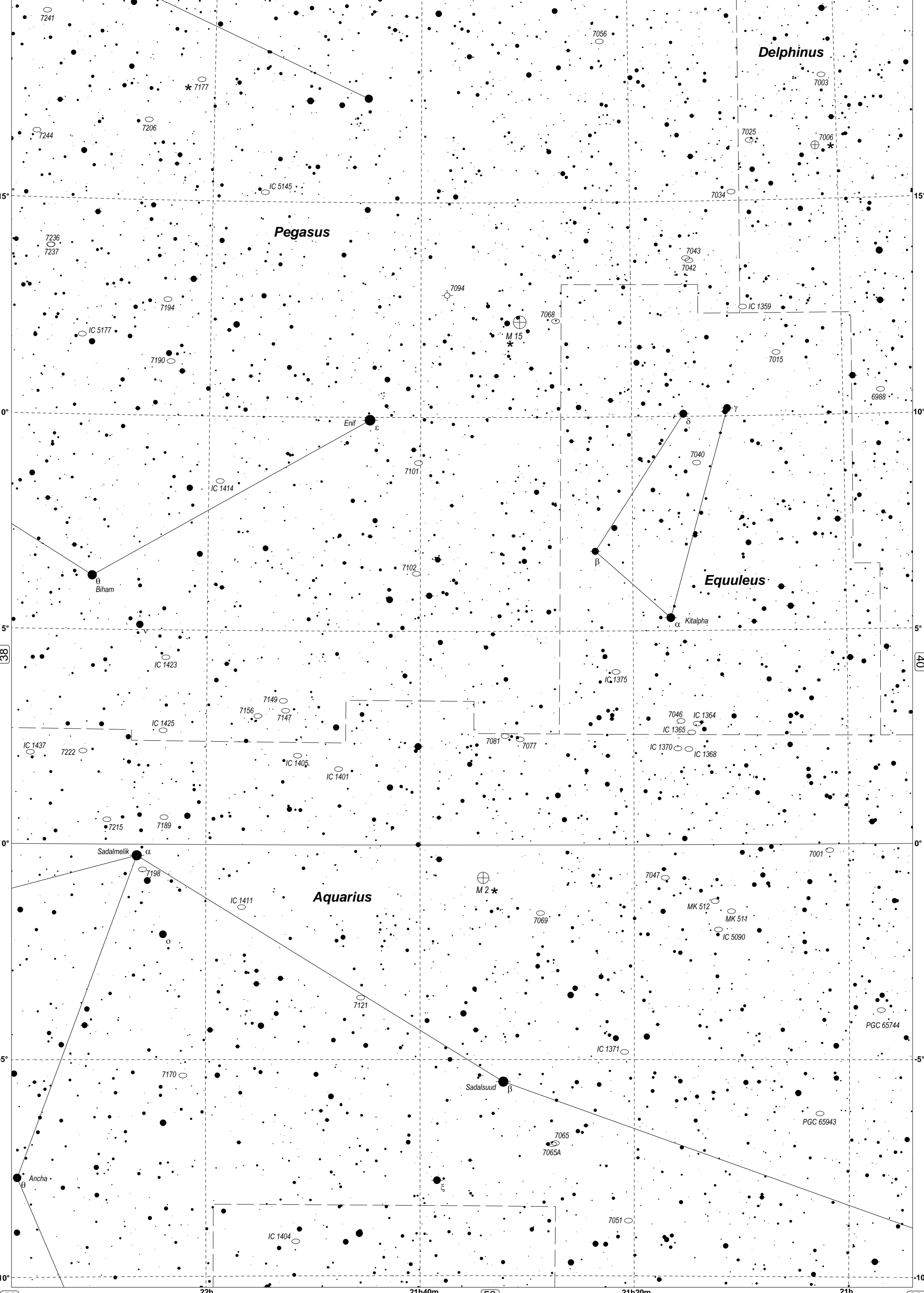


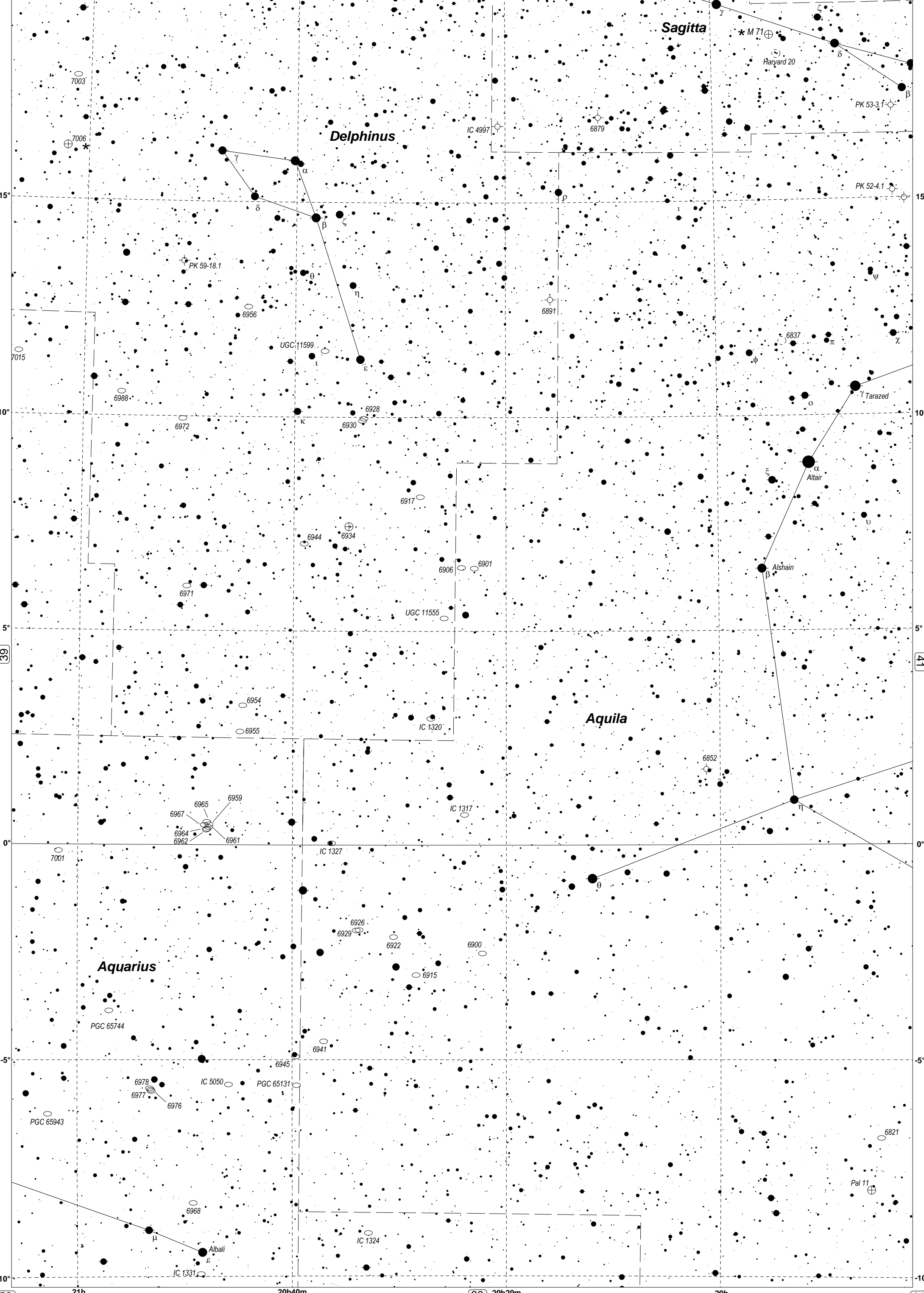












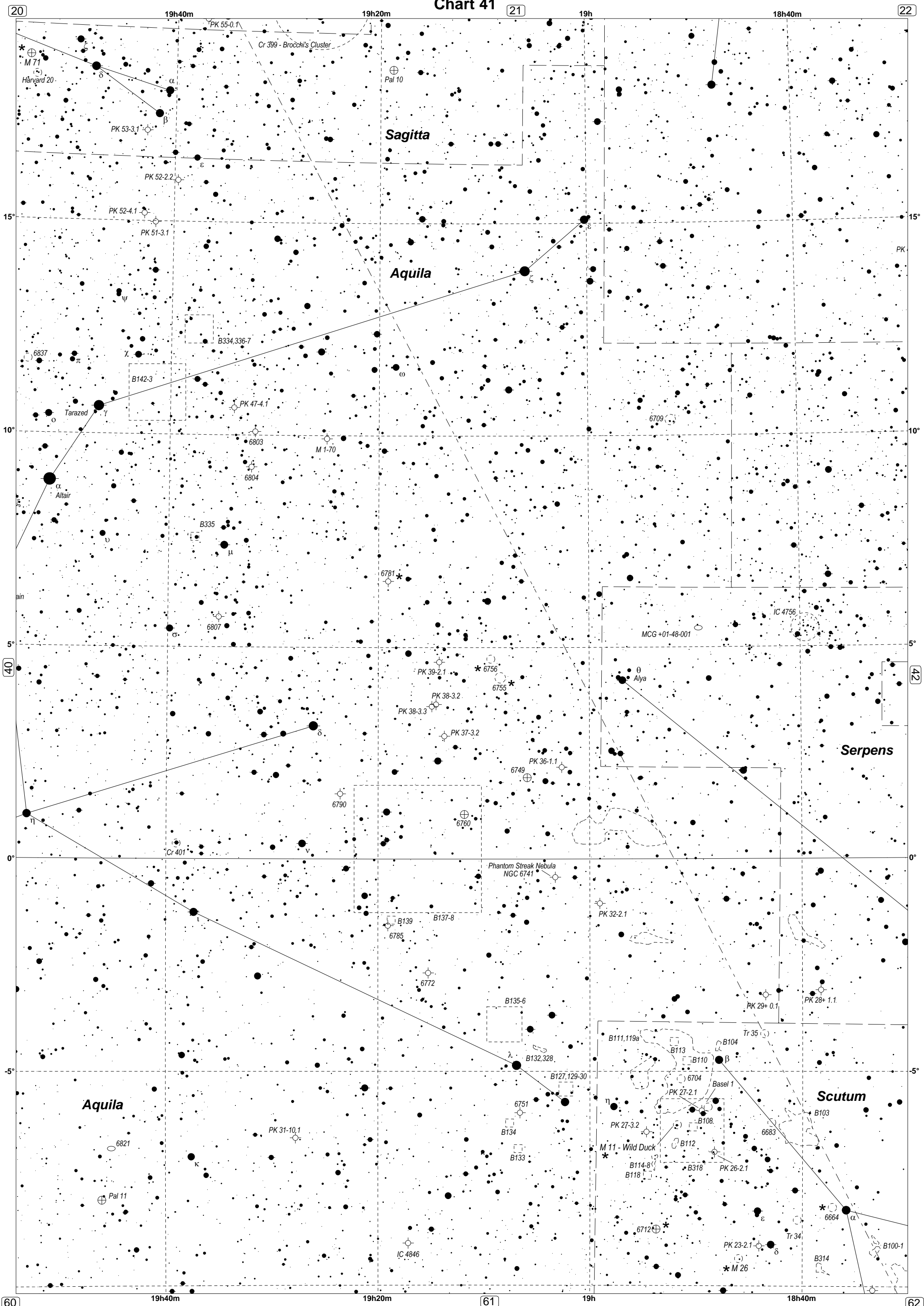


Chart 41

20

21

22

19h40m

19h20m

19h

18h40m

15°

15°

10°

10°

5°

5°

0°

0°

-5°

-5°

19h40m

19h20m

19h

18h40m

60

61

62

Sagitta

Aquila

Serpens

Aquila

Scutum

Cr 399 - Broccchi's Cluster

Phantom Streak Nebula
NGC 6741

M 11 - Wild Duck

M 71
Harvard 20

Pal 10

PK 53-3.1

PK 52-2.2

PK 52-4.1

PK 51-3.1

B334,336-7

B142-3

PK 47-4.1

6803

6804

M 1-70

B335

6807

6781

PK 39-2.1

PK 38-3.2

PK 38-3.3

PK 37-3.2

PK 36-1.1

6790

6760

Cr 401

B139

B137-8

6772

B135-6

B132,328

B127,129-30

6751

B134

B133

IC 4846

B111,119a

B113

B110

6704

Basel 1

PK 27-2.1

B108

B112

B114-8

B118

B318

PK 26-2.1

6712

PK 23-2.1

M 26

PK 29+ 0.1

PK 28+ 1.1

Tr 35

Tr 34

B103

B100-1

B314

IC 4756

MCG +01-48-001

6709

θ
Alya

γ
Tarazed

α
Altair

η

Pal 11

κ

PK 31-10.1

6821

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Pal 10

Cr 399 - Broccchi's Cluster

M 71

Harvard 20

PK

PK

42

62

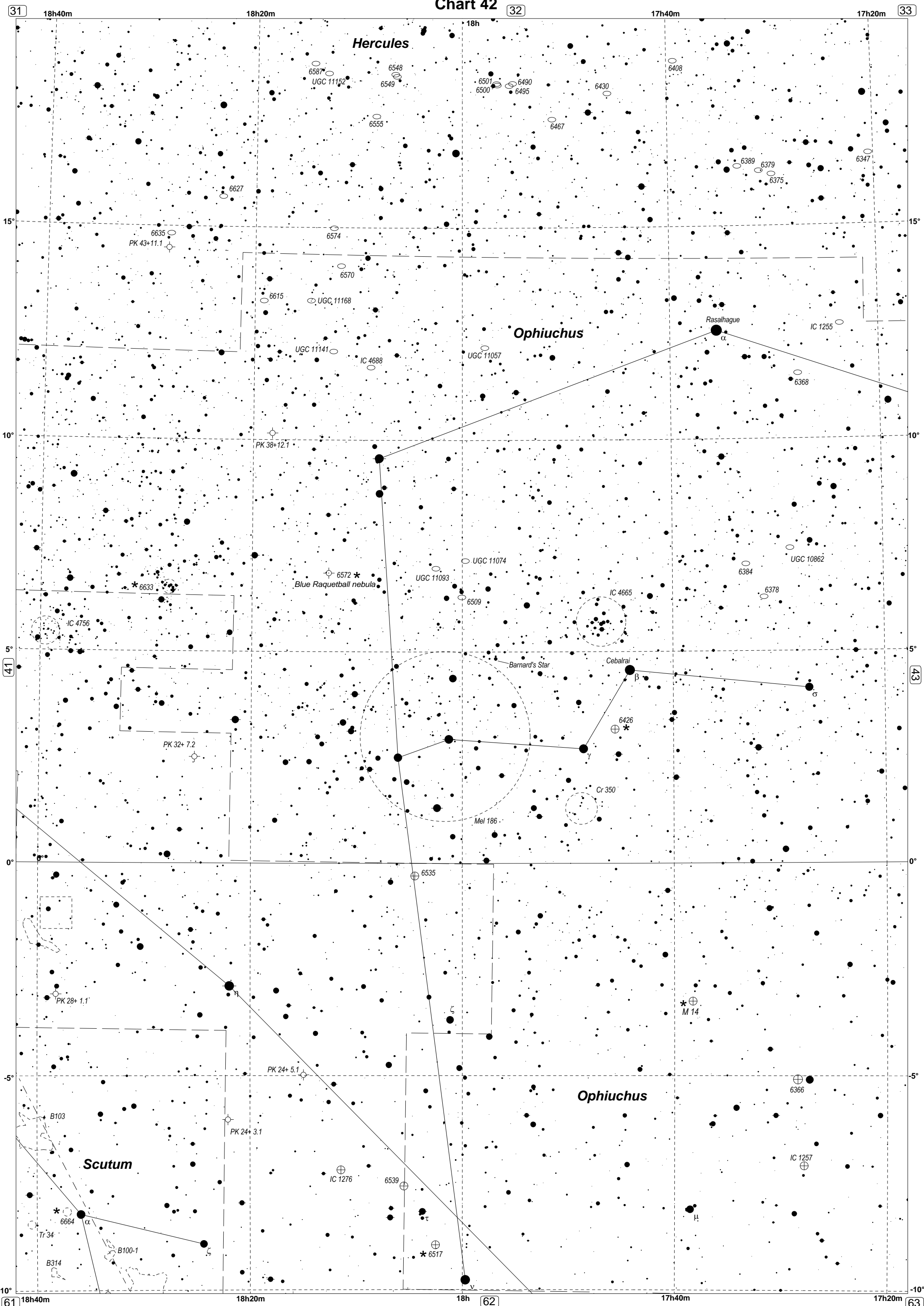


Chart 42

Hercules

Ophiuchus

Scutum

Ophiuchus

Blue Raquetball nebula

Barnard's Star

Cebalrai

Rasalhague

Cr 350

Mel 186

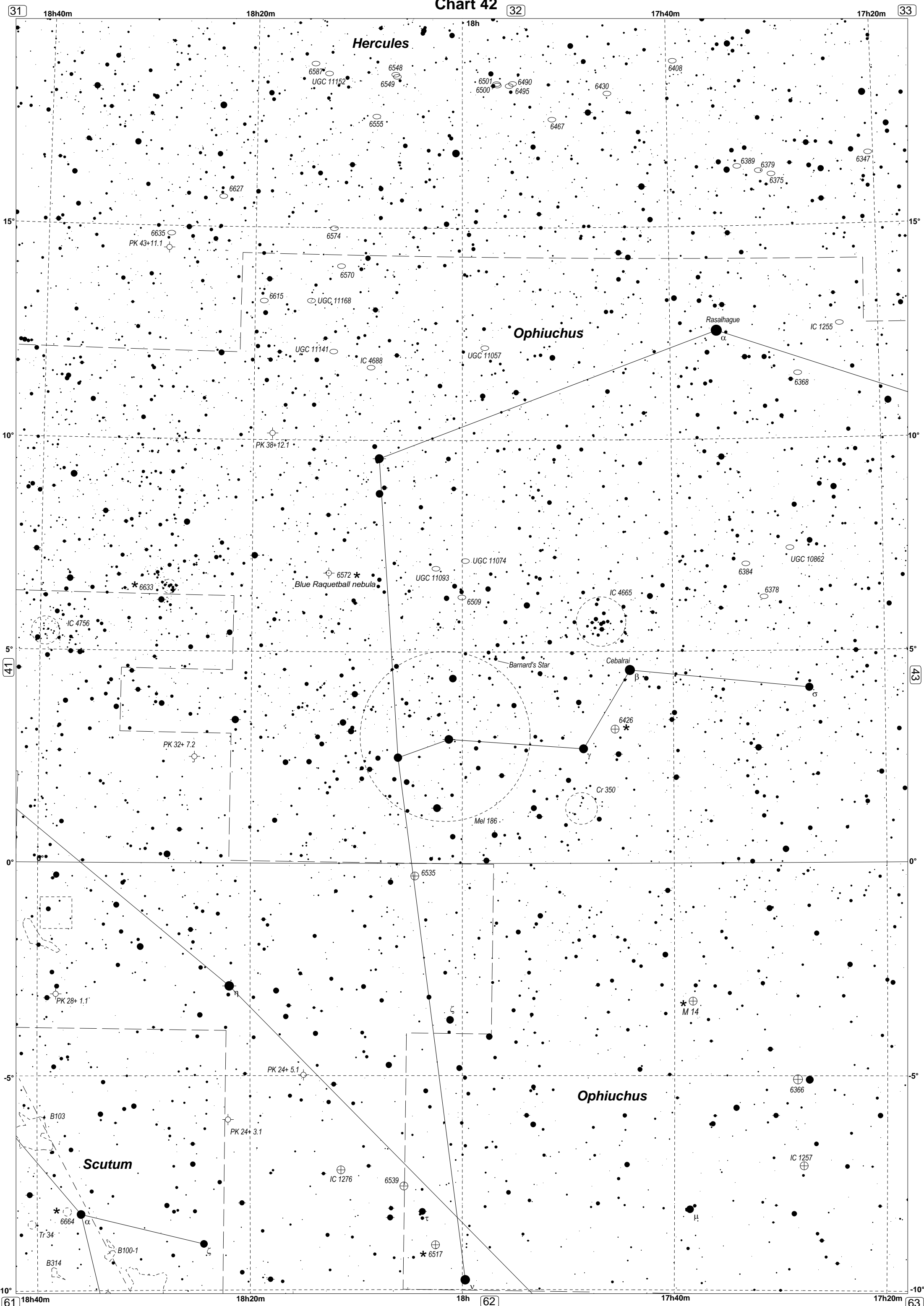
6572 *

6426 *

M 14

6664 *

6517 *



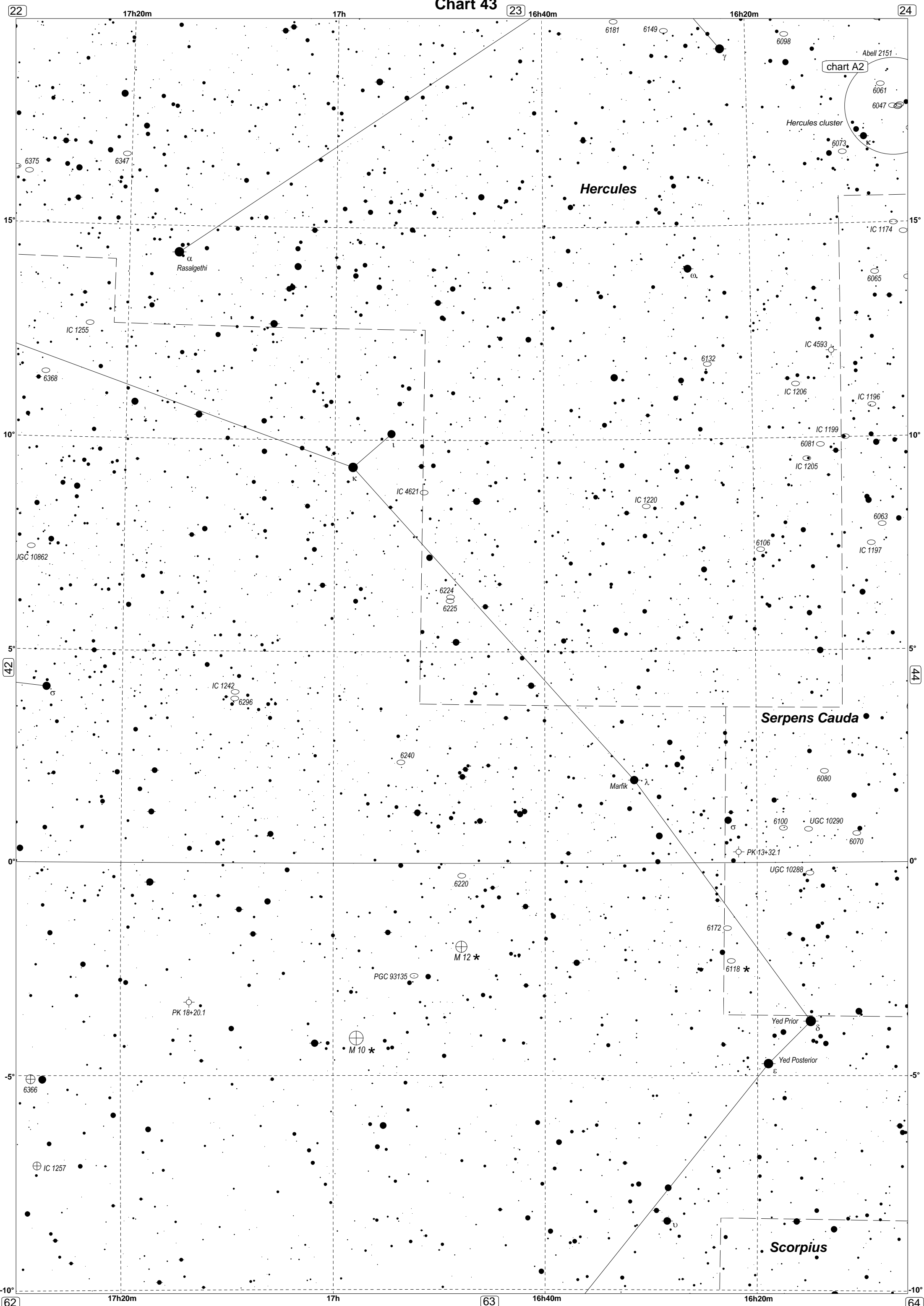


Chart 43

Hercules

Serpens Cauda

Scorpius

Rasalgethi

Marfik

Yed Prior

Yed Posterior

M 12

M 10

PGC 93135

PK 18+20.1

chart A2

Abell 2151

6061

6047

Hercules cluster

6073

IC 1174

6065

IC 4593

IC 1206

IC 1196

IC 1199

IC 1220

IC 4621

6224

6225

6106

6063

IC 1197

IC 1242

6296

6240

6220

6080

6100

UGC 10290

6070

PK 13+32.1

UGC 10288

6172

6118

6366

IC 1257

22

23

24

42

44

62

63

64

17h20m

17h

16h40m

16h20m

17h20m

17h

16h40m

16h20m

15°

15°

10°

10°

5°

5°

0°

0°

-5°

-5°

-10°

-10°

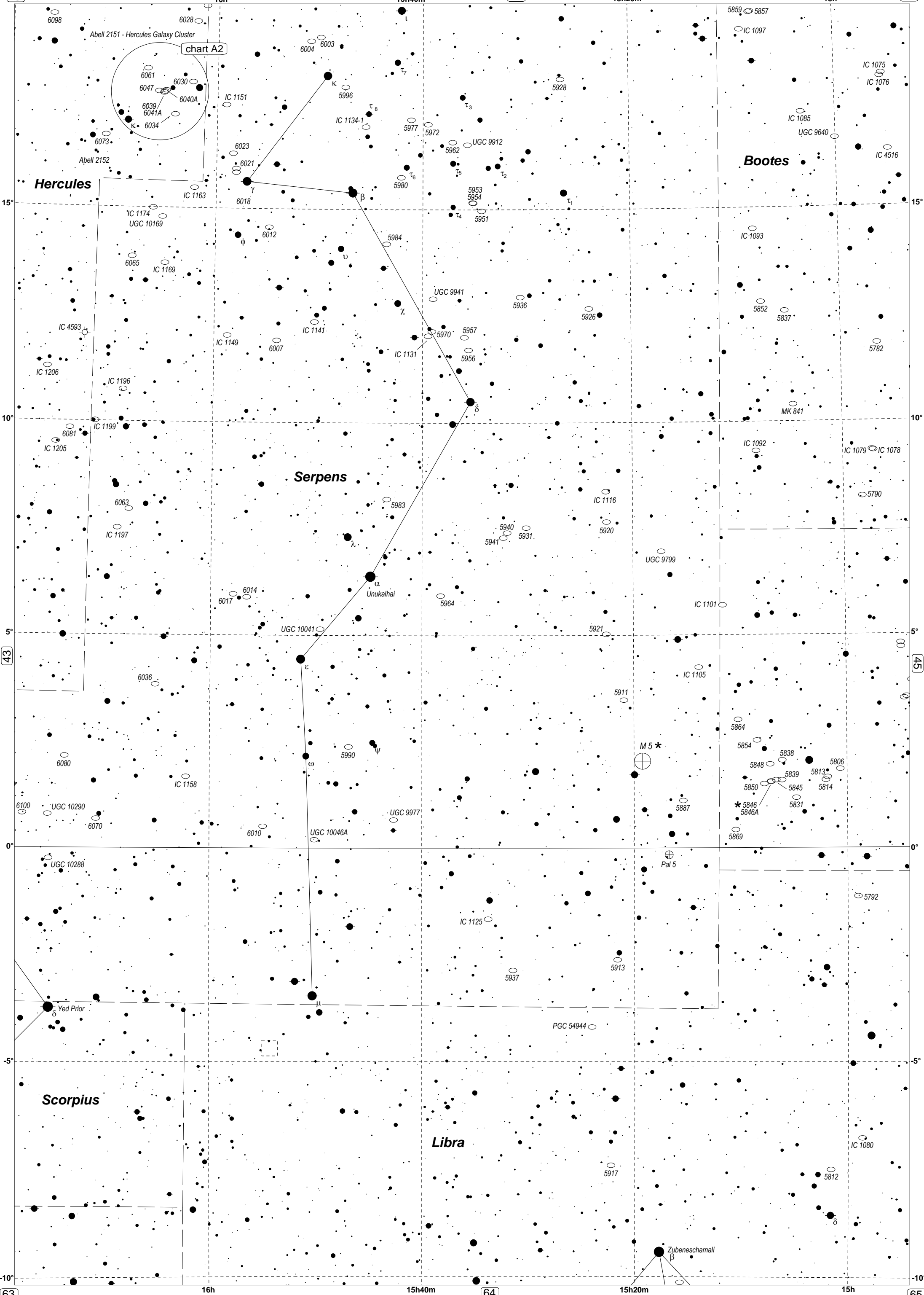
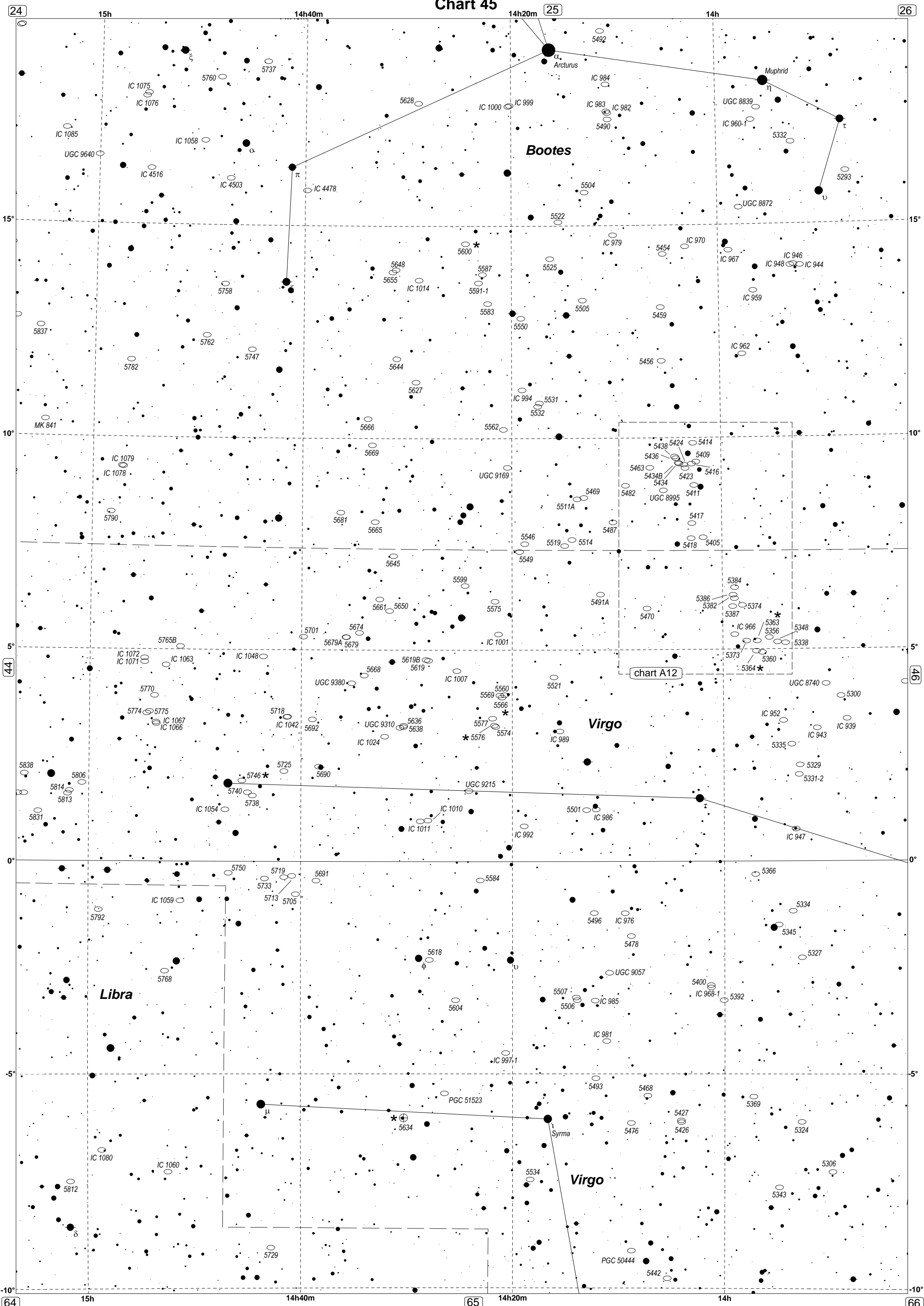
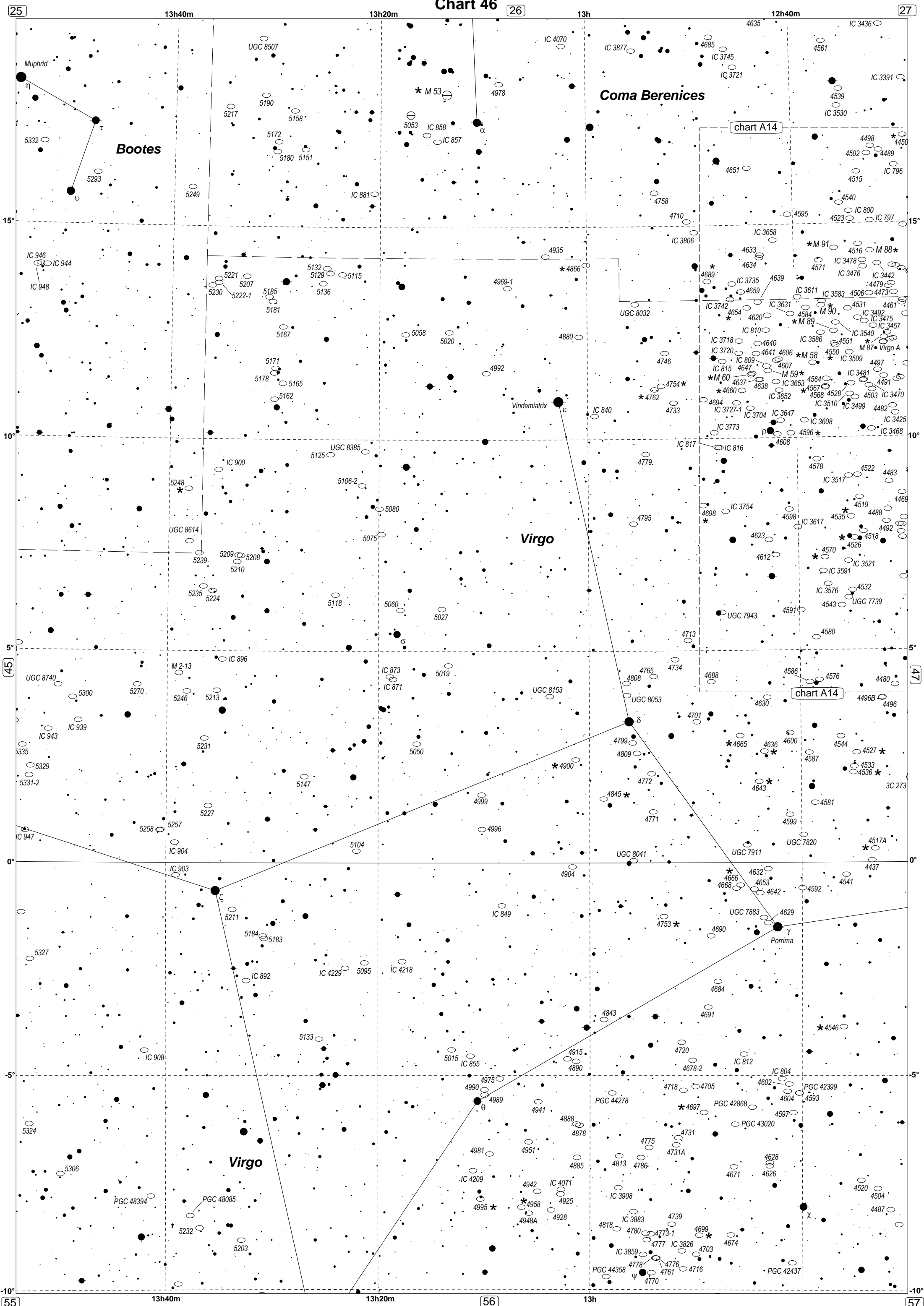


Chart 45





Bootes

Coma Berenices

Virgo

Virgo

chart A14

chart A14

25

26

27

45

47

55

56

57

13h40m

13h20m

13h

12h40m

13h40m

13h20m

13h

15°

10°

5°

0°

-5°

-10°

15°

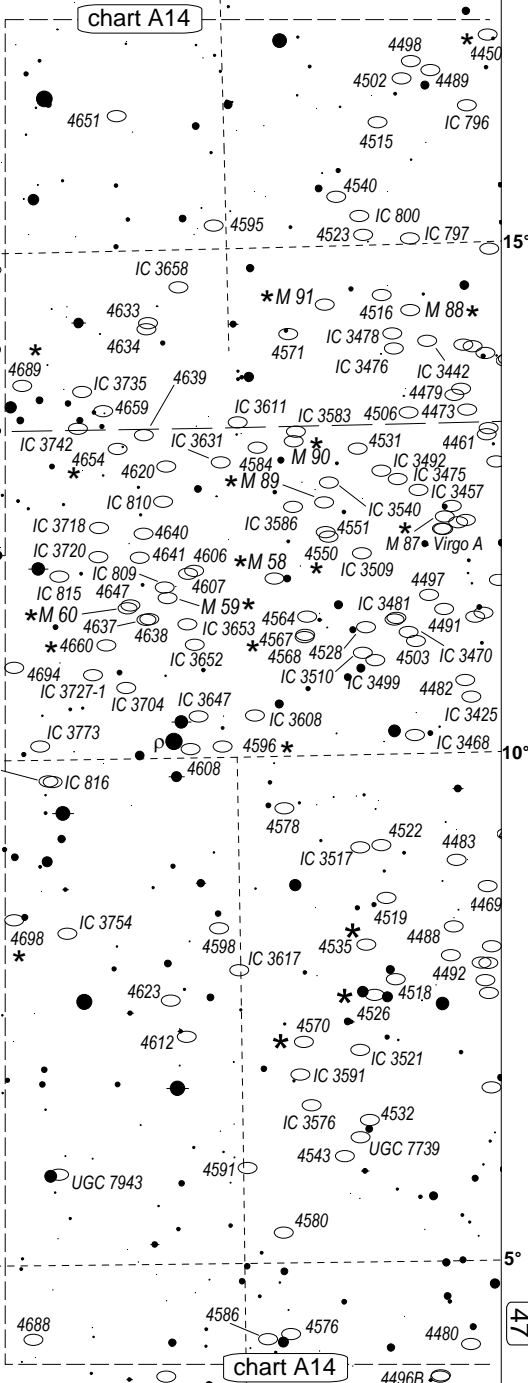
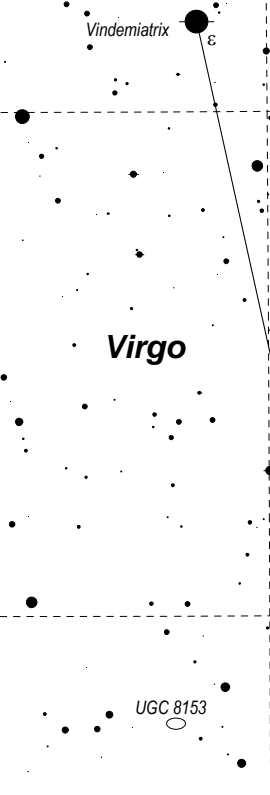
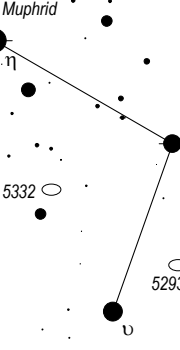
10°

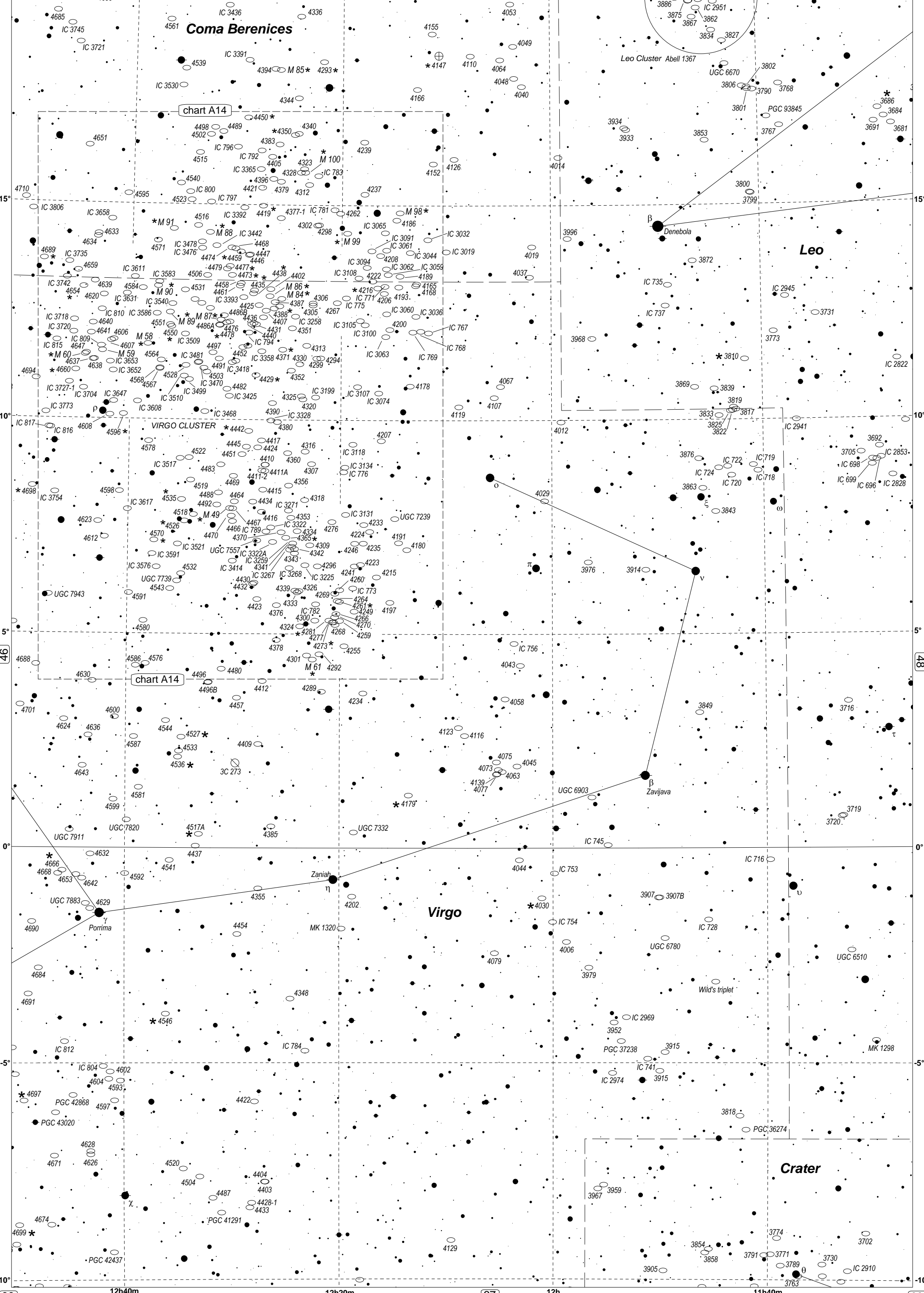
5°

0°

-5°

-10°





Coma Berenices

chart A14

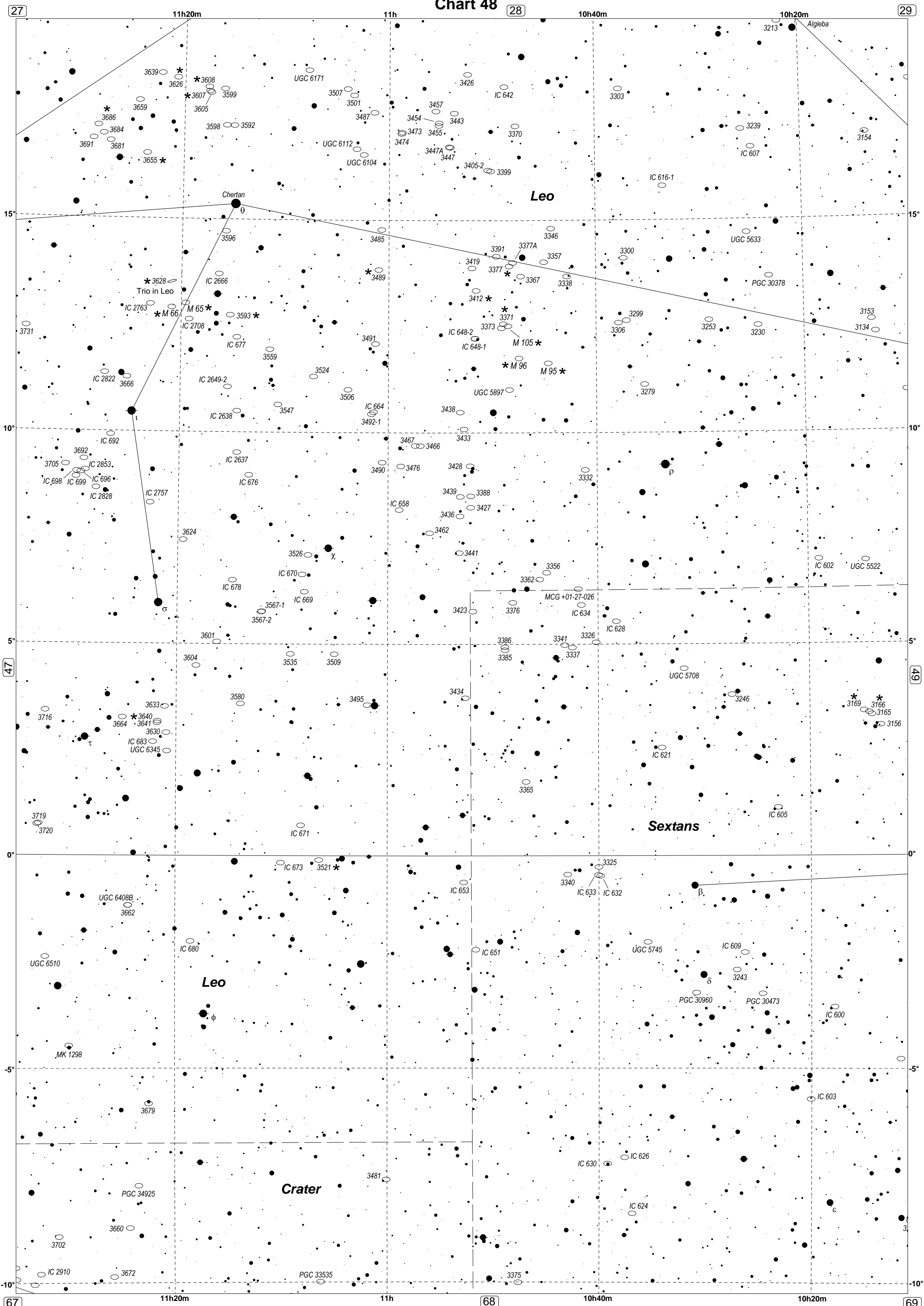
Leo Cluster Abell 1367

Leo

VIRGO CLUSTER

Virgo

Crater



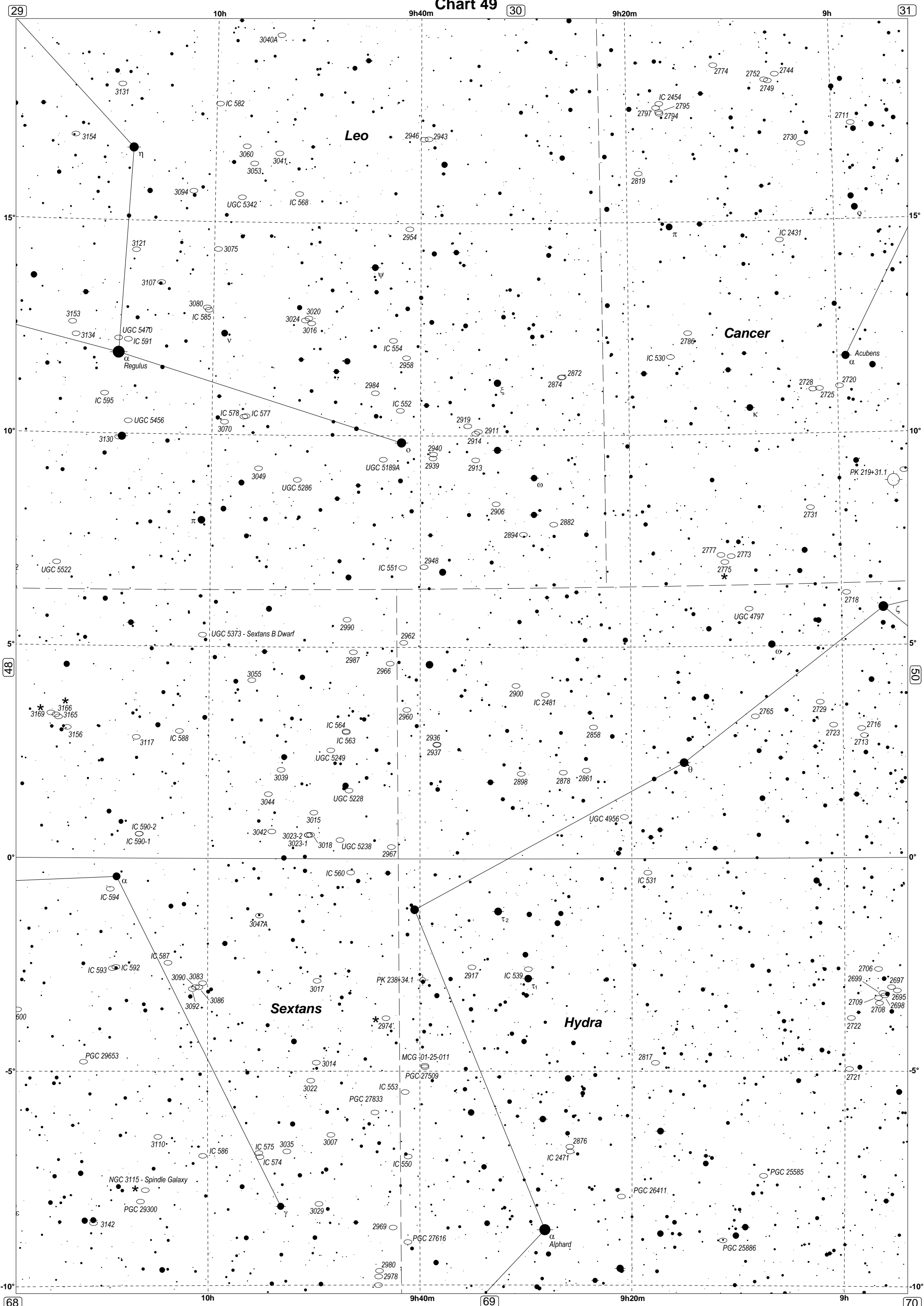


Chart 49

Leo

Cancer

Sextans

Hydra

NGC 3115 - Spindle Galaxy

29

30

31

48

50

68

69

70

10h

9h40m

9h20m

9h

15°

10°

5°

0°

-5°

-10°

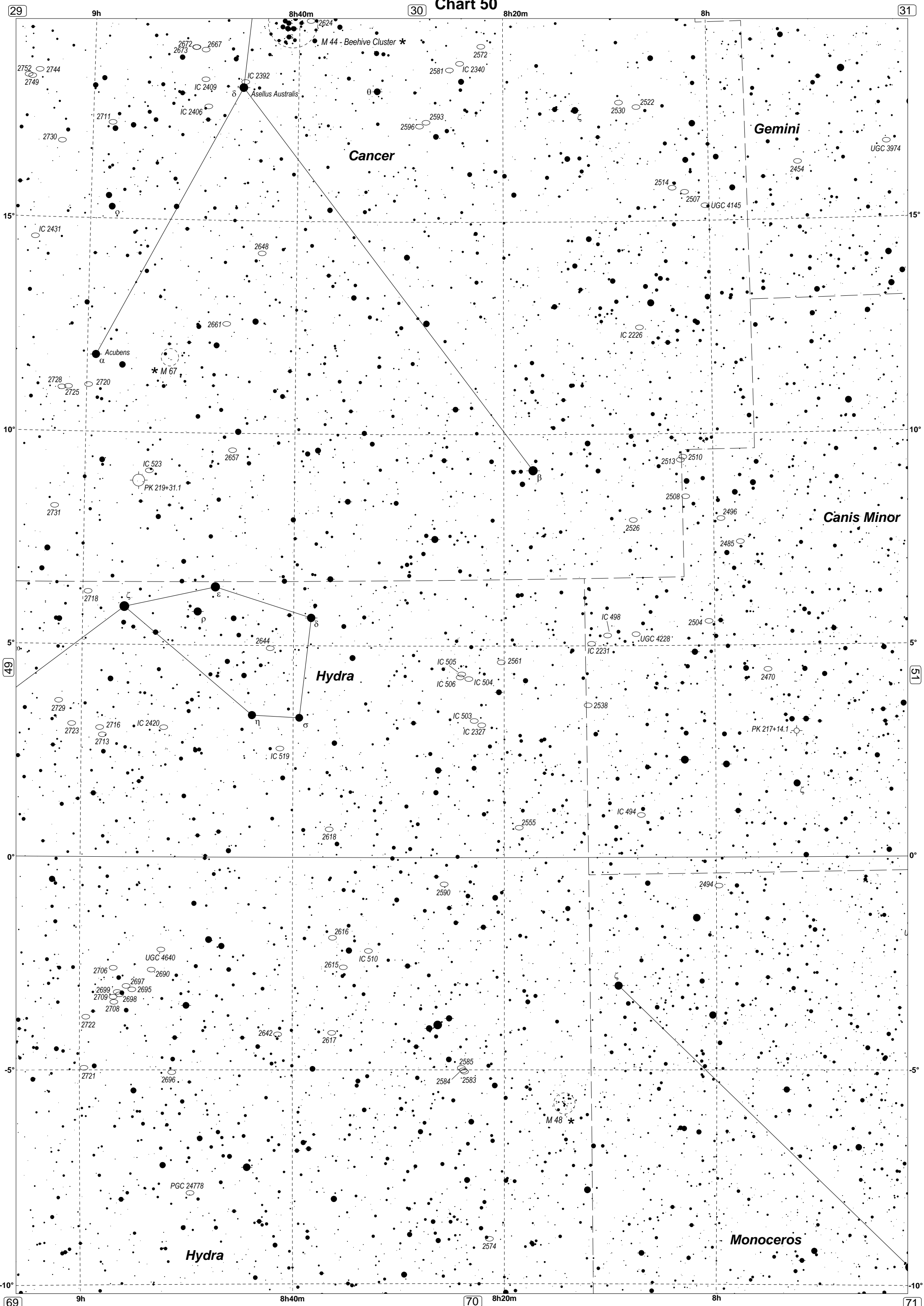
10h

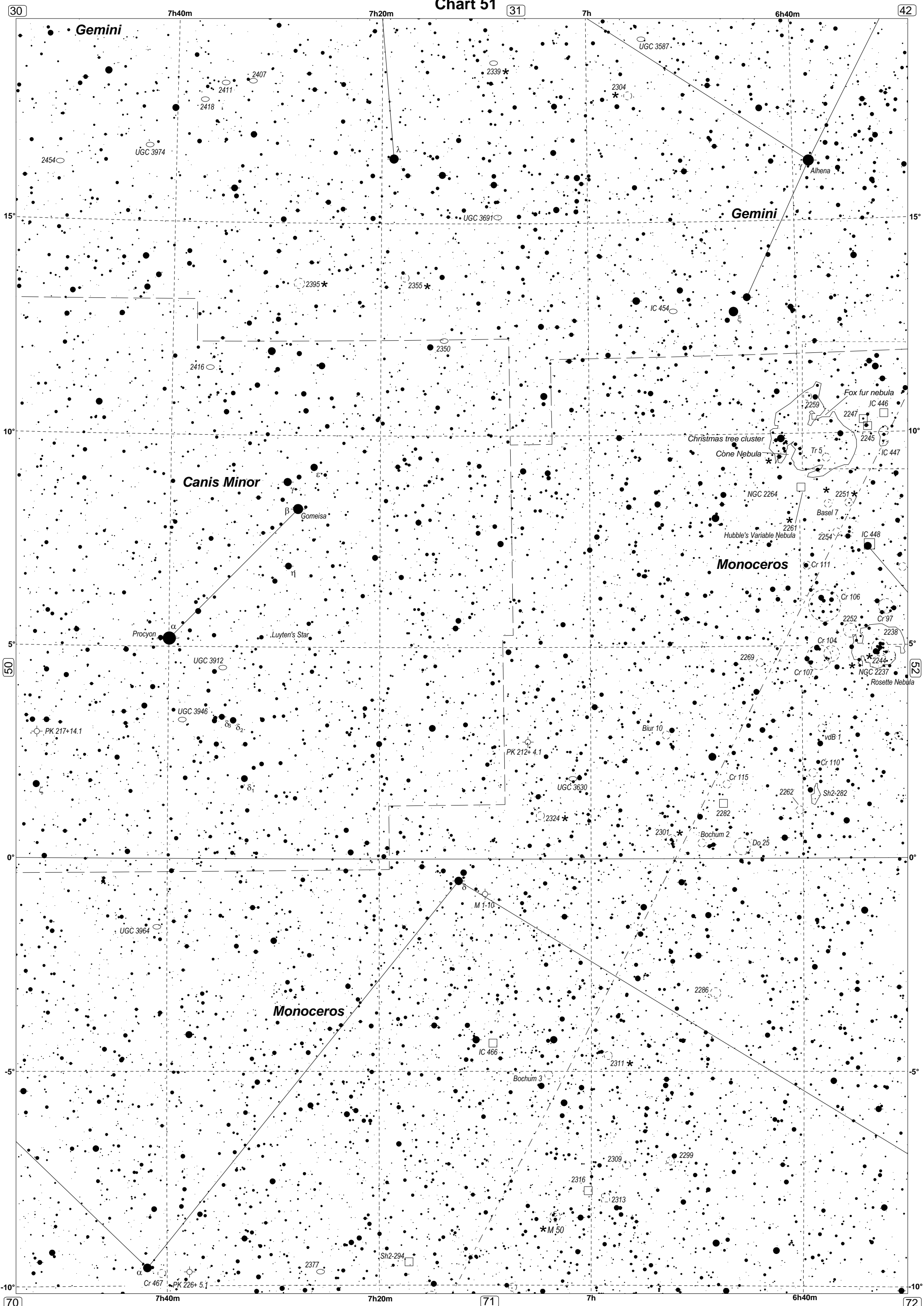
9h40m

9h20m

9h

70





Gemini

Gemini

Canis Minor

Monoceros

Monoceros

30

7h40m

7h20m

Chart 51

31

7h

6h40m

42

15°

15°

10°

10°

5°

5°

0°

0°

-5°

-5°

-10°

-10°

70

7h40m

7h20m

71

7h

6h40m

72

2454

UGC 3974

2411
2418

2407

2339

2304

Alhena

UGC 3691

2395

2355

IC 454

2416

2350

Fox fur nebula
IC 446
2247
2245
IC 447

Christmas tree cluster
Cone Nebula

NGC 2264

2251

Basel 7

Hubble's Variable Nebula

2254

IC 448

Cr 111

Cr 106

2252

Cr 97

2238

Cr 104

2244

NGC 2237

Rosette Nebula

Procyon

UGC 3912

Gomeisa

Luyten's Star

UGC 3946

PK 217+14.1

δ₃
δ₂

δ₁

PK 212+ 4.1

UGC 3630

2324

Blur 10

Cr 115

2282

Bochum 2

Do 25

2262

vdB 1

Cr 110

2262

Sh2-282

UGC 3964

M 1-10

IC 466

Bochum 3

2311

2309

2299

2316

2313

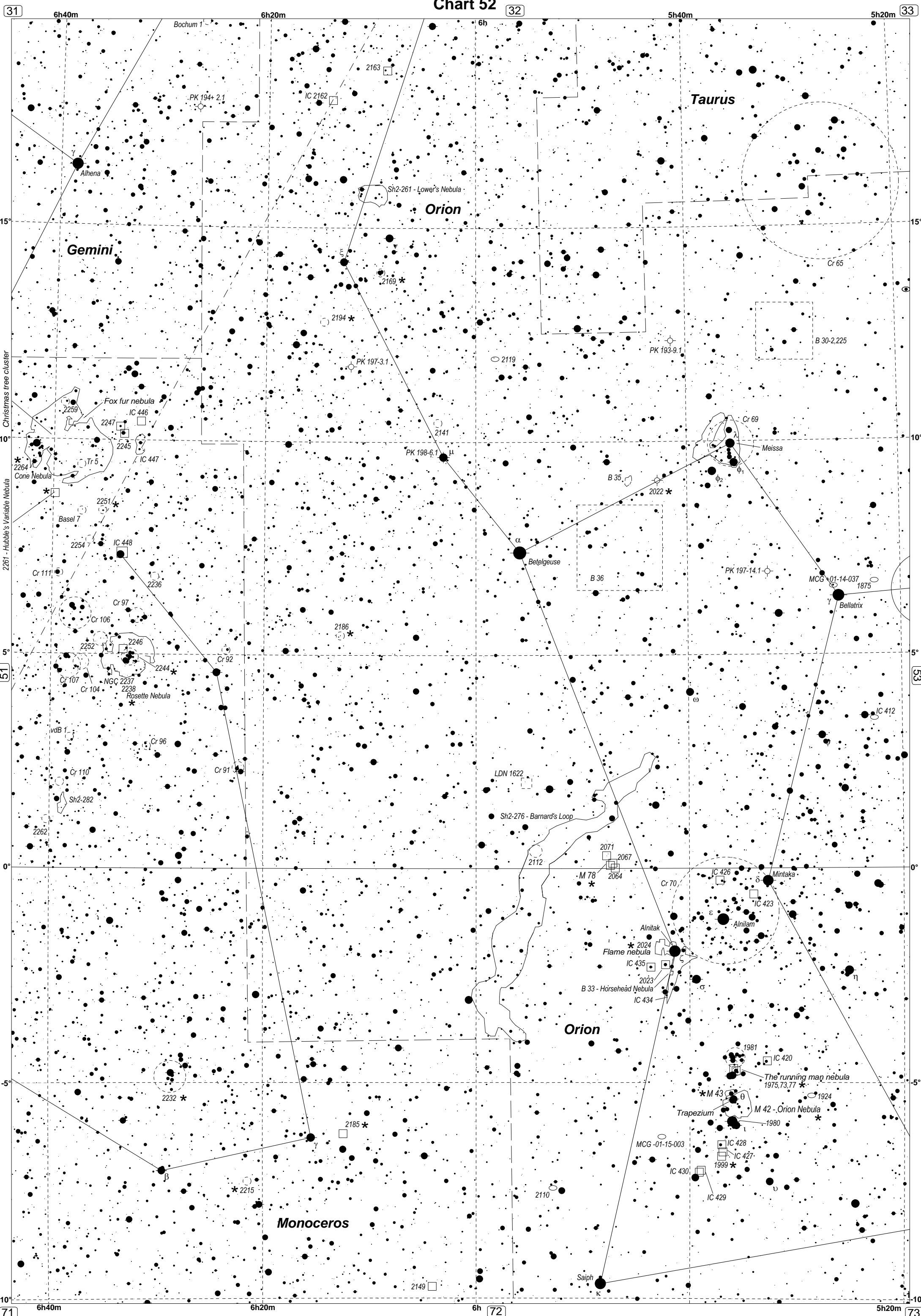
M 50

Sh2-294

2377

Cr 467

PK 226+ 5.1



Gemini

Taurus

Orion

Orion

Monoceros

Christmas tree cluster
2261 - Hubble's Variable Nebula

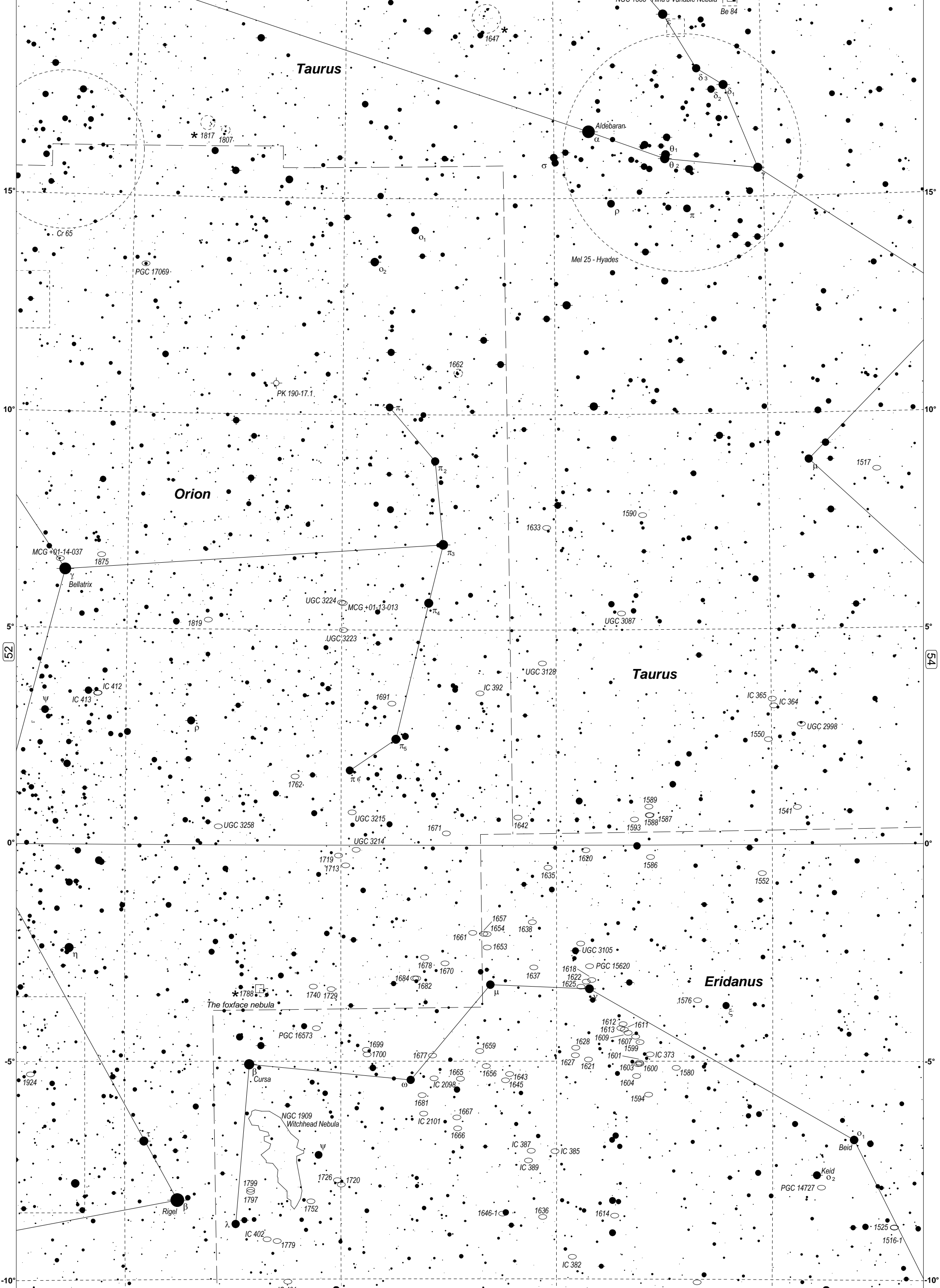
51

53

71

72

73



Taurus

Orion

Taurus

Eridanus

NGC 1555 - Hind's Variable Nebula

Be 84

Aldebaran α

PGC 17069

PK 190-17.1

MCG +01-14-037

UGC 3224 MCG +01-13-013

UGC 3223

UGC 3128

IC 412

IC 413

1691

IC 392

IC 365

IC 364

1819

1762

UGC 3215

1671

1642

1589

1593

1588

1587

1541

1719

1713

1657

1654

1638

1663

1661

UGC 3105

PGC 15620

1618

1622

1625

1612

1613

1611

1609

1607

1599

1601

1603

1600

1604

1594

IC 373

1576

1552

1924

The foxface nebula

PGC 16573

1699

1700

1677

1659

1665

1656

1643

1645

1681

IC 2098

1667

1666

IC 387

IC 385

IC 389

NGC 1909

Witchhead Nebula

ν

1726

1720

1752

1799

1797

1799

1797

1799

1797

1799

1797

IC 402

1779

1646-1

1636

1614

IC 382

PGC 14727

Beid δ_1

Keid δ_2

1525

1516-1

1517

1590

1633

1590

1517

Mel 25 - Hyades

σ

δ_3

δ_2

δ_1

θ_1

θ_2

ρ

π

α_1

α_2

π_1

π_2

π_3

π_4

π_5

π_6

γ

β

ψ

ρ

η

τ

Rigel β

λ

ω

μ

ν

γ

δ_1

δ_2

δ_2

δ_2

δ_2

δ_2

δ_2

δ_2

PK 171-25.1

IC 1977

Aries

Taurus

Cetus

Eridanus

1134
IC 267

IC 1867
IC 1865

α
Menkar

1153
IC 273
1137

1517

1474

1349

IC 338

UGC 2748

IC 315

IC 302

1218

1219

GC 2998

1410
1409

IC 331

1280

IC 307

1211

1194

1142 1141

1507

1298

1289

1266

1253A

1239

1222

1453

1441

IC 347

1451

1449

1424

1417

1418

1397

1355

1358

1328

1304

1248

1299

1285

1303

1286

Beid

Keid
O₂

PGC 14727

1516-1

1525

1505

1445

1363

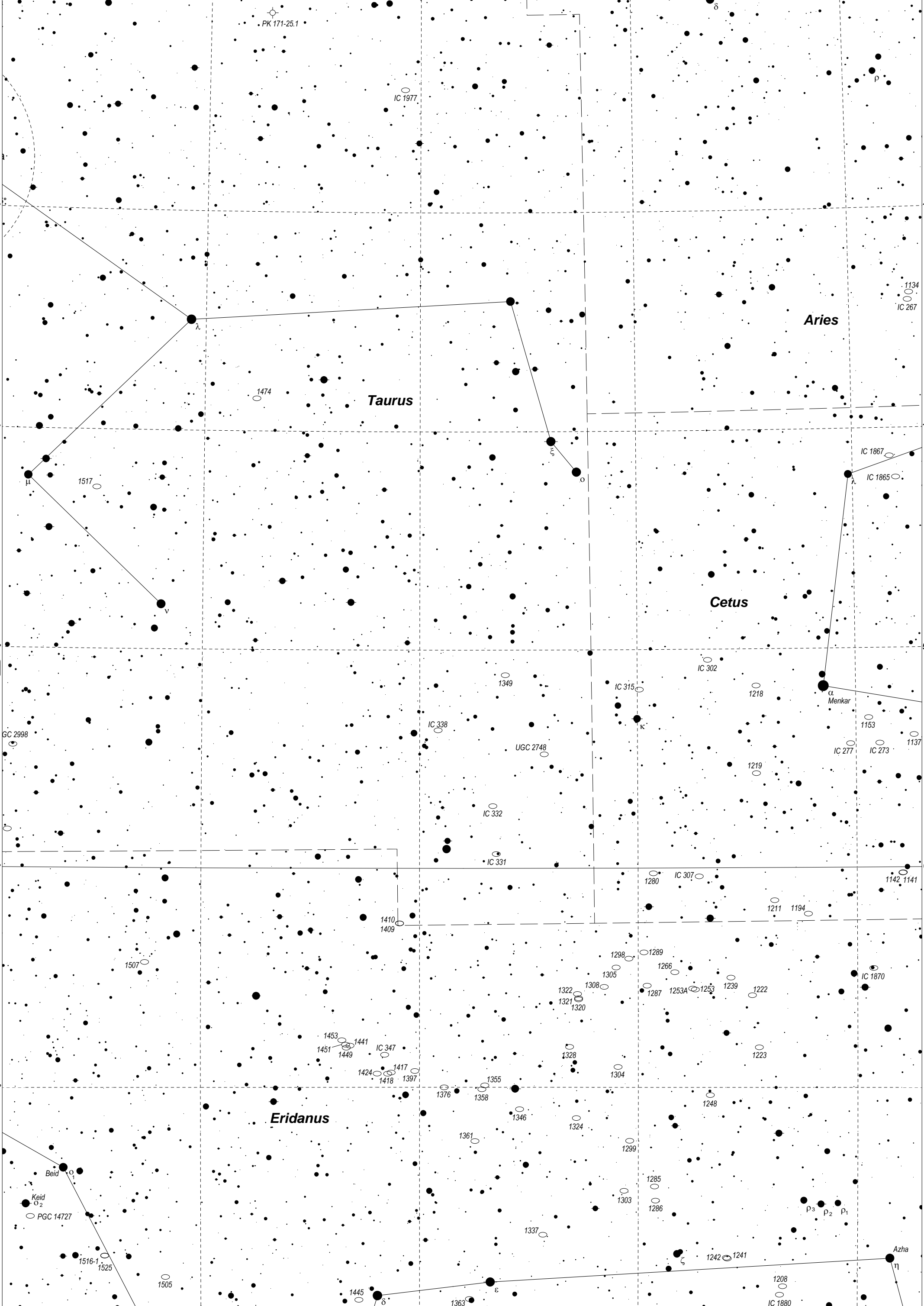
1242

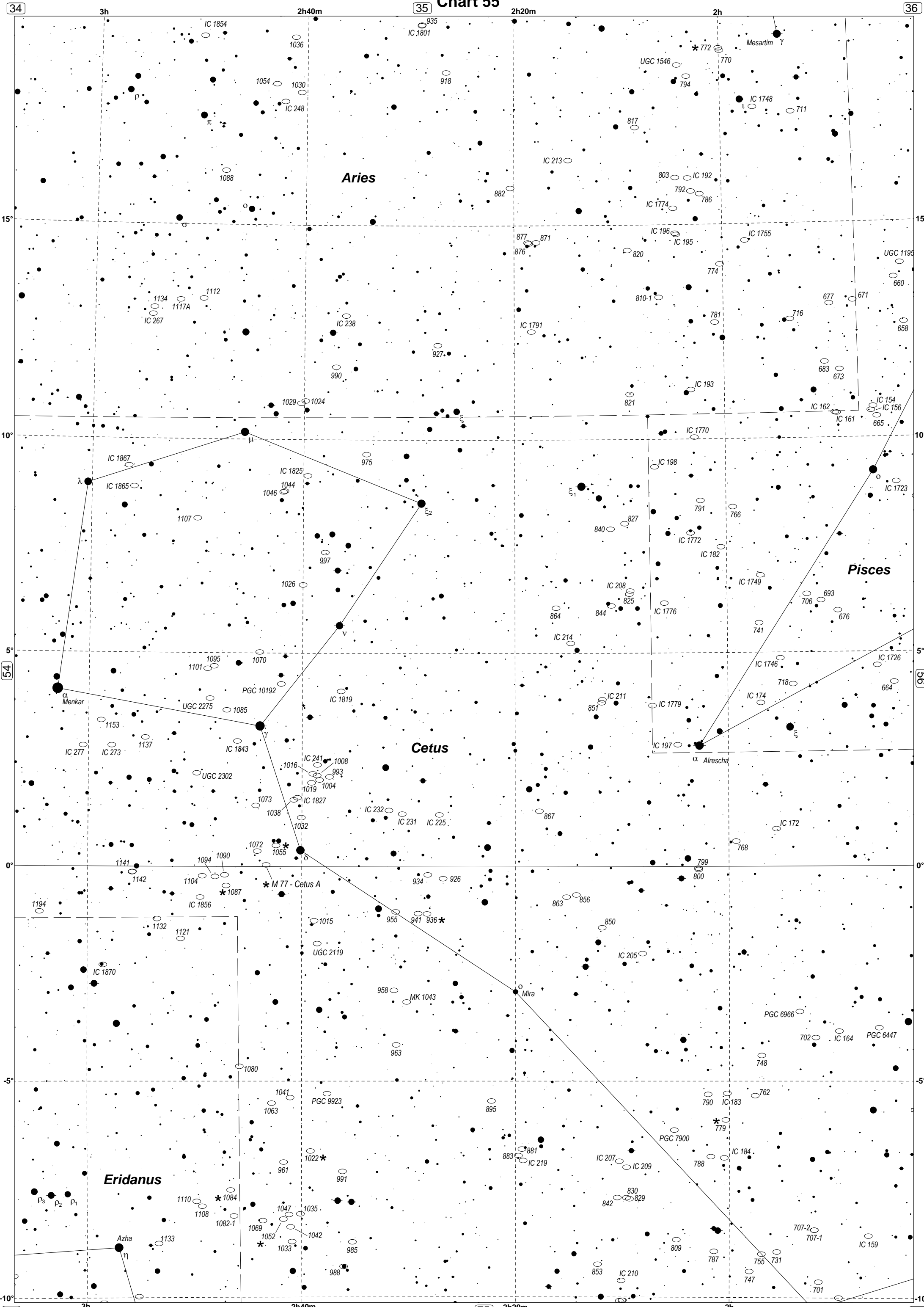
1241

1208

IC 1880

Azha
η





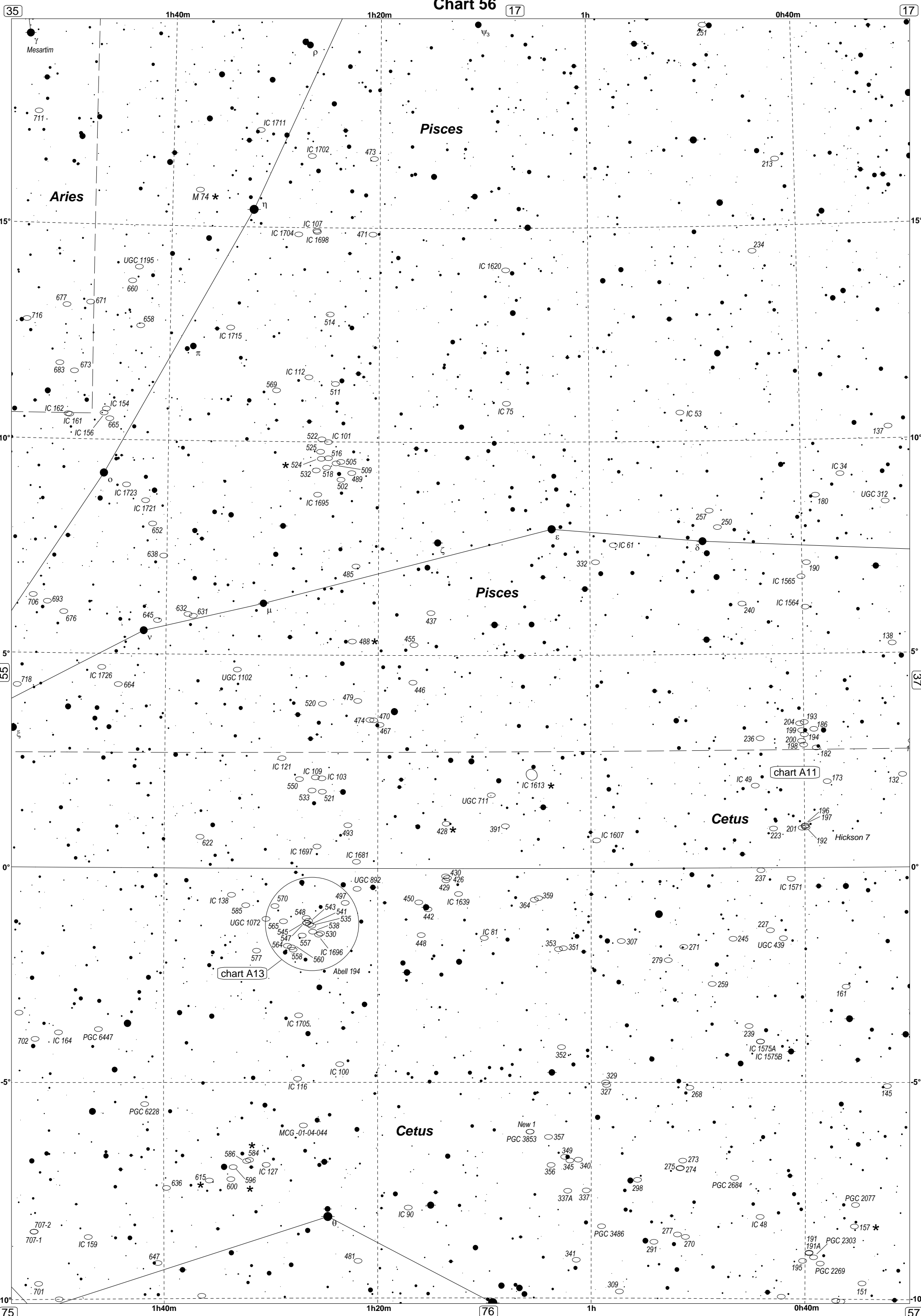


Chart 56

Aries

Pisces

Pisces

Cetus

Cetus

chart A13

chart A11

Hickson 7

35

17

17

55

37

75

76

57

1h40m

1h20m

1h

0h40m

1h40m

1h20m

1h

0h40m

15°

15°

10°

10°

5°

5°

0°

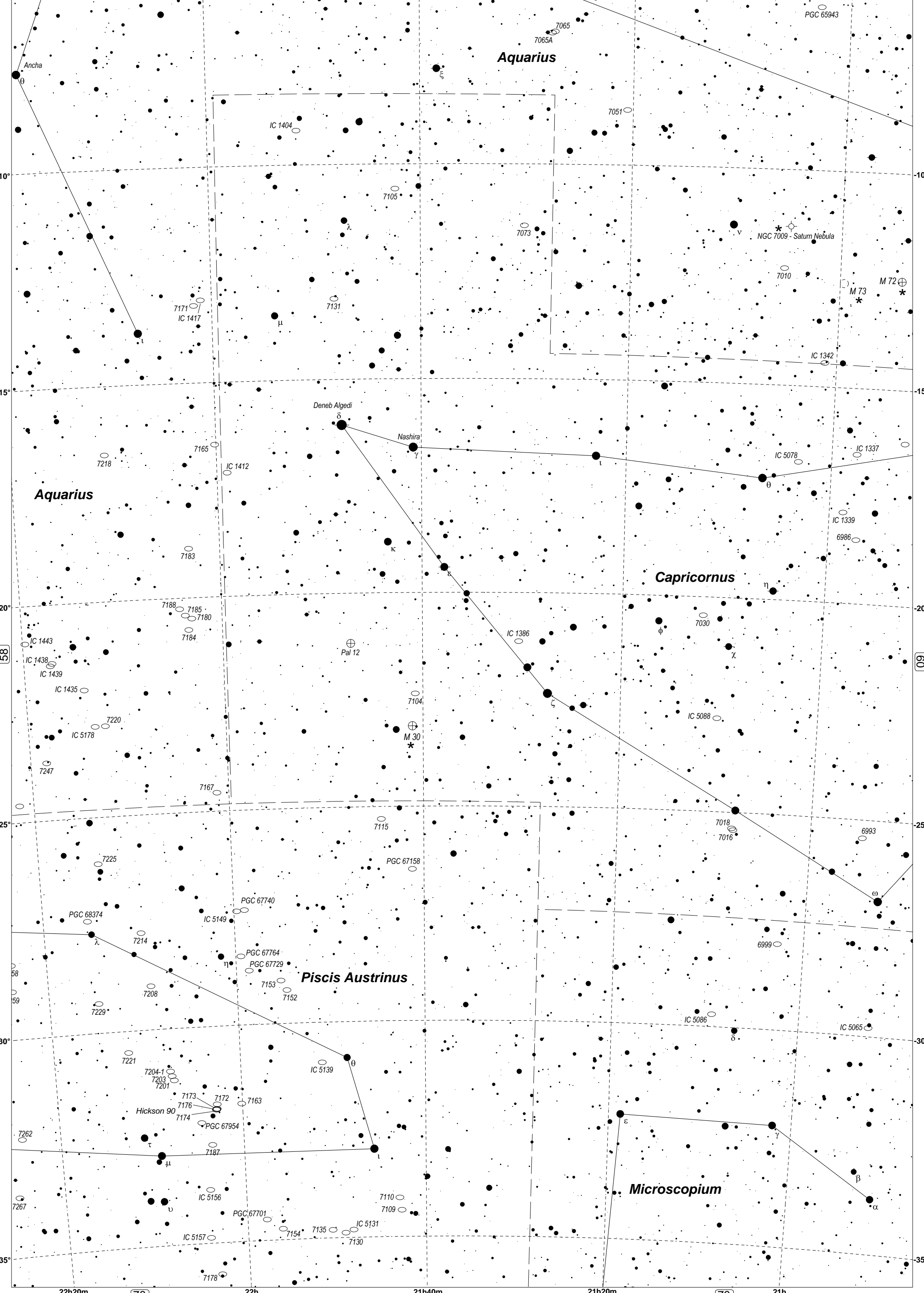
0°

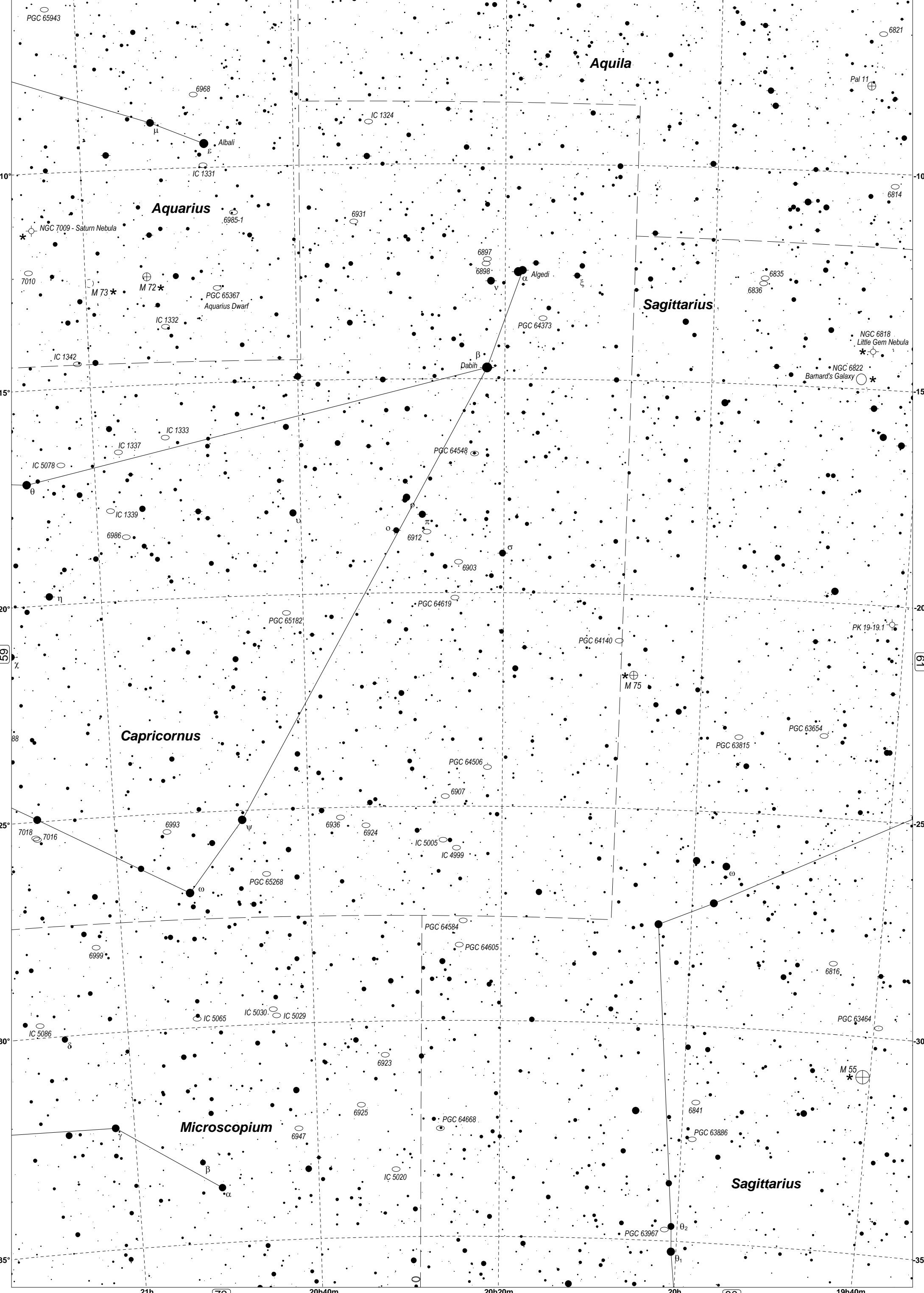
-5°

-5°

-10°

-10°





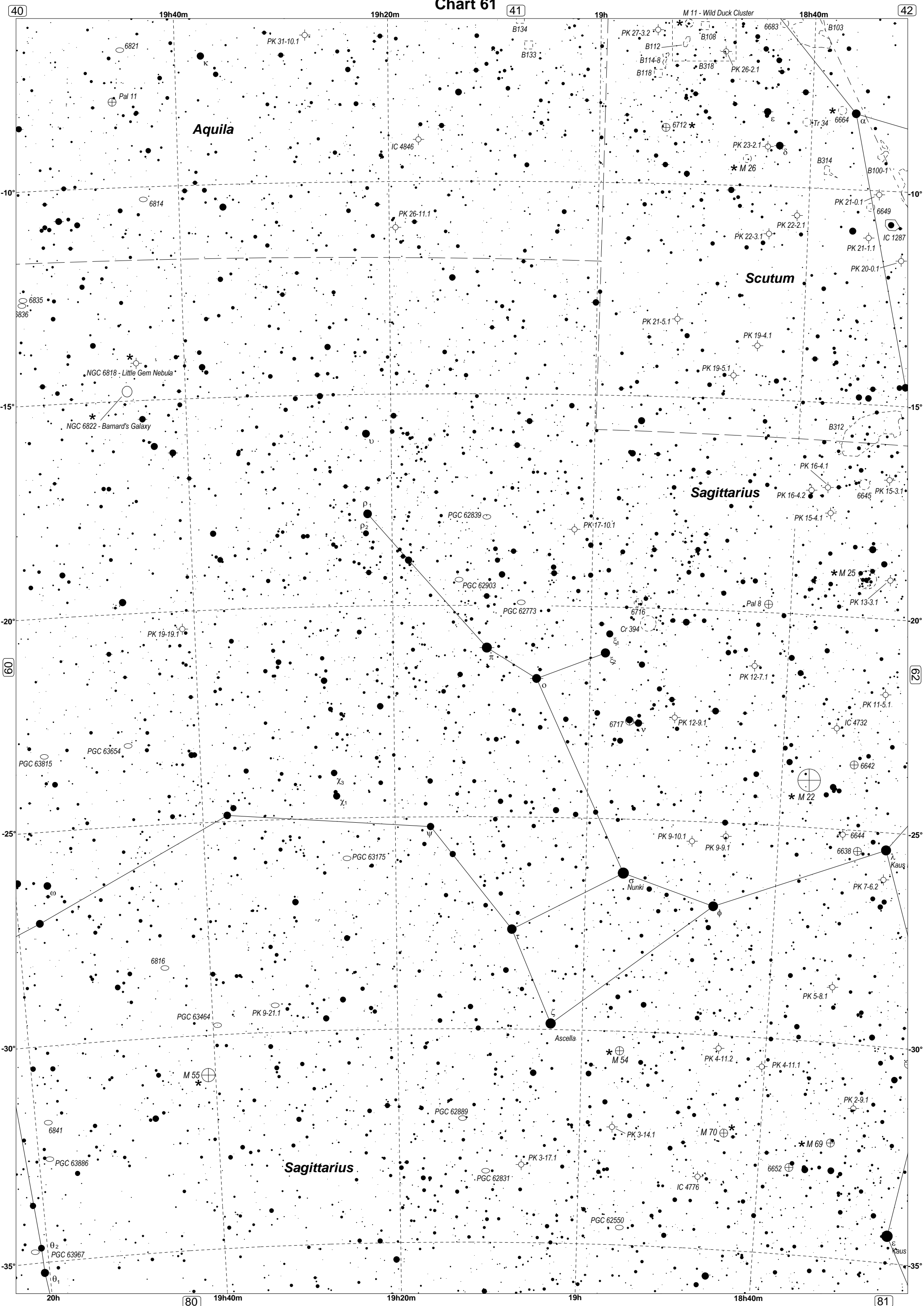


Chart 61

Aquila

Scutum

Sagittarius

Sagittarius

M 11 - Wild Duck Cluster

NGC 6818 - Little Gem Nebula

NGC 6822 - Barnard's Galaxy

Cr 394

ε Kaus

κ Kaus

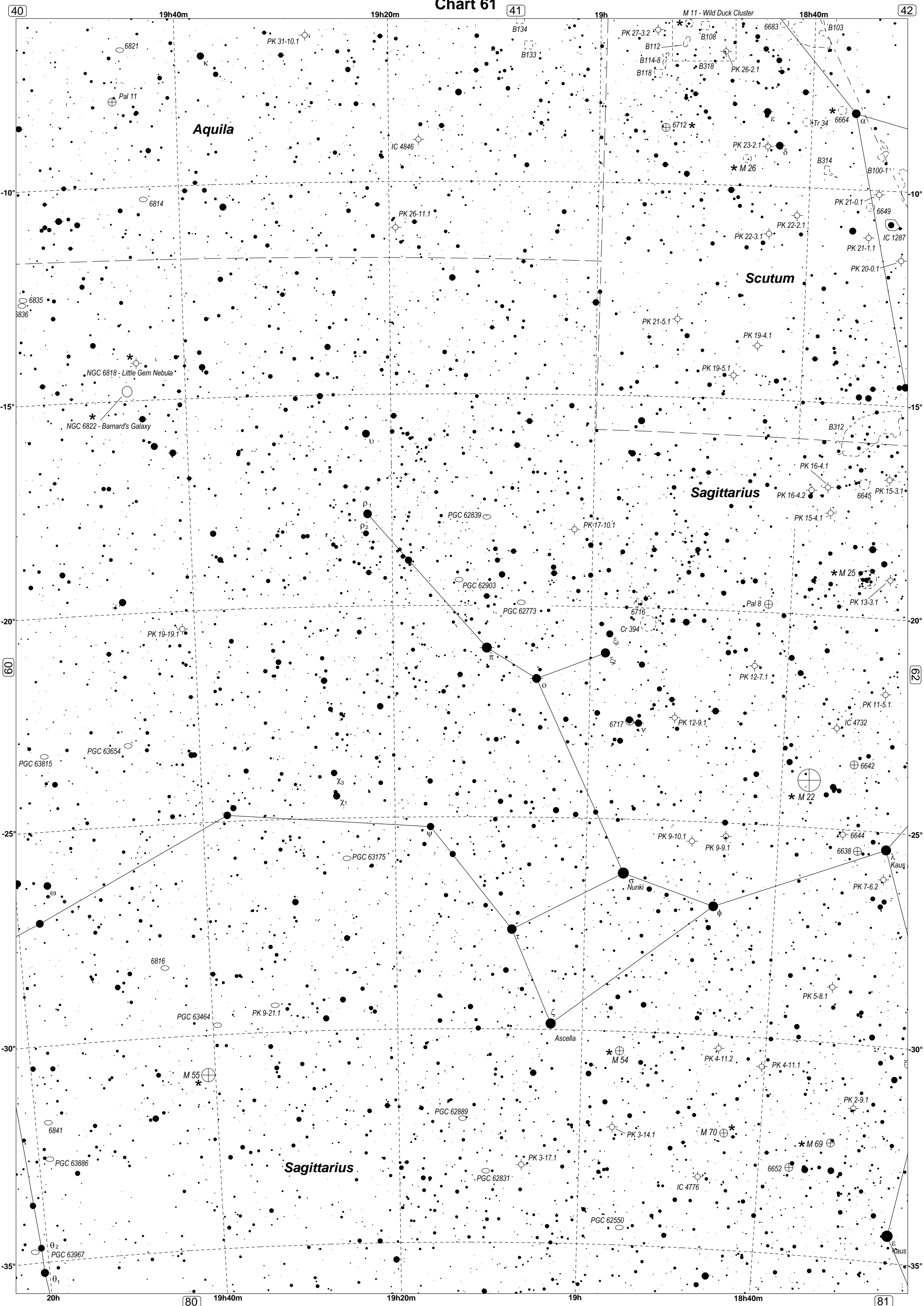


Chart 61

Aquila

Scutum

Sagittarius

Sagittarius

M 11 - Wild Duck Cluster

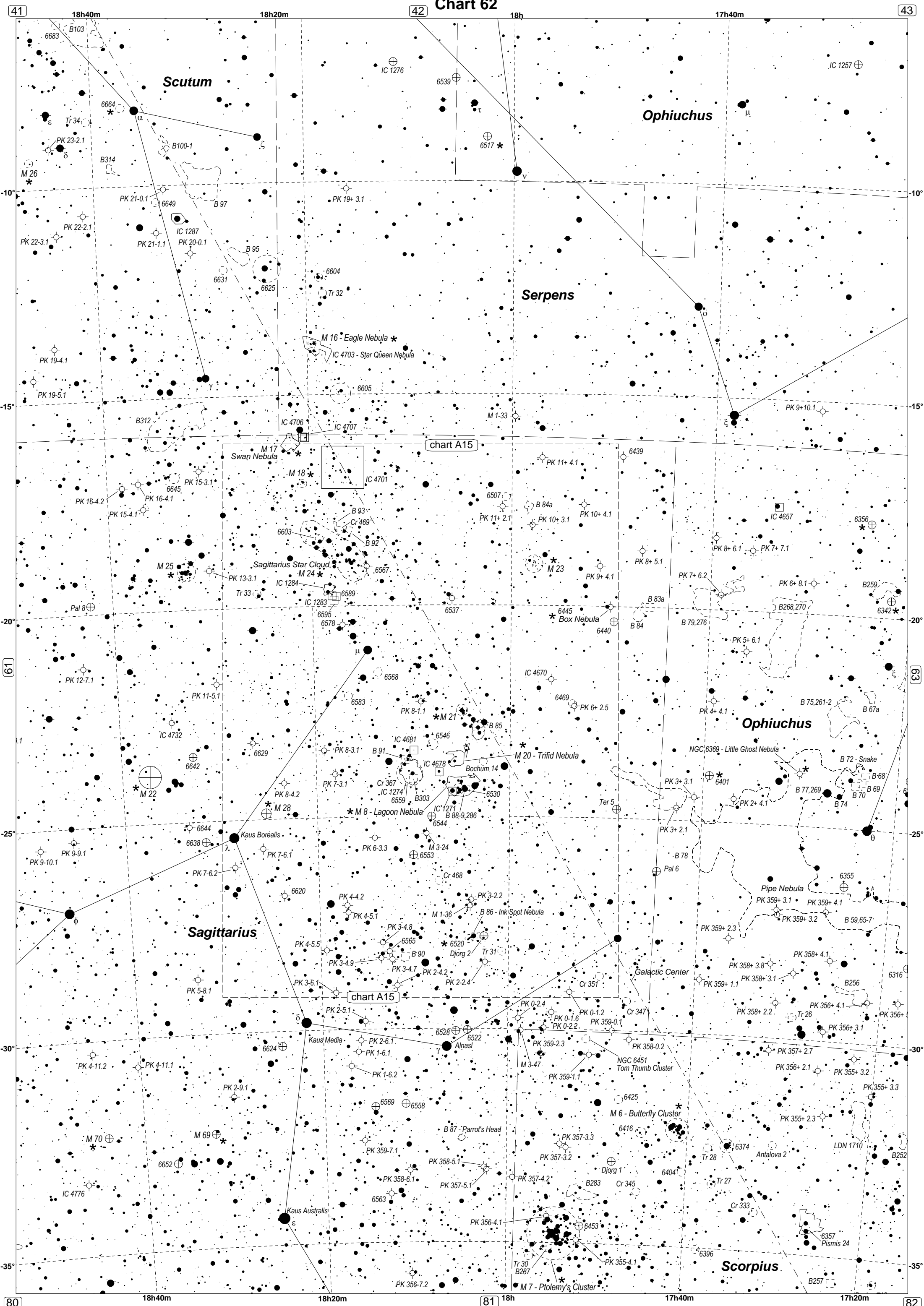
NGC 6818 - Little Gem Nebula

NGC 6822 - Barnard's Galaxy

Cr 394

ε Kaus

κ Kaus

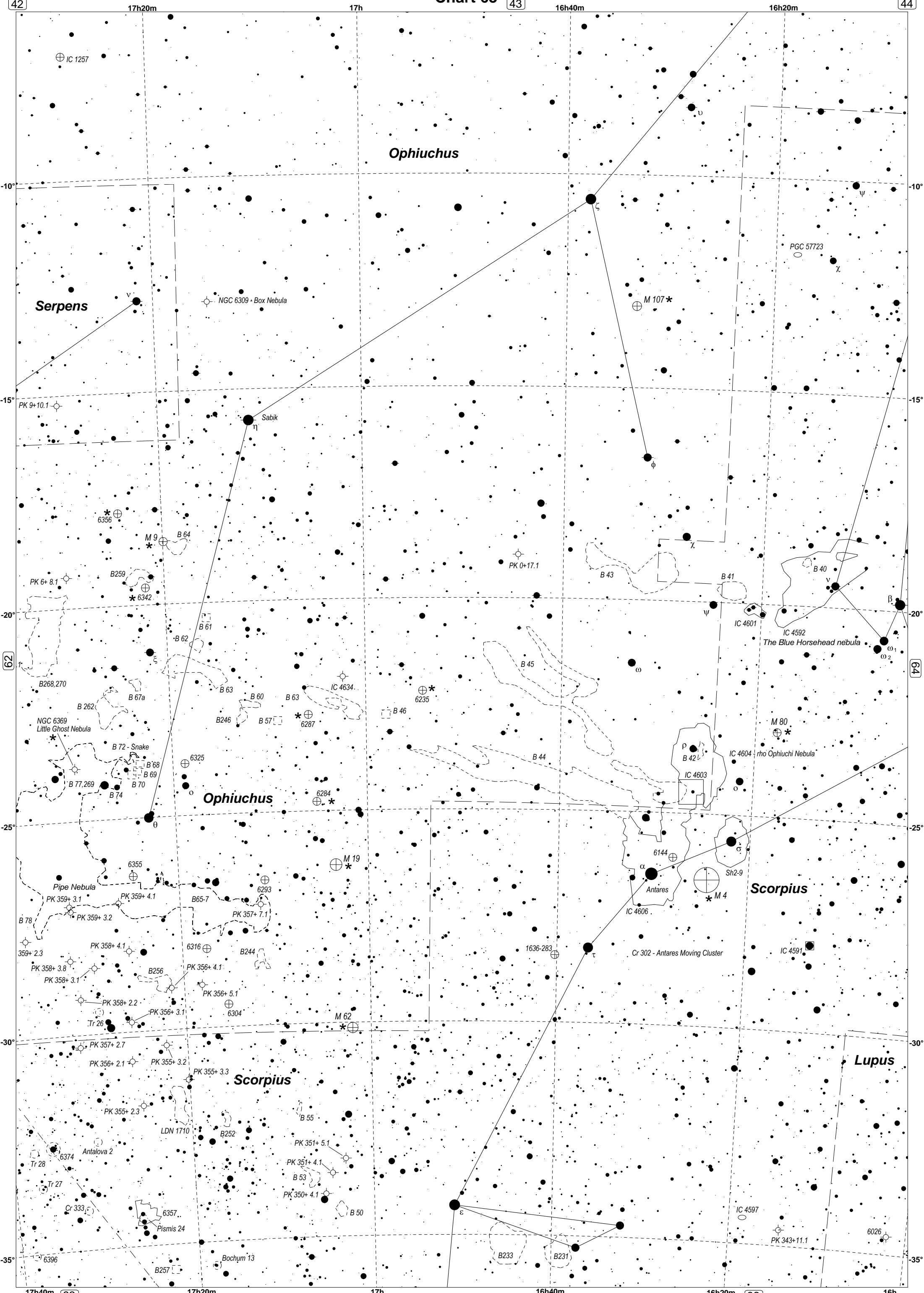


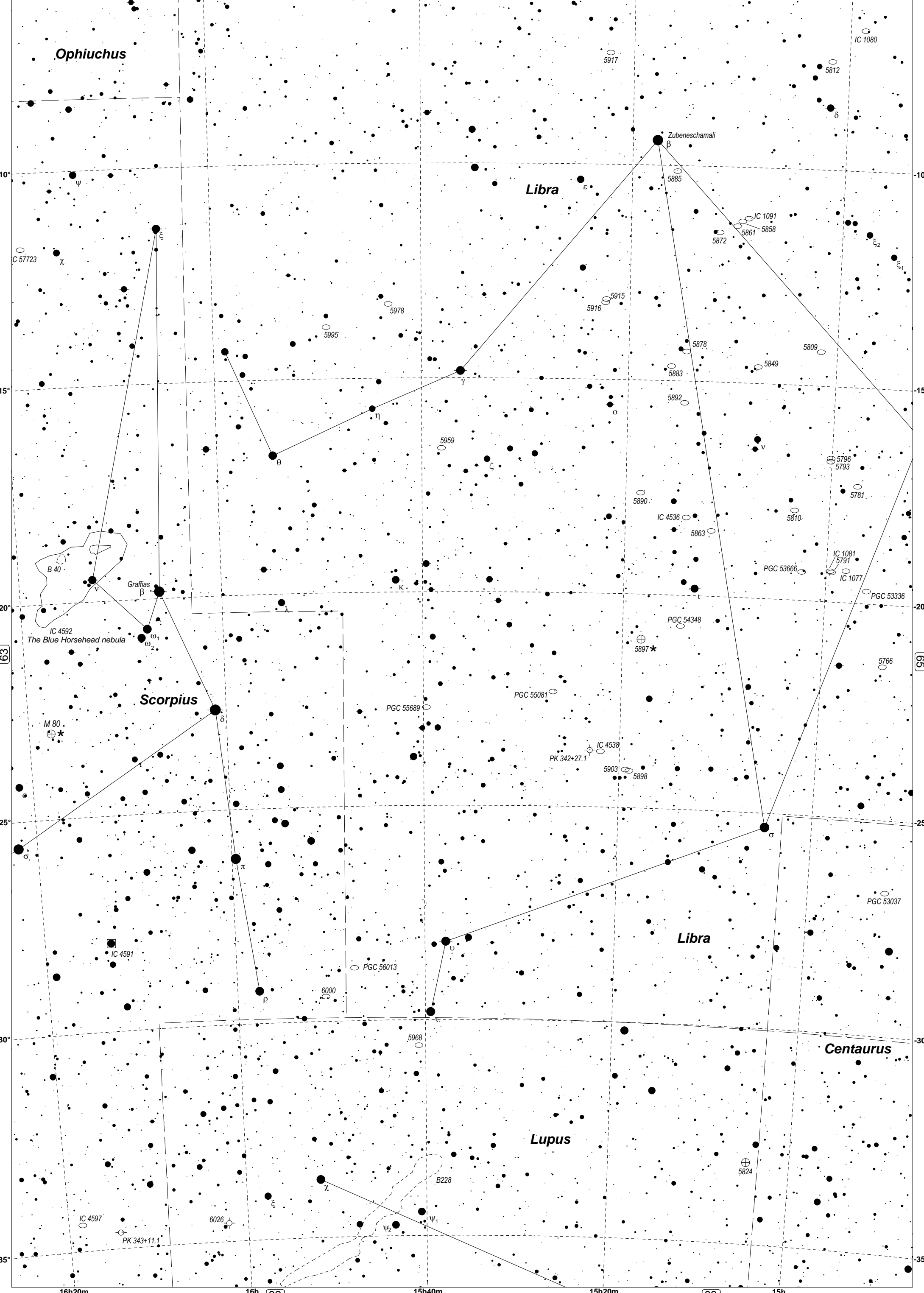
Ophiuchus

Serpens

Scorpius

Lupus





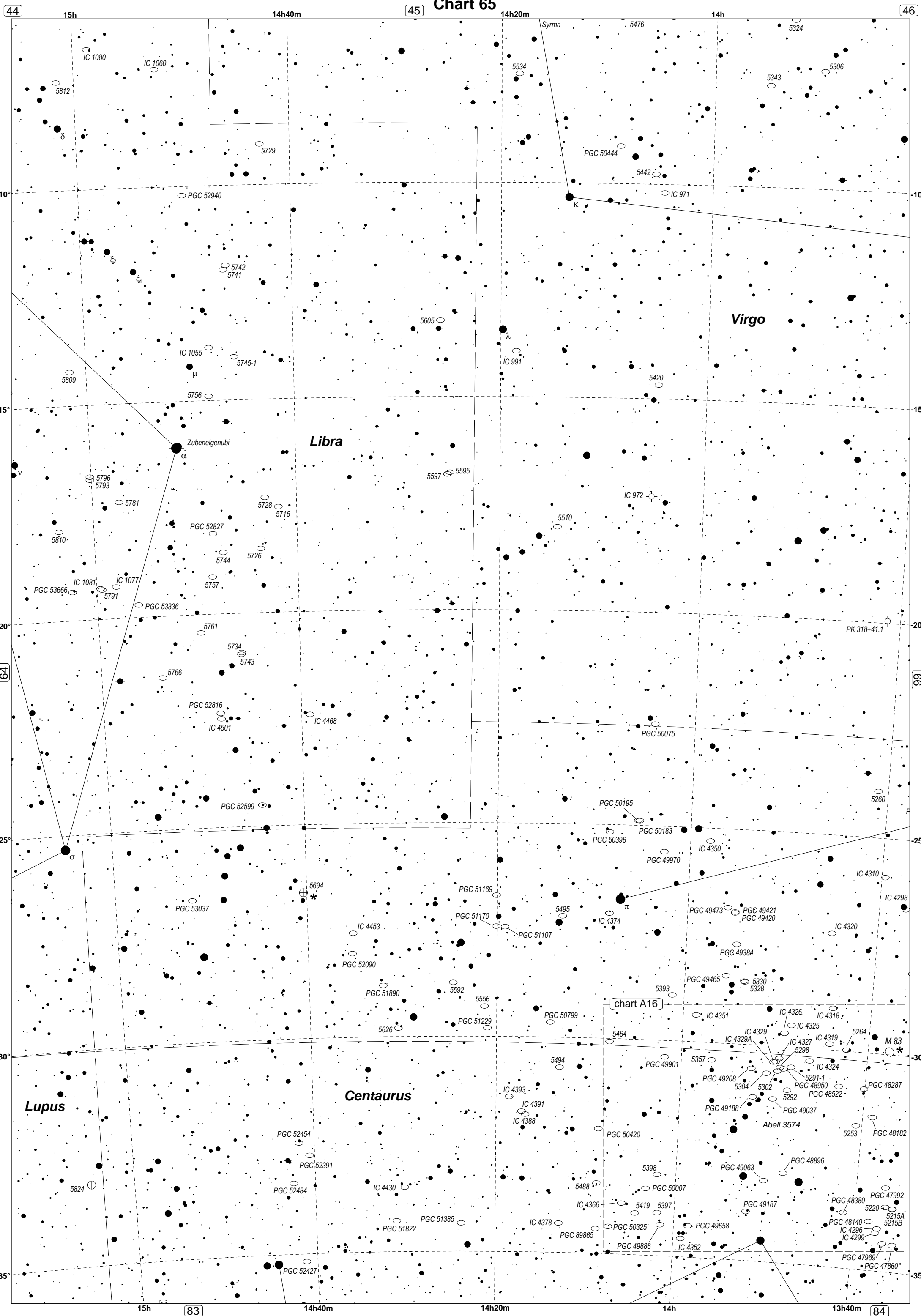


Chart 65

Virgo

Libra

Centaurus

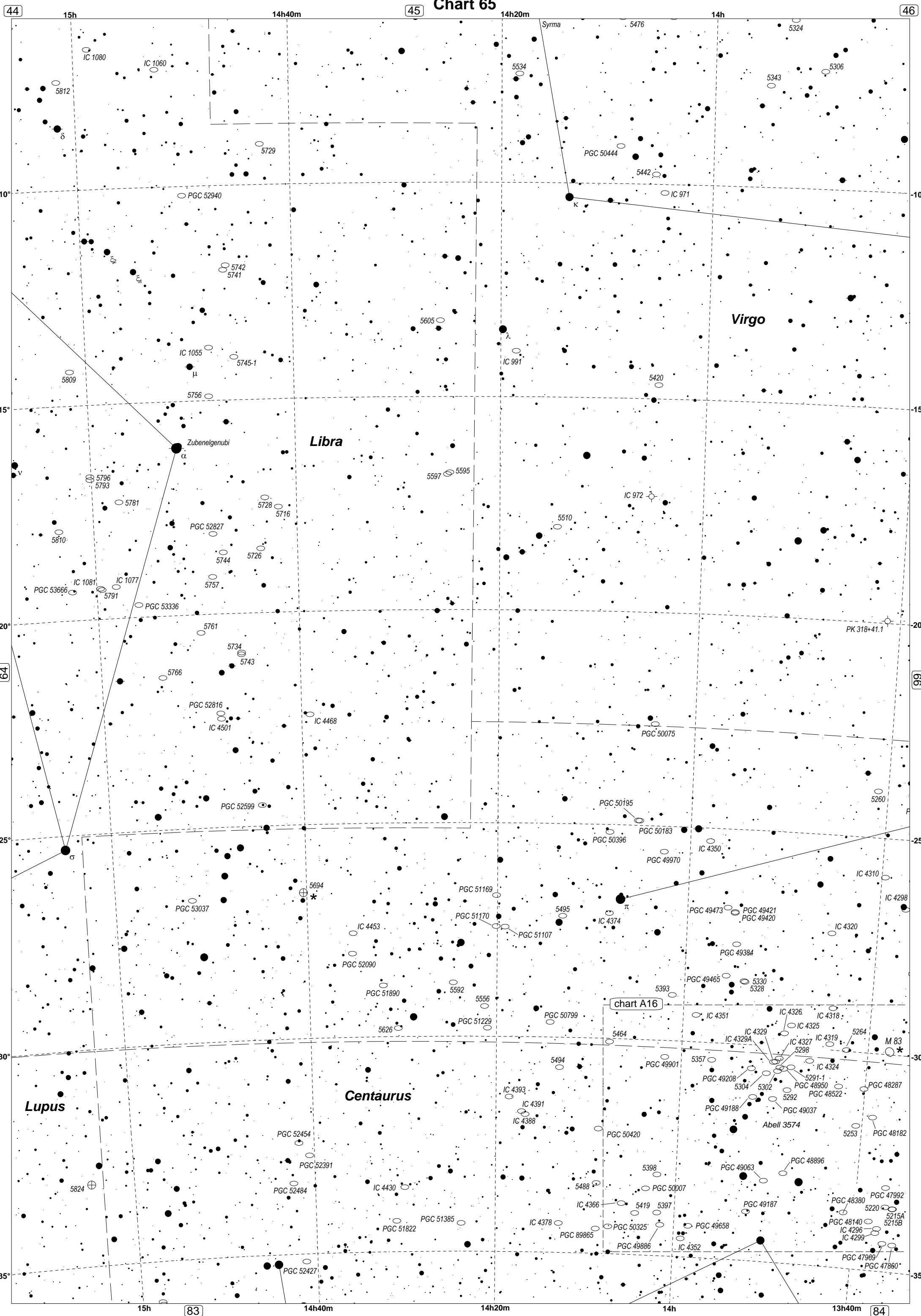
Lupus

chart A16

Syra

Zubenelgenubi

M 83



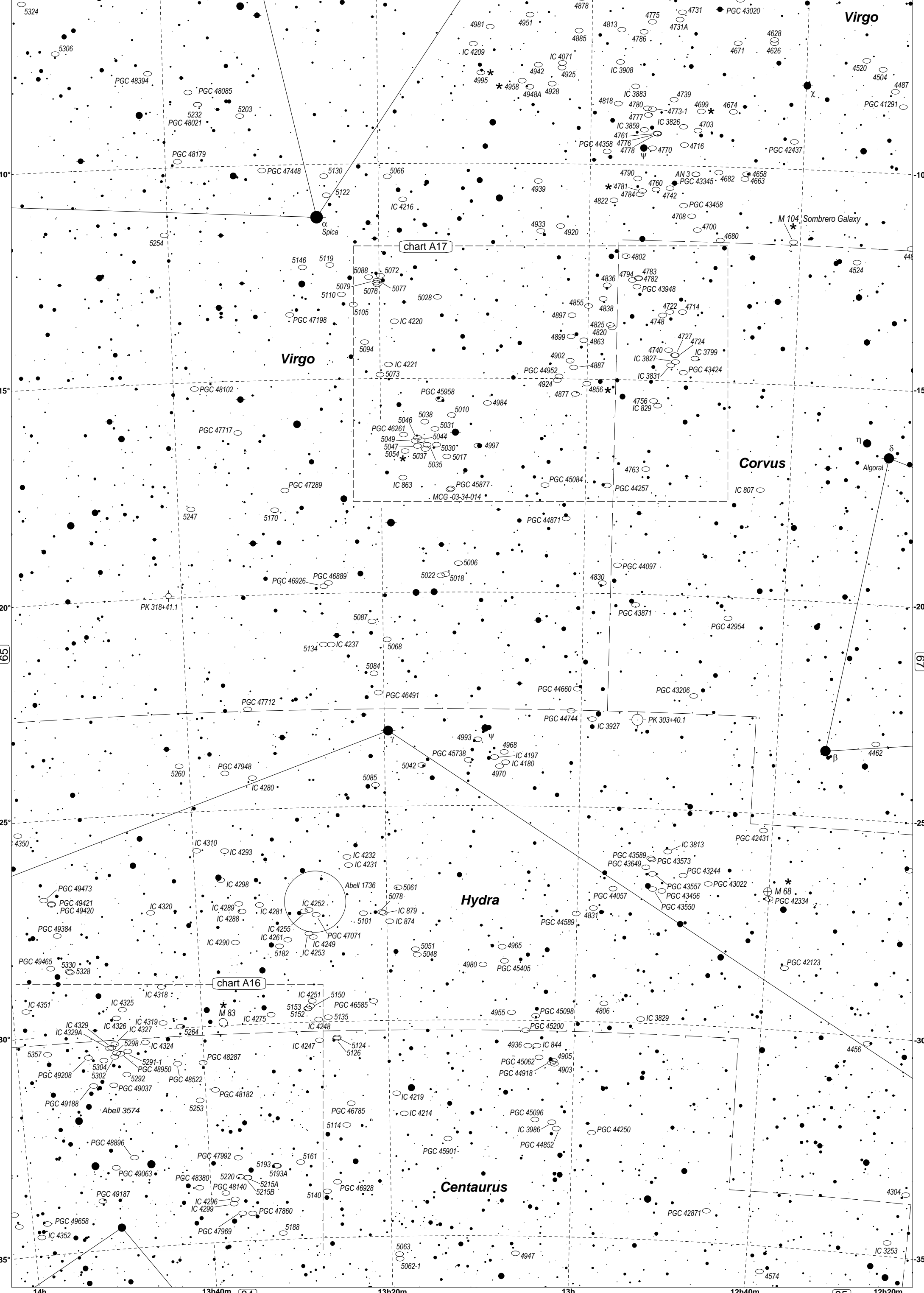
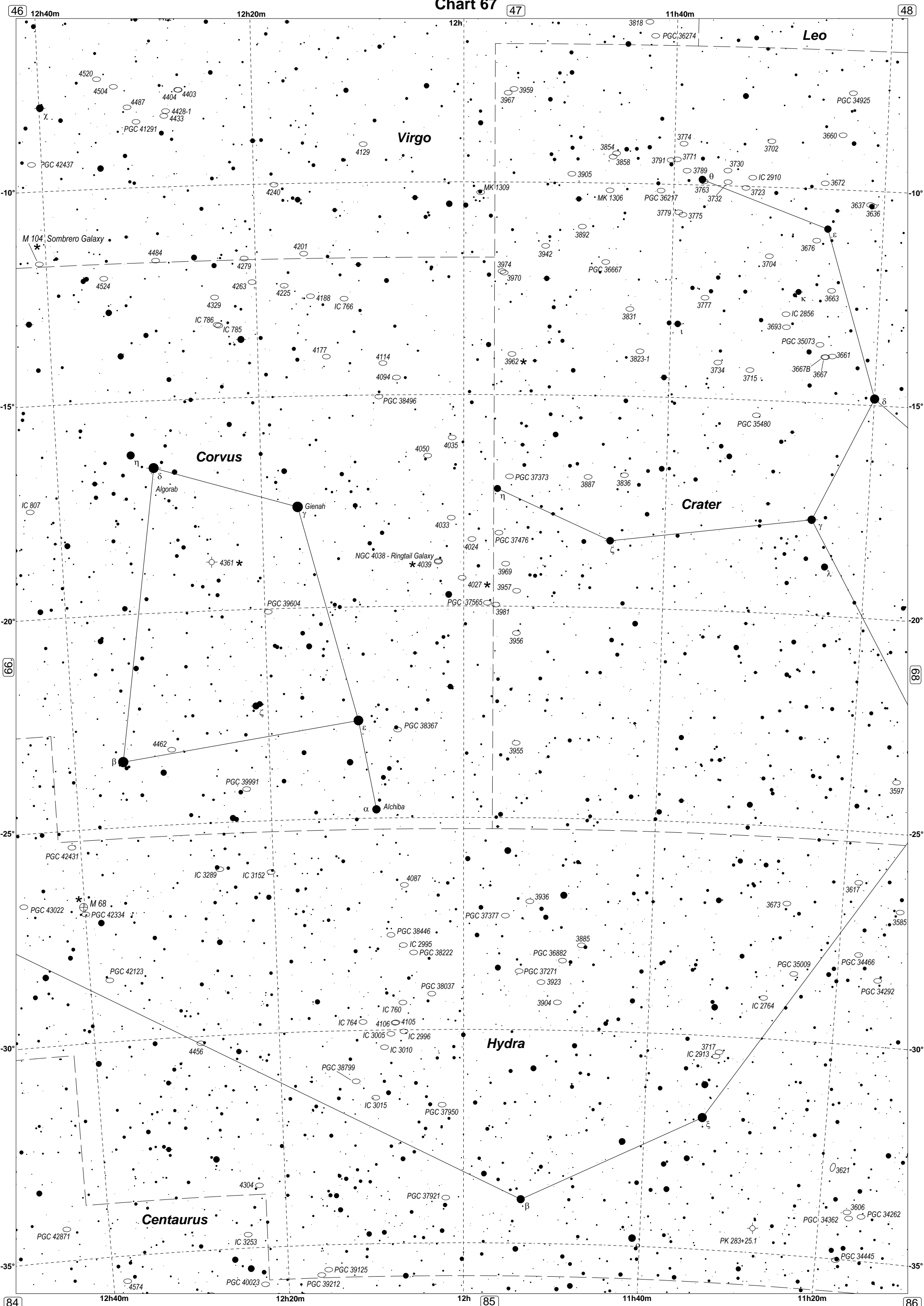
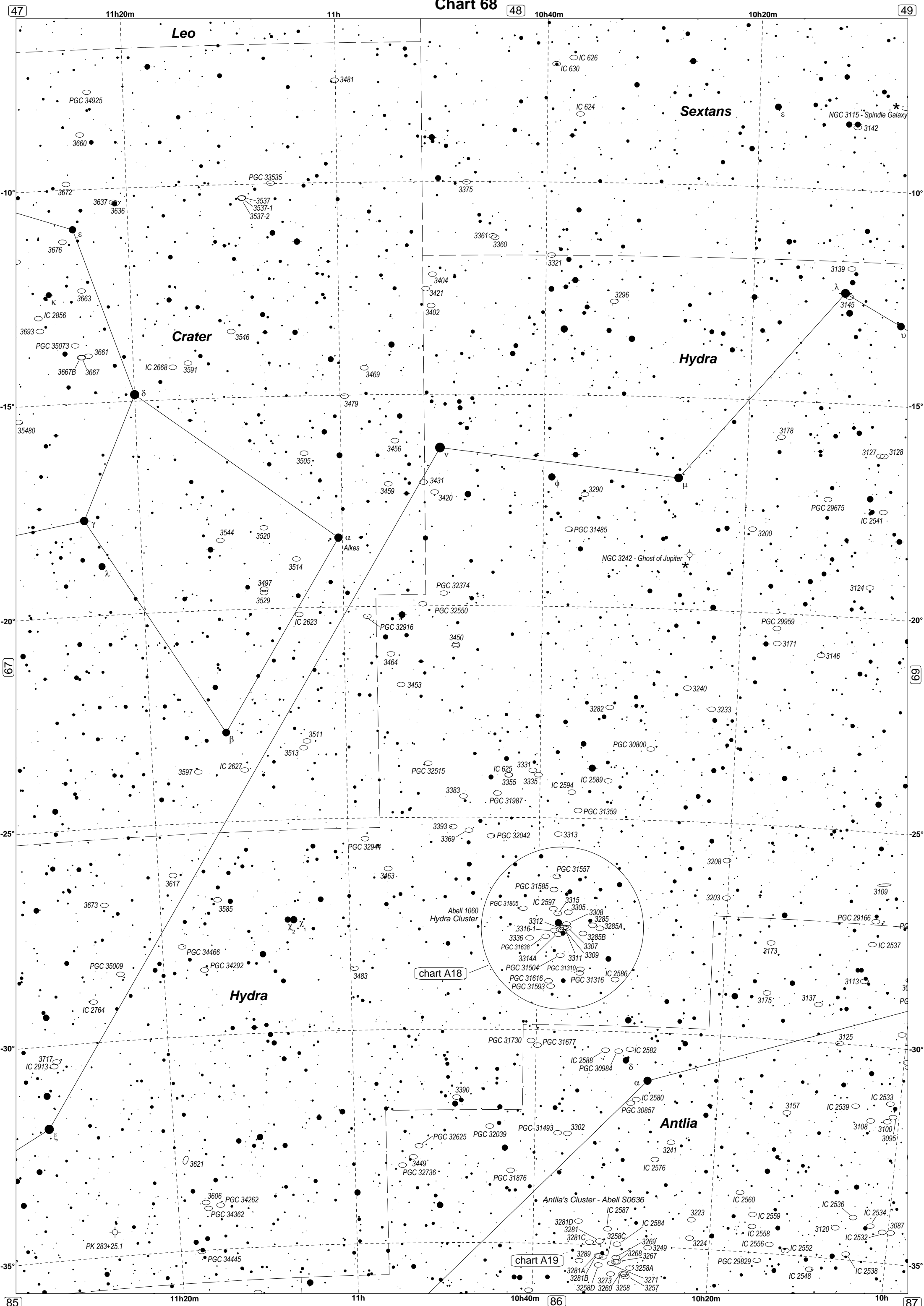


chart A17

chart A16





Leo

Sextans

Crater

Hydra

Hydra

Antlia

chart A18

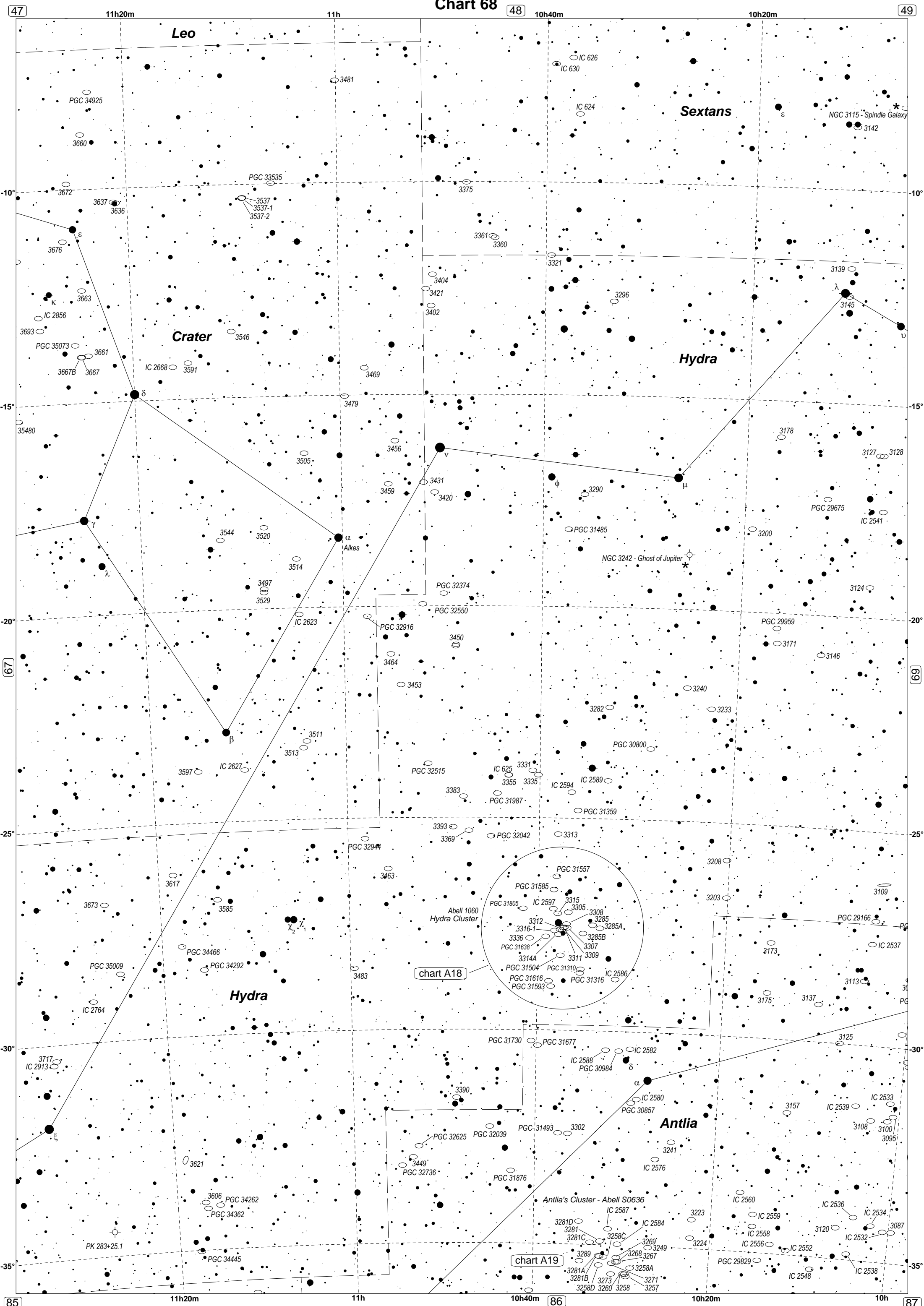
chart A19

Abell 1060
Hydra Cluster

Antlia's Cluster - Abell S0636

NGC 3115 - Spindle Galaxy

NGC 3242 - Ghost of Jupiter



Leo

Sextans

Crater

Hydra

Hydra

Antlia

chart A18

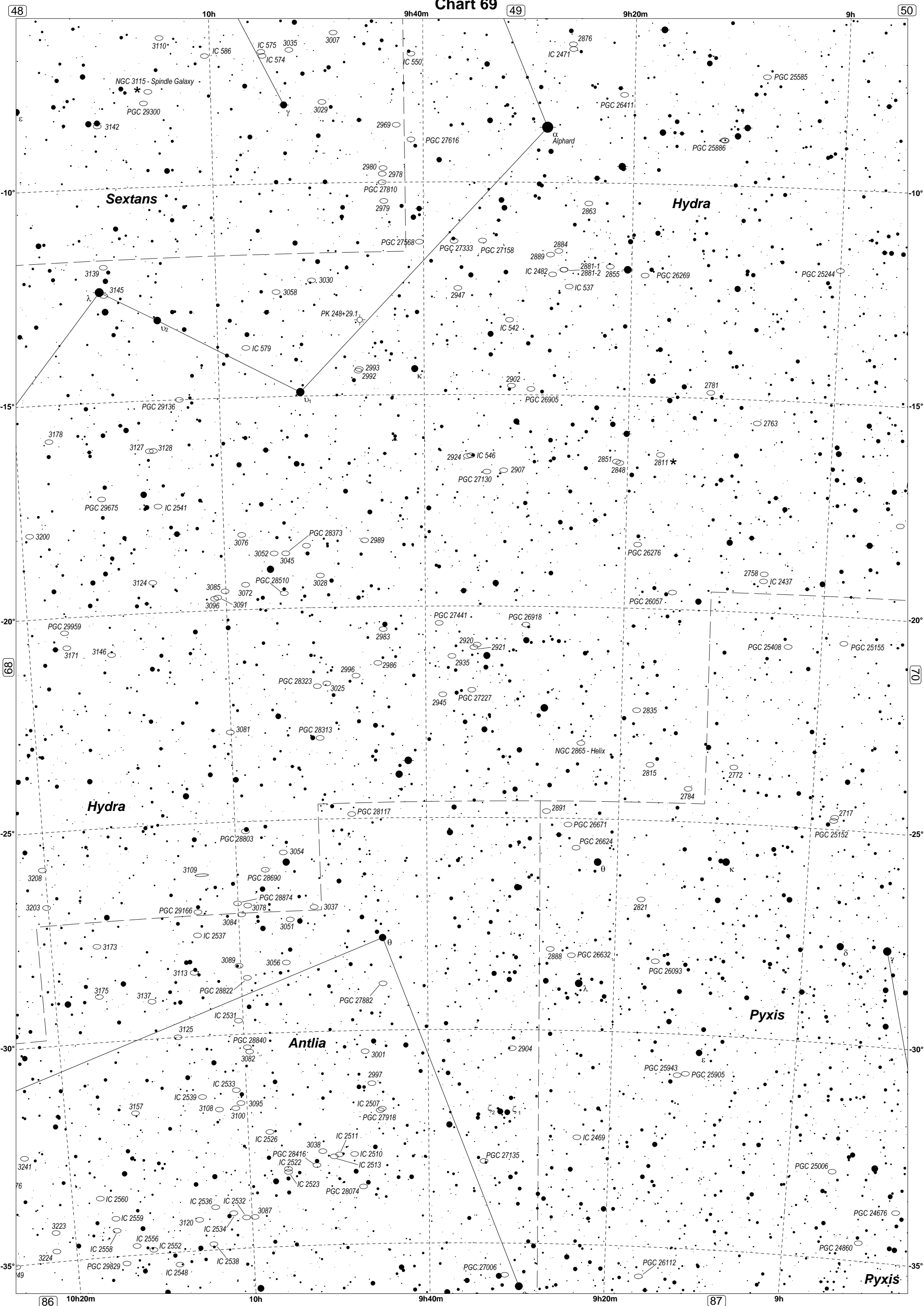
chart A19

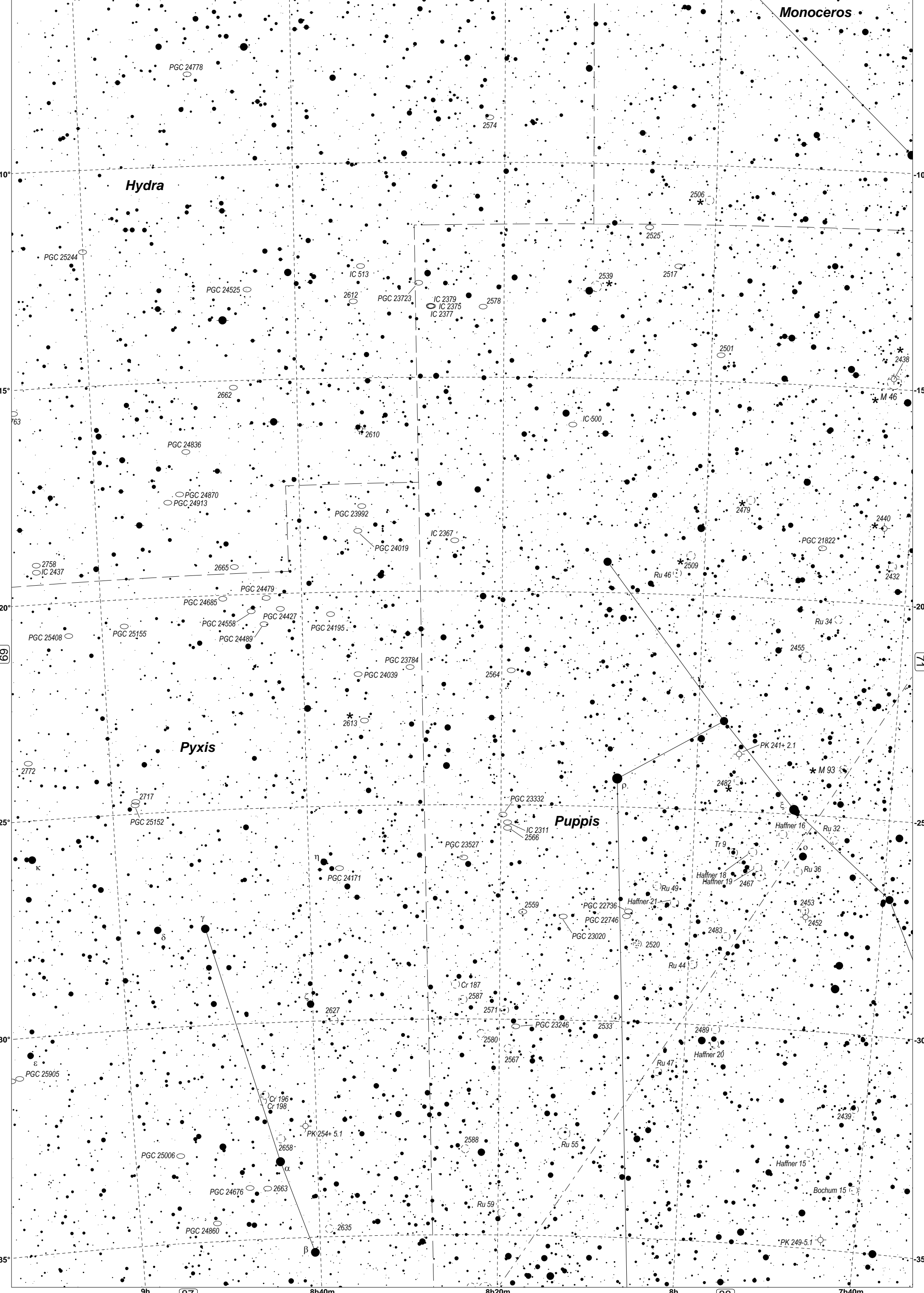
Abell 1060
Hydra Cluster

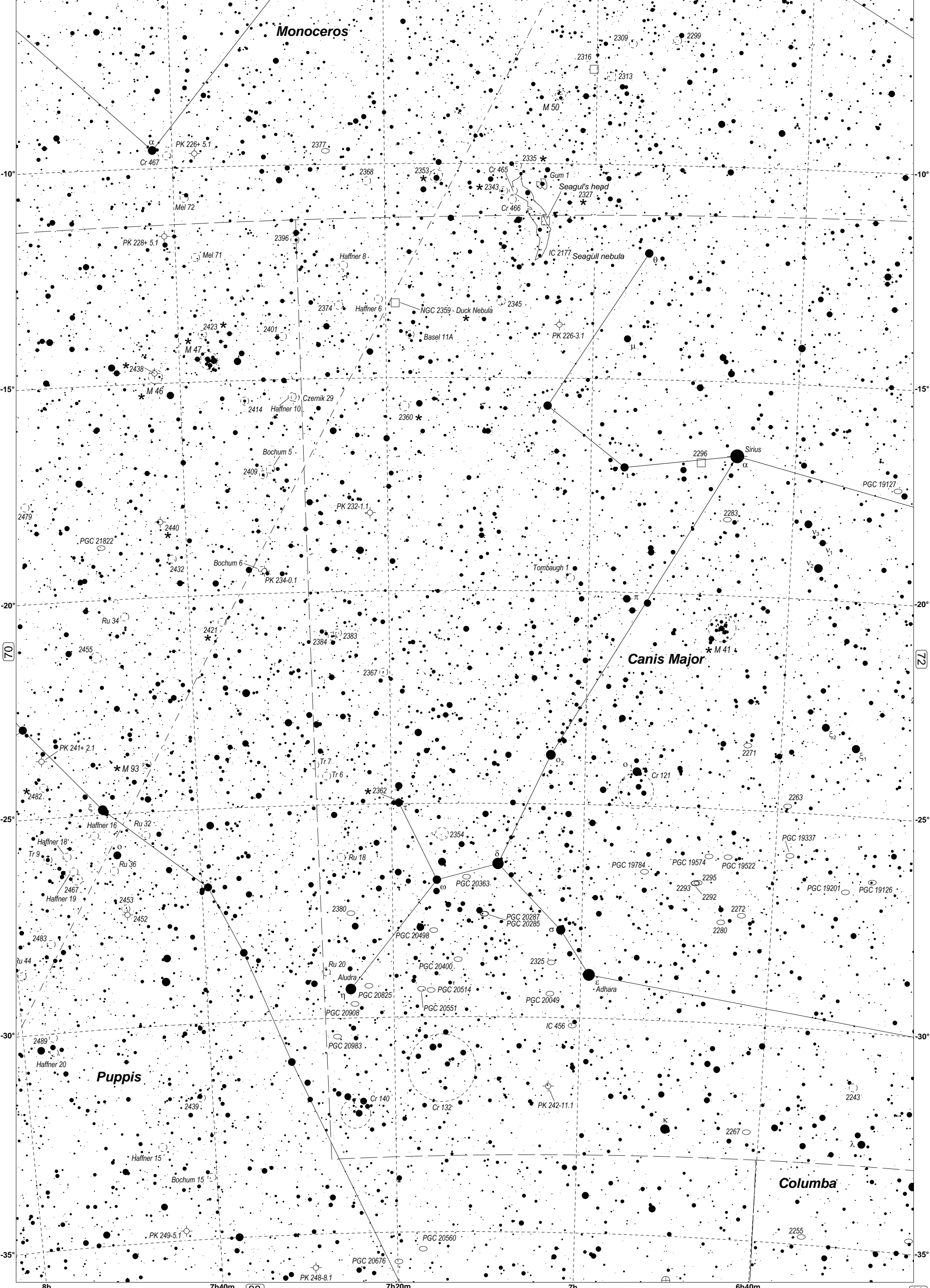
Antlia's Cluster - Abell S0636

NGC 3115 - Spindle Galaxy

NGC 3242 - Ghost of Jupiter







Monoceros

Canis Major

Puppis

Columba

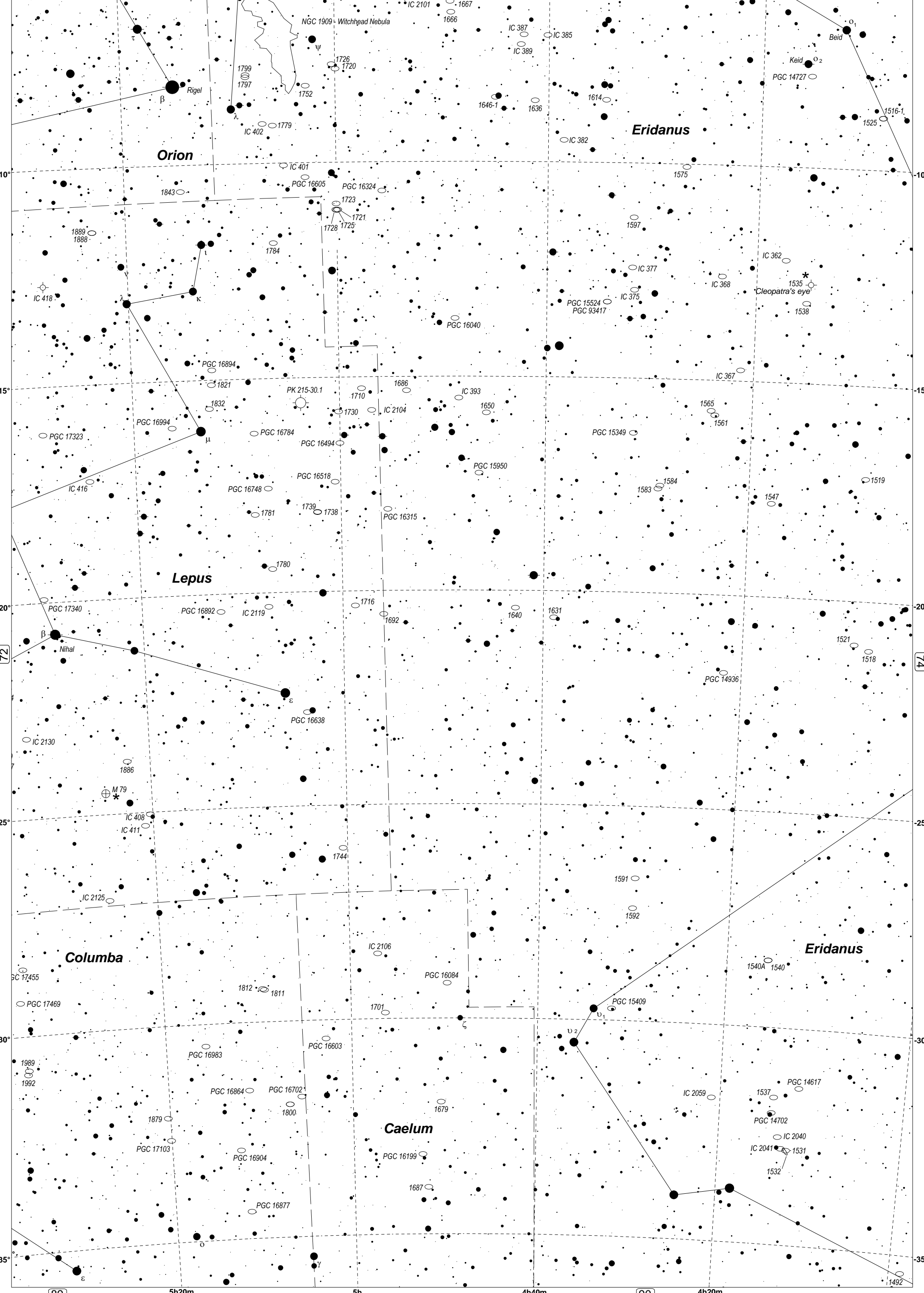
Sirius

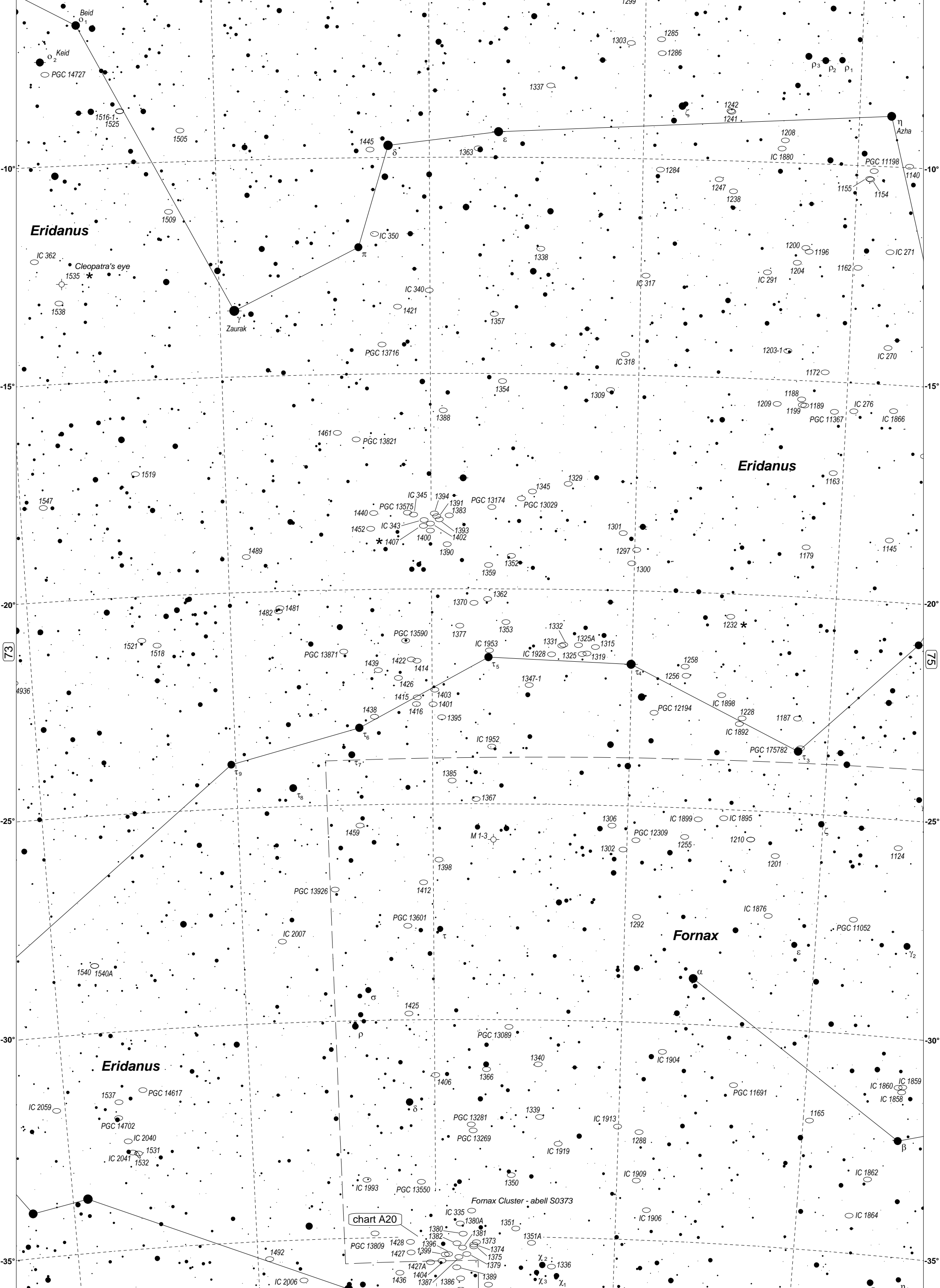
M 50

NGC 2359 - Duck Nebula

IC 2177 Seagull nebula

Aludra





Eridanus

Eridanus

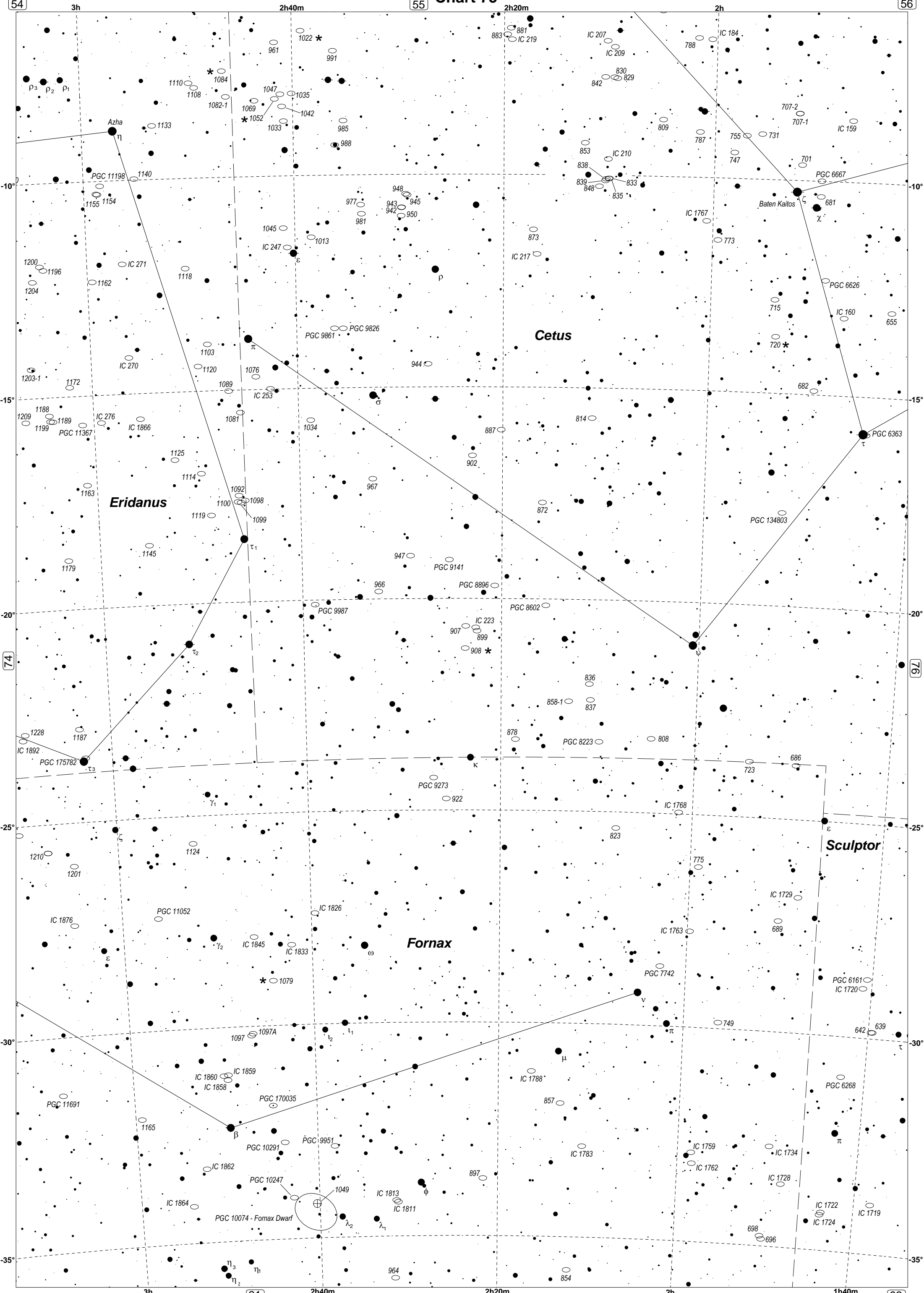
Fornax

Eridanus

chart A20

Fornax Cluster - abell S0373

Chart 75

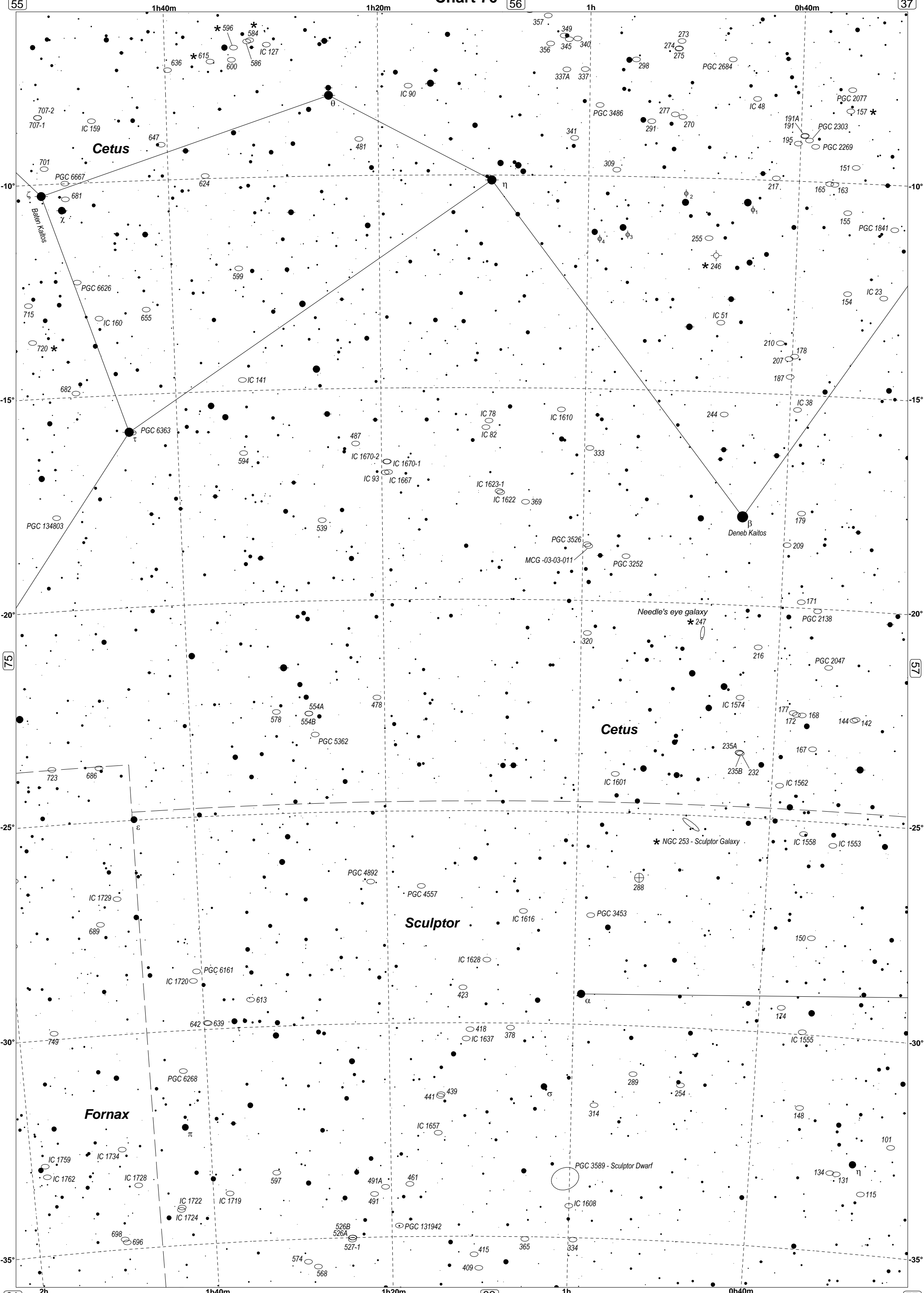


Eridanus

Cetus

Fornax

Sculptor



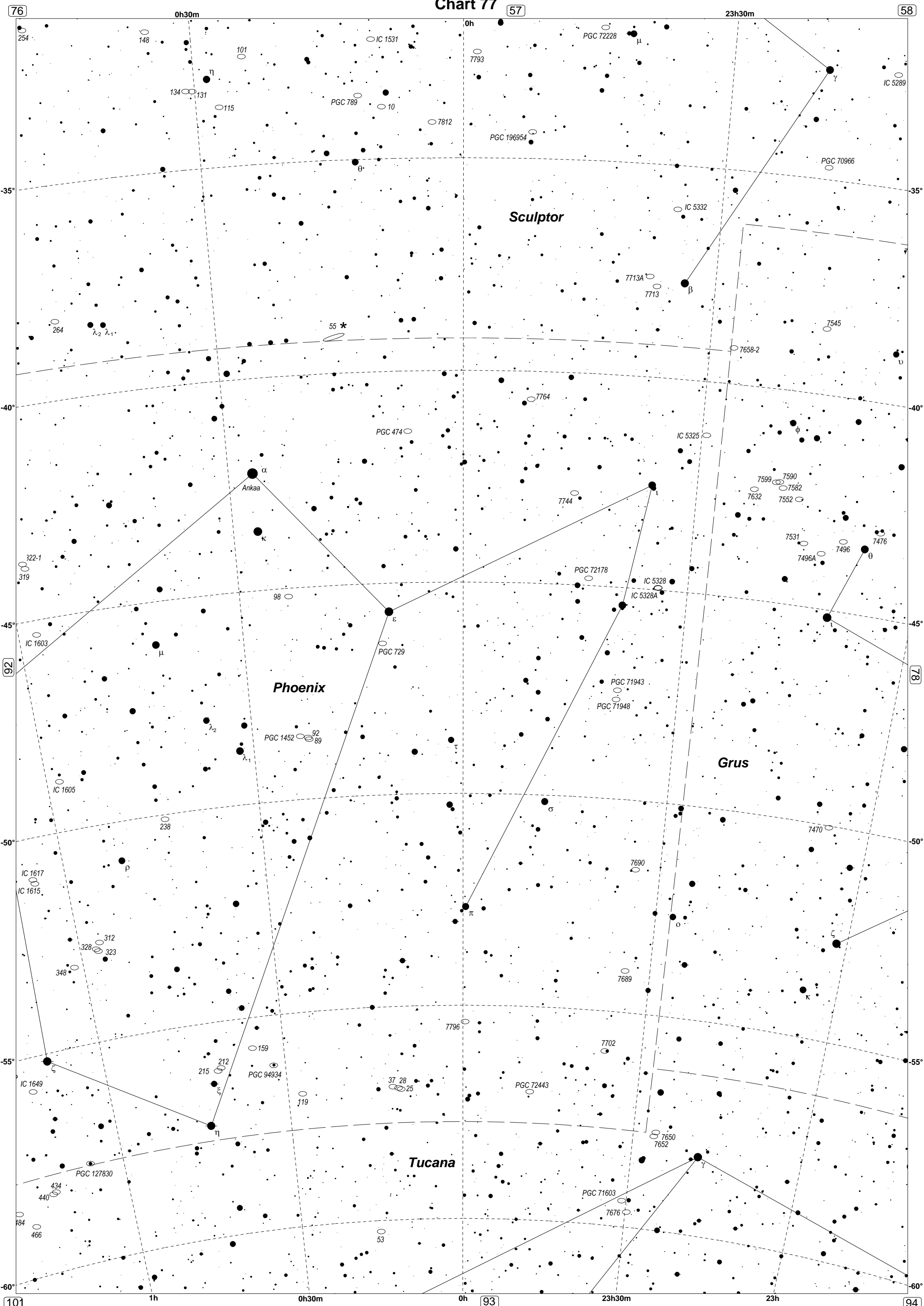


Chart 77

0h30m

0h

23h30m

-35°

-35°

-40°

-40°

-45°

-45°

-50°

-50°

-55°

-55°

-60°

-60°

1h

0h30m

0h

23h30m

23h

76

57

58

92

78

101

93

94

Sculptor

Phoenix

Tucana

Grus

α
Ankaa

β

ϵ

ι

θ

ζ

γ

ξ

λ_2

λ_1

λ_2 λ_1

55 *

322-1

319

IC 1603

IC 1617

IC 1615

IC 1649

434

440

484

466

148

101

134

131

115

PGC 789

10

7812

PGC 196954

7793

PGC 72228

μ

γ

IC 5289

PGC 70966

IC 5332

7713A

7713

7545

7658-2

7764

PGC 474

IC 5325

7599

7590

7632

7582

7552

7531

7496A

7496

7476

PGC 72178

IC 5328

IC 5328A

98

PGC 729

PGC 71943

PGC 71948

PGC 1452

92

89

IC 1605

μ

λ_2

λ_1

ρ

238

348

328

312

323

7796

7690

7689

7470

159

PGC 94934

212

215

ϵ

119

37

28

25

PGC 72443

7702

7650

7652

PGC 71603

7676

53

PGC 127830

440

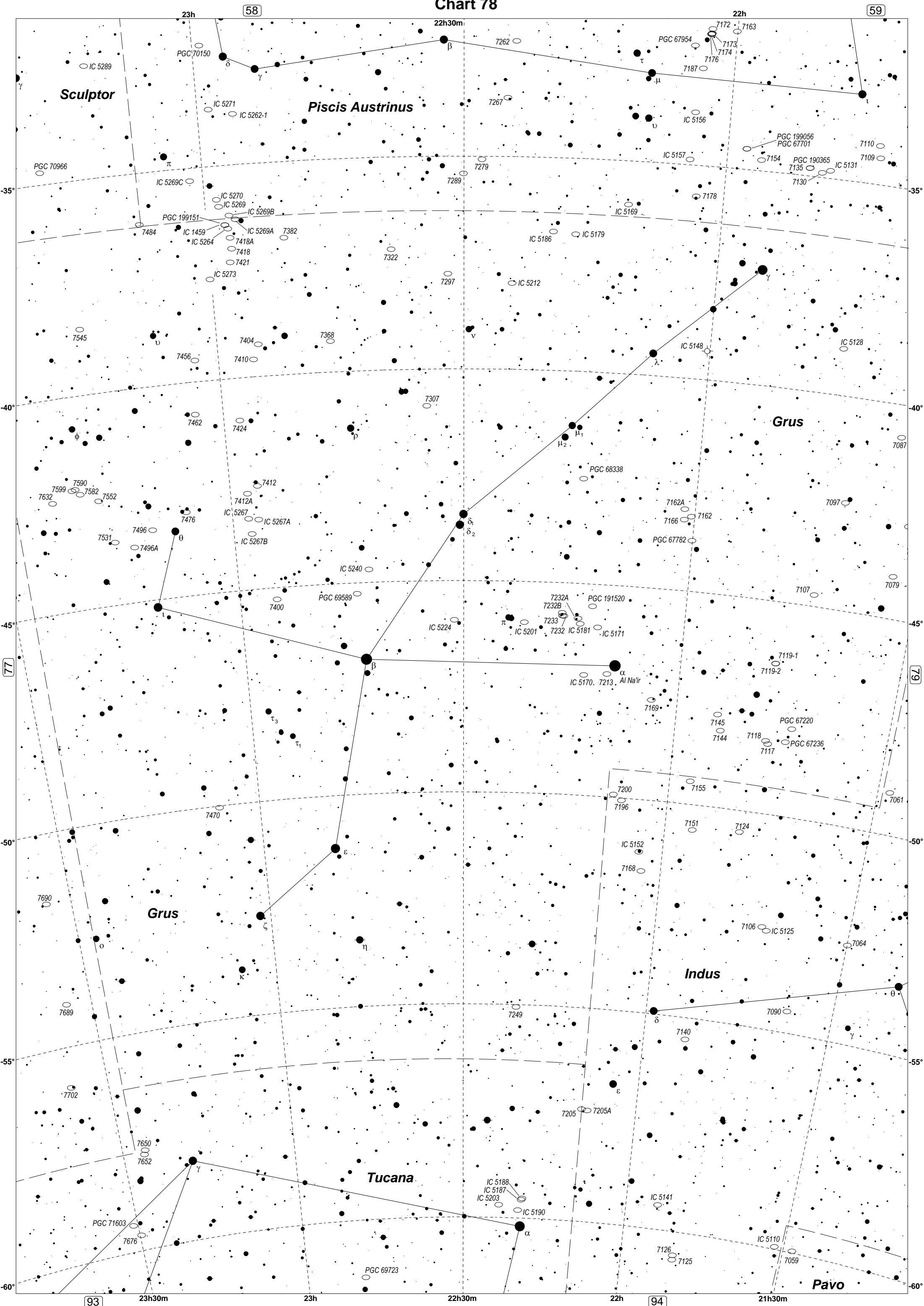
466

7676

Chart 78

58

59



Piscis Austrinus

Microscopium

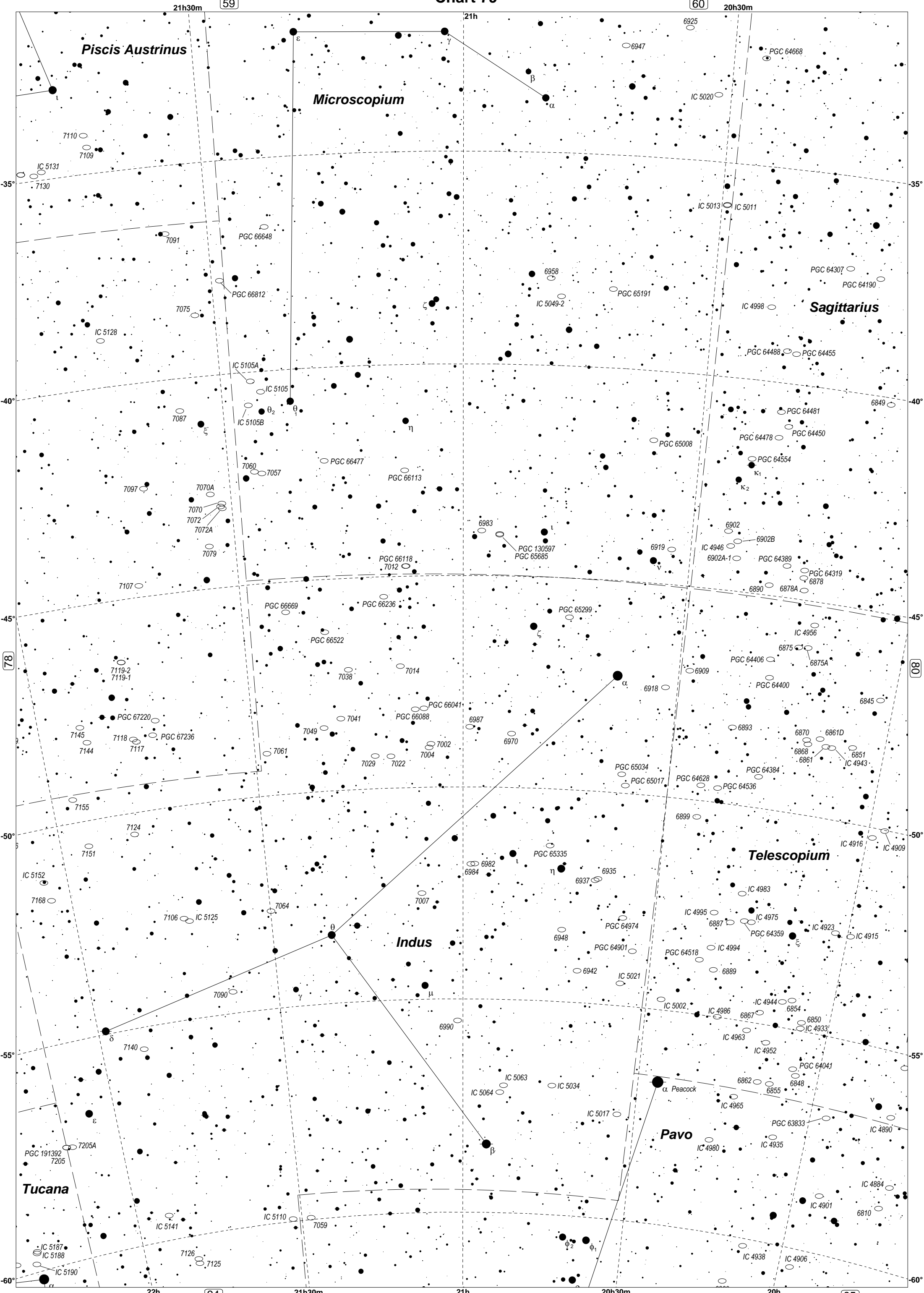
Sagittarius

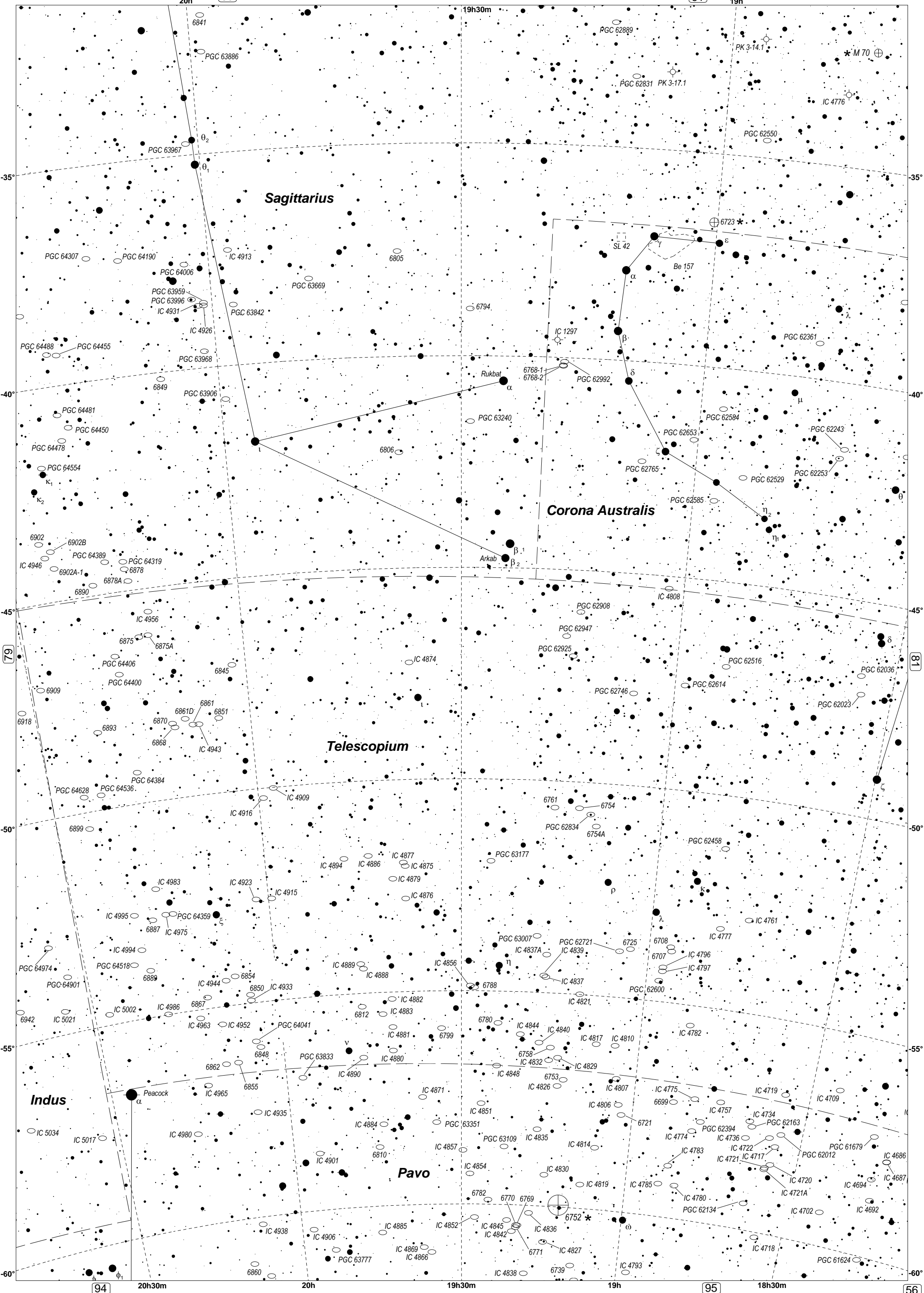
Indus

Telescopium

Pavo

Tucana





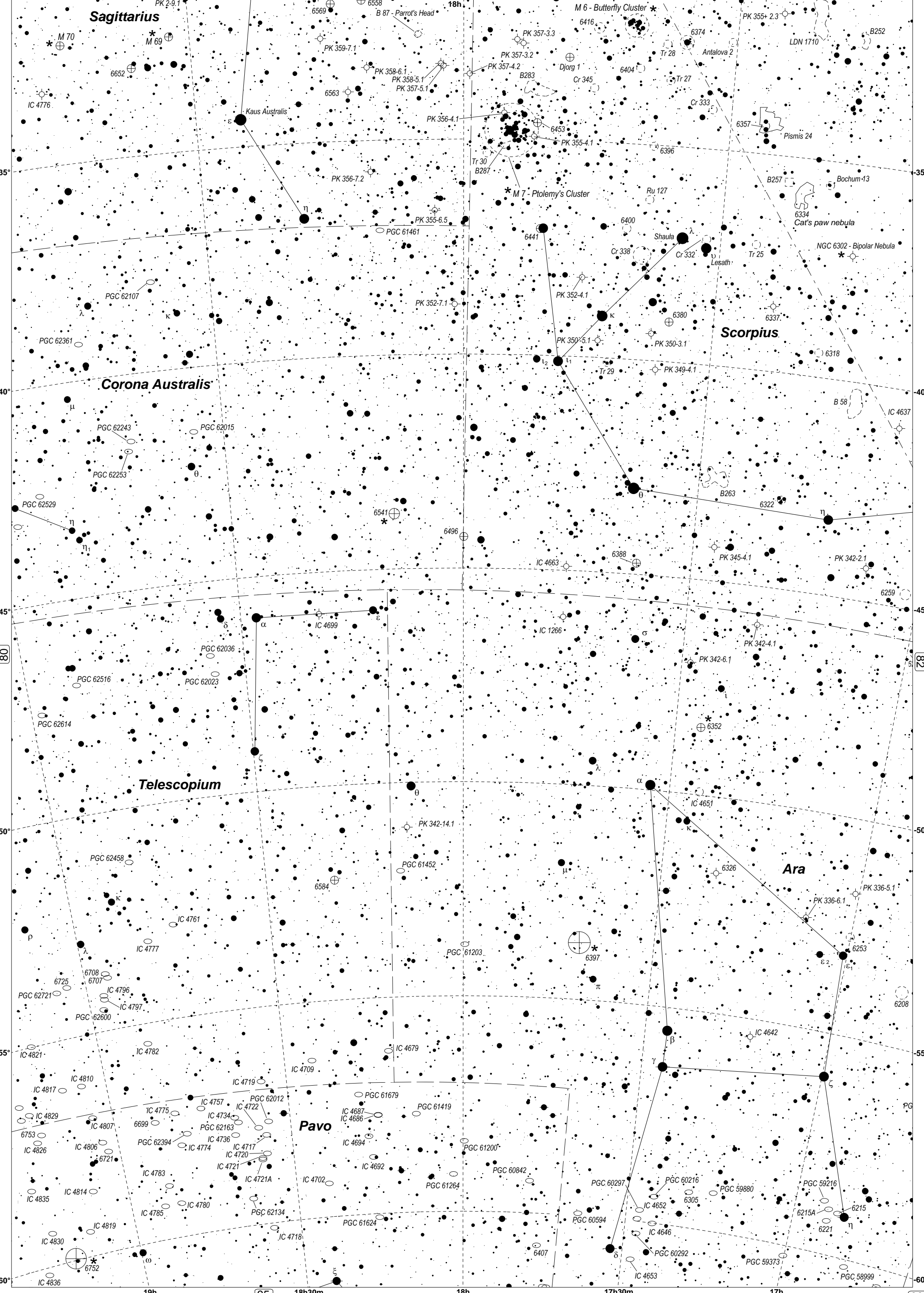
Sagittarius

Corona Australis

Telescopium

Indus

Pavo



61

Chart 81

62

63

35°

40°

45°

50°

55°

60°

Sagittarius

Corona Australis

Telescopium

Pavo

Scorpius

Ara

18h30m

18h

17h30m

19h

18h30m

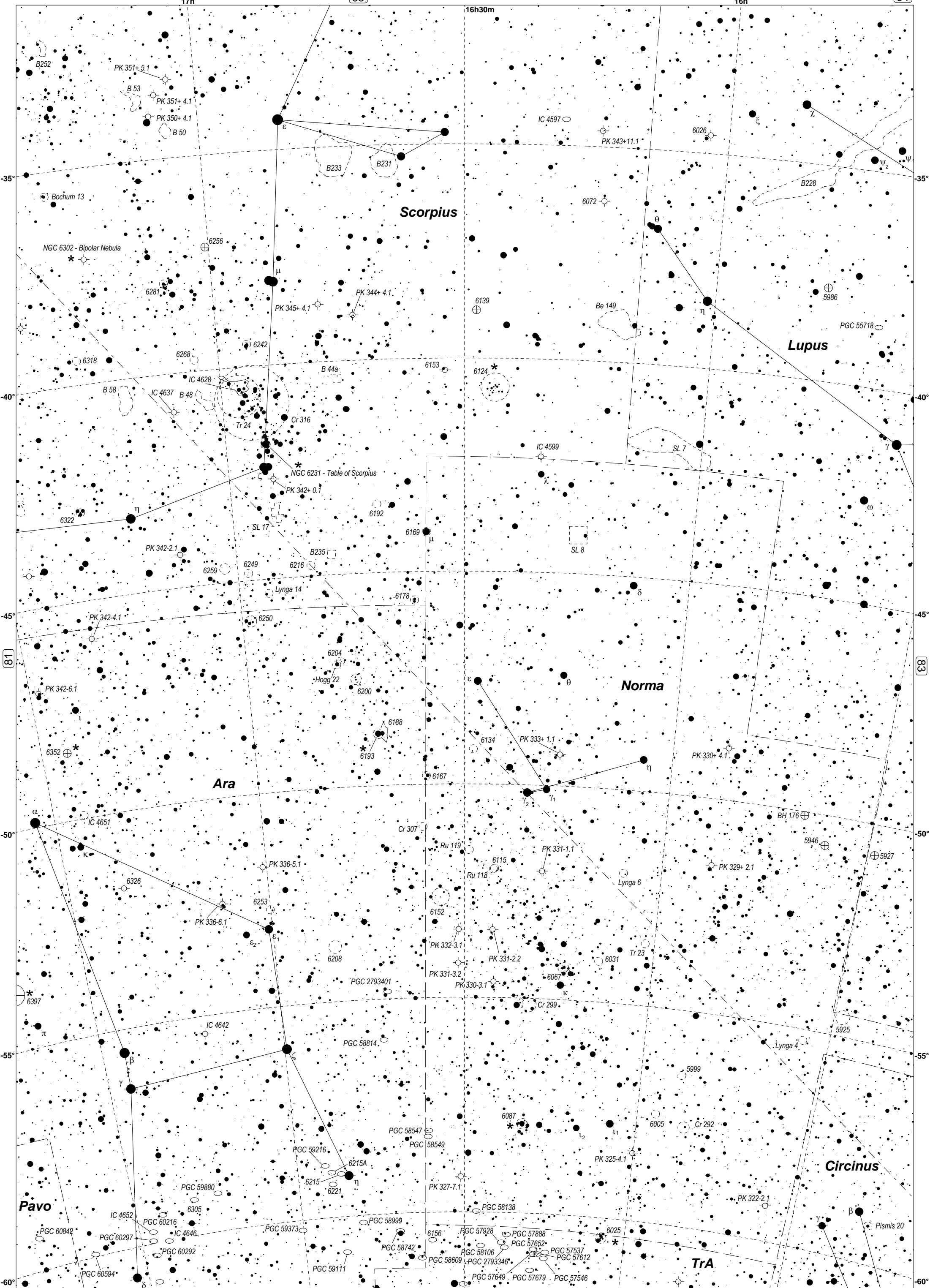
18h

17h30m

17h

95

96



Lupus

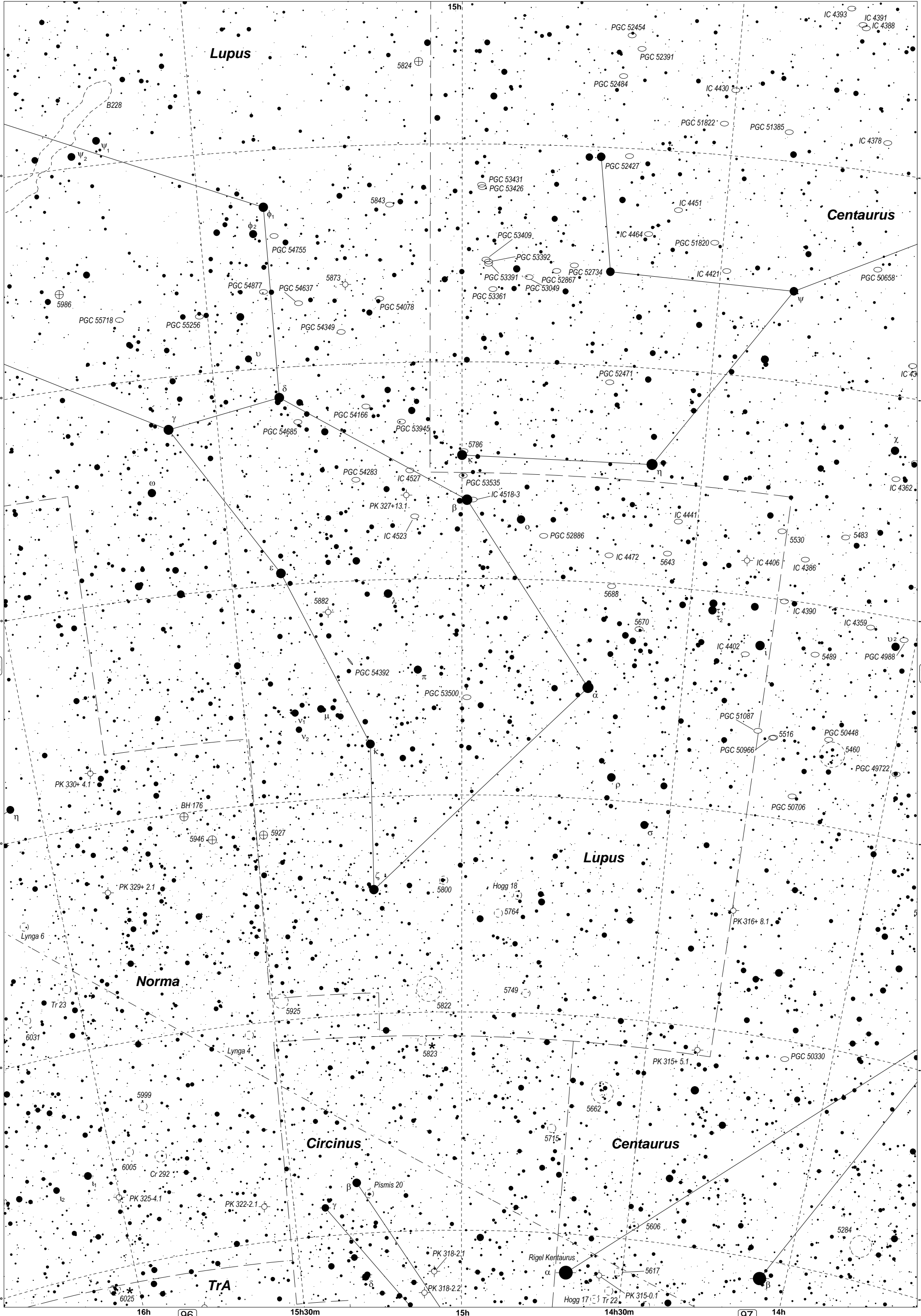
Centaurus

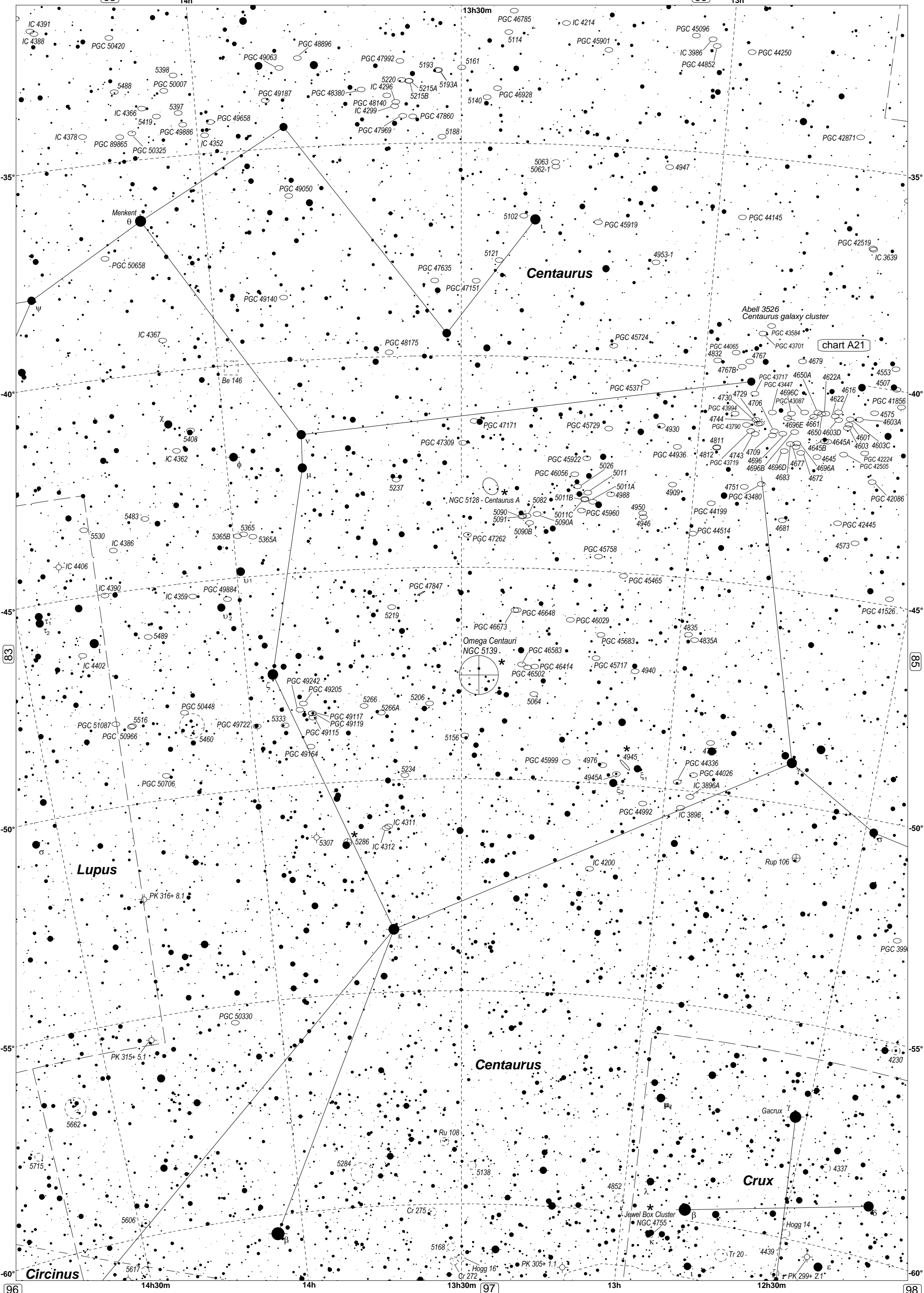
Norma

Circinus

Centaurus

TrA





Menkent θ

Centaurus

chart A21

Omega Centauri
NGC 5139

Lupus

Centaurus

Crux

Circinus

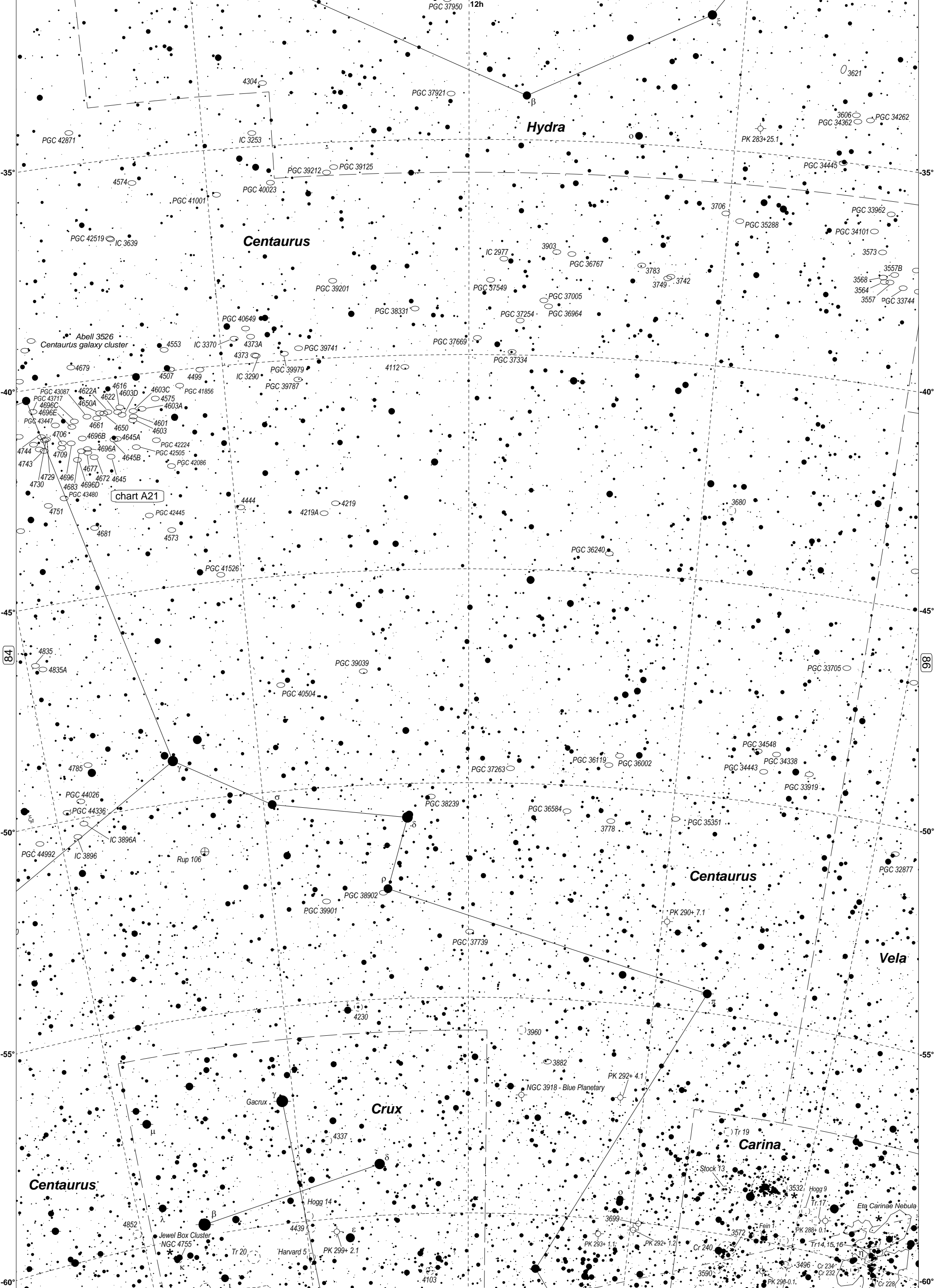


chart A21

Hydra

Centaurus

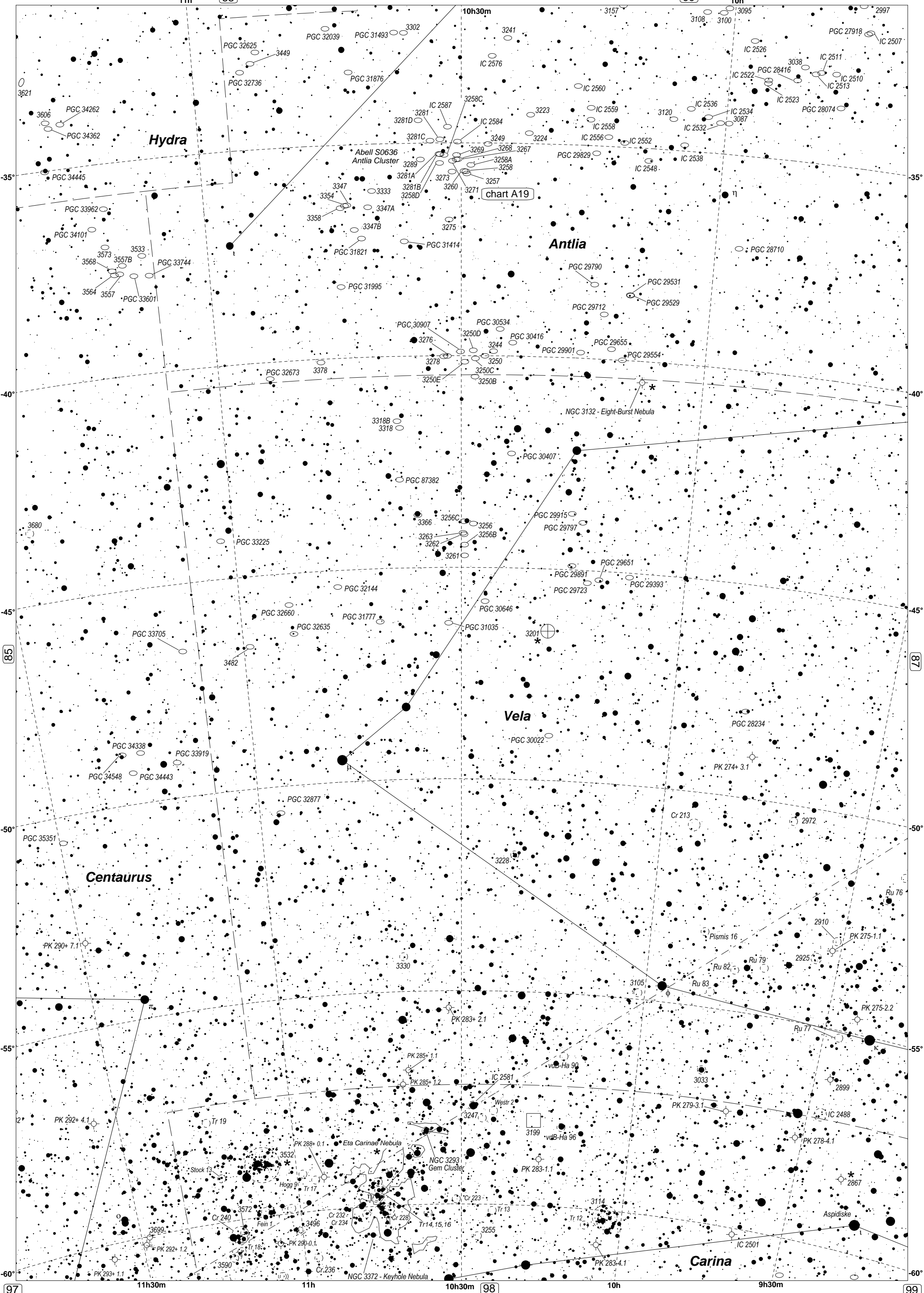
Centaurus

Vela

Crux

Carina

Centaurus



Hydra

Antlia

Vela

Centaurus

Carina

Abell S0636
Antlia Cluster

NGC 3132 - Eight-Burst Nebula

NGC 3293
Gem Cluster

NGC 3372 - Keyhole Nebula

Eta Carinae Nebula

chart A19

Chart 87

9h30m

69

70

8h30m

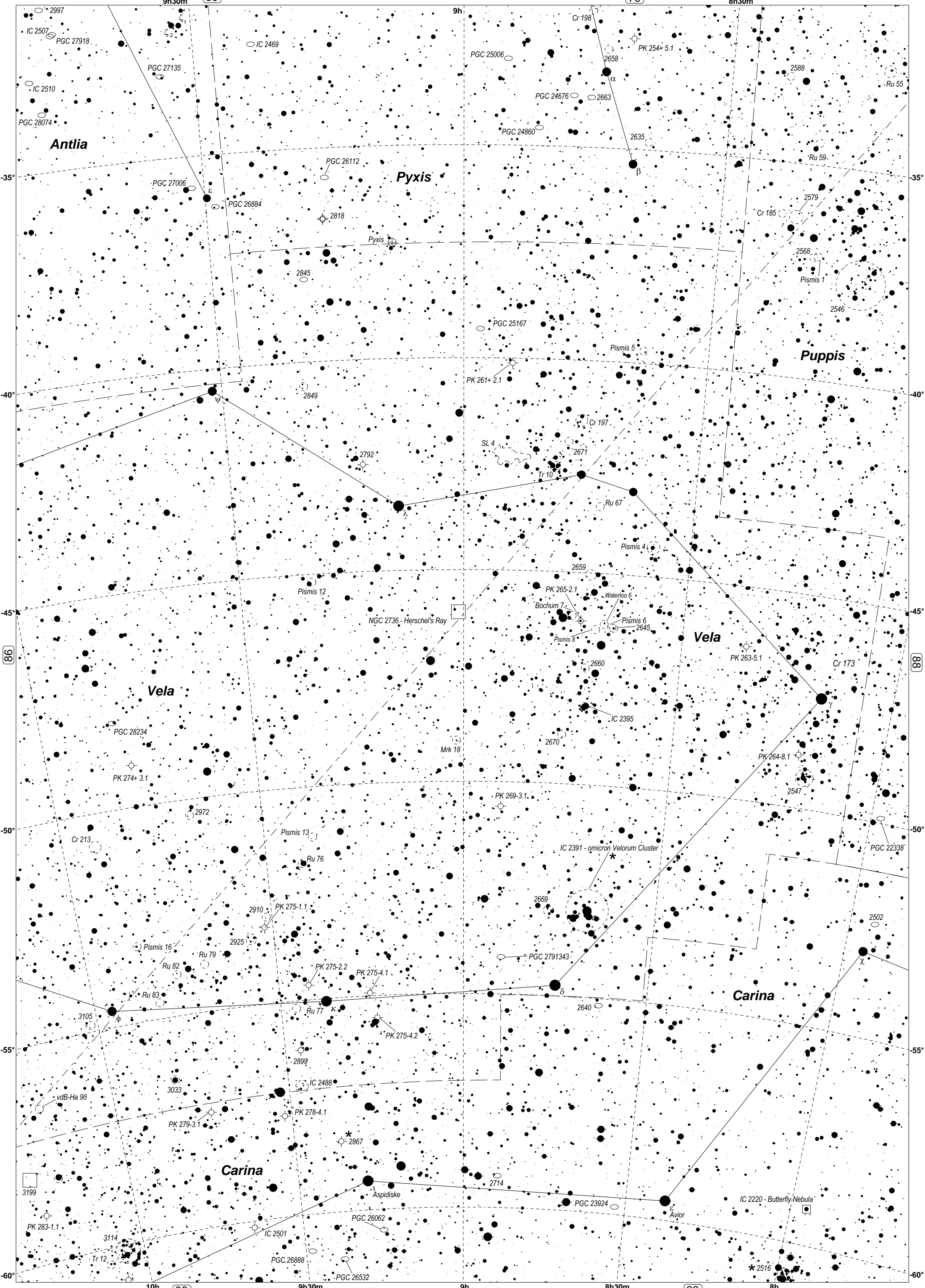
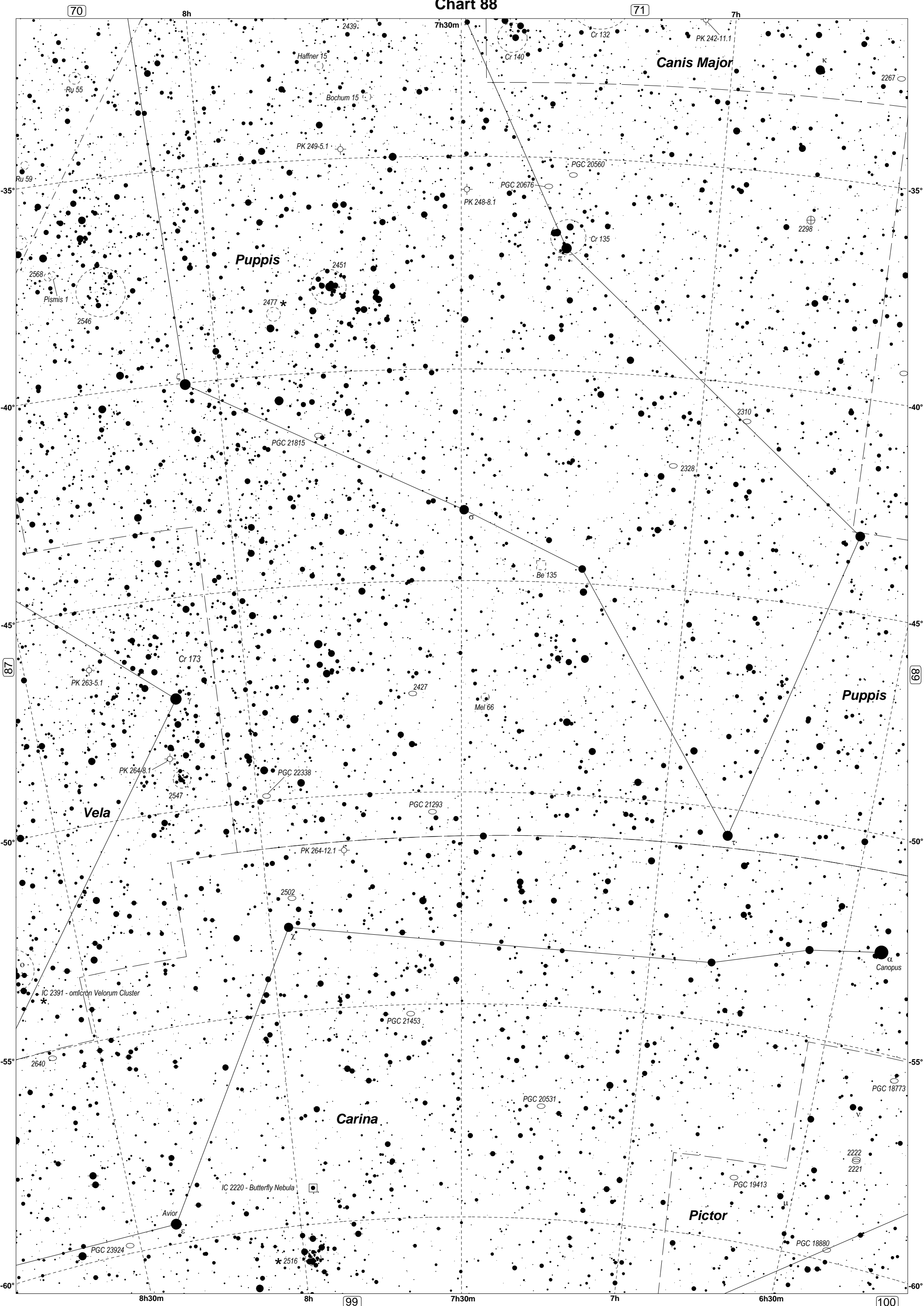


Chart 88



Canis Major

Puppis

Puppis

Vela

Carina

Pictor

70

71

-35°

-35°

-40°

-40°

-45°

-45°

-50°

-50°

-55°

-55°

-60°

-60°

8h30m

8h

7h30m

7h

6h30m

99

100

87

89

7h30m

7h

8h

2439

Haffner 15

Bochum 15

PK 249-5.1

PGC 20676

PGC 20560

PK 248-8.1

PGC 20676

Cr 135

PK 242-11.1

2267

Ru 55

Ru 59

2568

Pismis 1

2546

2451

2477

PGC 21815

Cr 135

2298

2310

2328

Be 135

PK 263-5.1

Cr 173

2427

Mel 66

PK 264-8.1

2547

PGC 22338

PGC 21293

PK 264-12.1

2502

χ

PGC 21453

α Canopus

IC 2391 - omicron Velorum Cluster

2640

PGC 18773

Avior

IC 2220 - Butterfly Nebula

PGC 20531

2222

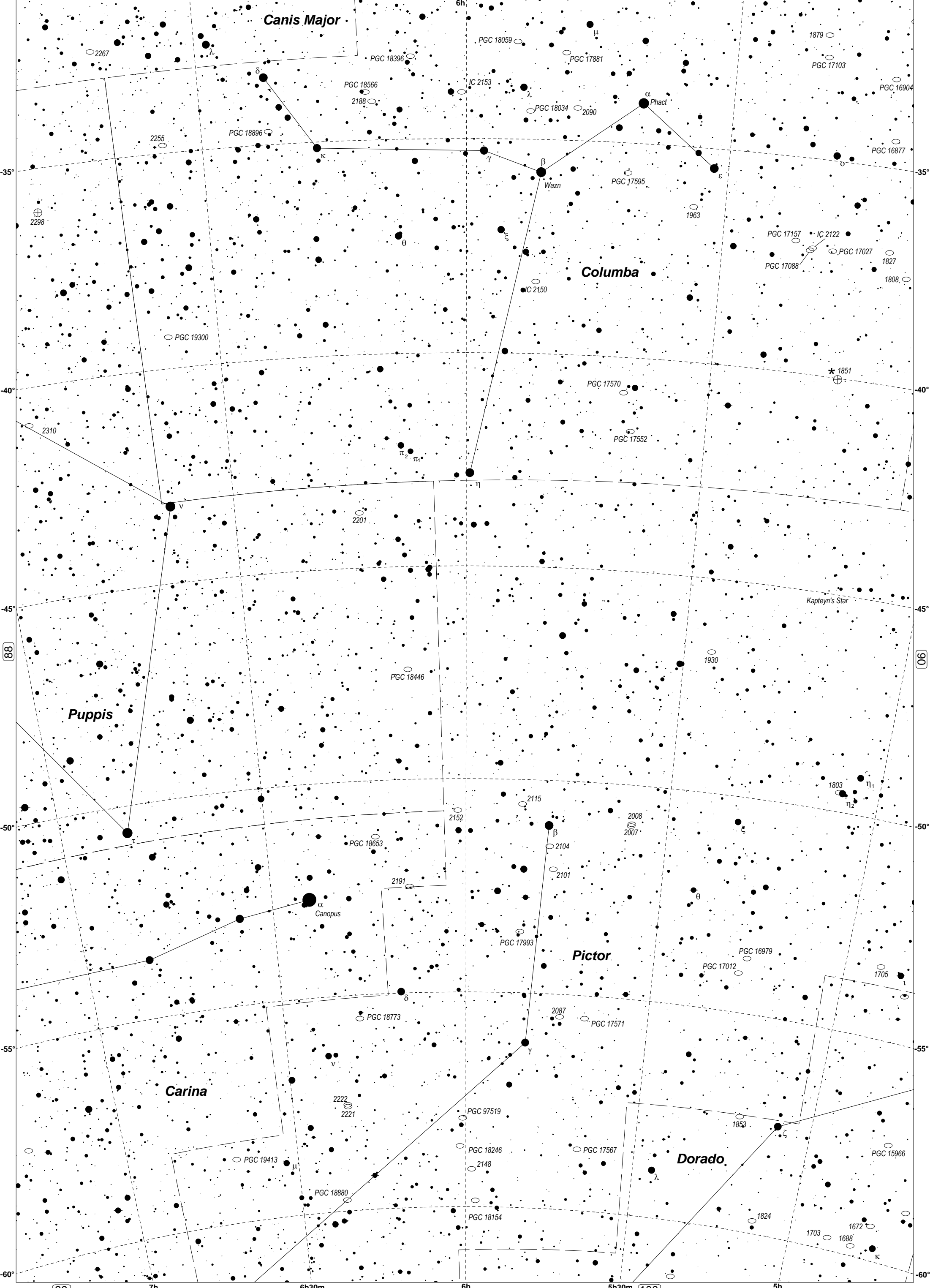
2221

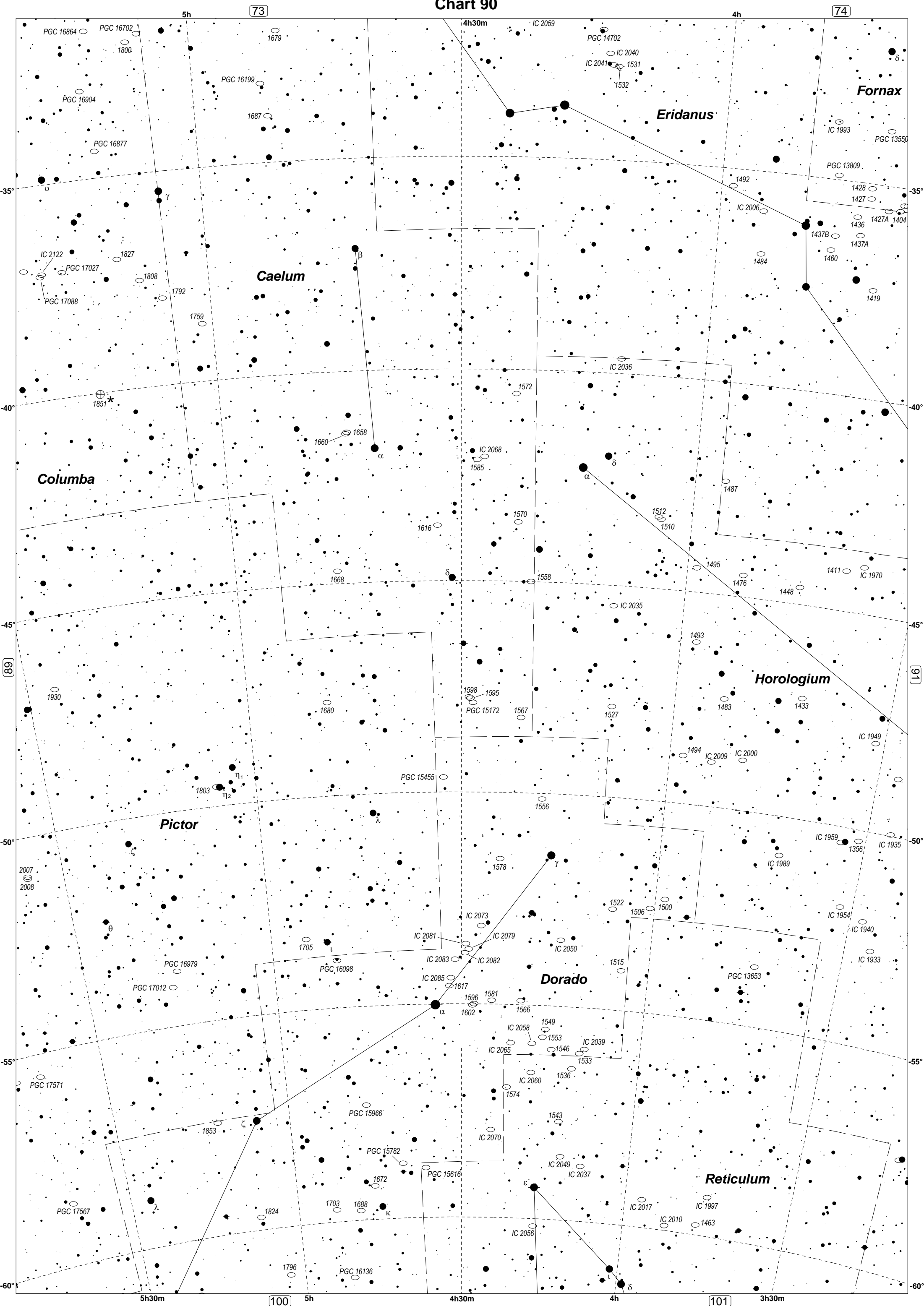
PGC 19413

PGC 18880

PGC 23924

2516





5h
4h30m
4h
3h30m
5h30m
5h
4h30m
4h
3h30m

35°
40°
45°
50°
55°
60°

35°
40°
45°
50°
55°
60°

Chart 91

3h30m

74

75

2h30m

Fornax

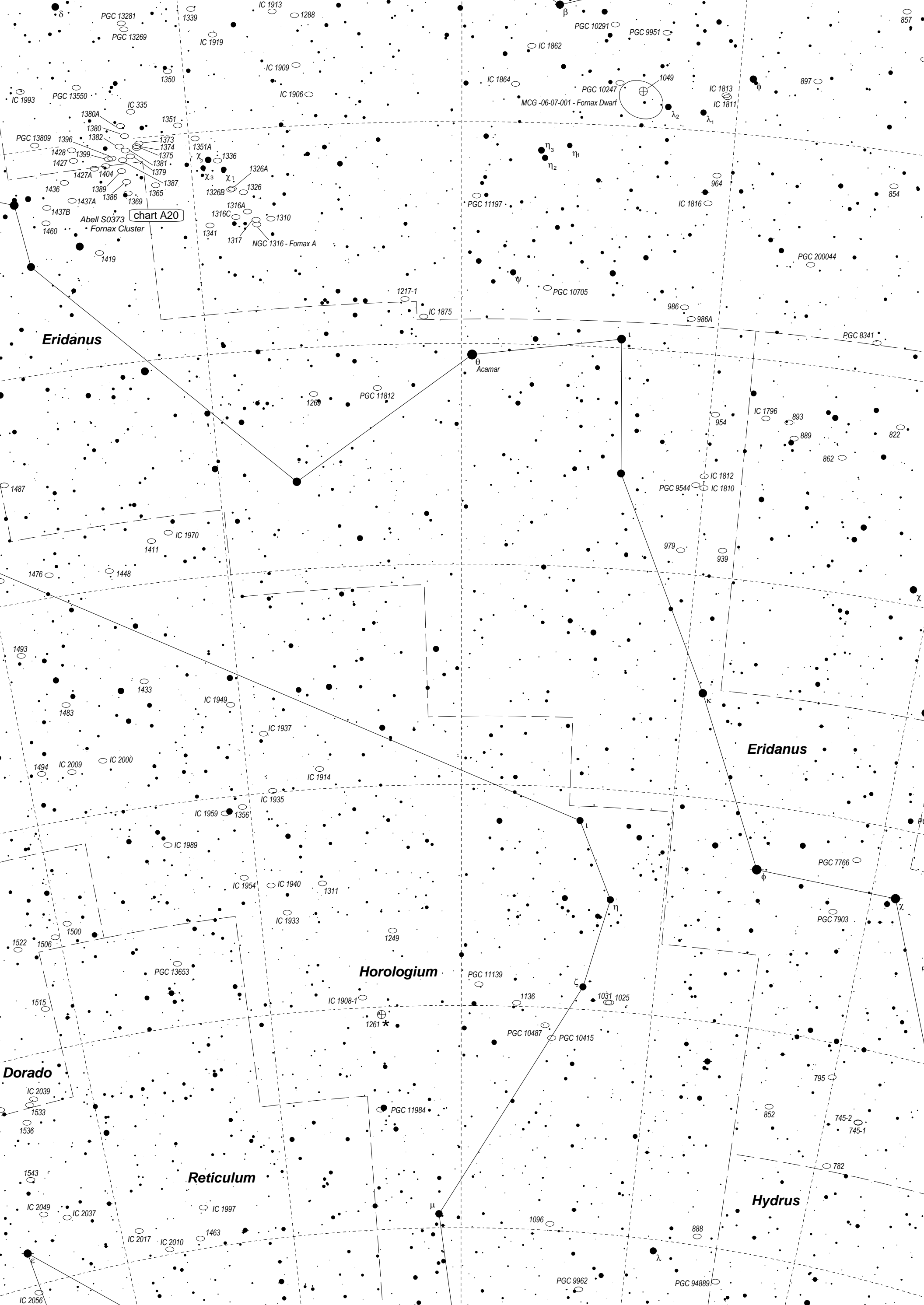


chart A20

Abell S0373

Fornax Cluster

NGC 1316 - Fornax A

MCG -06-07-001 - Fornax Dwarf

Eridanus

Horologium

Dorado

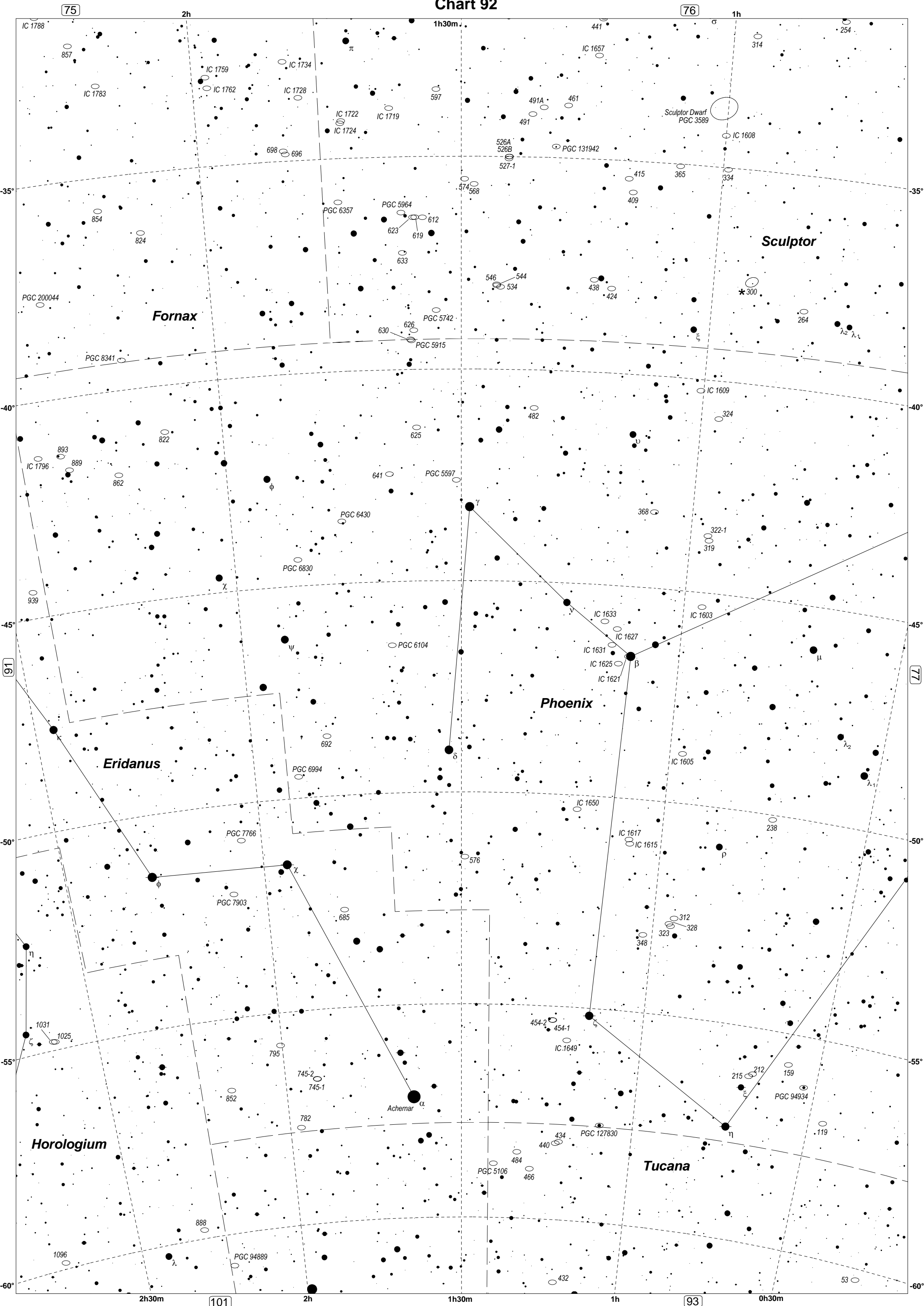
Reticulum

Hydrus

100

101

93



Fornax

Sculptor

Phoenix

Eridanus

Tucana

Horologium

Sculptor Dwarf
PGC 3589

Achernar α

β

χ

η

1h30m

2h

1h

2h30m

2h

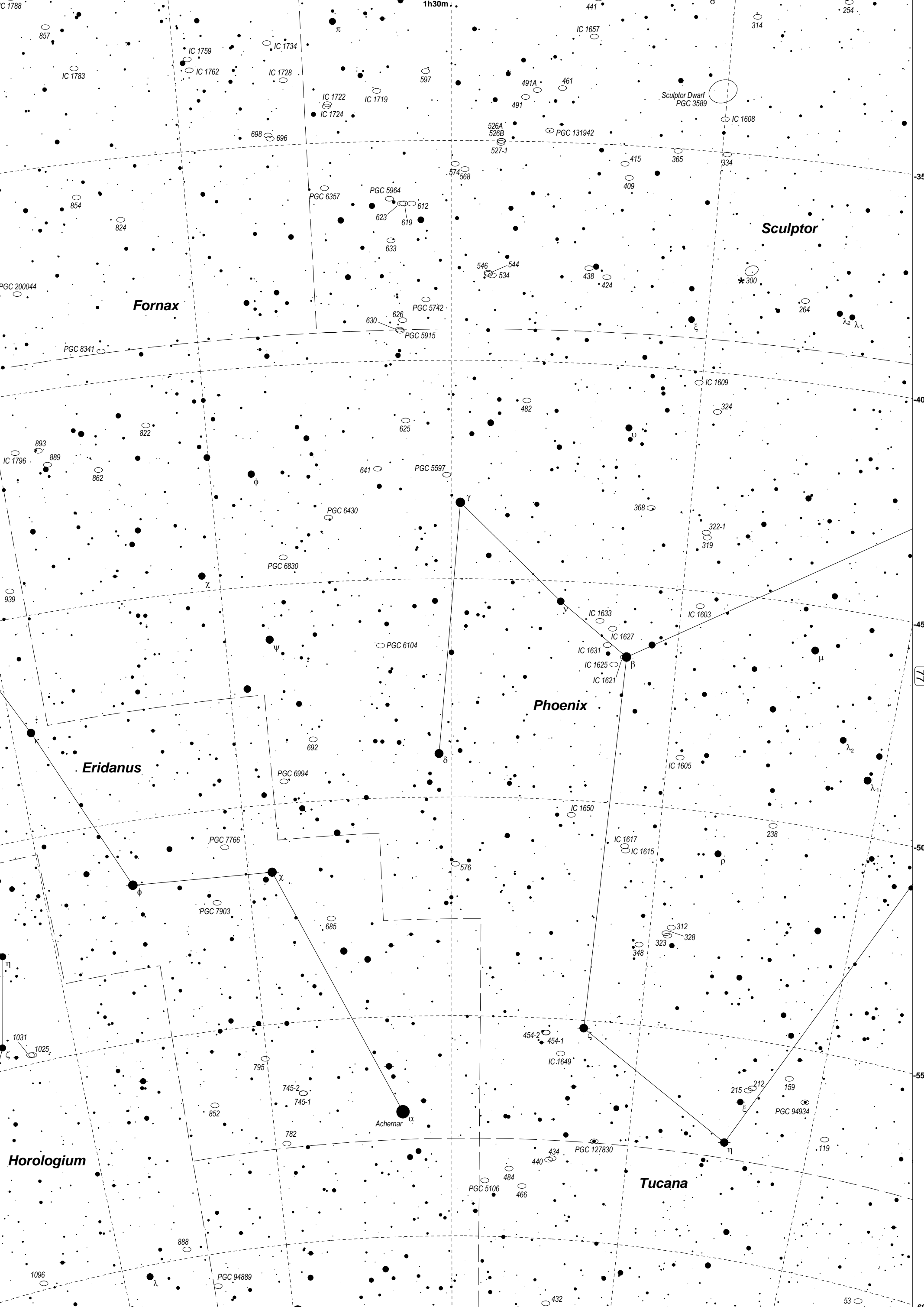
1h30m

1h

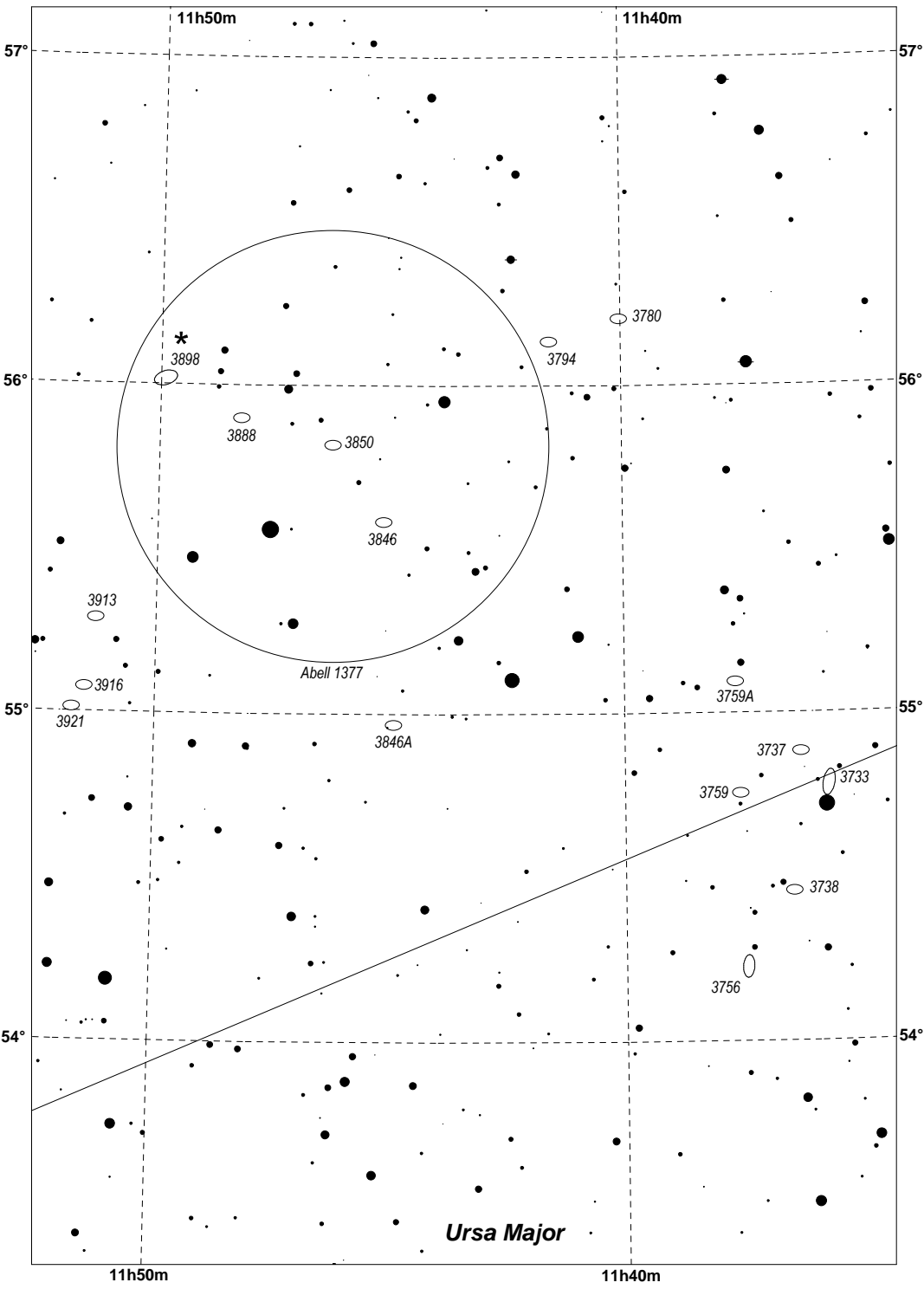
0h30m

101

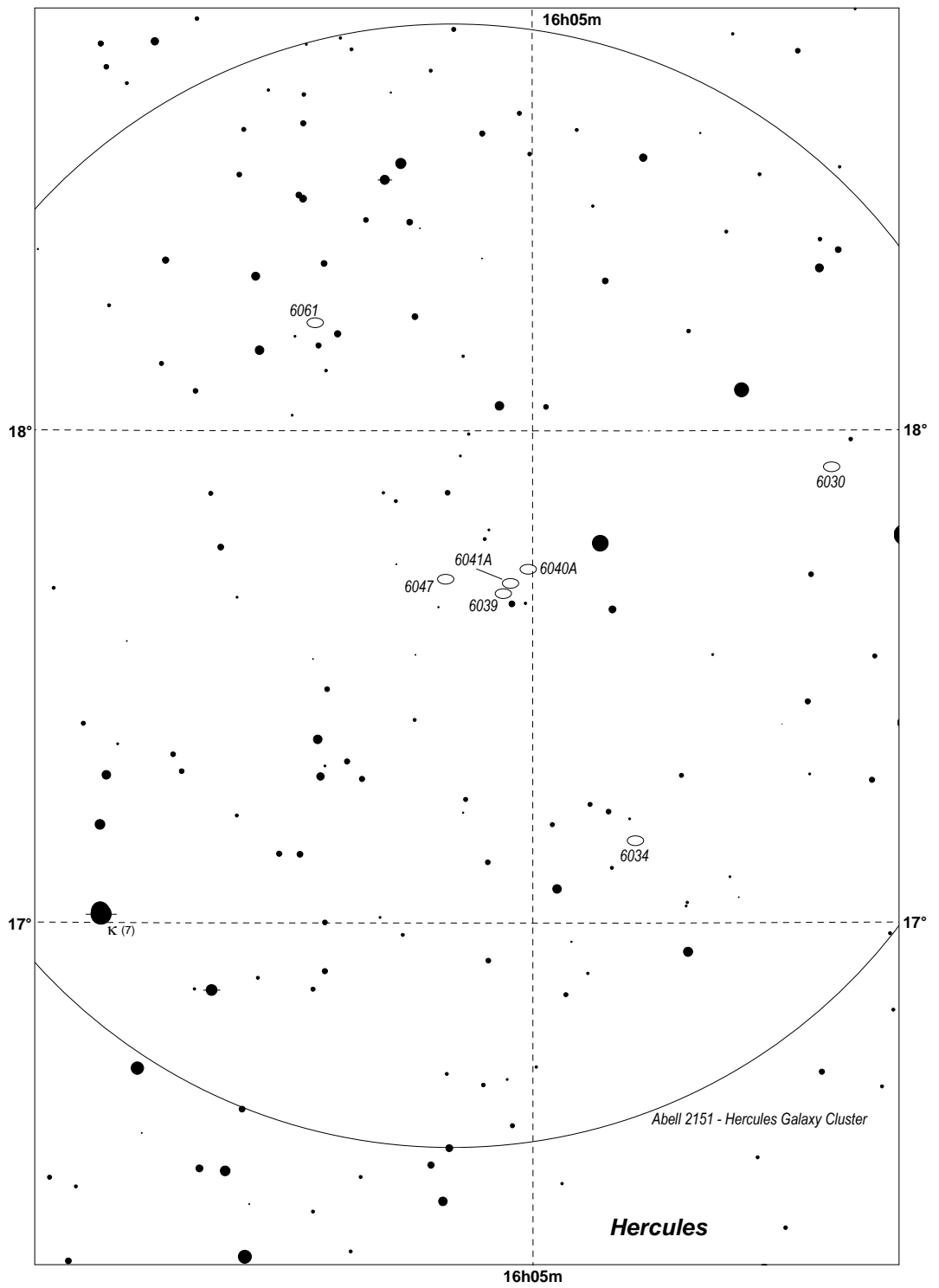
93



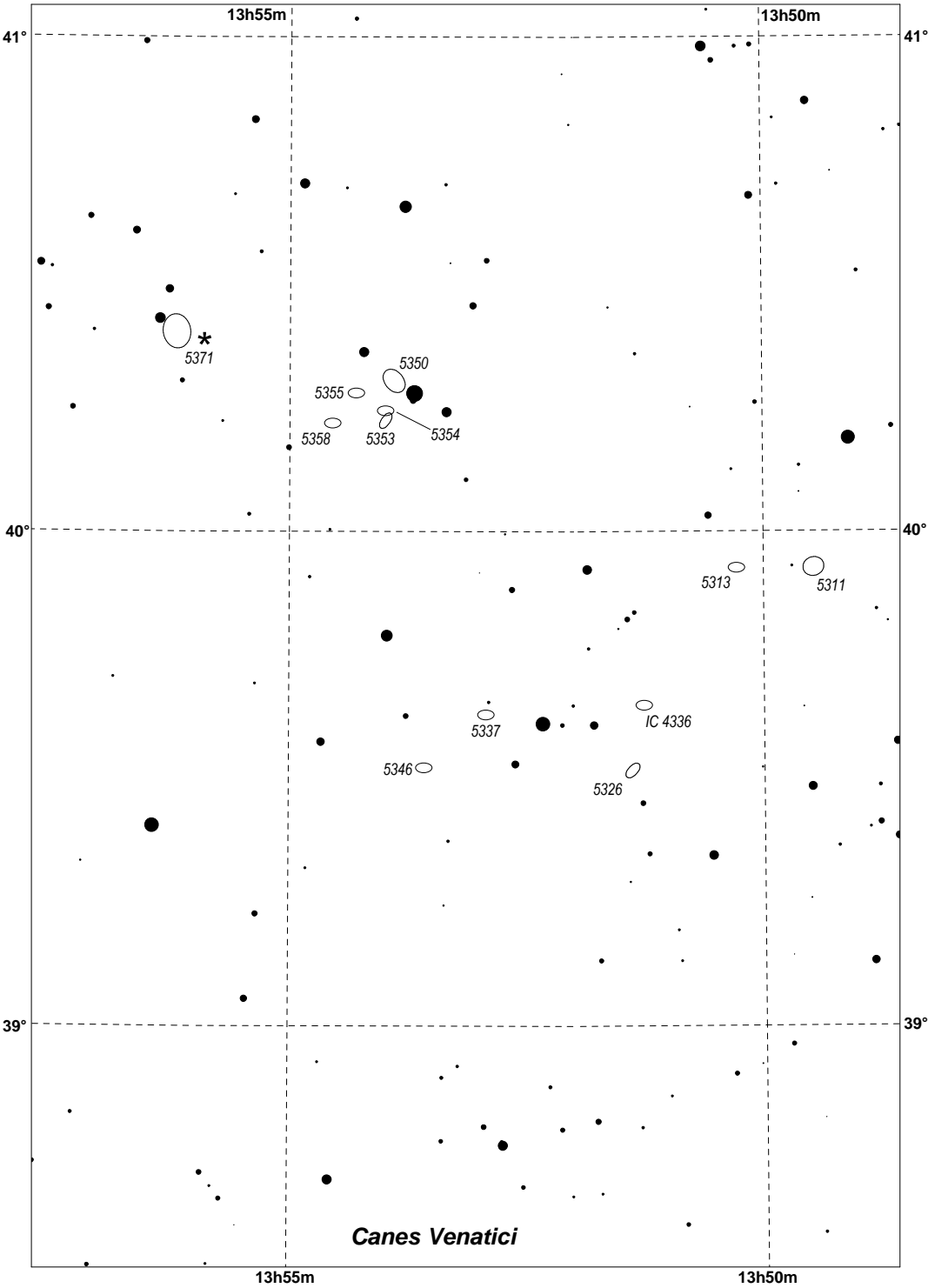
A1 - Abell 1377



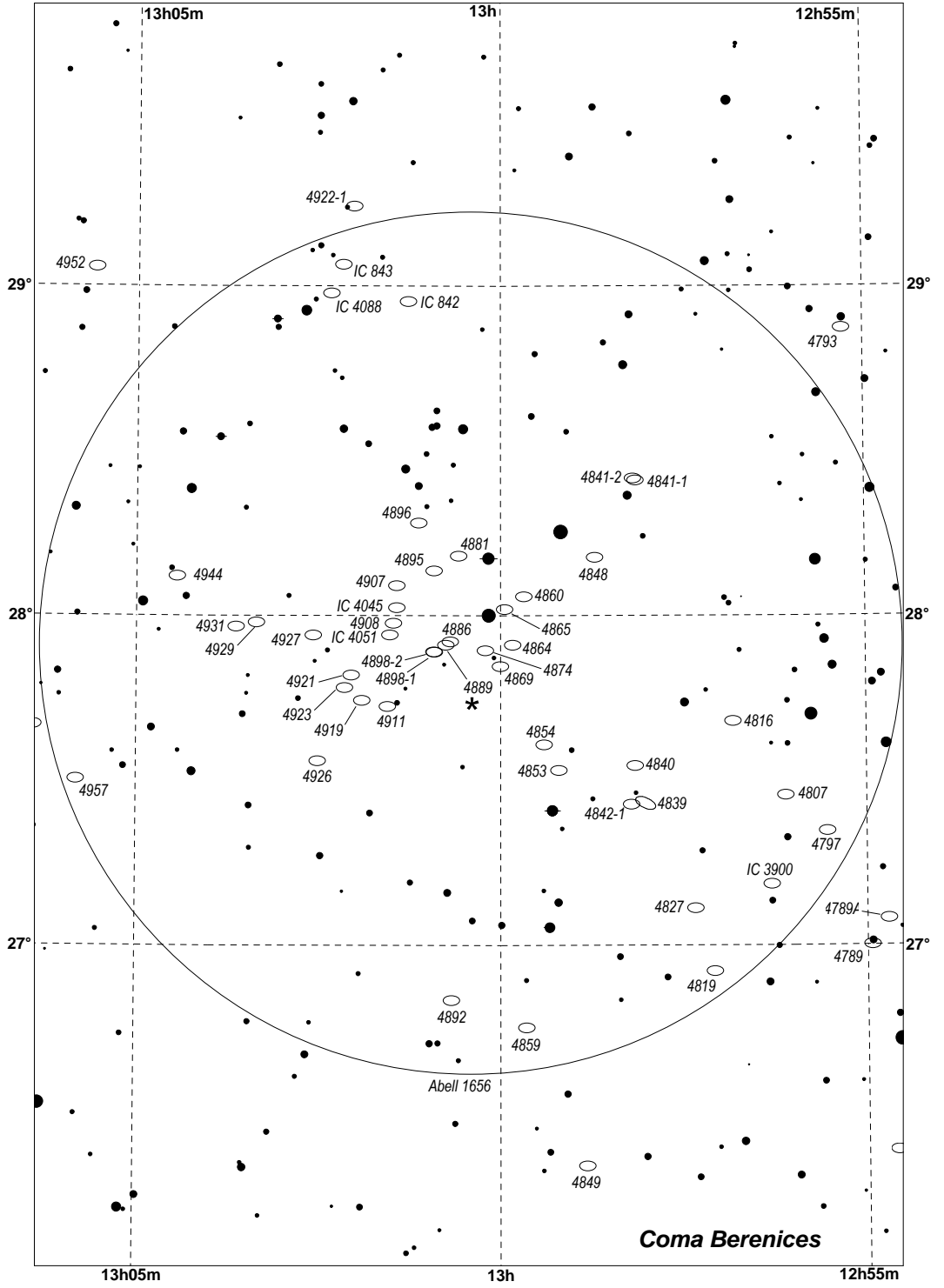
A2 - Hercules cluster Abell 2151



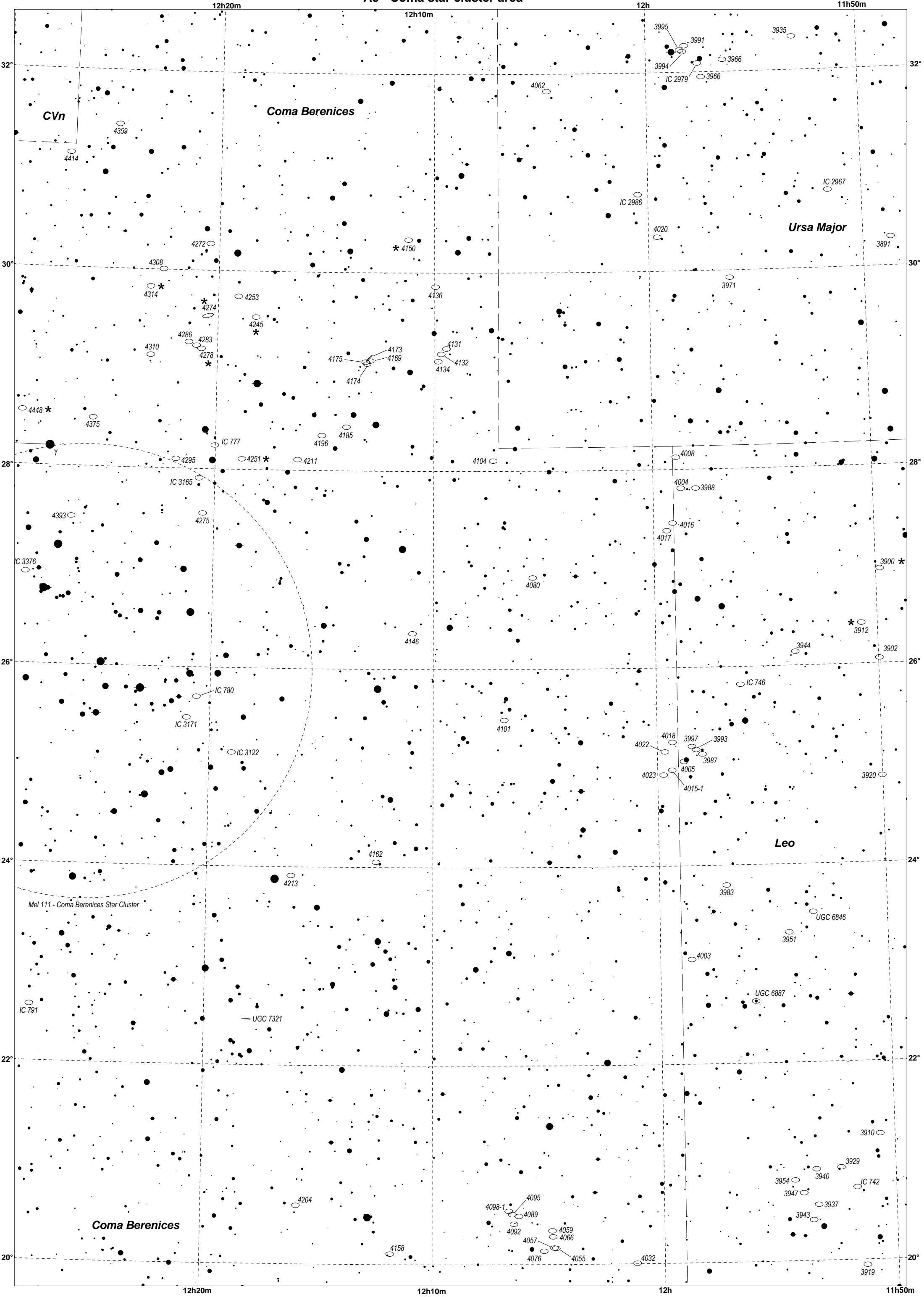
A3 - Hickson 68



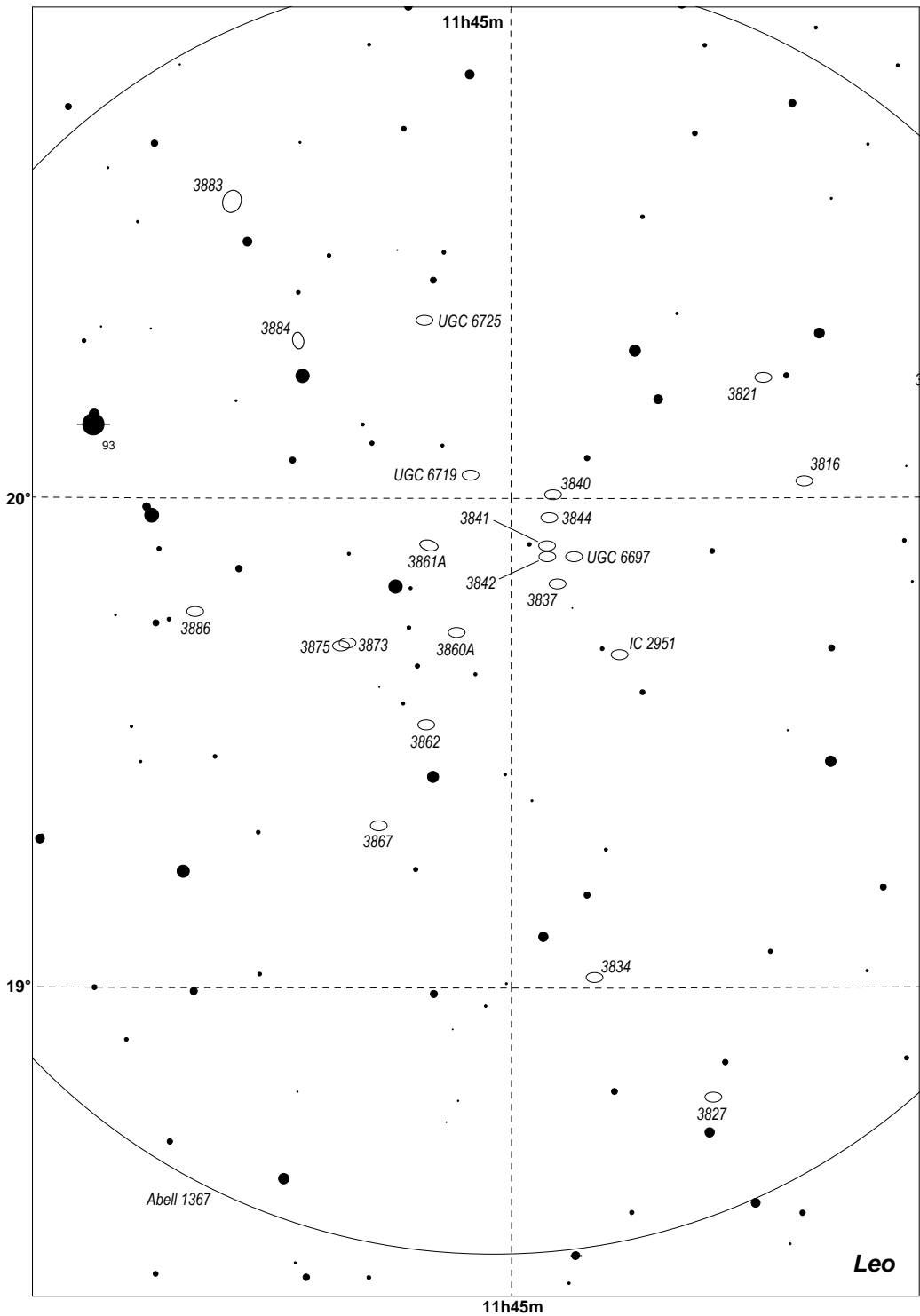
A4 - Coma cluster Abell 1656



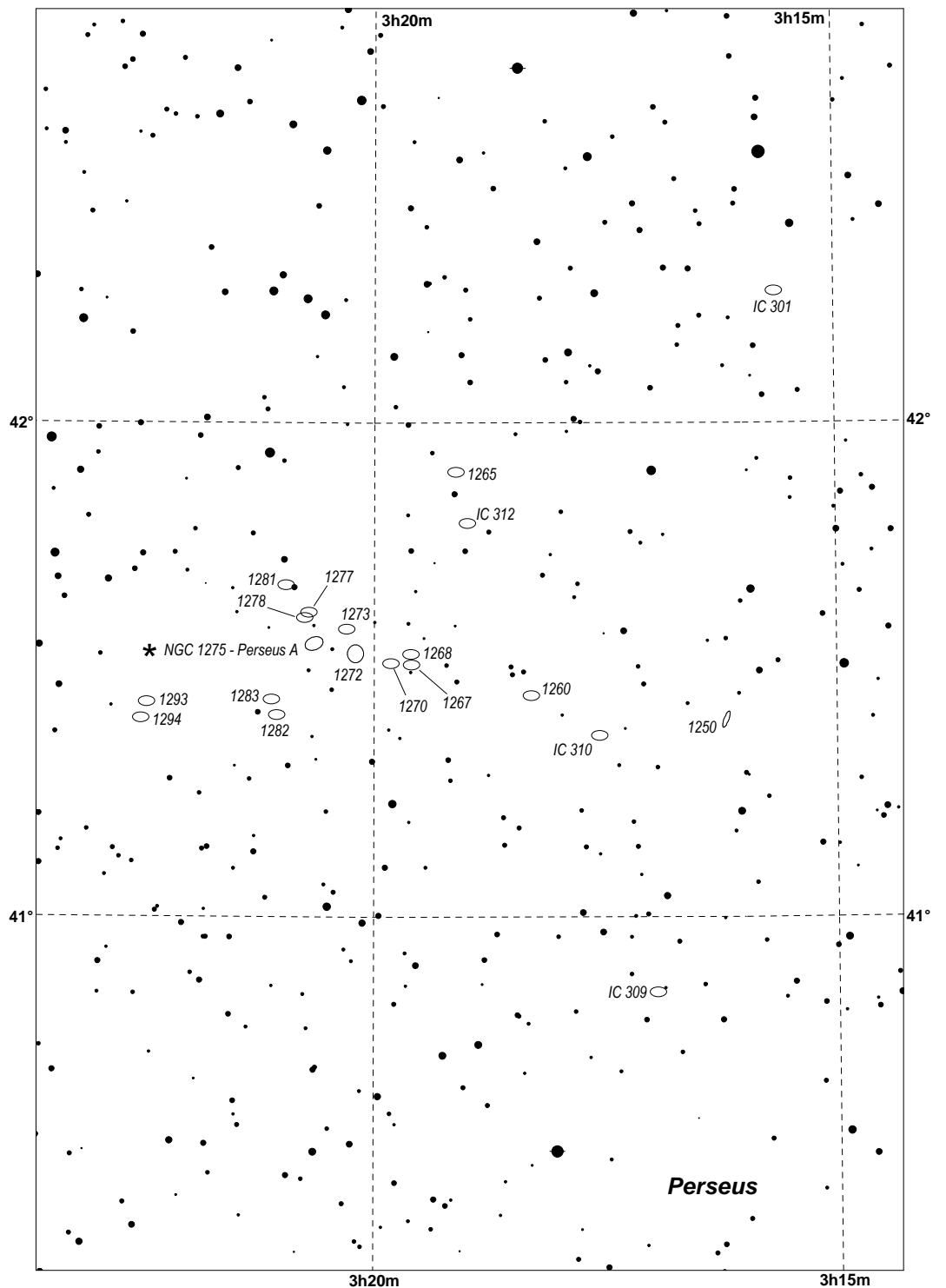
A5 - Coma star cluster area



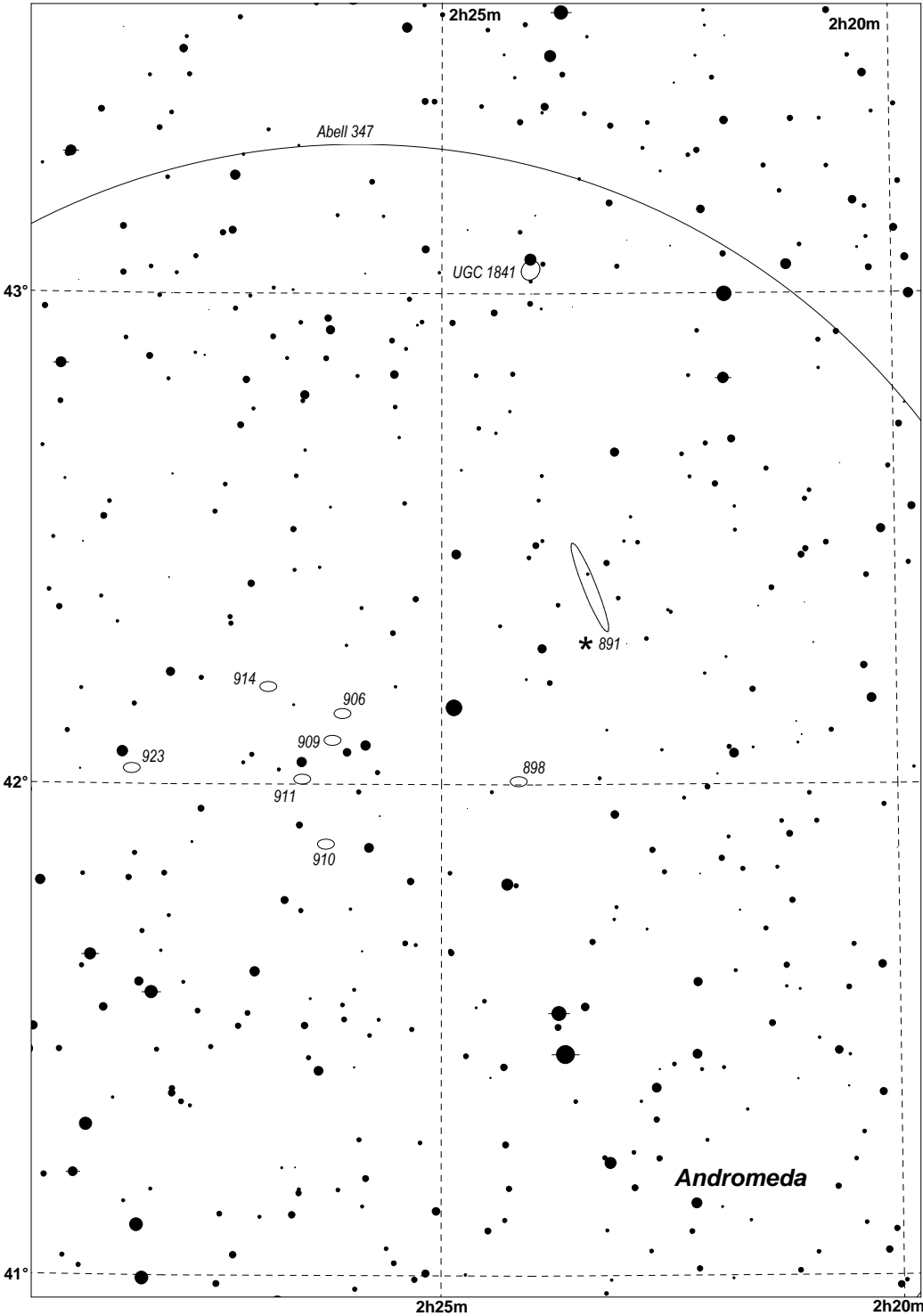
A6 - Leo cluster Abell 1367



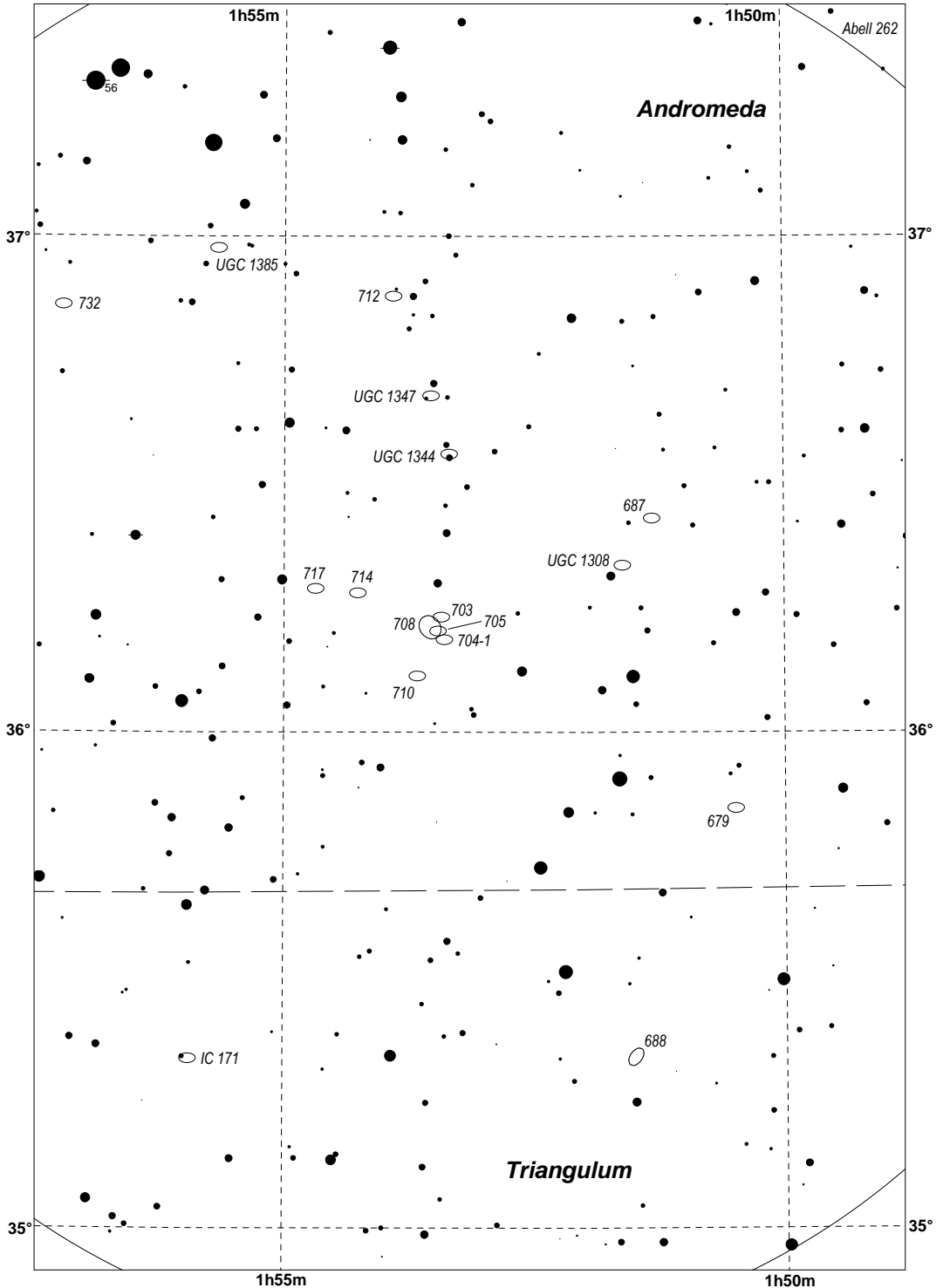
A7 - Perseus cluster Abell 426



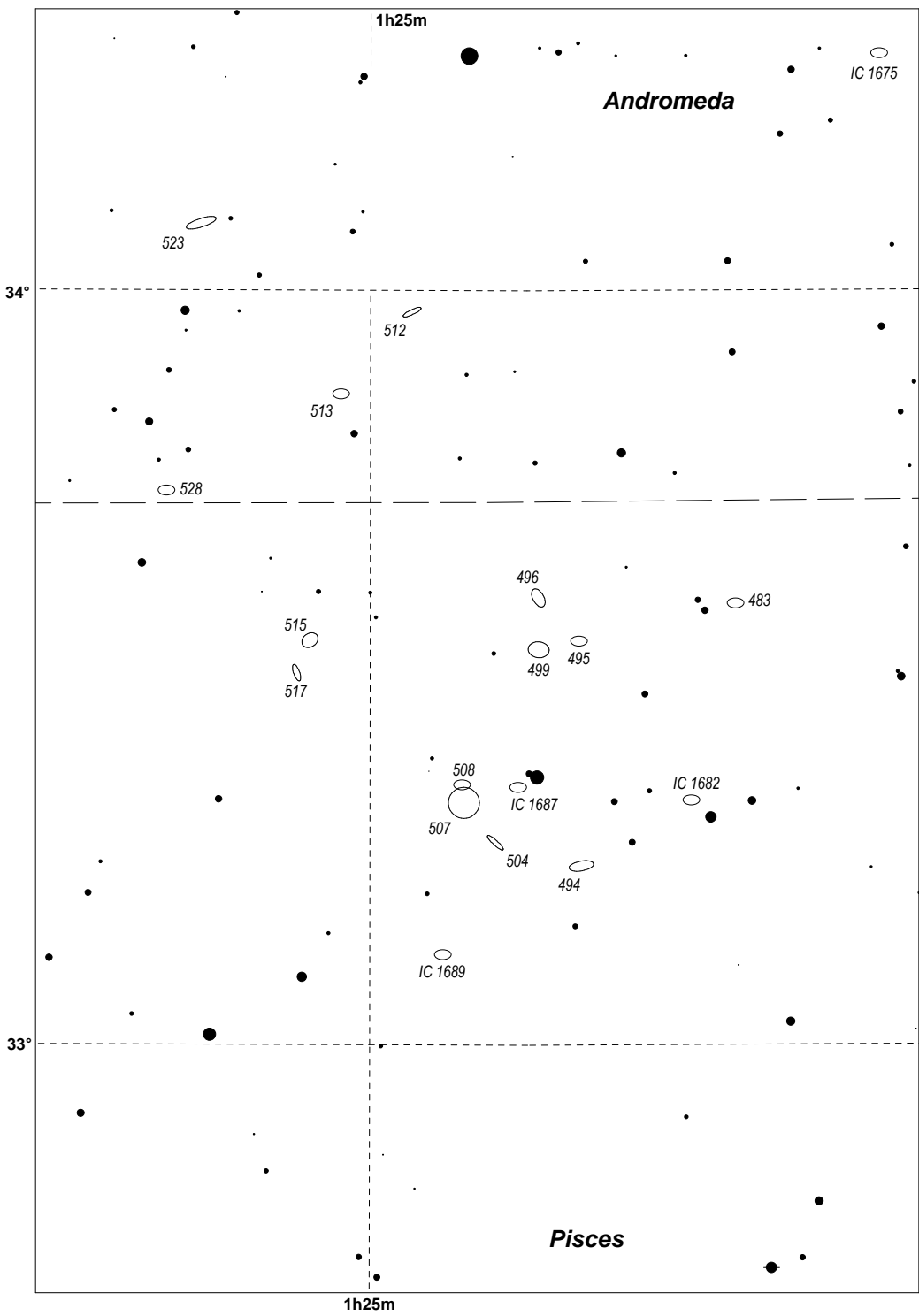
A8 - Abell 347



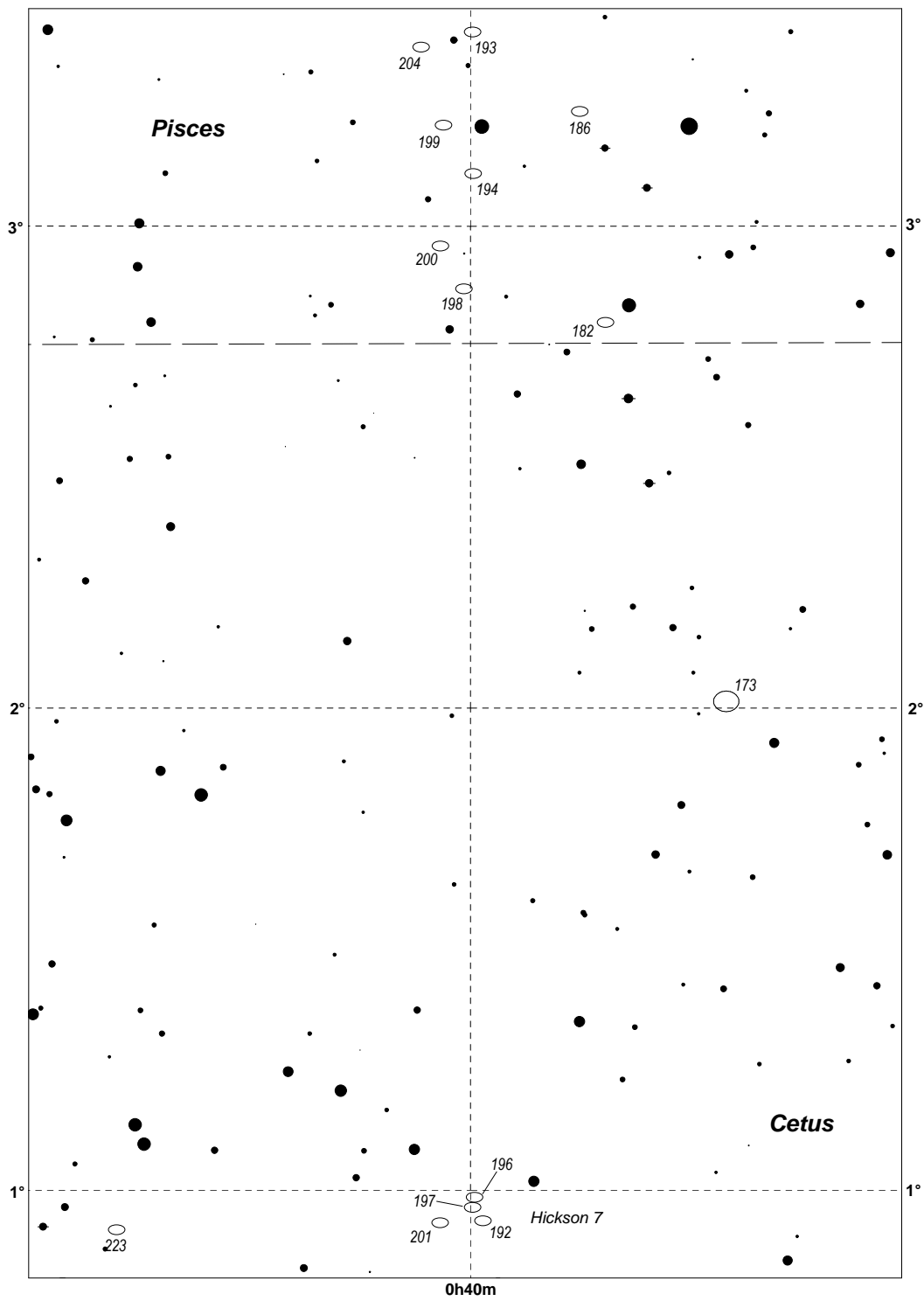
A9 - Abell 262



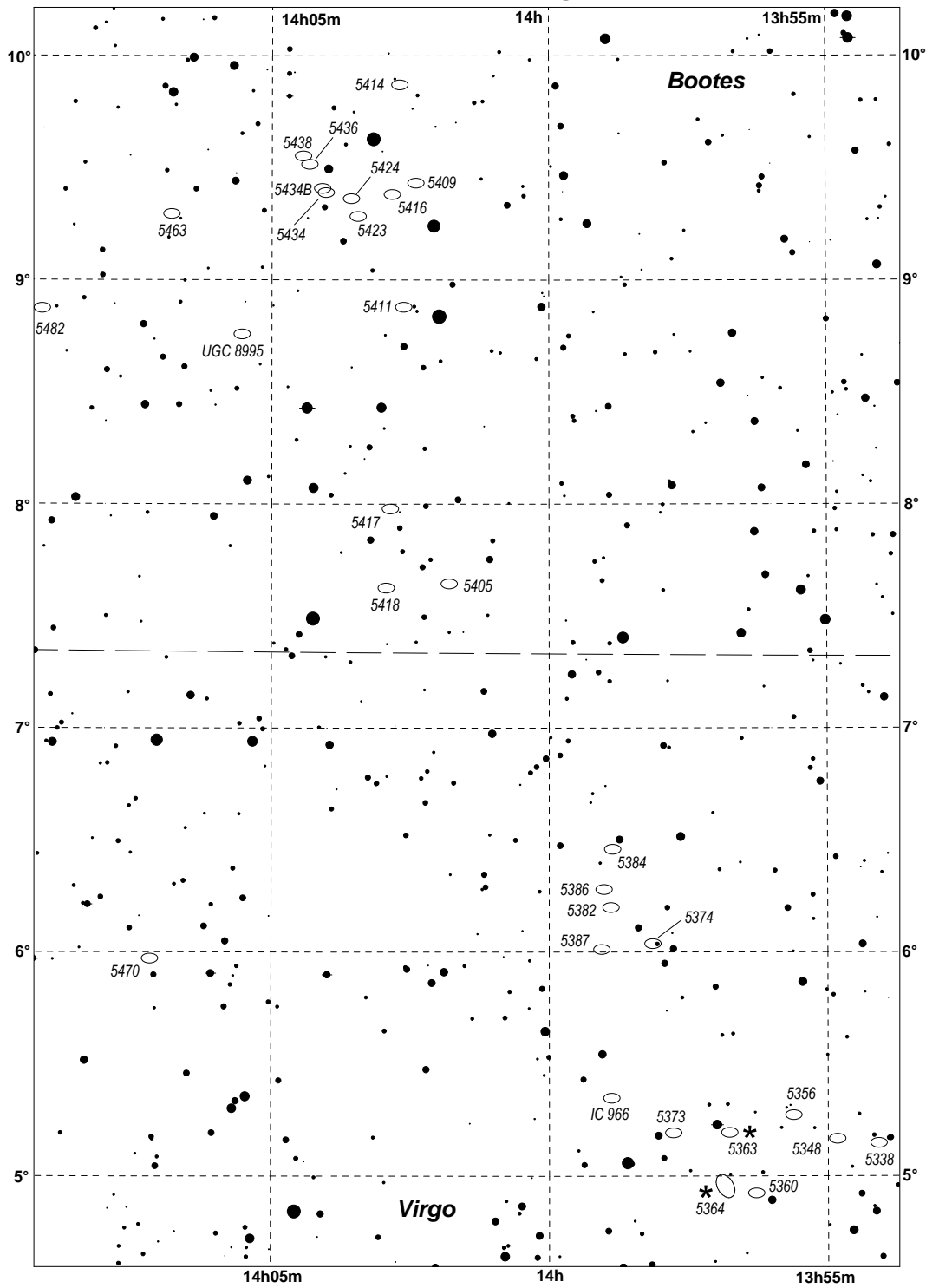
A10 - NGC 507 group



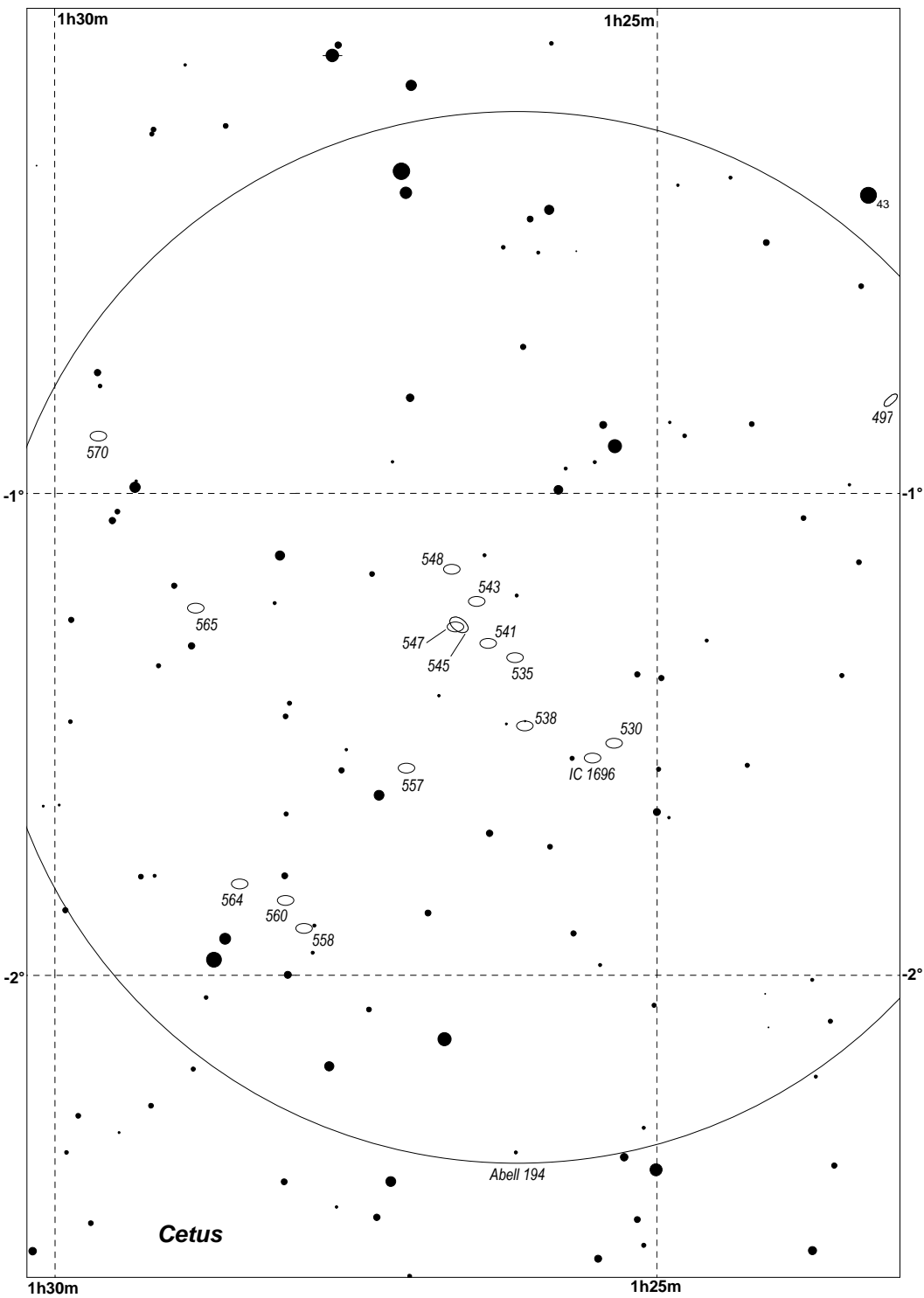
A11 - Hickson 7 and NGC 194 region



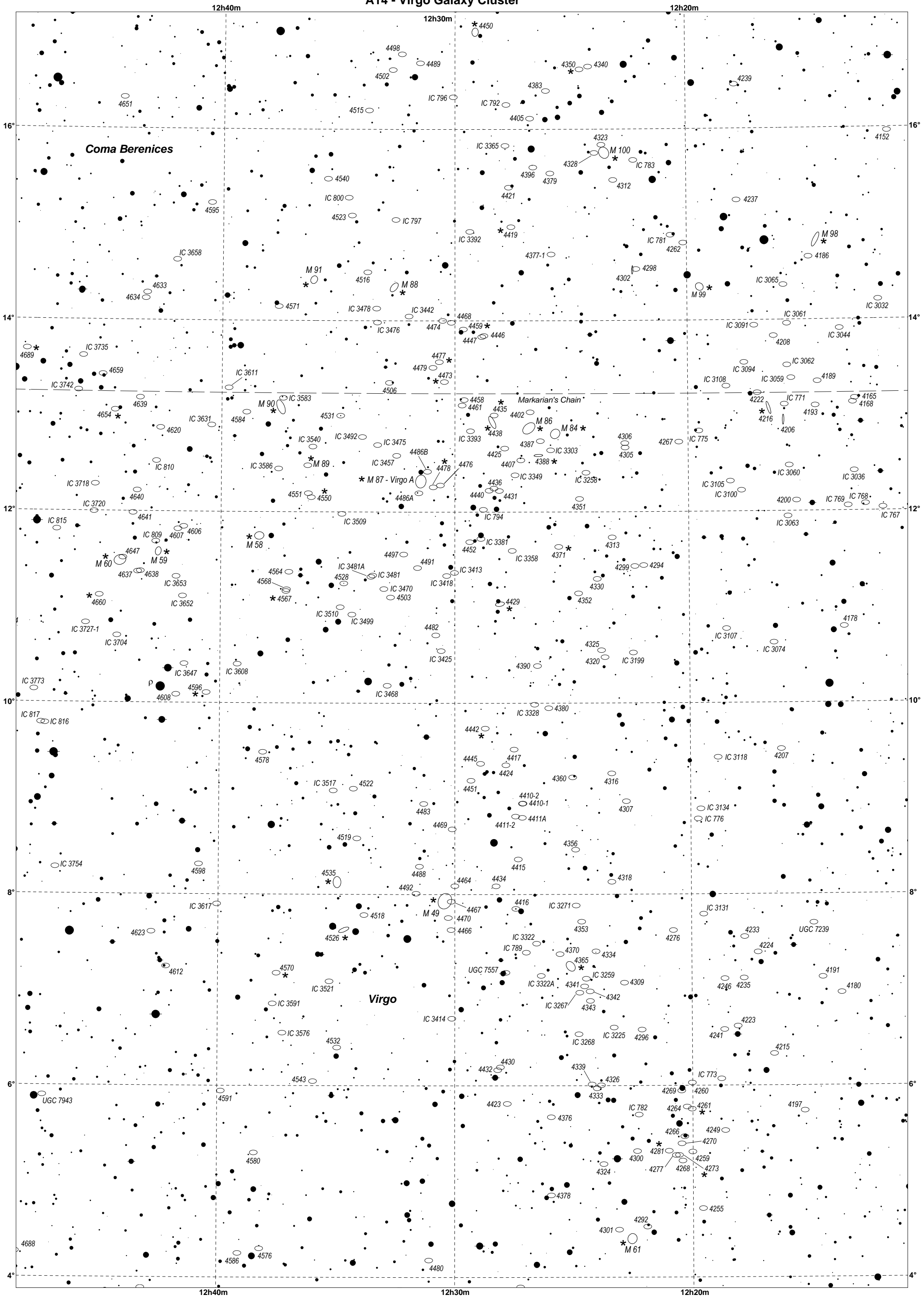
A12 - NGC 5364 region



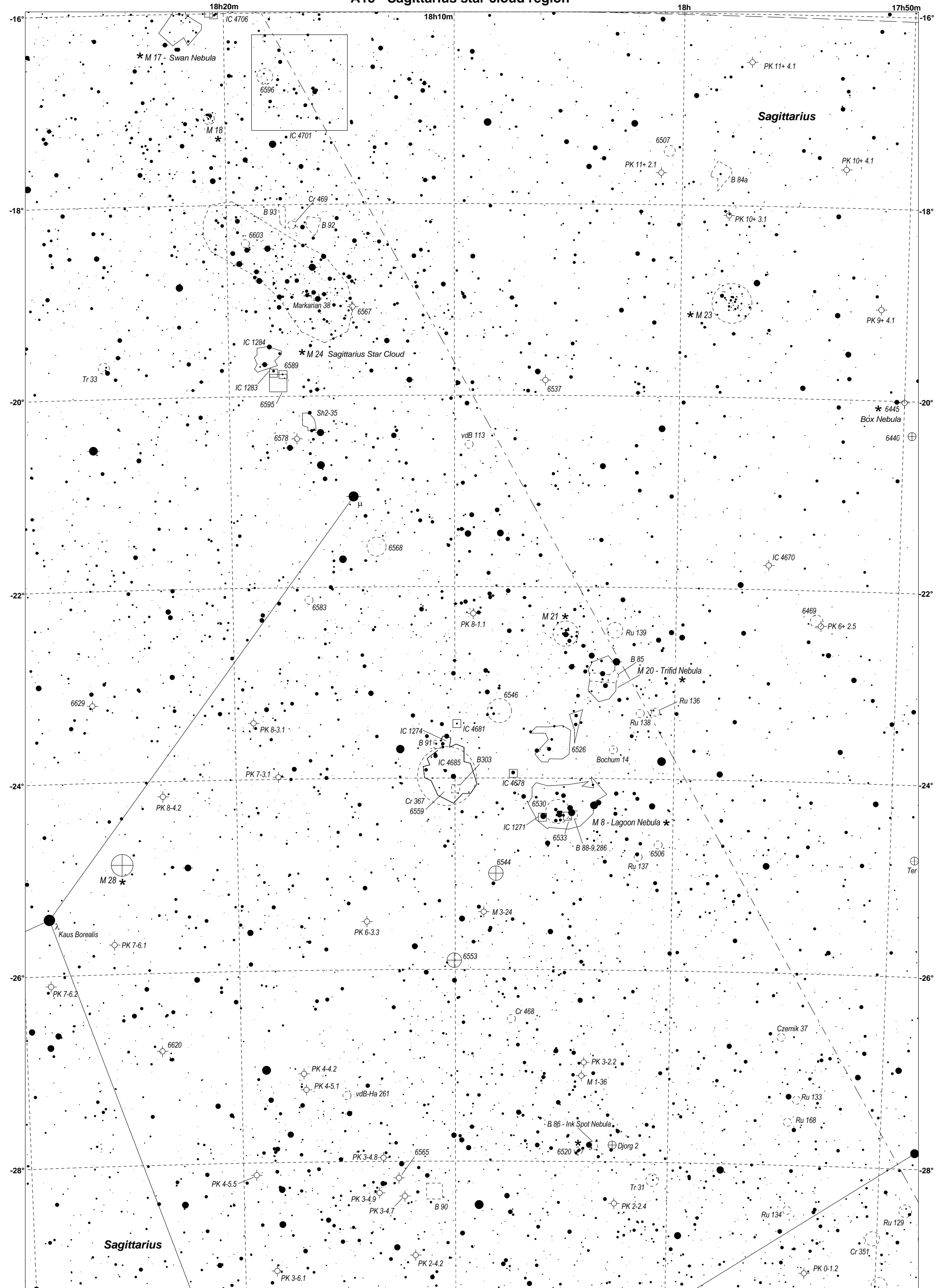
A13 - Abell 194



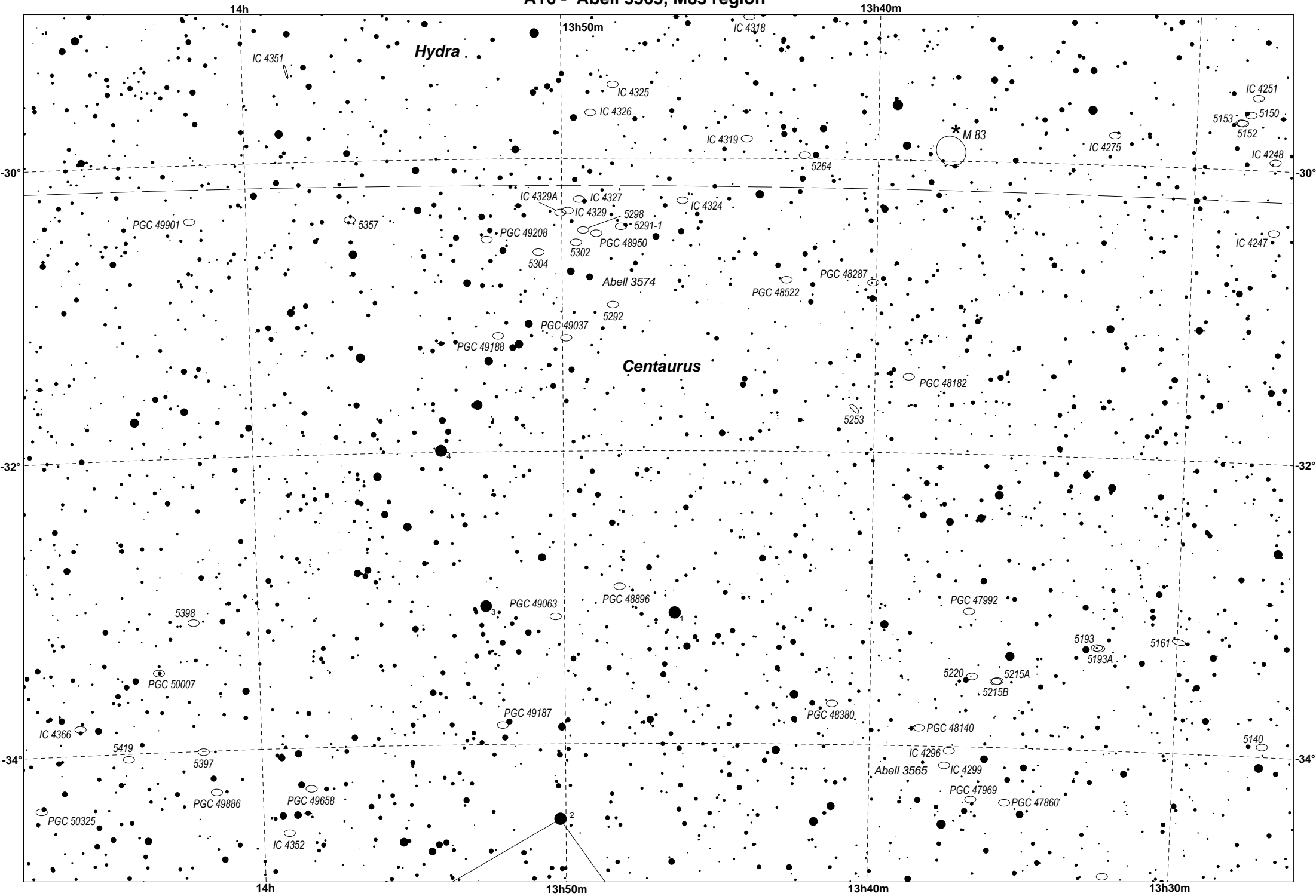
A14 - Virgo Galaxy Cluster



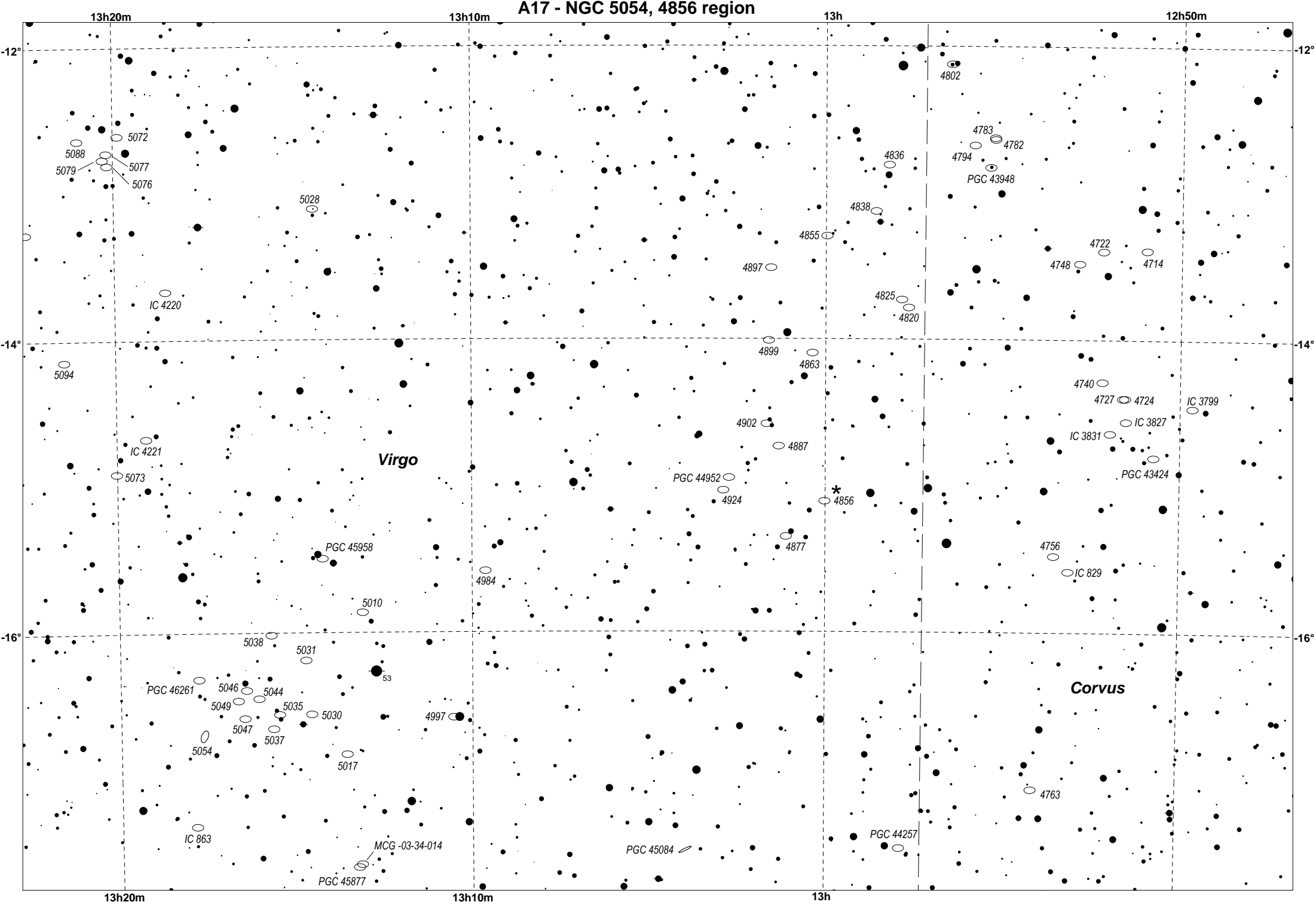
A15 - Sagittarius star cloud region



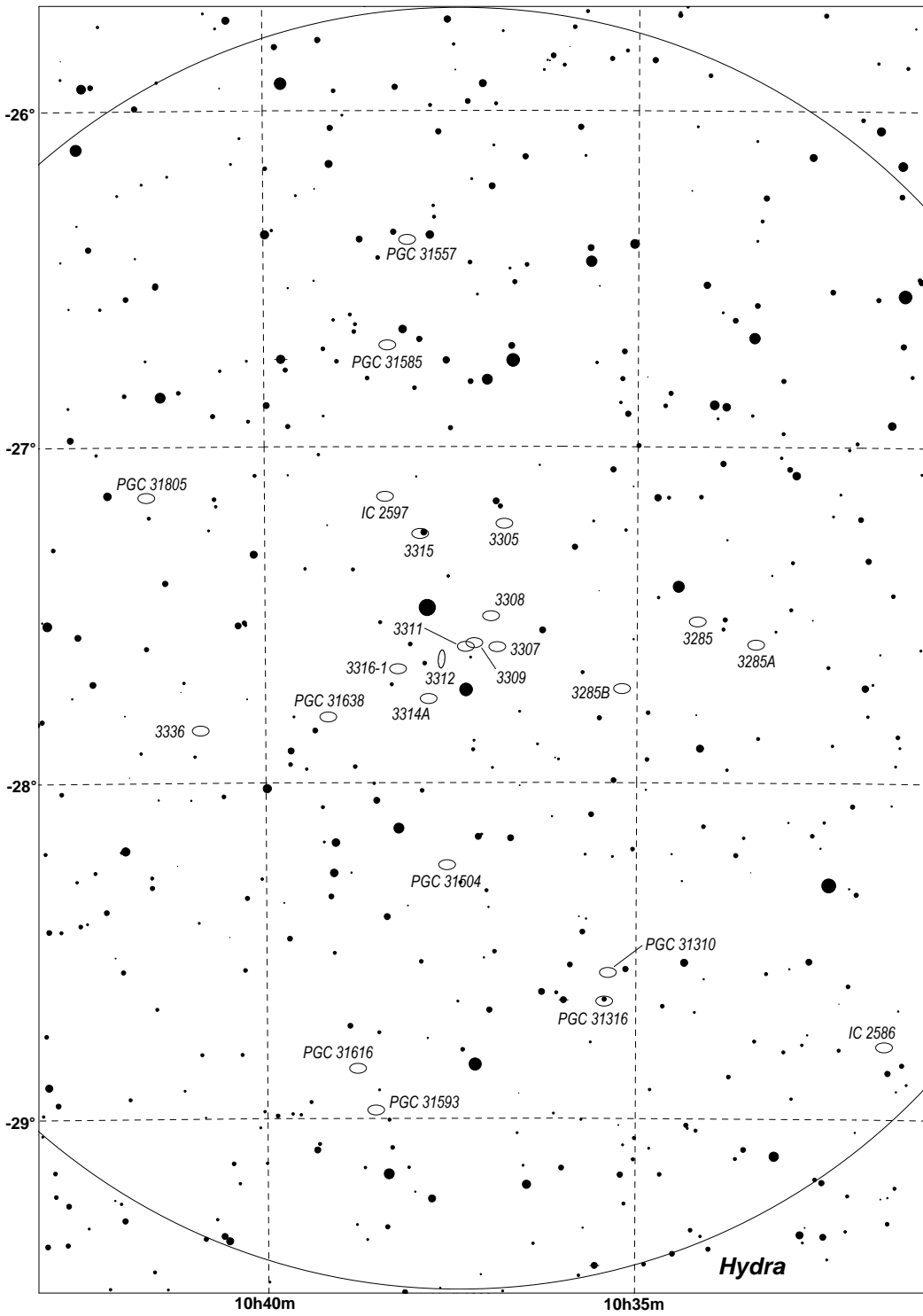
A16 - Abell 3565, M83 region



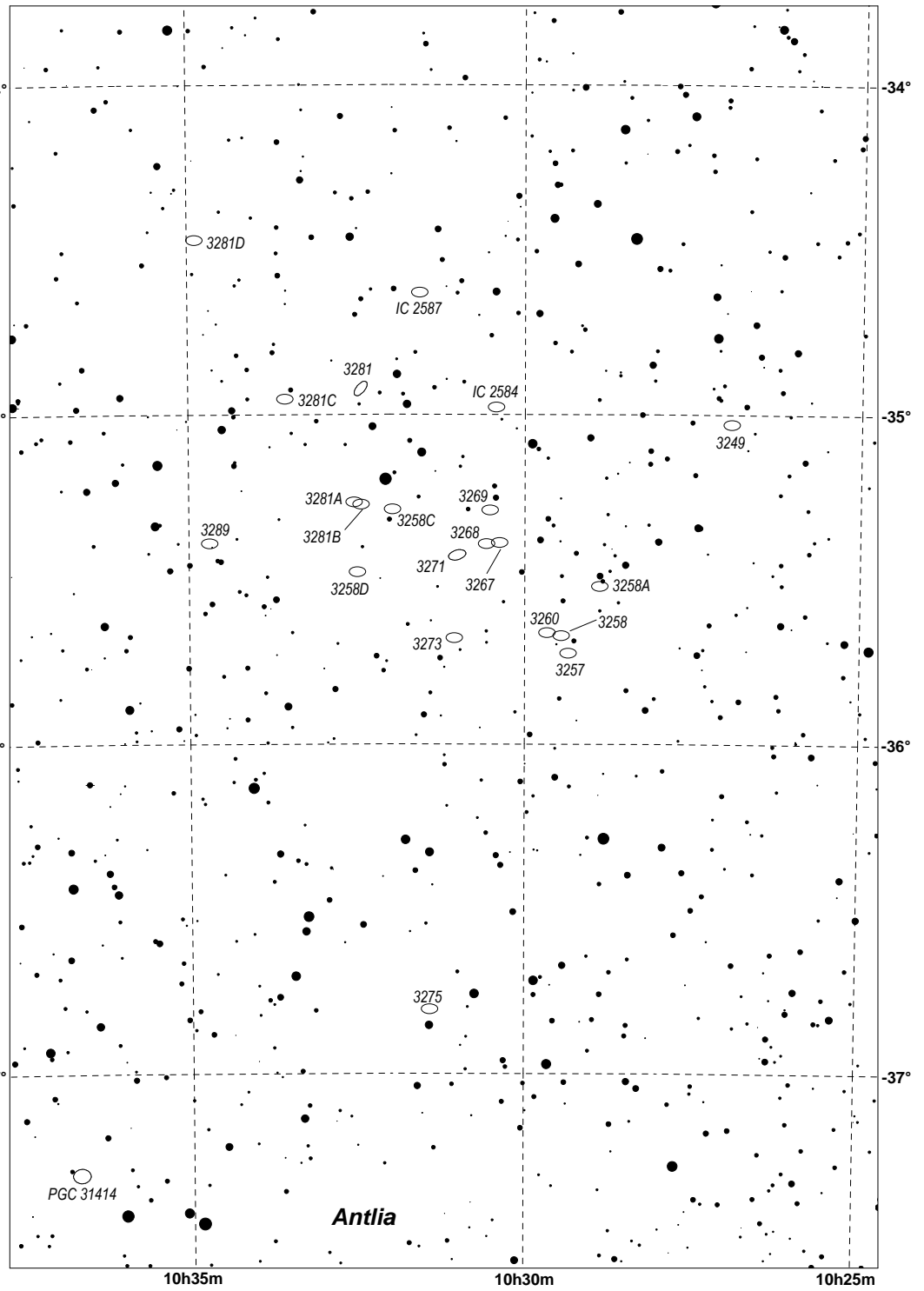
A17 - NGC 5054, 4856 region



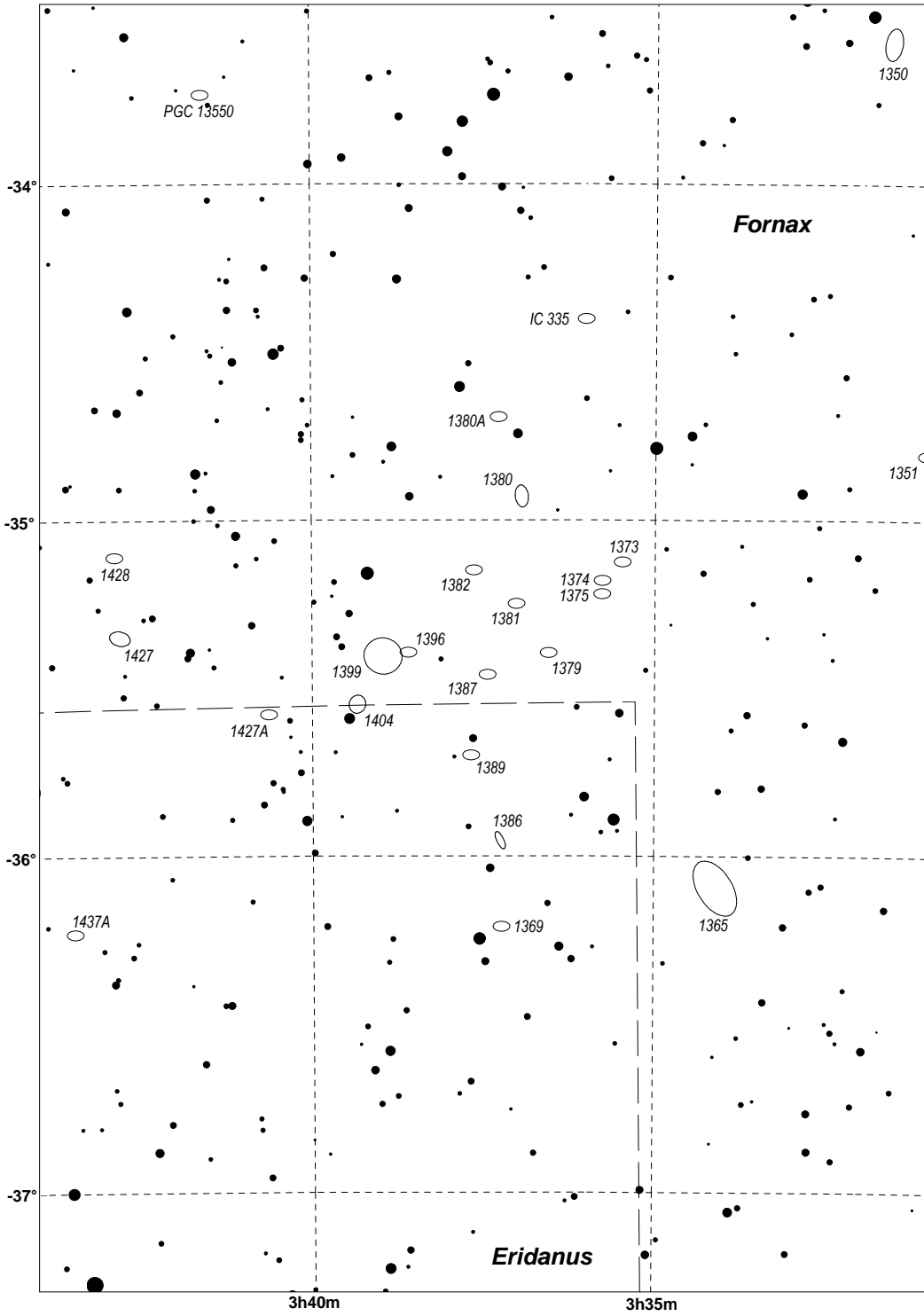
A18 - Hydra cluster Abell 1060



A19 - Antlia's cluster Abell S0636



A20 - Fornax cluster Abell S0373



A21 - Centaurus cluster Abell 3526

