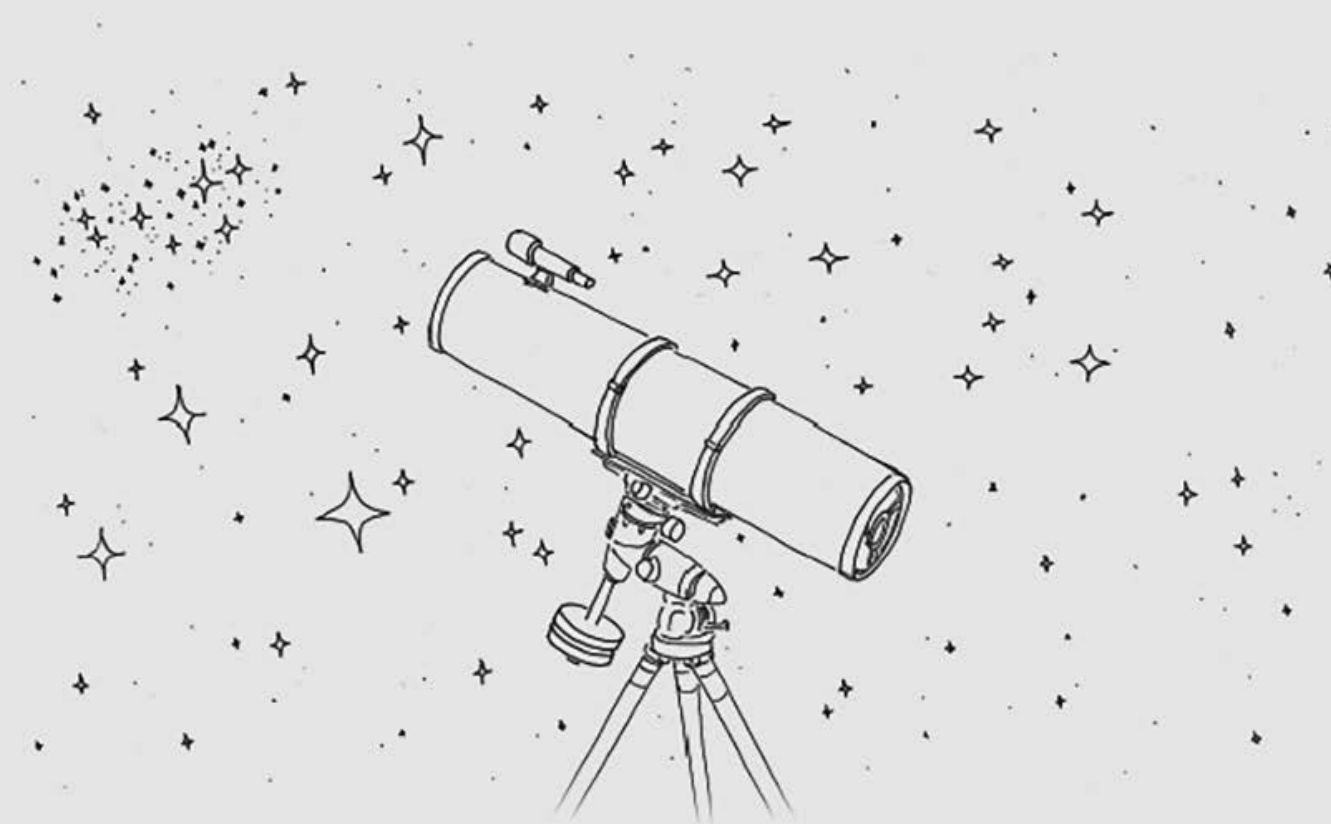


# DEEP SKY HUNTER STAR ATLAS

Michael Vlasov - [deepskywatch.com](http://deepskywatch.com)

Desk Edition, Second Revision (2017)



Deep Sky Hunter - a printable atlas of deep sky objects for advanced observers. Desk (B/W) edition, 2nd revision (june 1st 2017).

Plotted 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 best), bright & dark nebulae, common names.

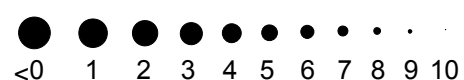
Entire sky covered by 101 charts, 2 Index maps and 21 detailed "zoom" charts. Supplementary object lists available.

Each chart covers 20x30° (40x30° double page spreads), designed for A3 portrait B/W printing at 600 dpi. W/B field editon available

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

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## MAP KEY



- ⊞ Quasar
- Multiple star
- ☁ Dark nebula
- Galaxy
- ◻ Bright nebula

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

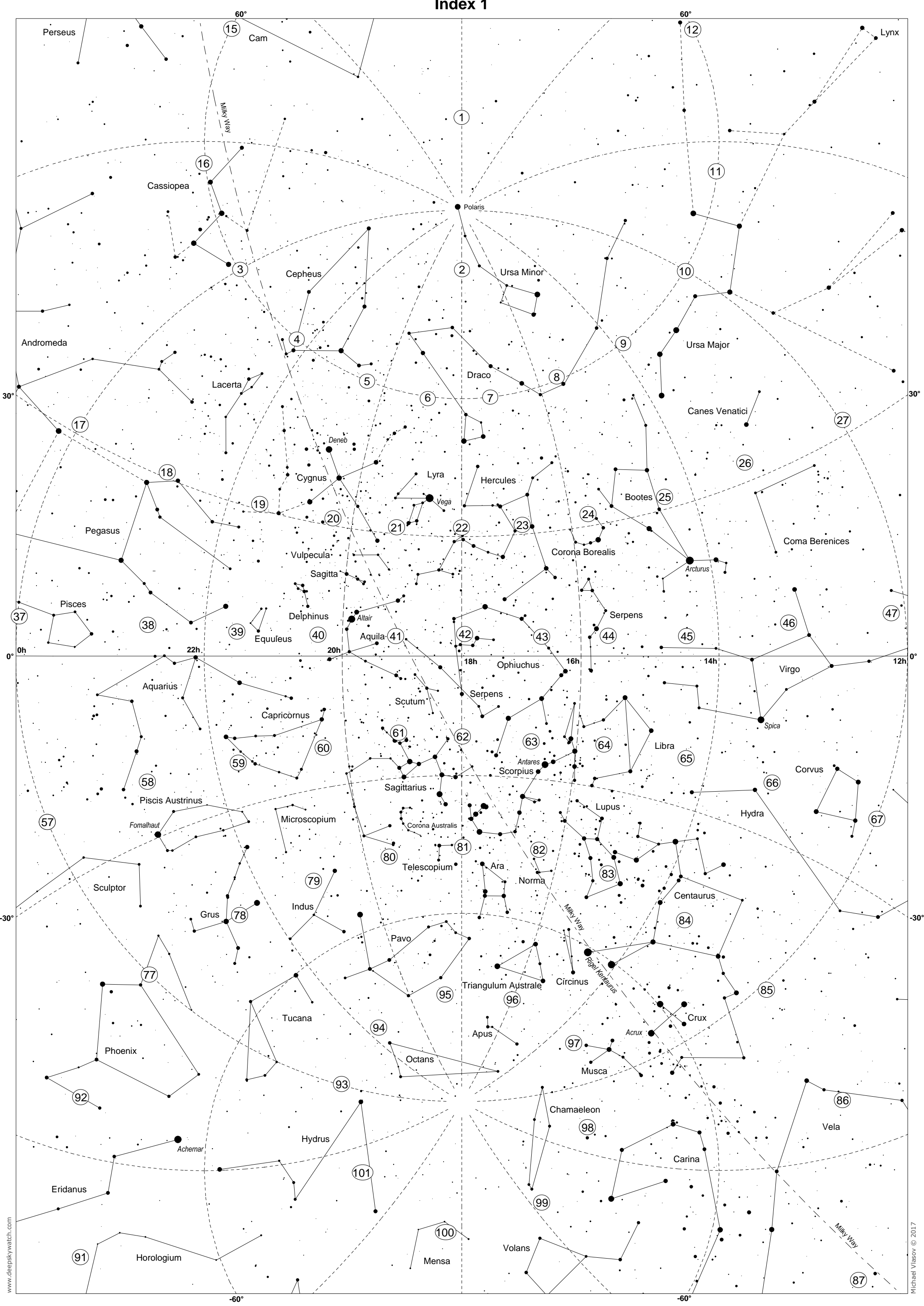
IC 3799 Other catalog number

\* Best DSO, indicates that object is listed in:  
Messier / Caldwell / Herschel 400 / SAC best

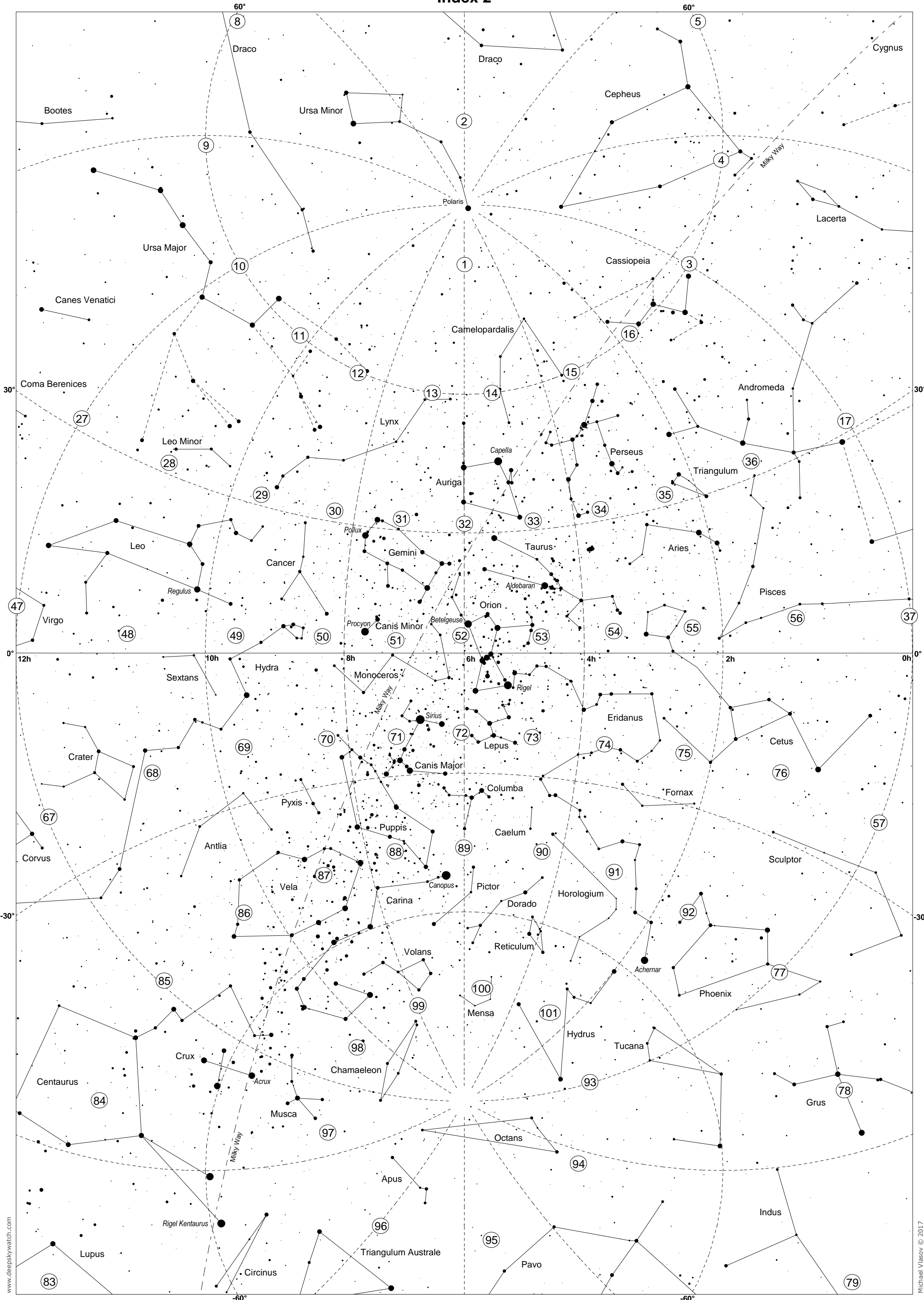
**46** Next neighbour page reference

**chart A17** Detailed "zoom" chart reference

# Index 1



# Index 2



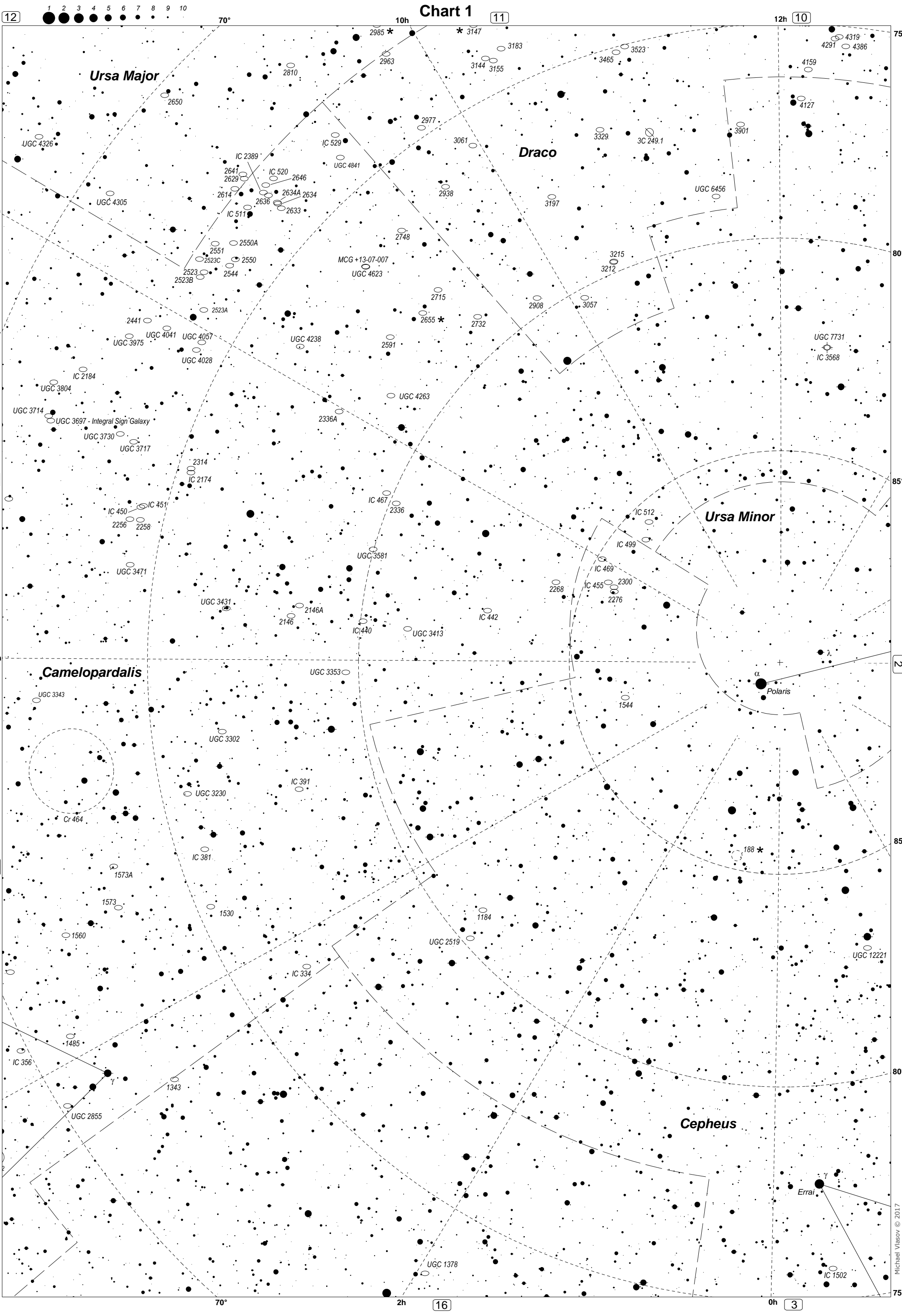


Chart 1

Ursa Major

Draco

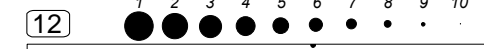
Ursa Minor

Camelopardalis

Cepheus

Polaris

Errai



12

11

10

13

14

15

10h

12h

8h

70°

6h

4h

70°

70°

16

2h

0h

3

75°

80°

85°

85°

80°

75°

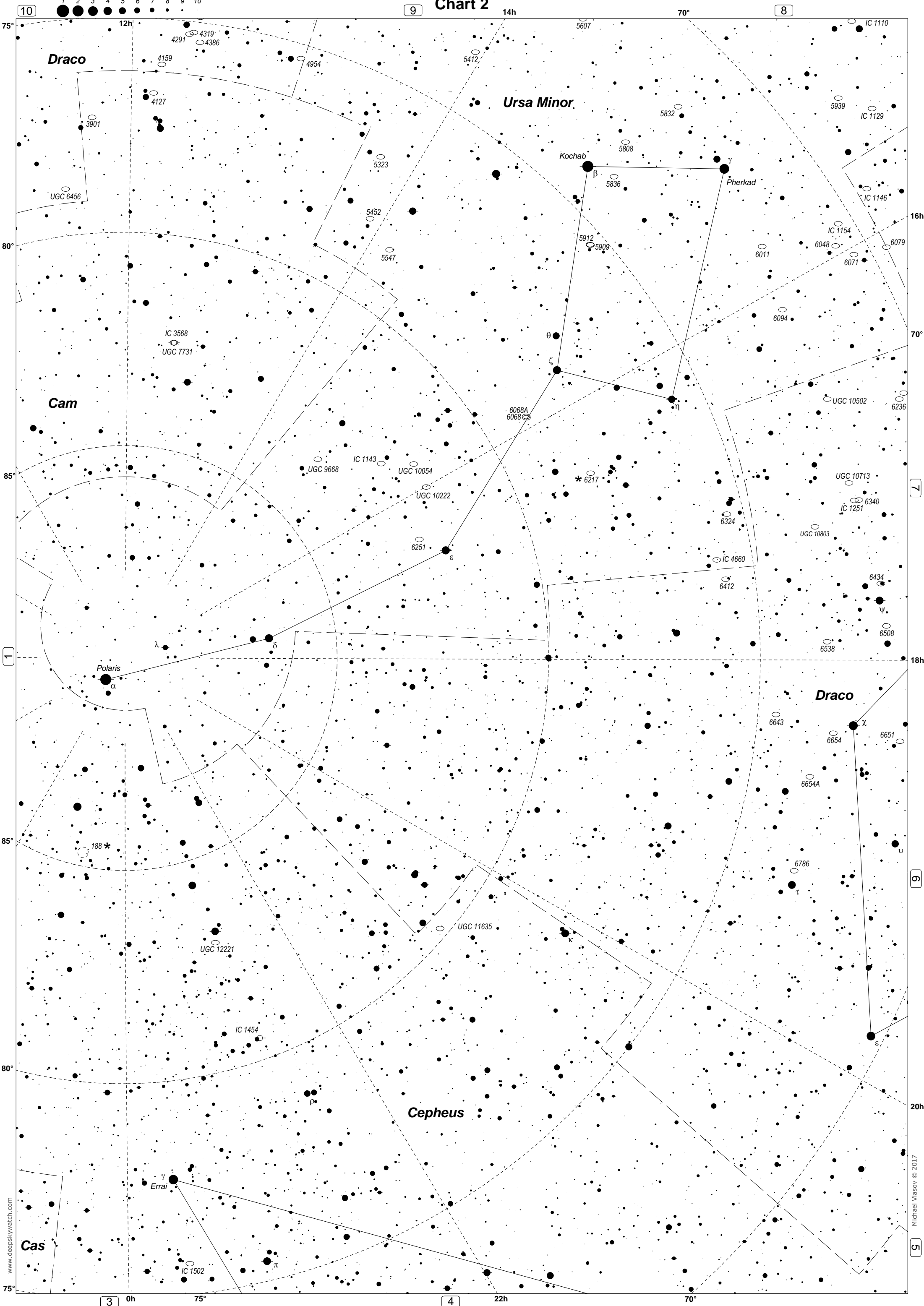


Chart 2

10

9

8

Draco

Ursa Minor

Cam

Cepheus

Cas

Draco

1 2 3 4 5 6 7 8 9 10

12h

14h

70°

75°

80°

85°

85°

80°

75°

0h

75°

22h

70°

16h

70°

7

18h

6

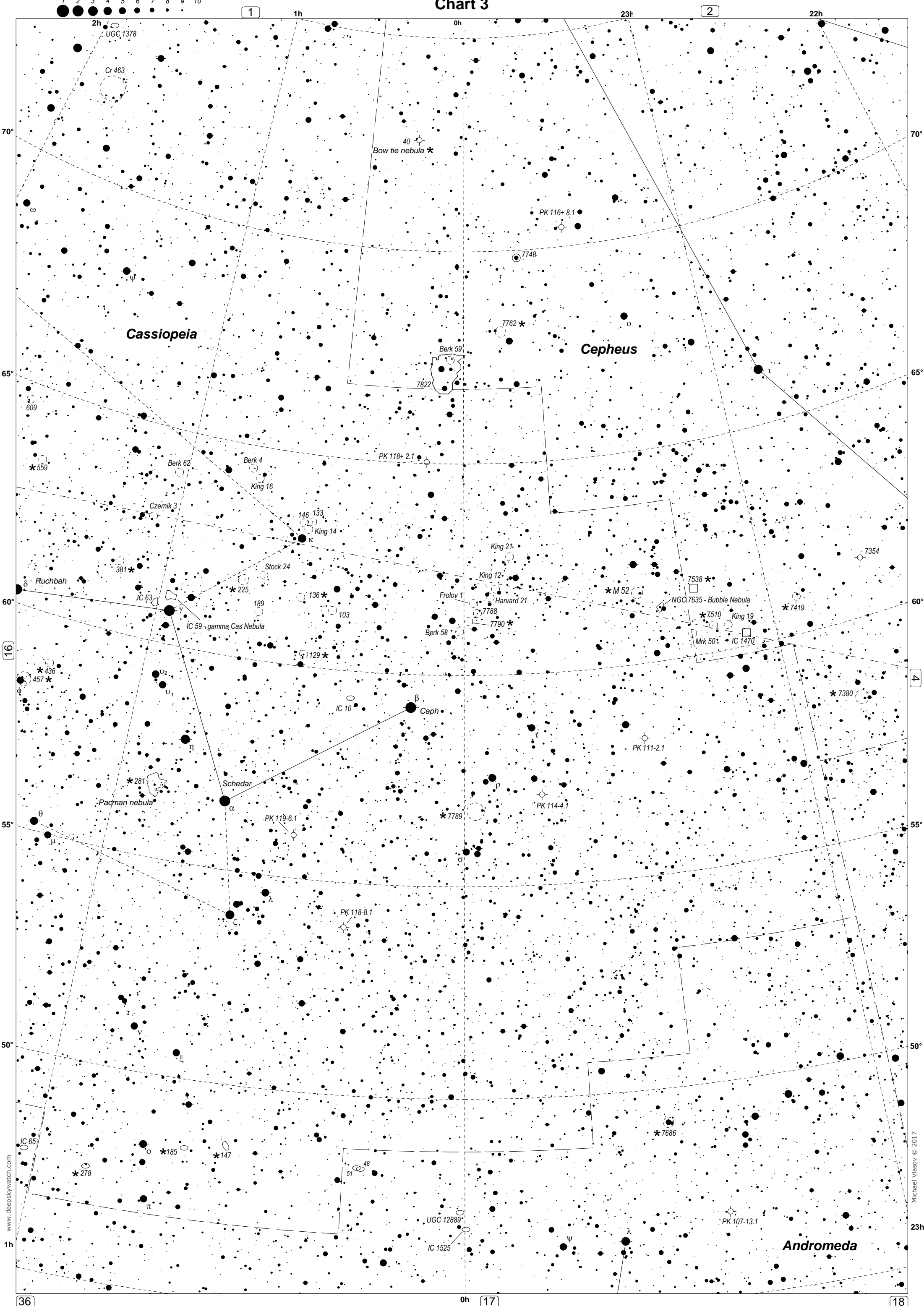
20h

5

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# Chart 3



**Cassiopeia**

**Cepheus**

**Andromeda**

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Chart 4

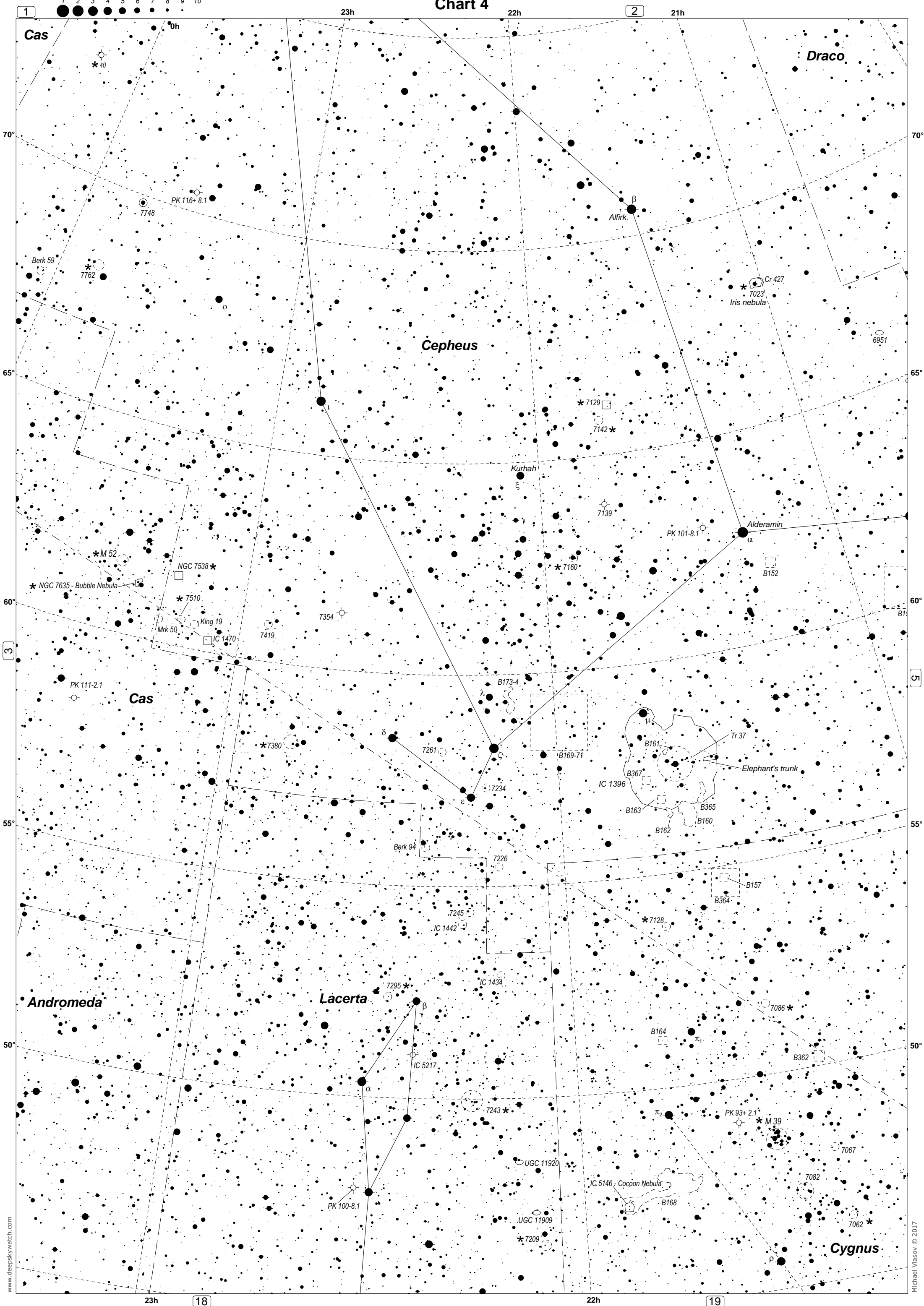


Chart 5





Cepheus

Draco

Cygnus

Hercules

Lyra

Altais

Grumium

Eltanin

1 2 3 4 5 6 7 8 9 10

70°

70°

65°

65°

60°

60°

55°

55°

50°

50°

45°

45°

www.deepskywatch.com

Michael Vlasov © 2017

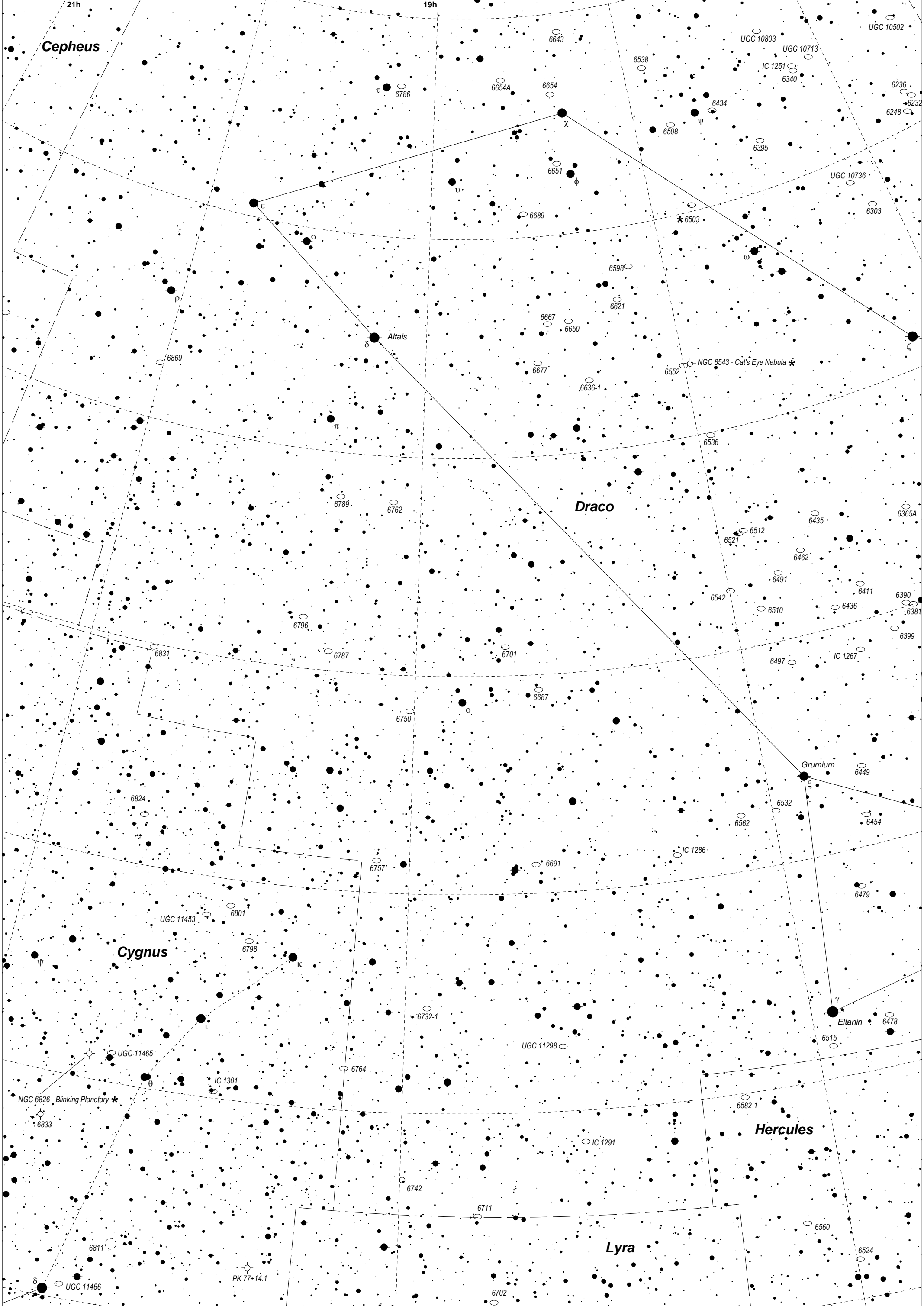


Chart 7

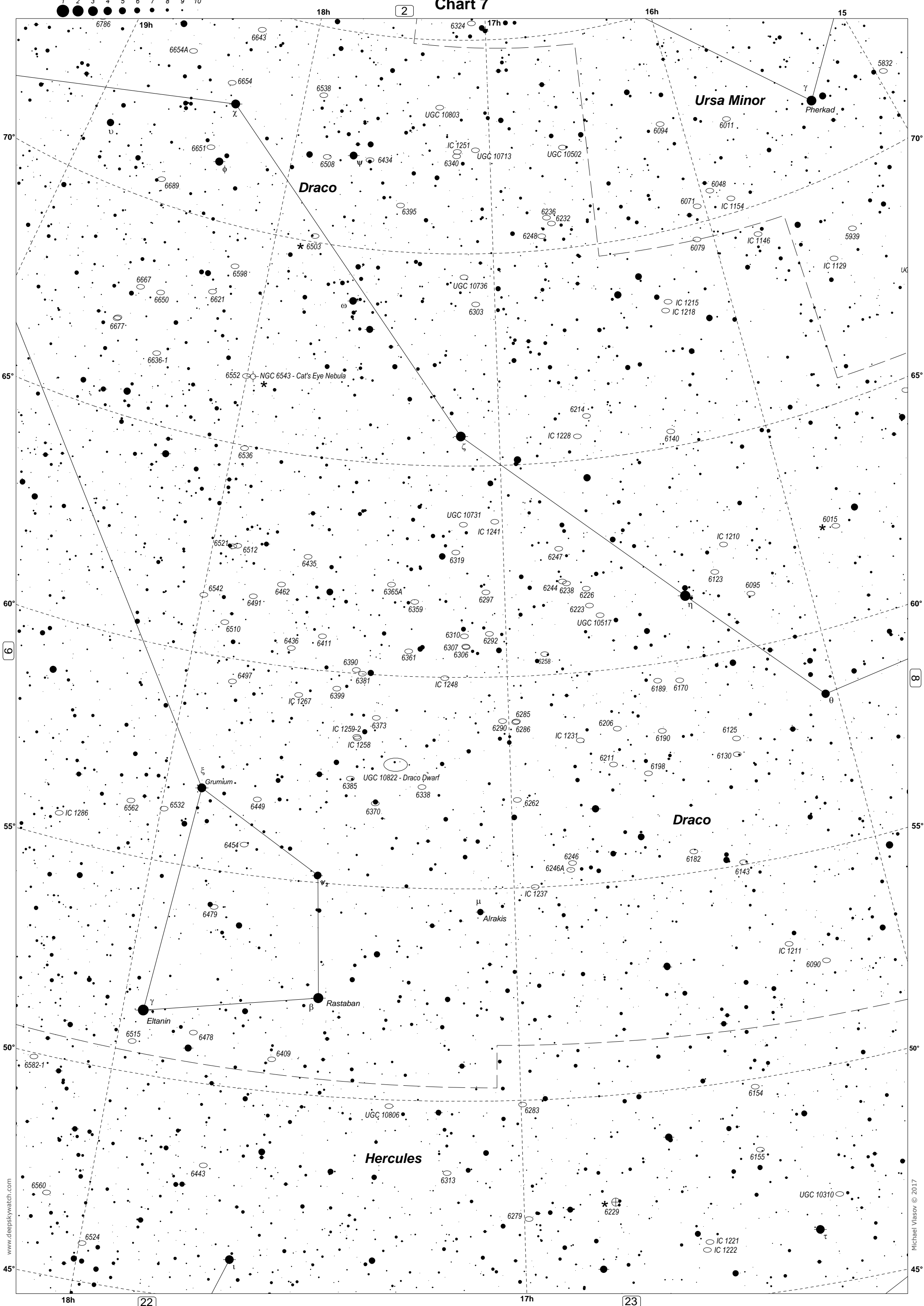


Chart 8

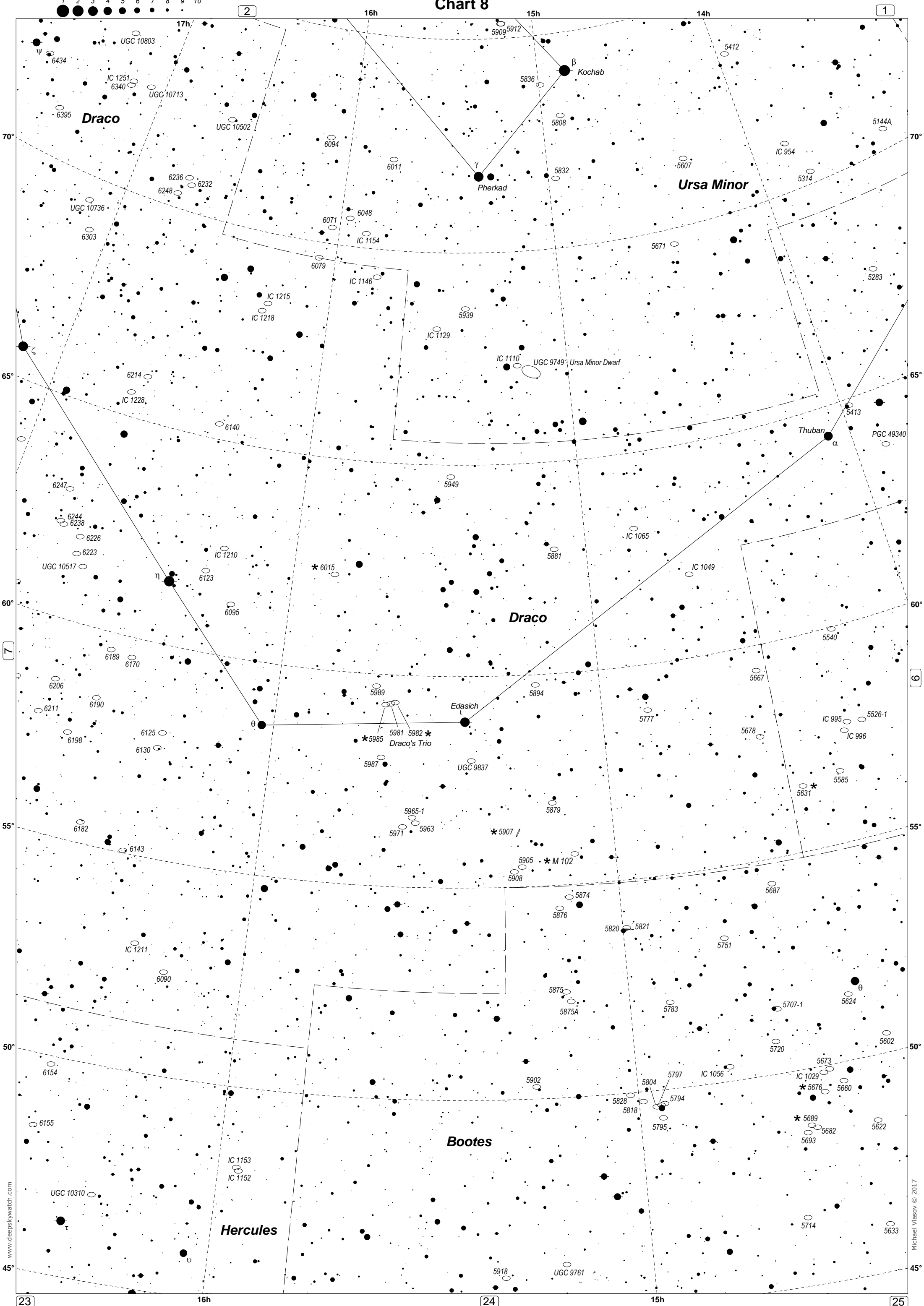
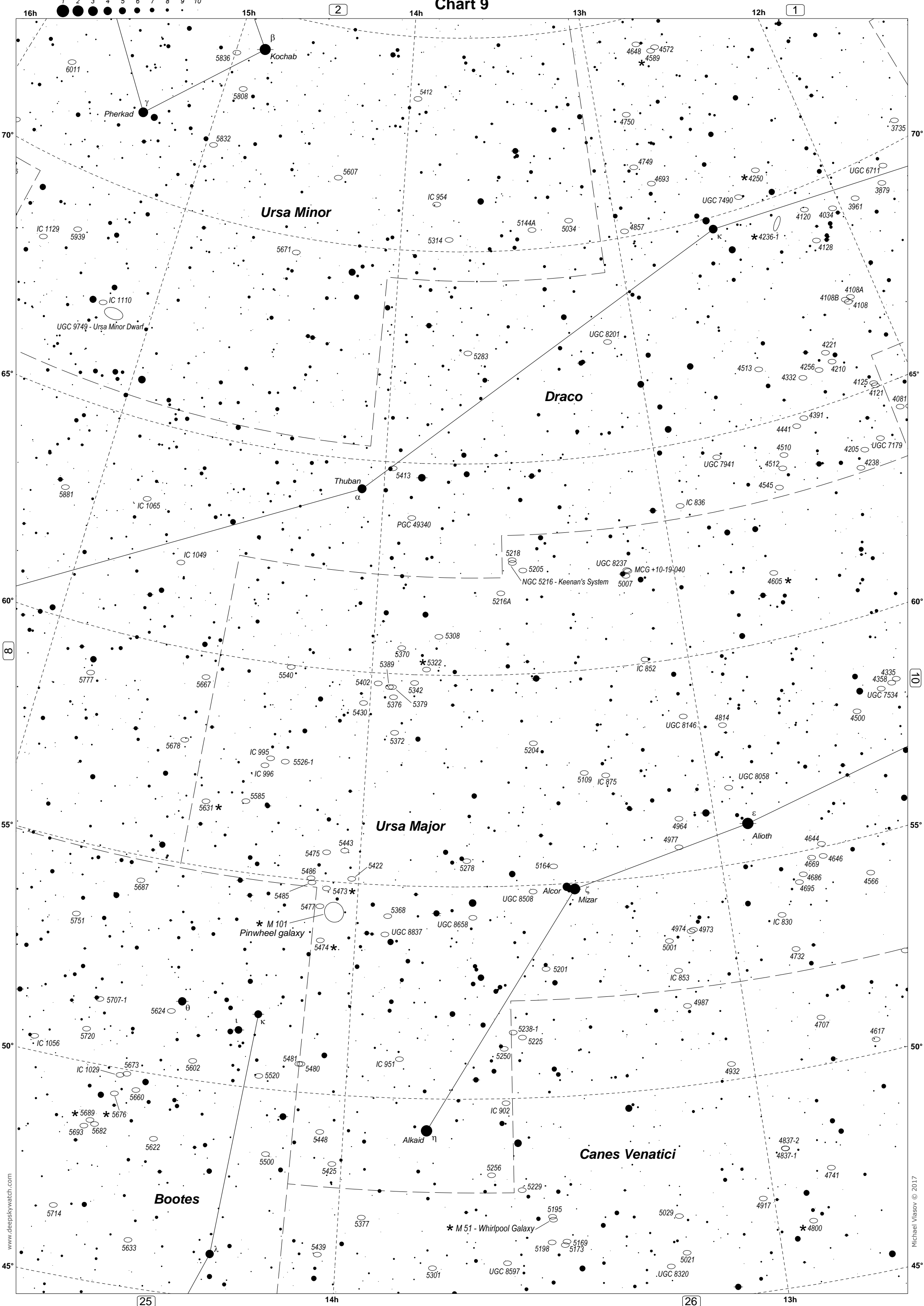
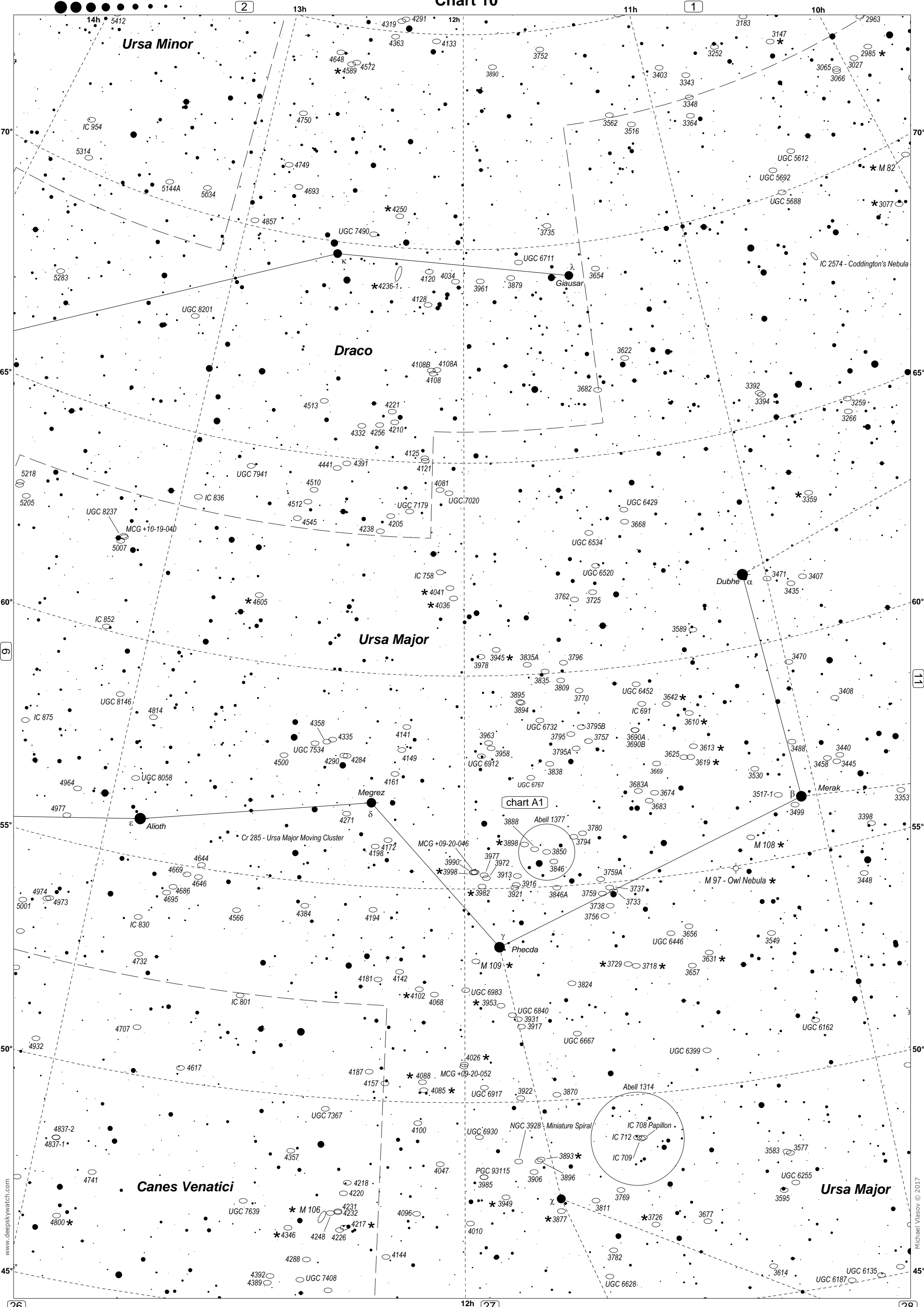


Chart 9





# Chart 11

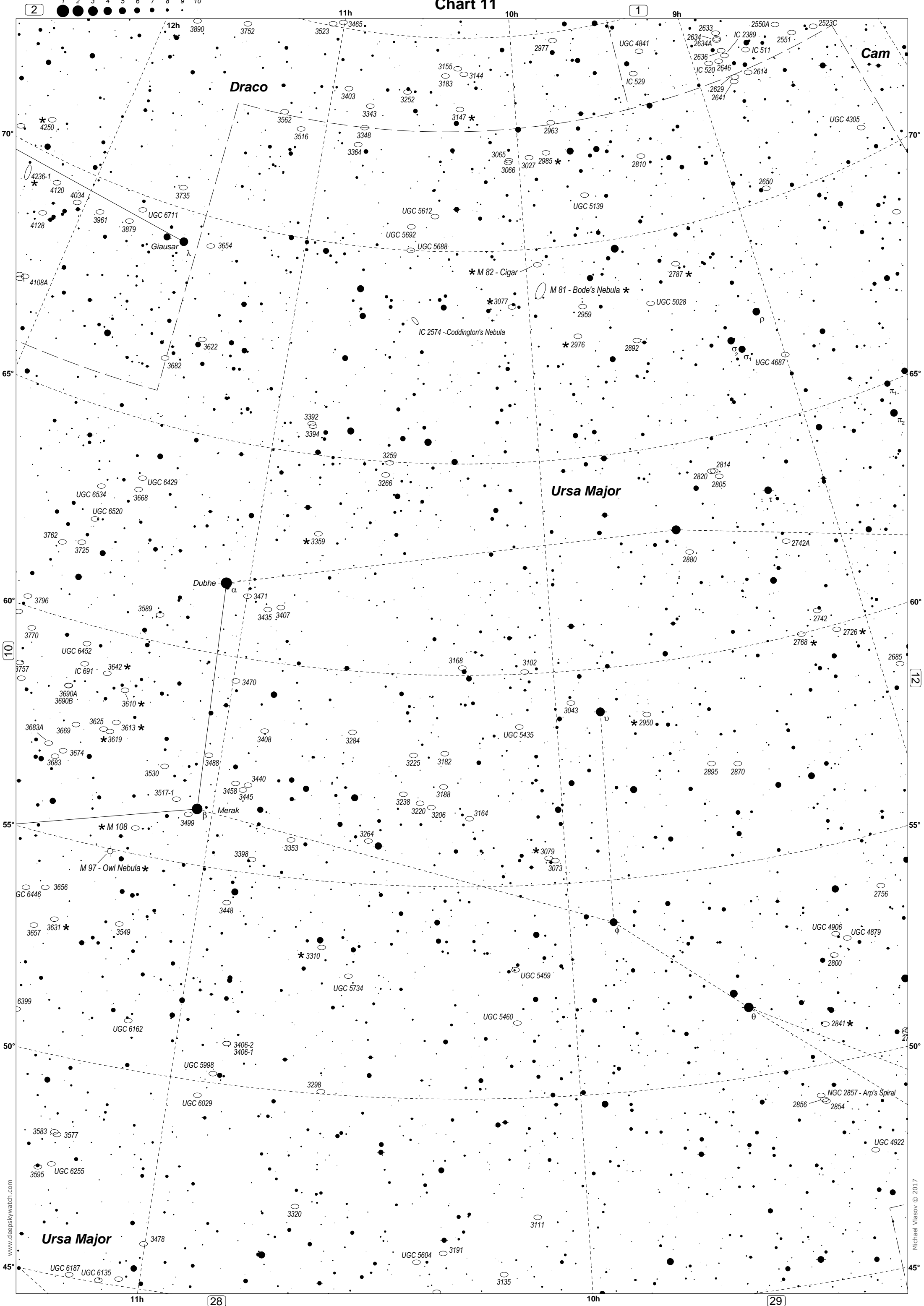


Chart 12

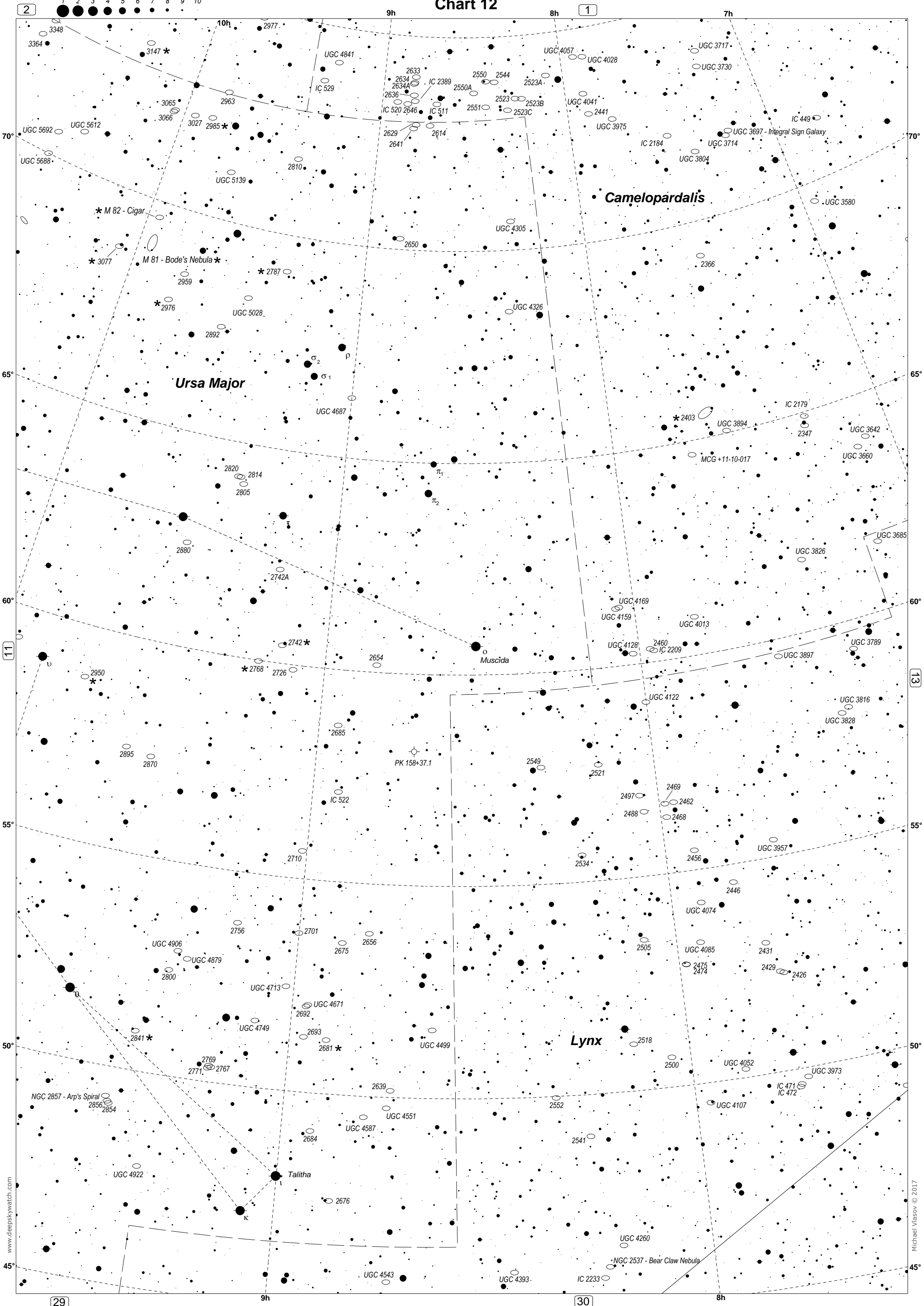


Chart 13

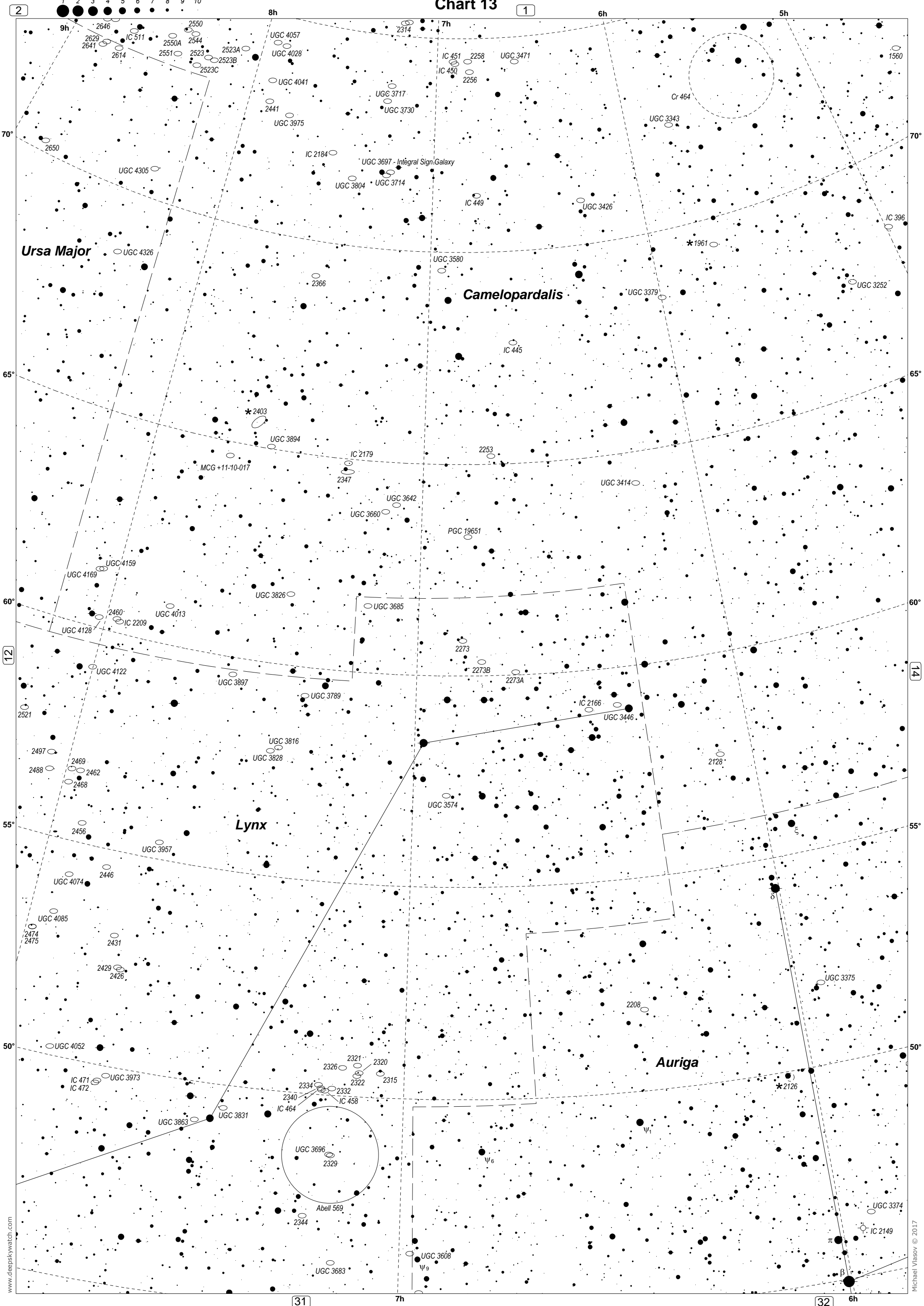
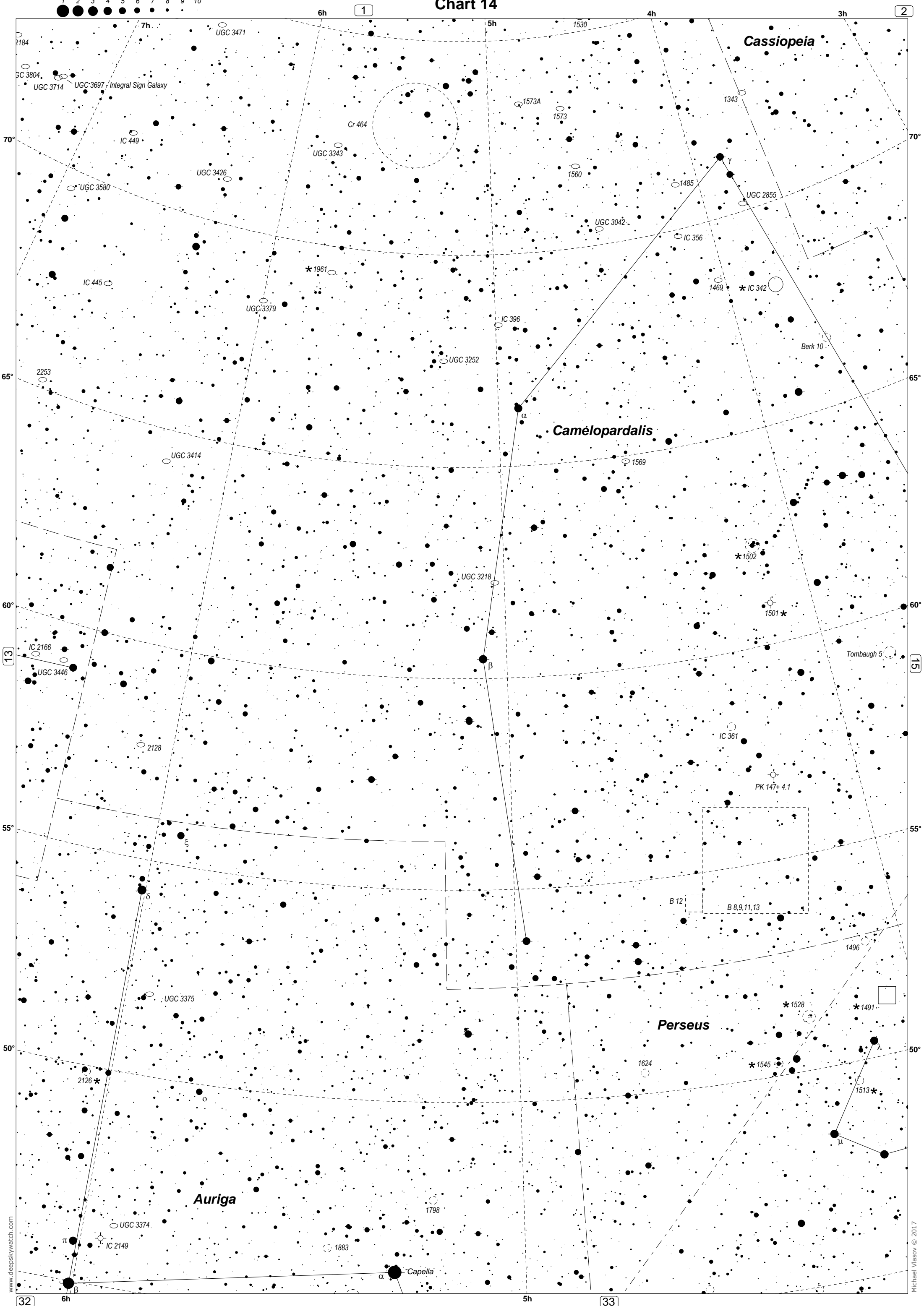




Chart 14



Cassiopeia

Camelopardalis

Perseus

Auriga

Capella

1 2 3 4 5 6 7 8 9 10

6h 1

4h

3h 2

70°

70°

65°

65°

60°

60°

55°

55°

50°

50°

32

5h

33

15

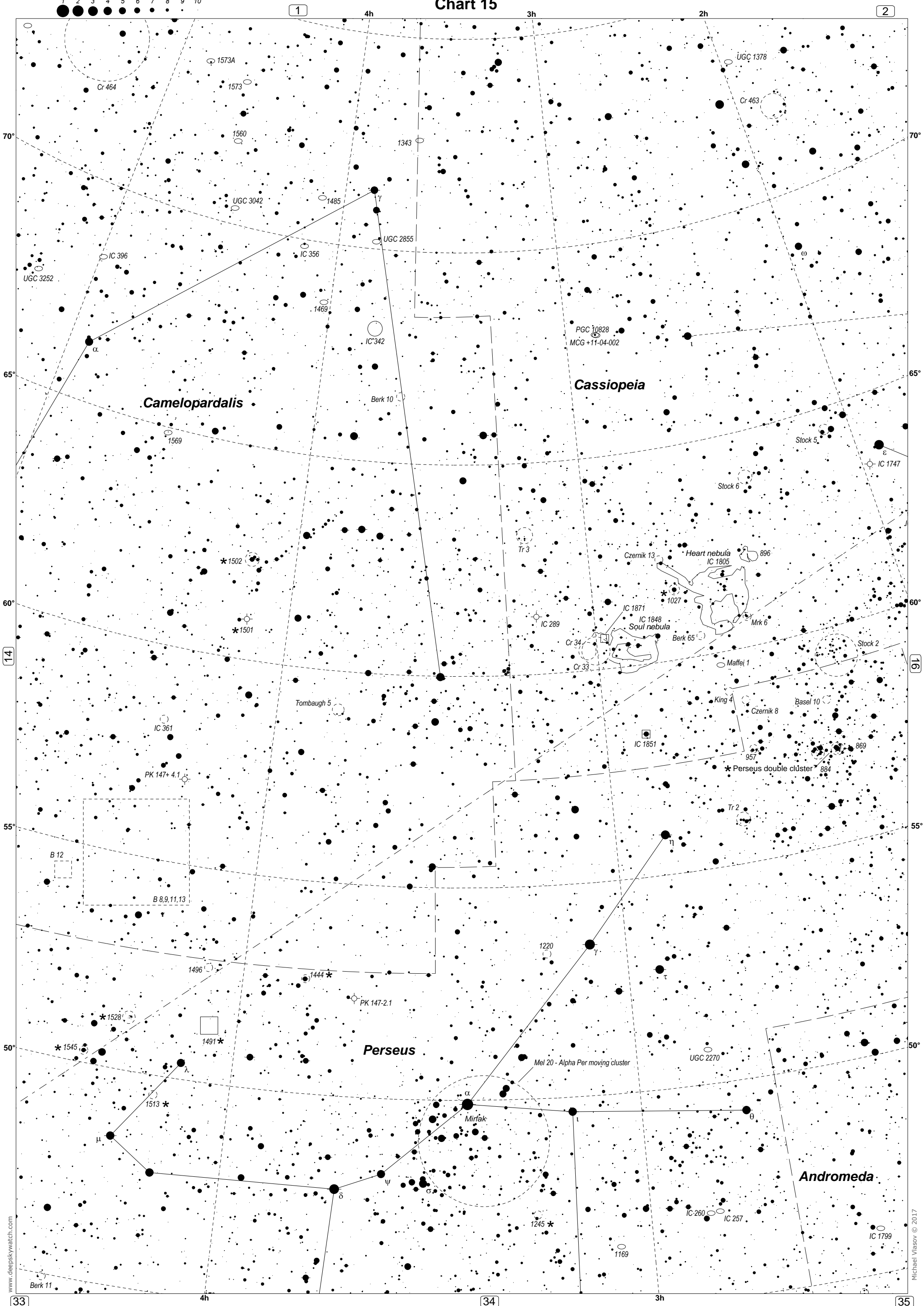
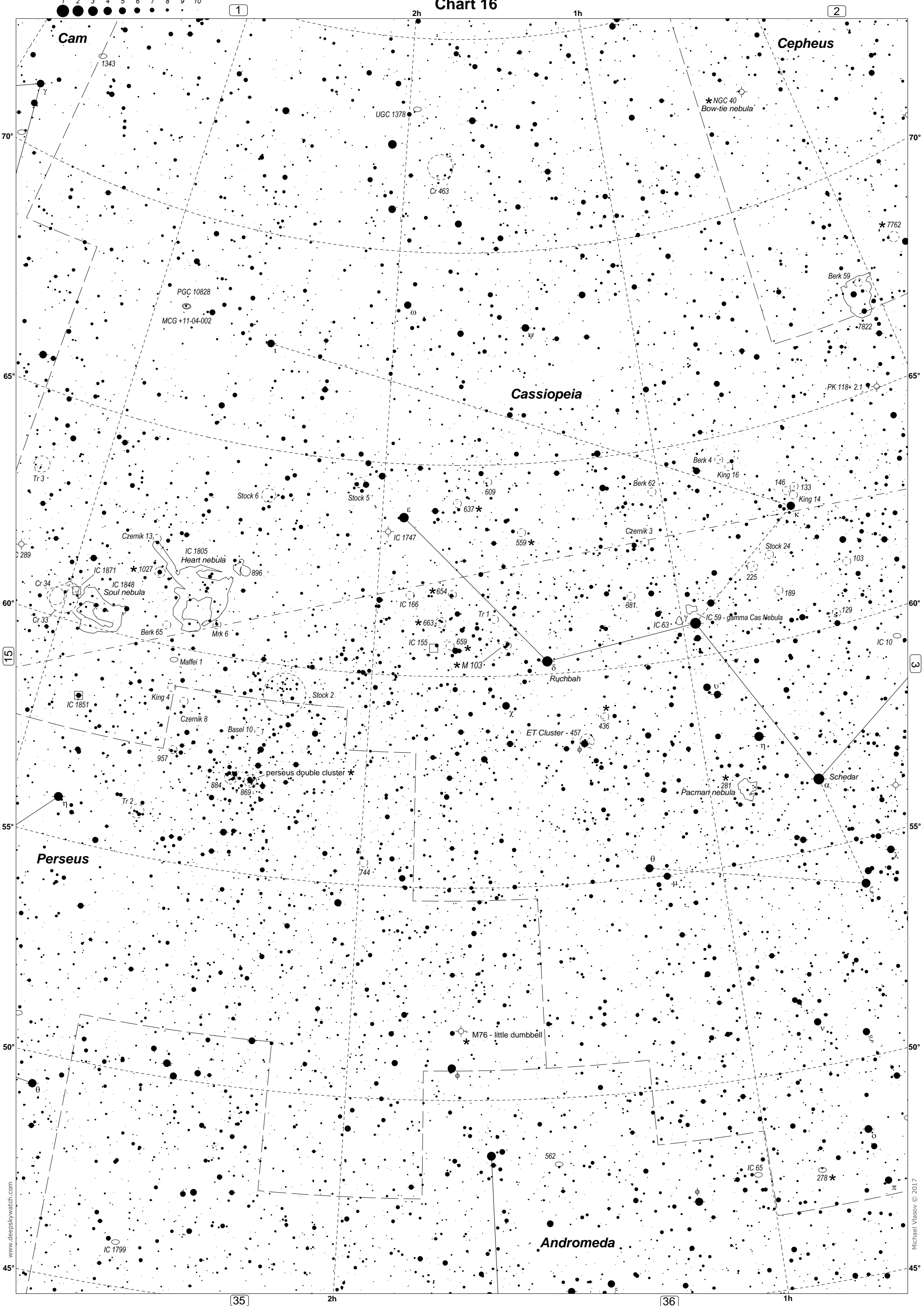


Chart 16



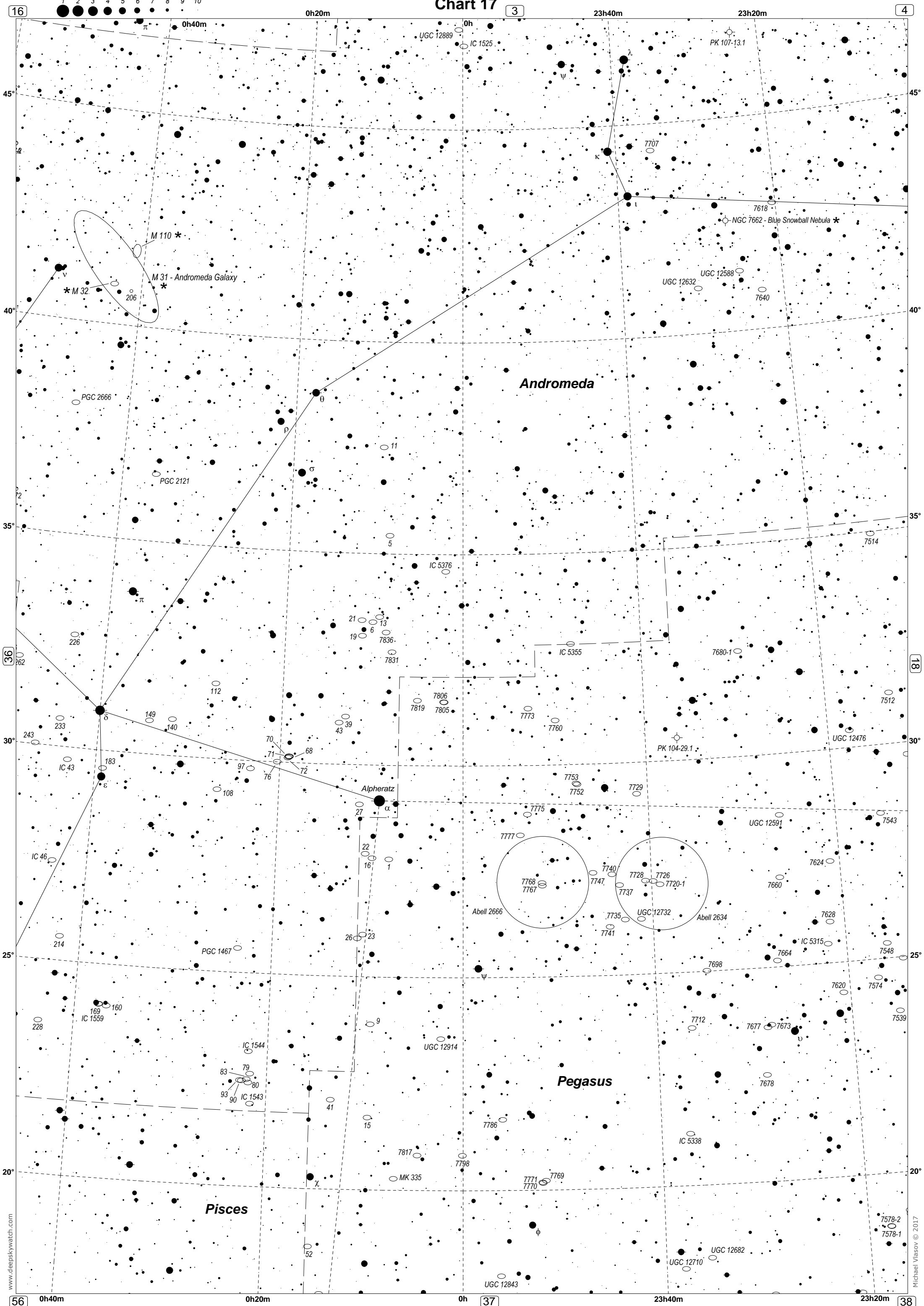
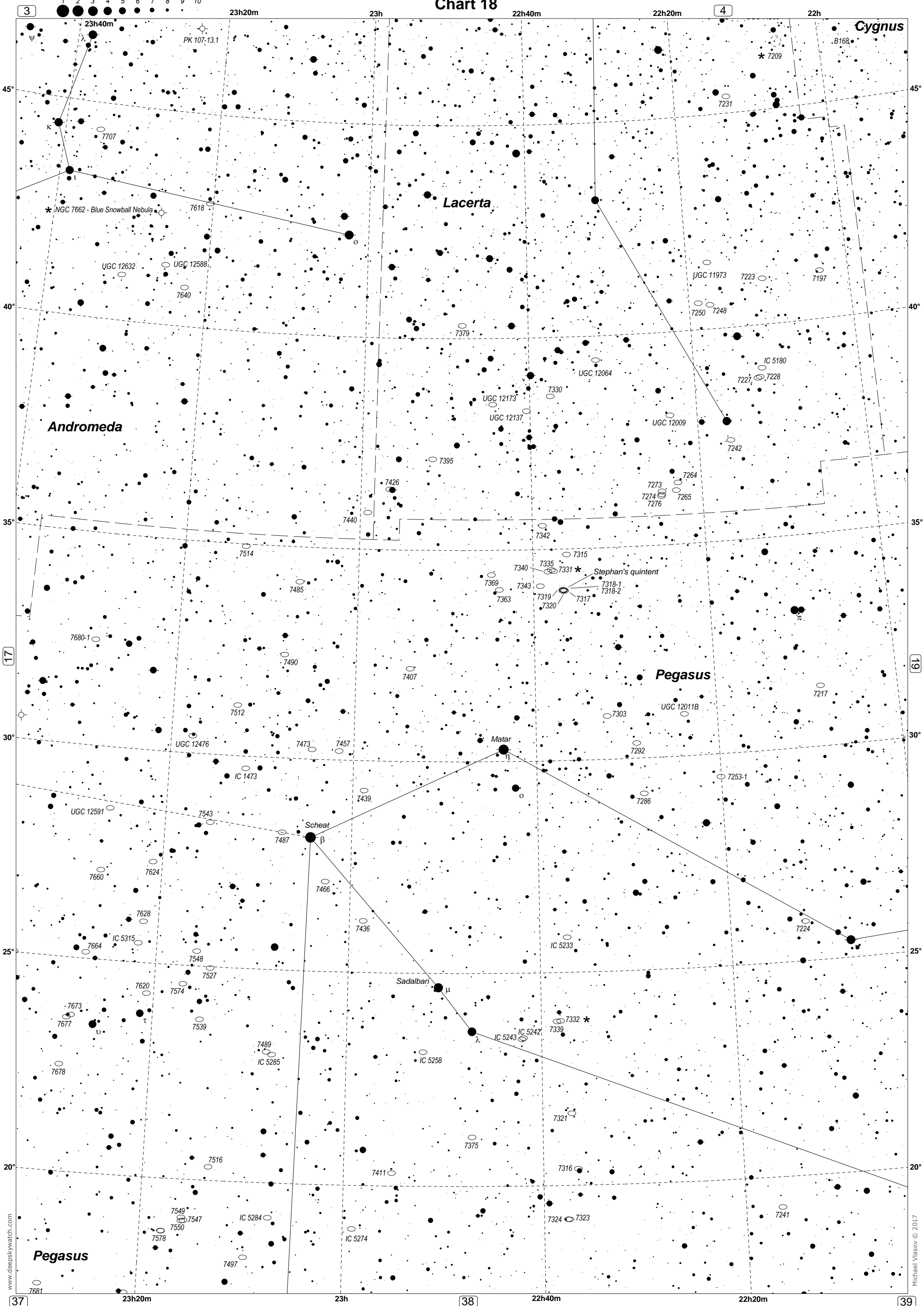


Chart 18



Cygnus

Lacerta

Andromeda

Pegasus

Pegasus

3

4

17

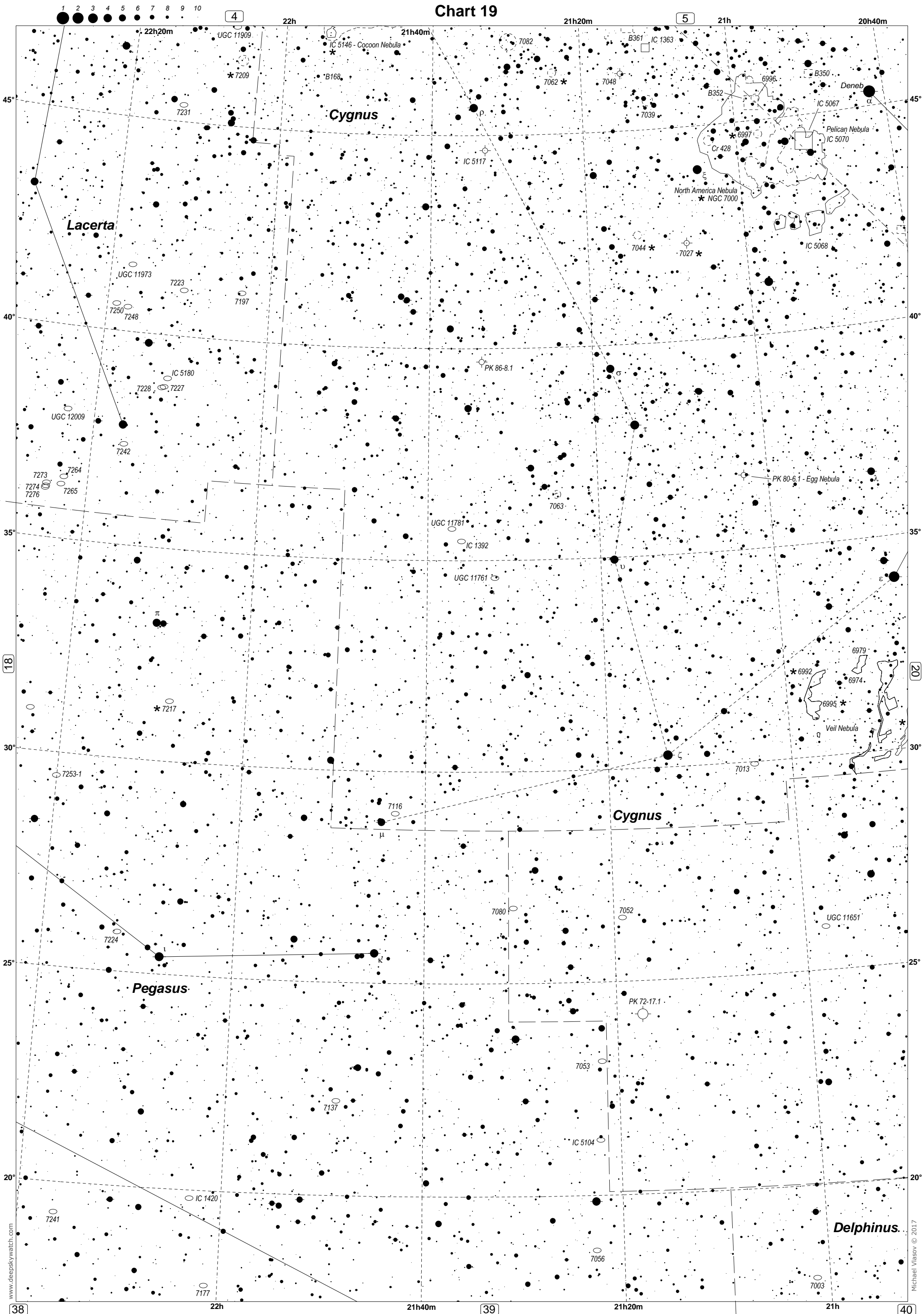
19

37

38

39

Chart 19



This chart is limited to 9.8m stars to prevent clutter

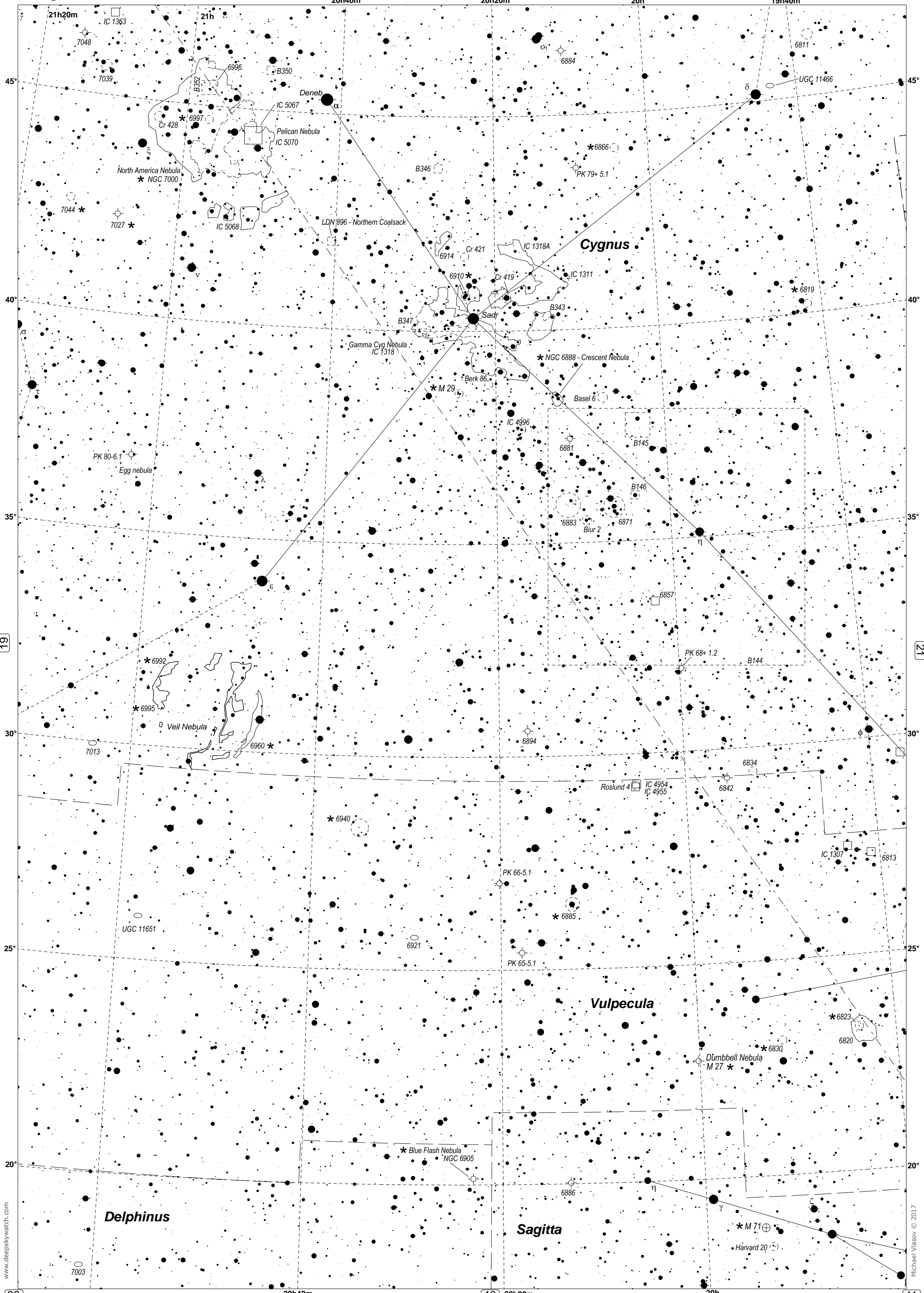
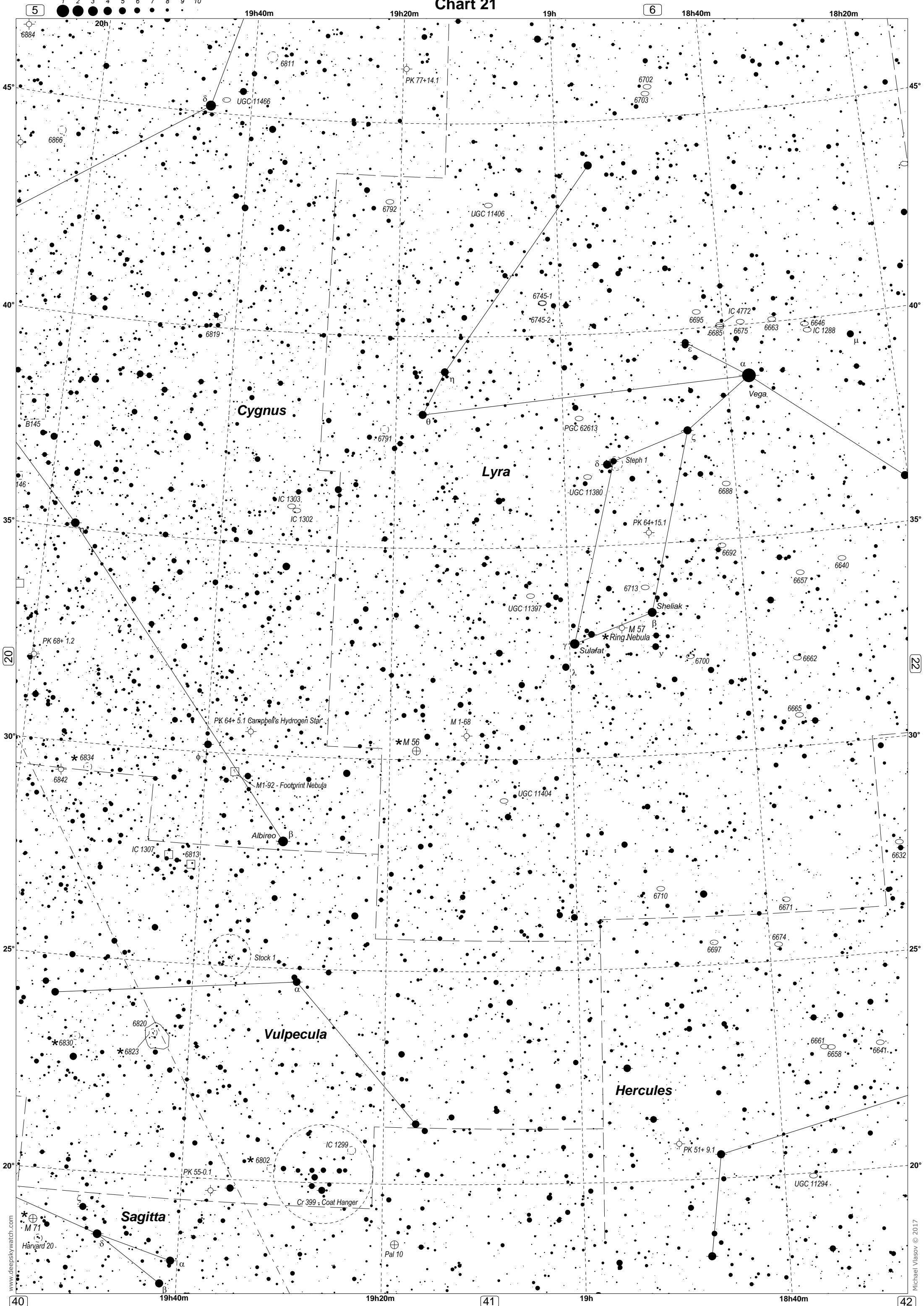
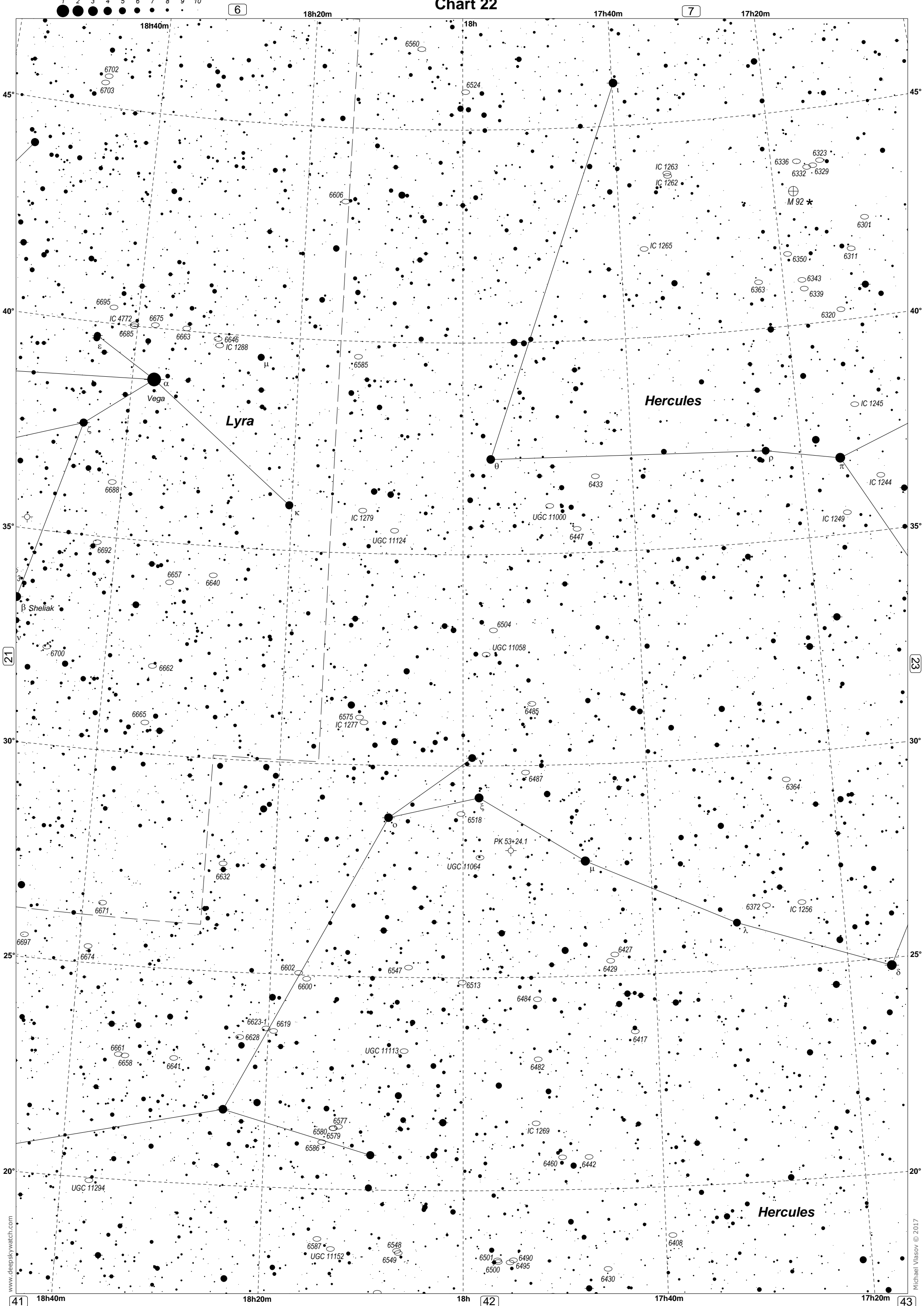


Chart 21





# Chart 22



# Chart 23

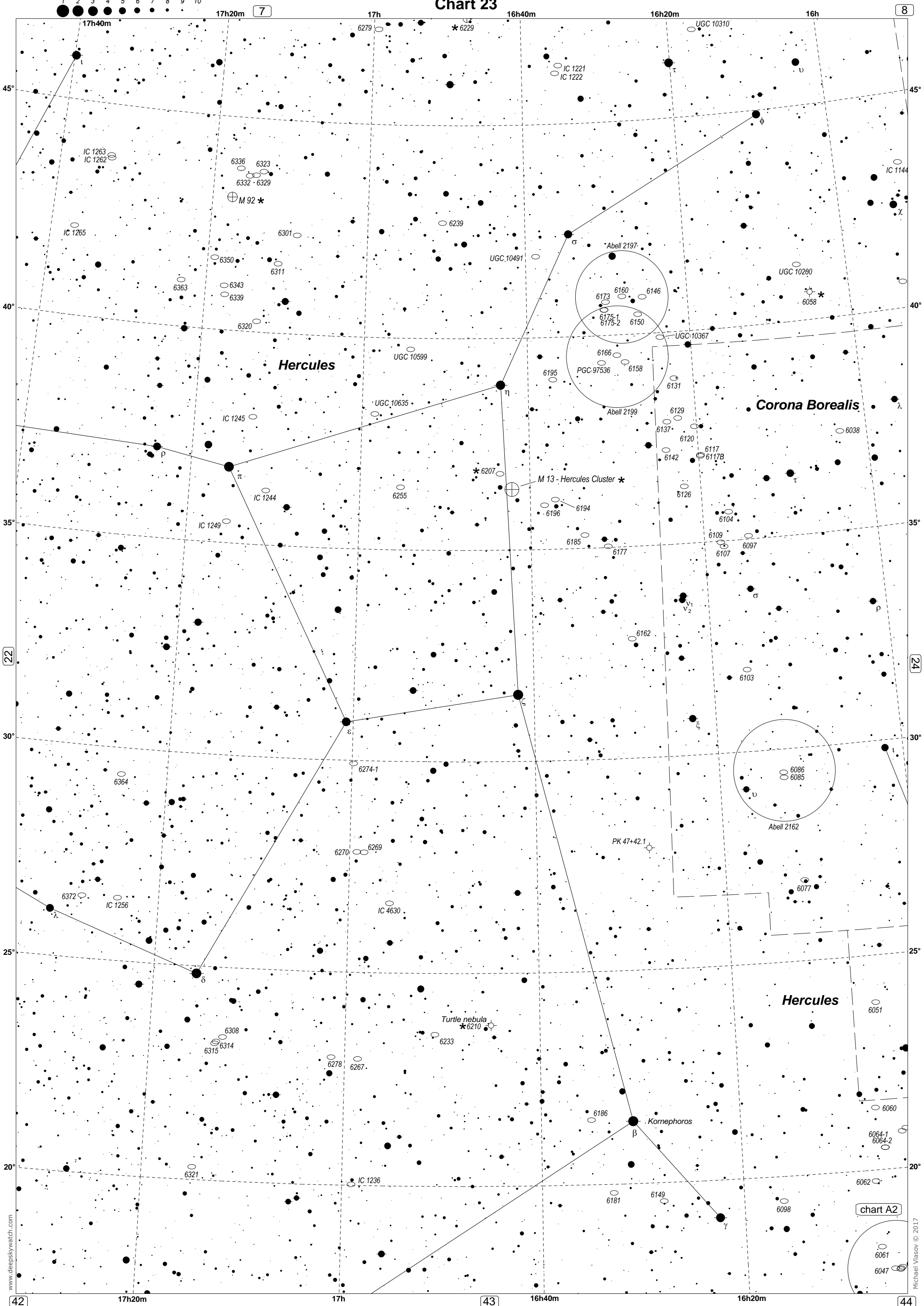


chart A2

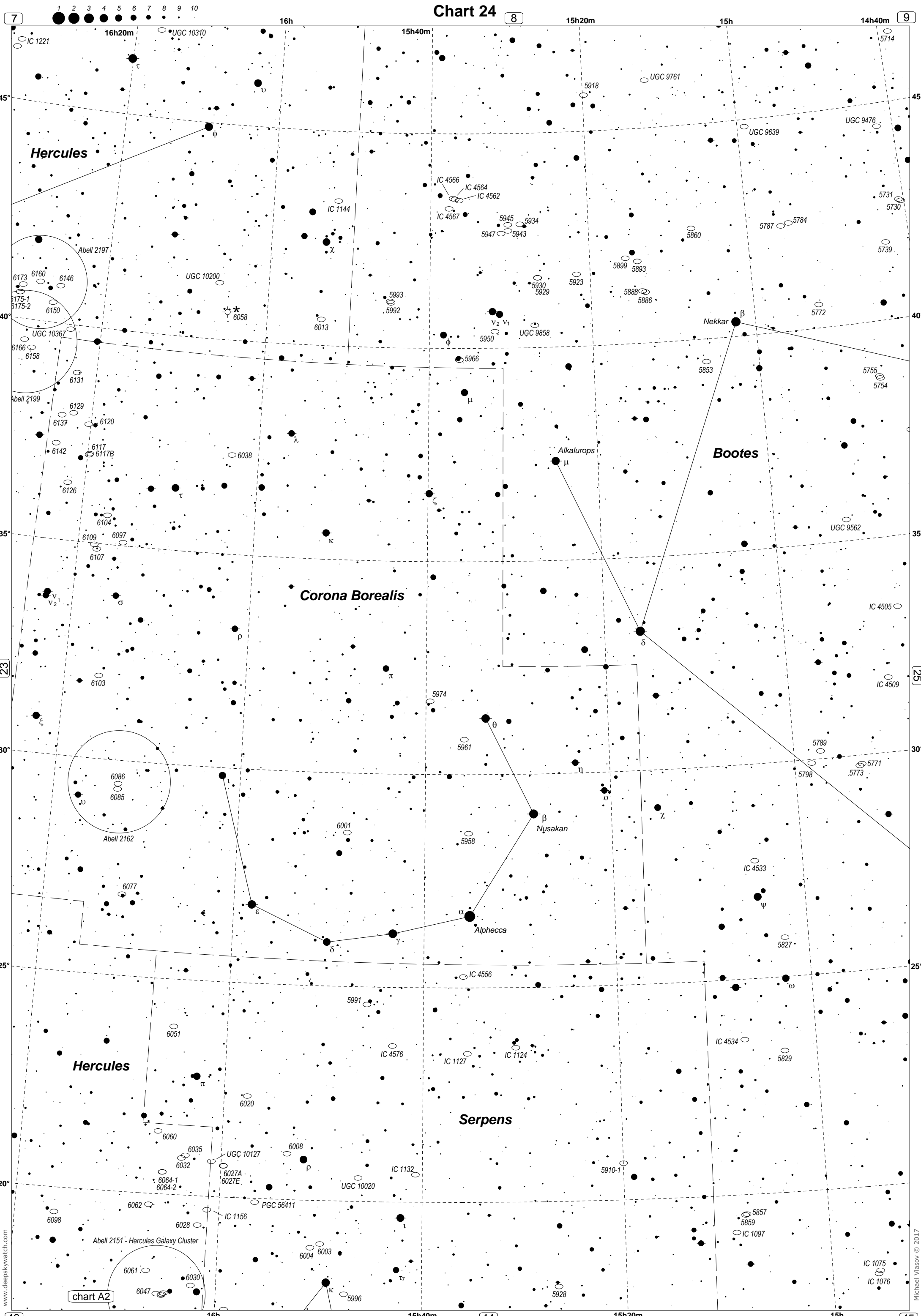
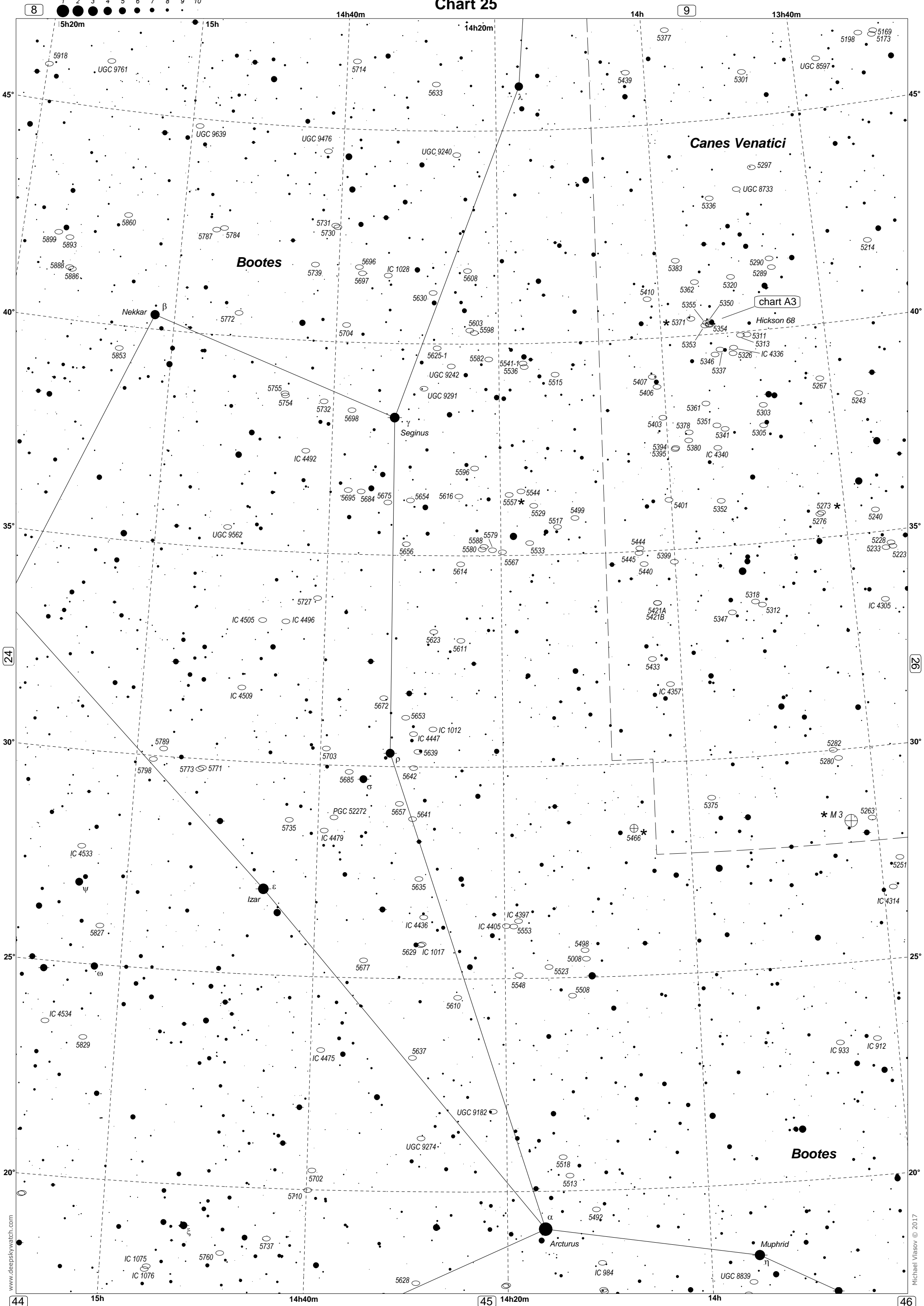
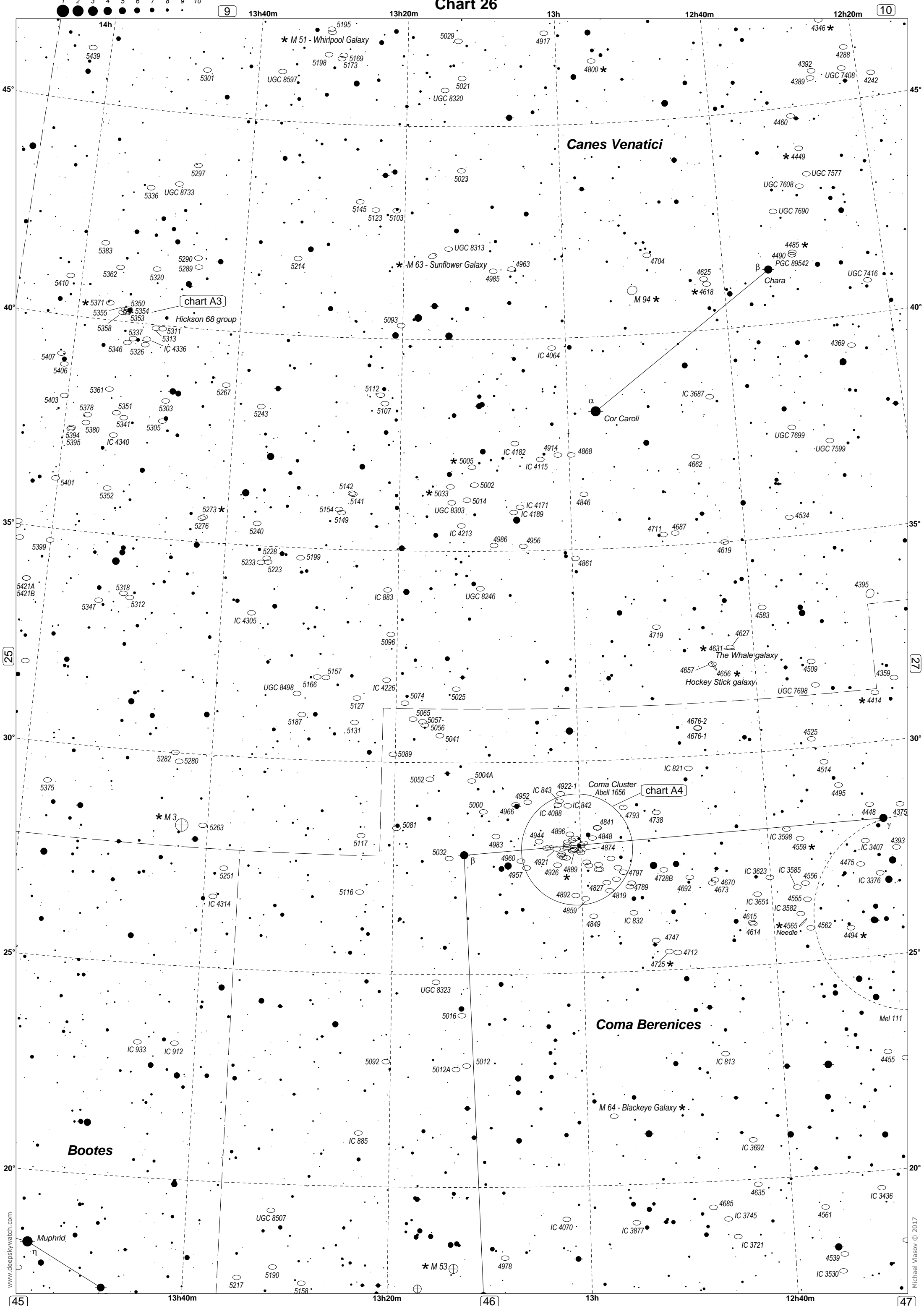


Chart 25

8

9





Canes Venatici

Coma Berenices

Bootes

chart A3

chart A4

Coma Cluster  
Abell 1656

\* M 51 - Whirlpool Galaxy

\* M 63 - Sunflower Galaxy

Hickson 68 group

Cor Caroli

\* M 3

M 64 - Blackeye Galaxy \*

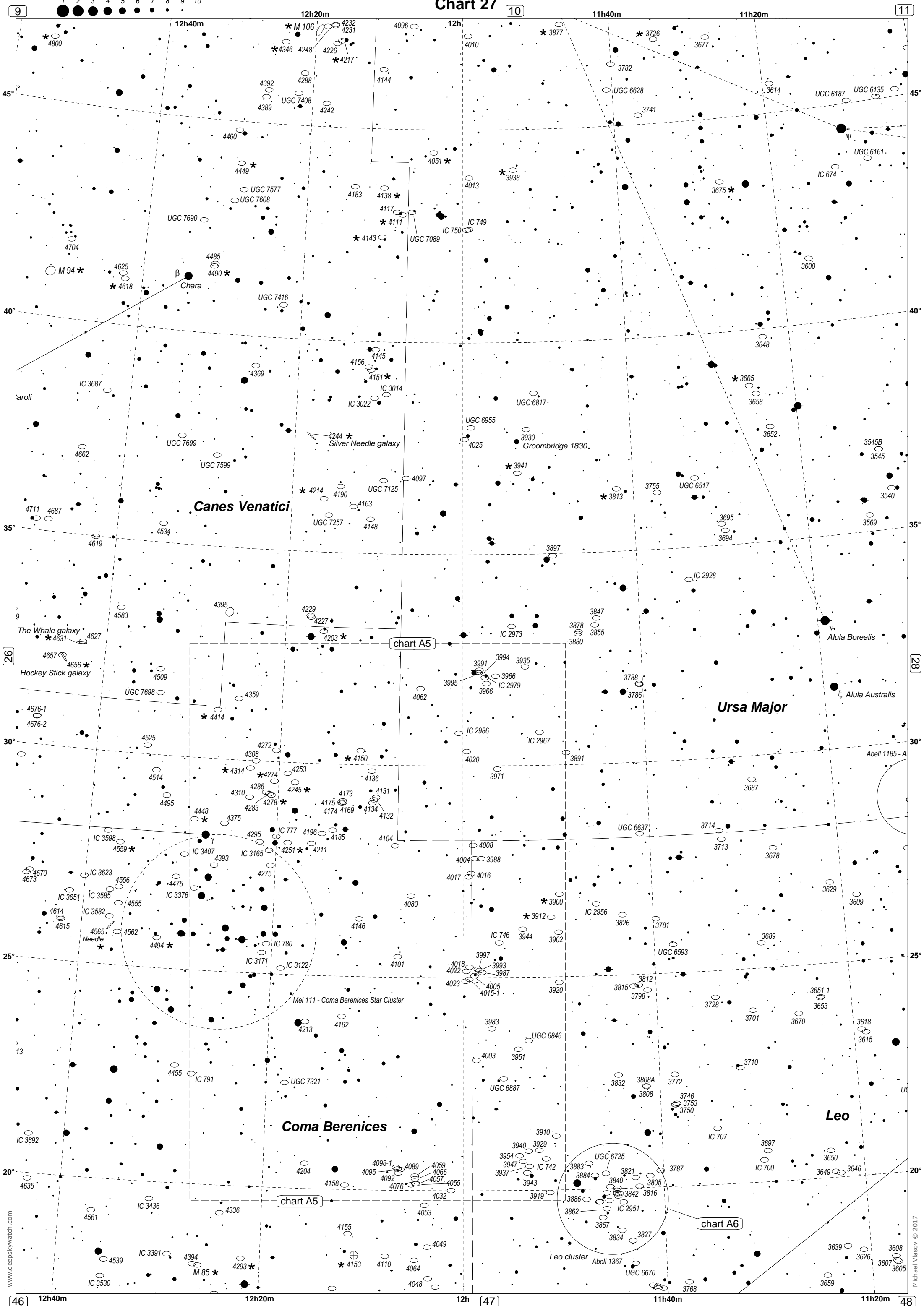


Chart 27

Canes Venatici

Ursa Major

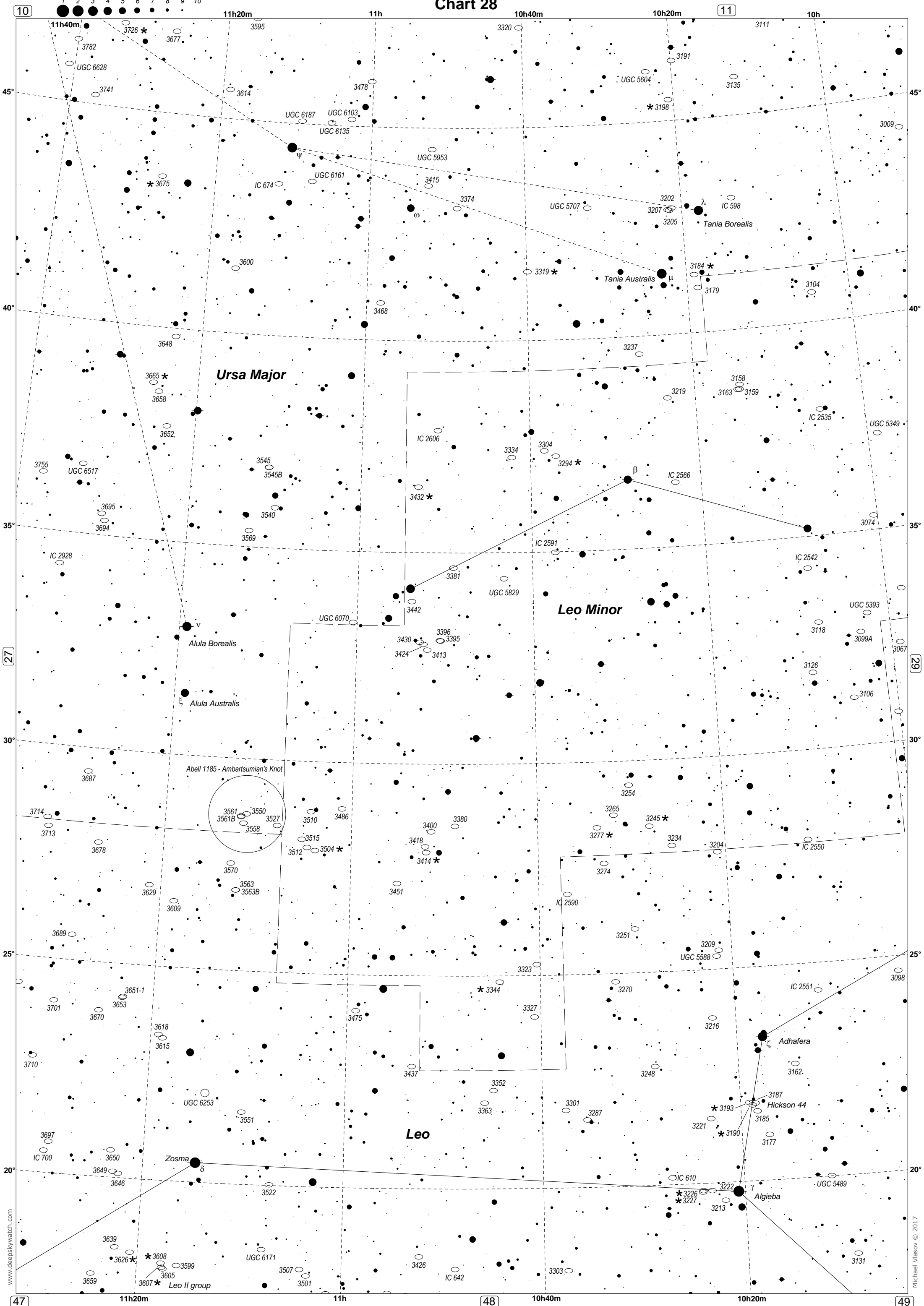
Coma Berenices

Leo

chart A5

chart A6

Chart 28



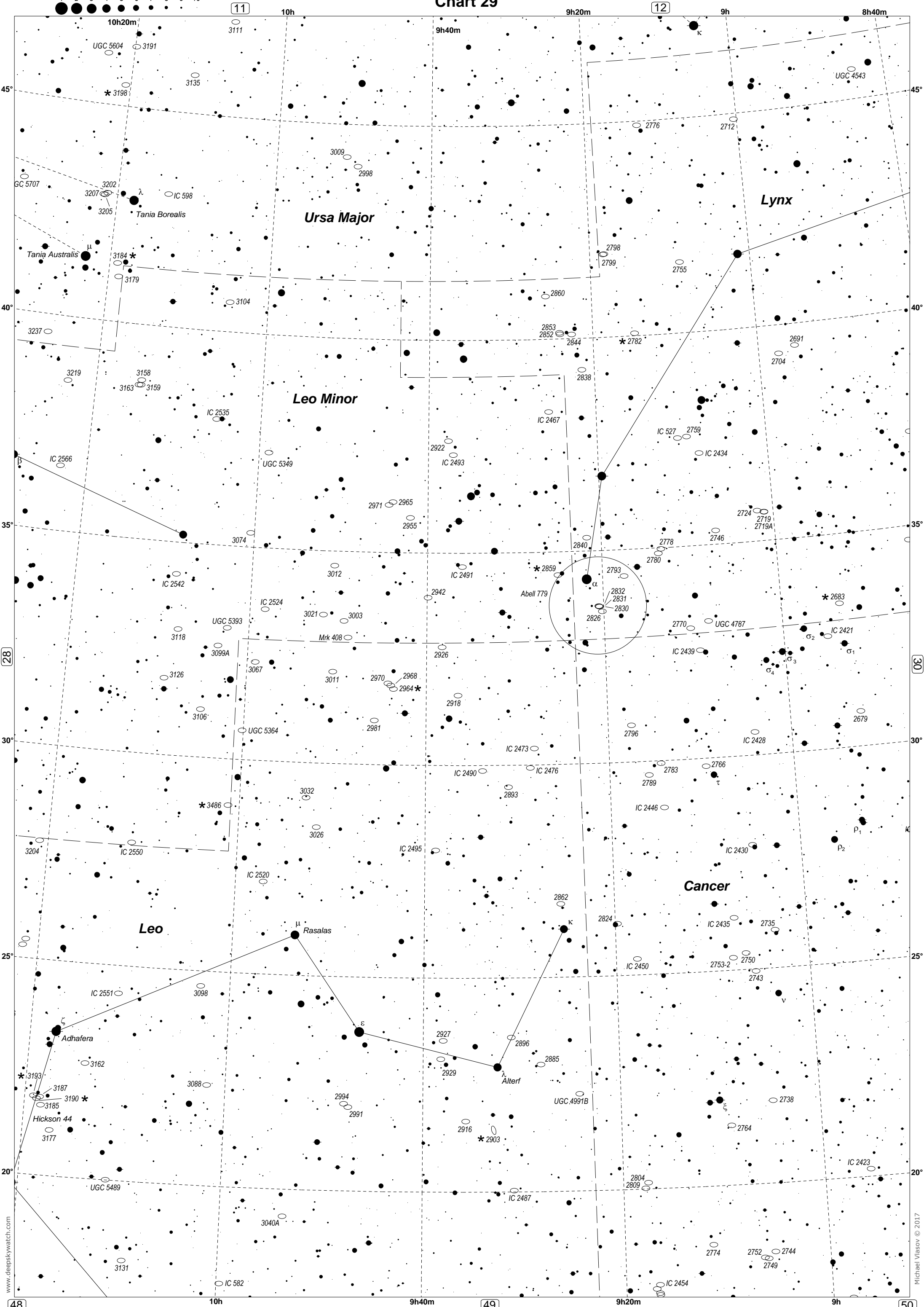




Chart 30

12

13

Ursa Major

Lynx

Cancer

Gemini

Asellus Borealis

$\beta$  Pollux

M 44 - Beehive Cluster \*

Asellus Australis

UGC 4260

NGC 2537 - Bear Claw Nebula

IC 2233

UGC 4543

UGC 4393

2776

2712

2755

\* 2782

2691

2704

IC 527

2759

IC 2434

2638

2778

2746

2724

2719

2719A

2780

2649

2770

UGC 4787

UFO galaxy

\* 2683

IC 2439

IC 2428

2679

2766

UGC 4559

2604

2619

2608

IC 2430

IC 2421

IC 2393

2607

IC 2365

$\phi_1$

$\phi_2$

$\chi$

IC 2217

IC 2219

2492

IC 486

UGC 3995

IC-2208

2449

IC 2435

2753-2

2750

2743

2738

2735

2738

IC 2423

2752

2744

2749

2673

2672

2667

IC 2409

IC 2406

IC 2392

IC 2406

2599

2598

2595

IC 2341

IC 2338

2582

2598

2581

IC 2340

2572

UGC 4416

UGC 4375

2577

2565

2557

2563

2562

2560

2558

UGC 4308

IC 2253

2545

2540

2535

$\psi$

2540

2535

$\psi$

2530

IC 492

2540

2535

2535

2535

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# Chart 31

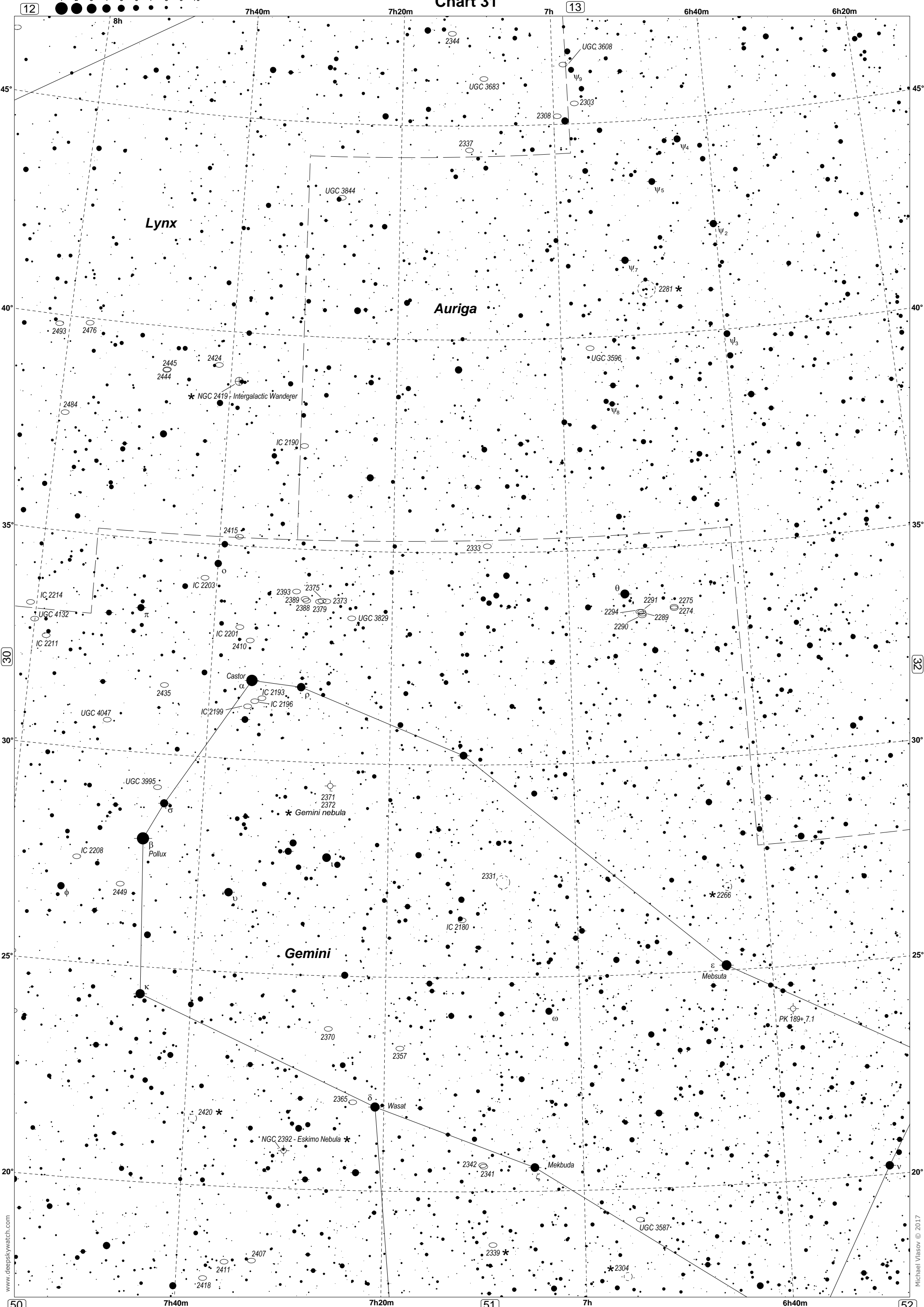


Chart 32

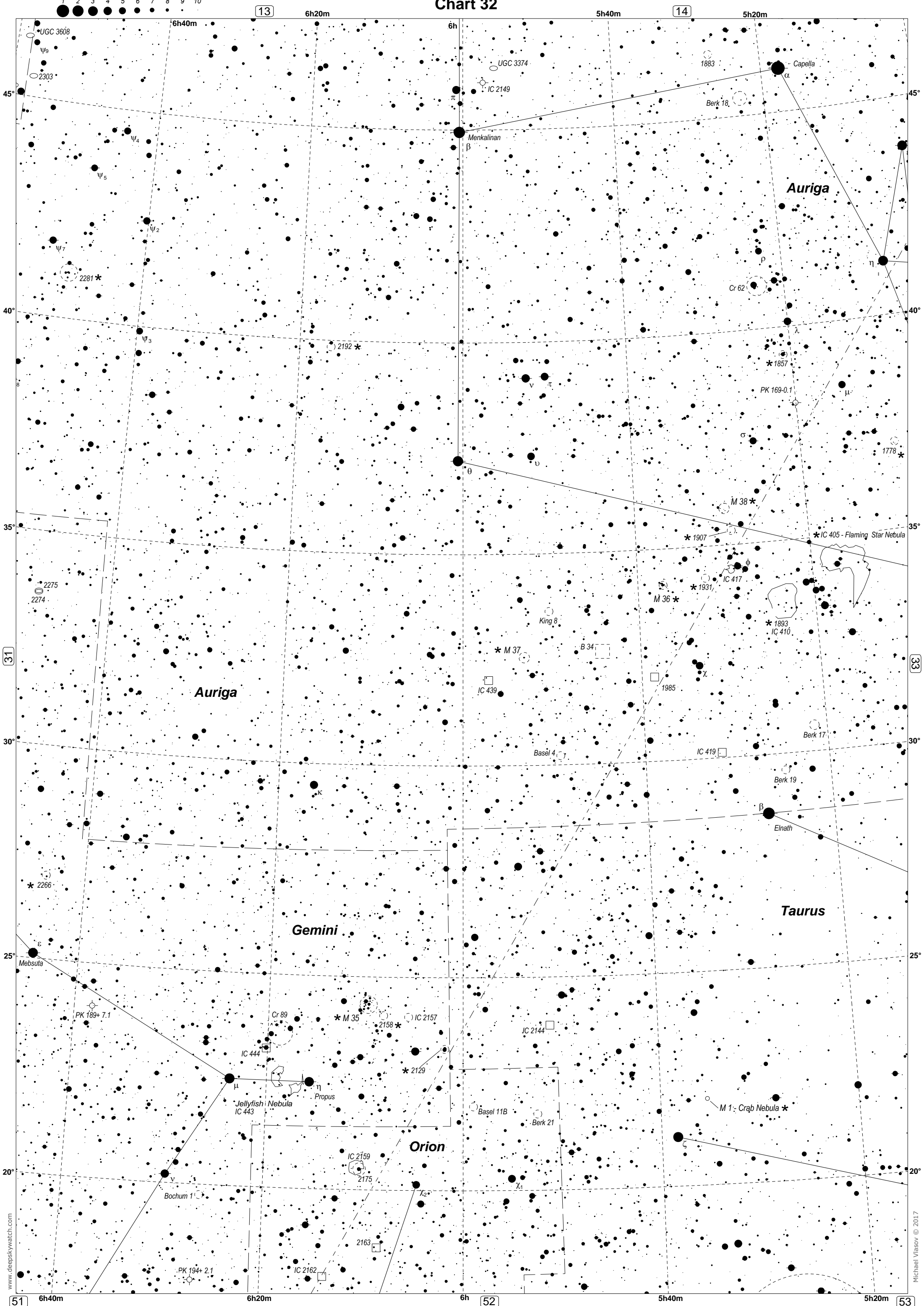
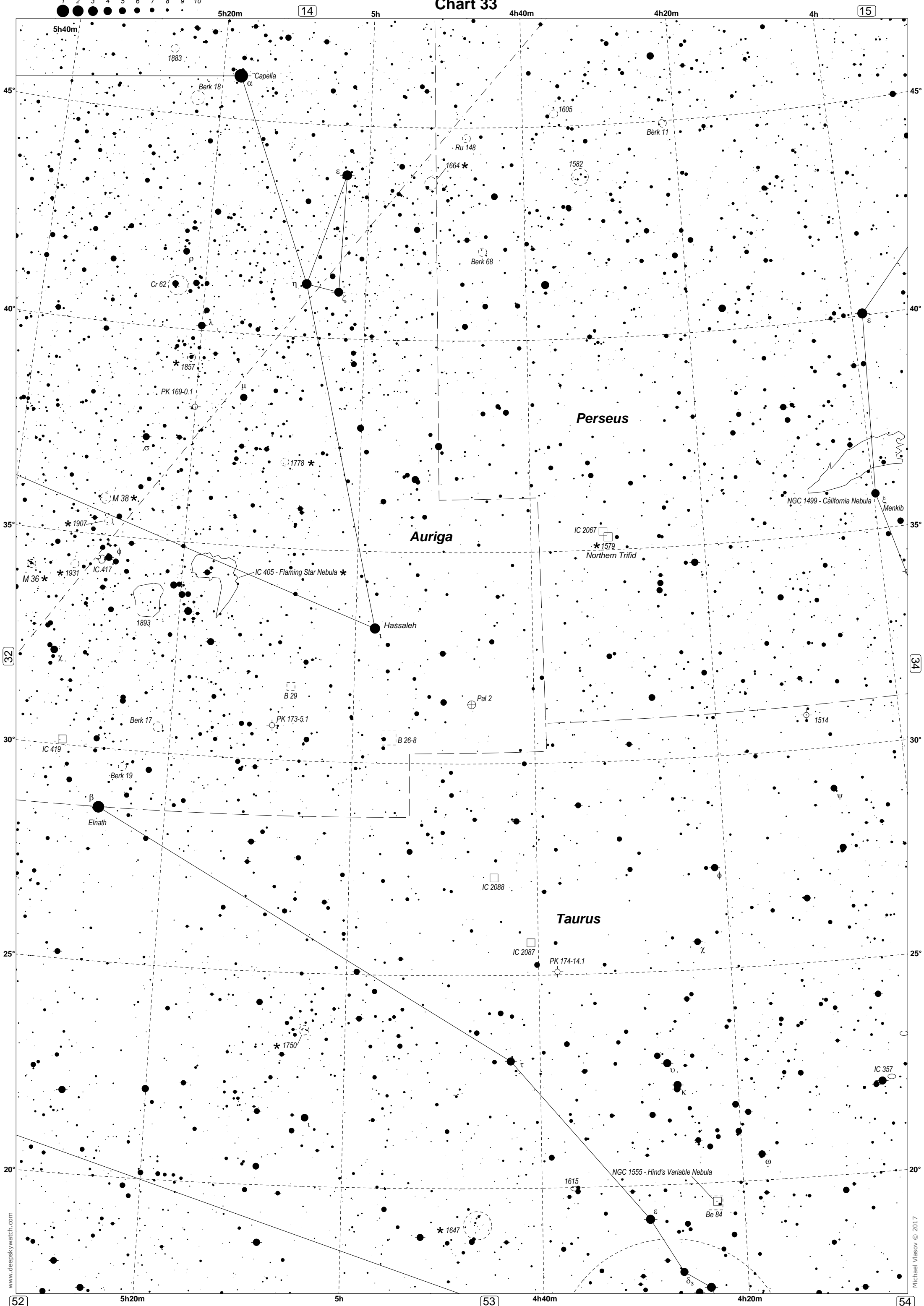
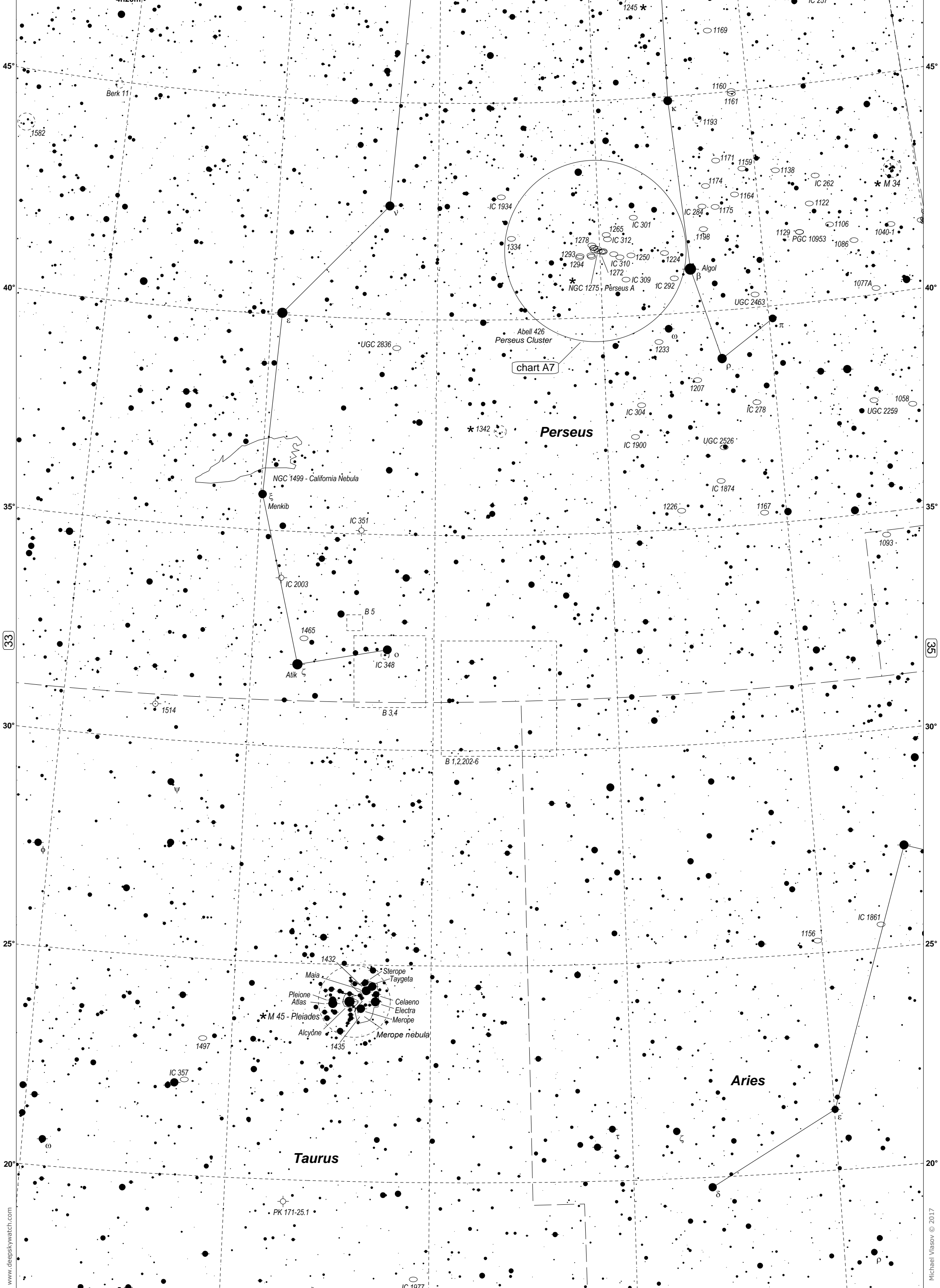
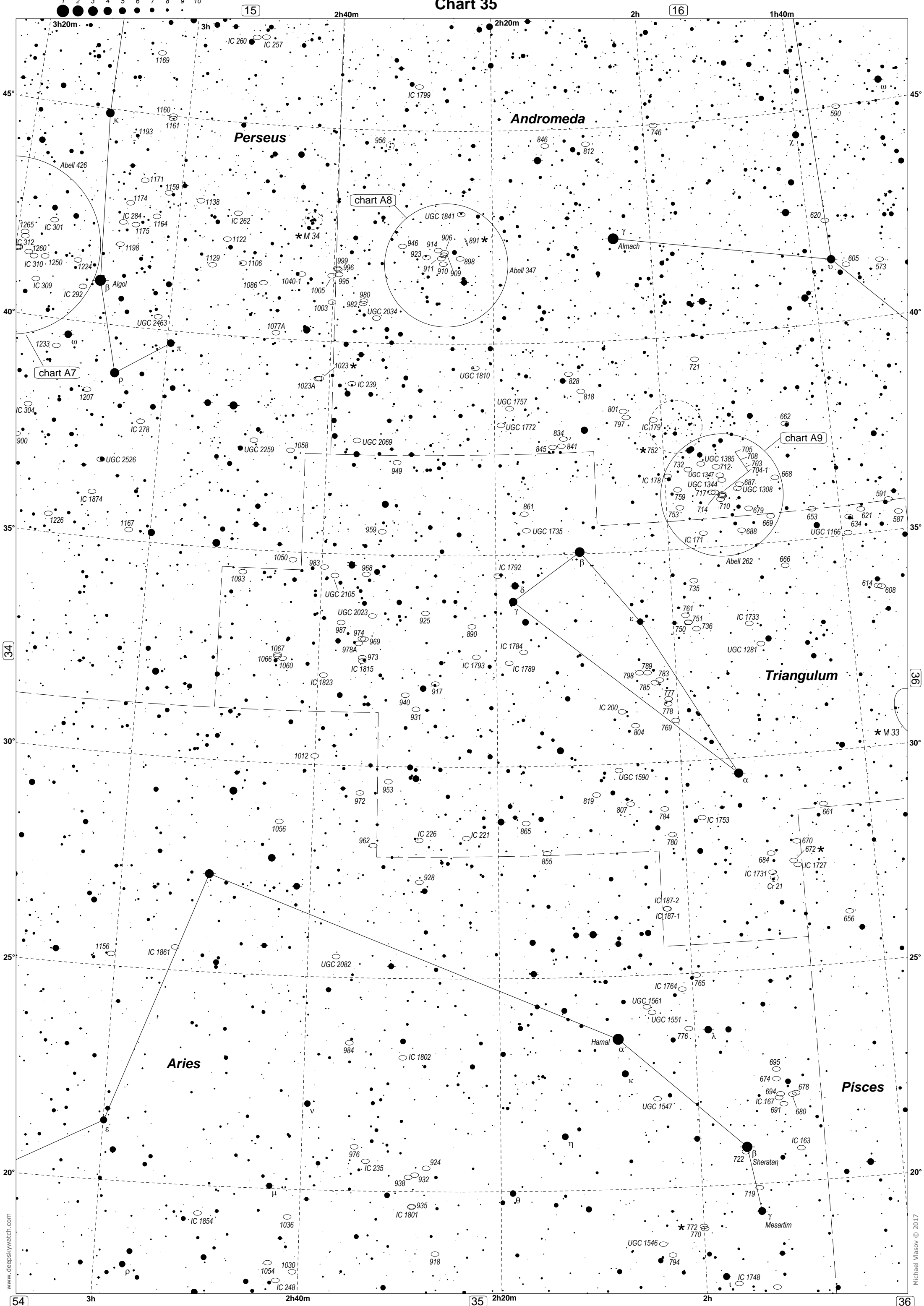


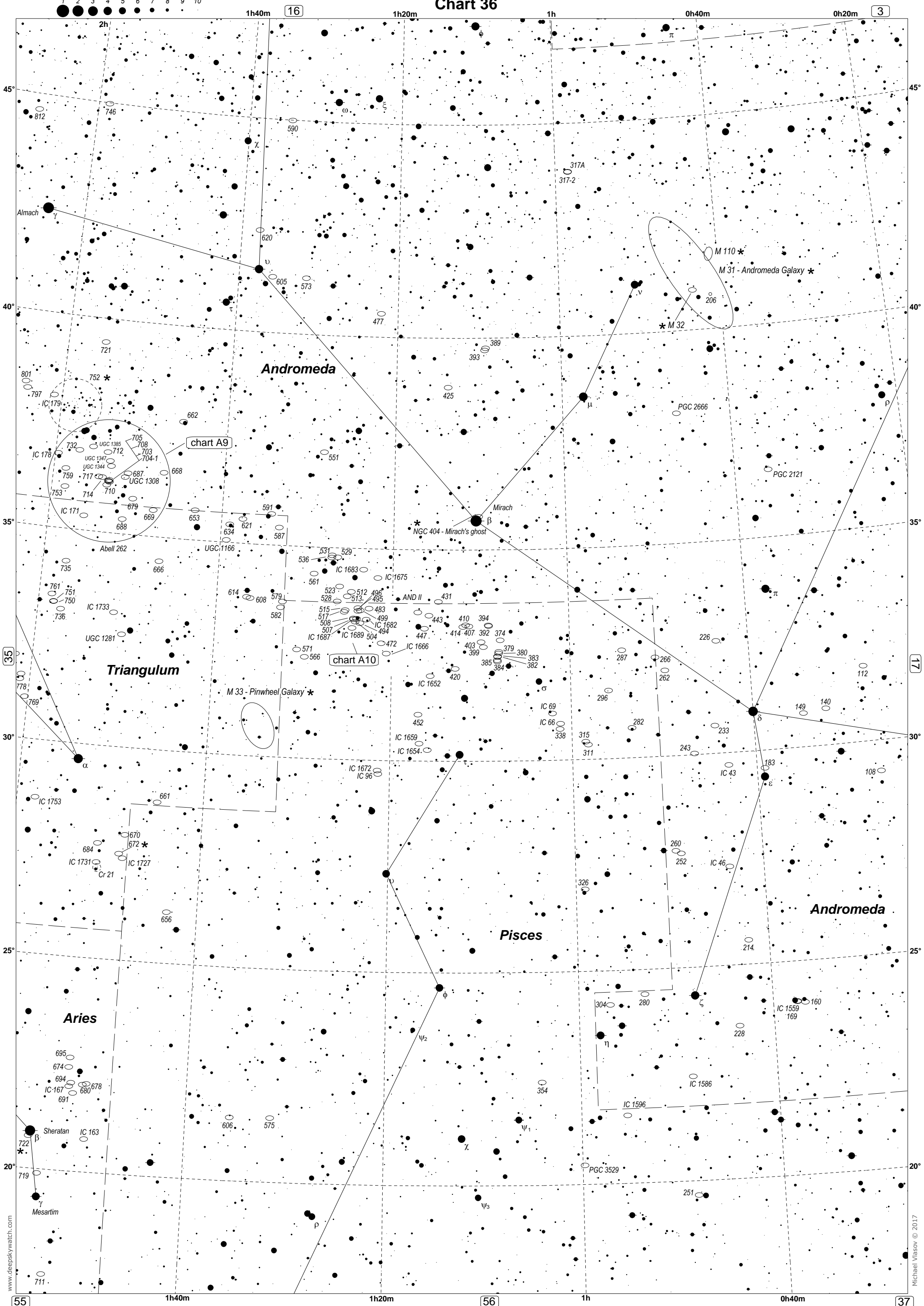
Chart 33





# Chart 35





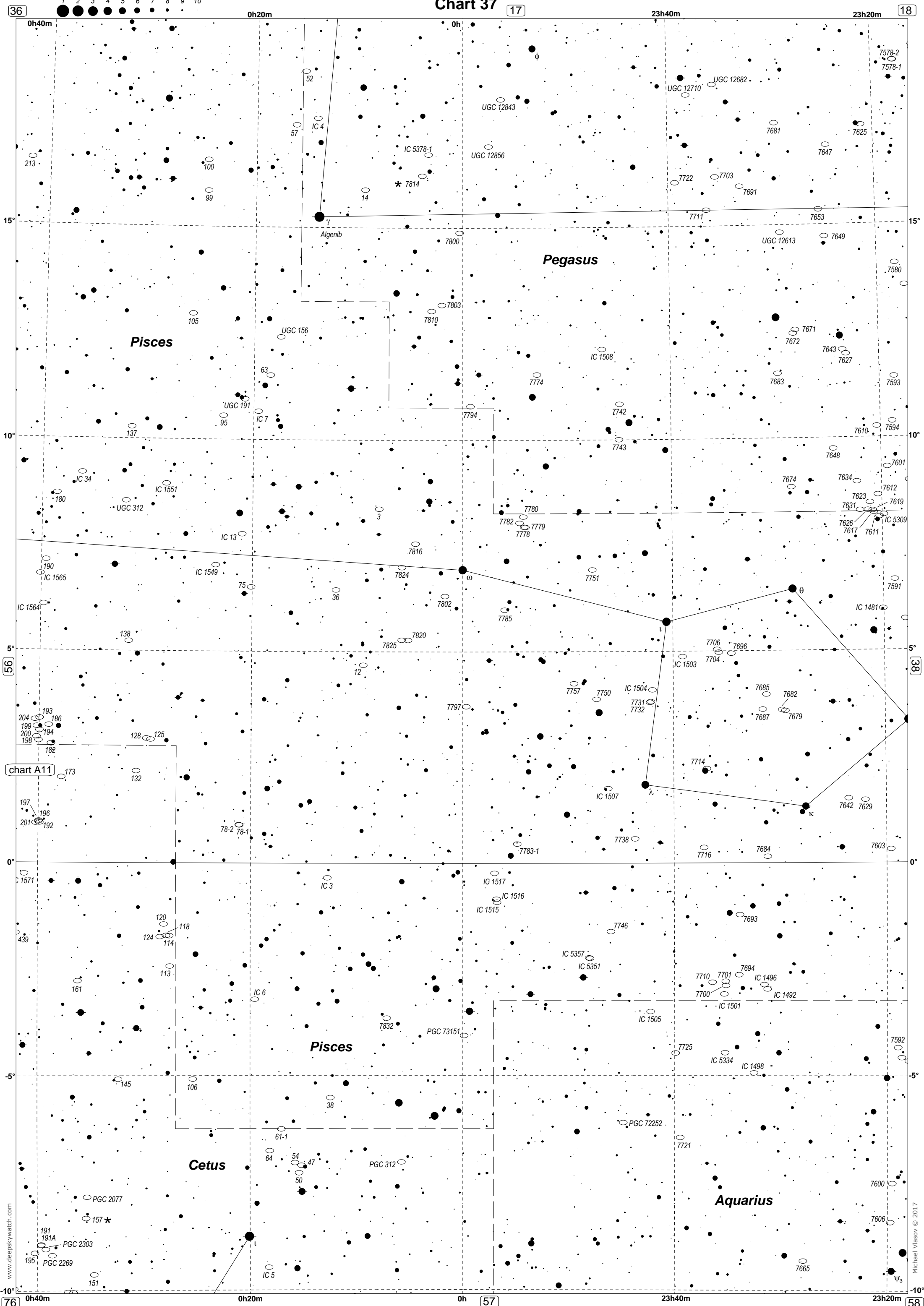


Chart 37

Pisces

Pegasus

Pisces

Aquarius

Algenib

1 2 3 4 5 6 7 8 9 10

56

chart A11

76

17

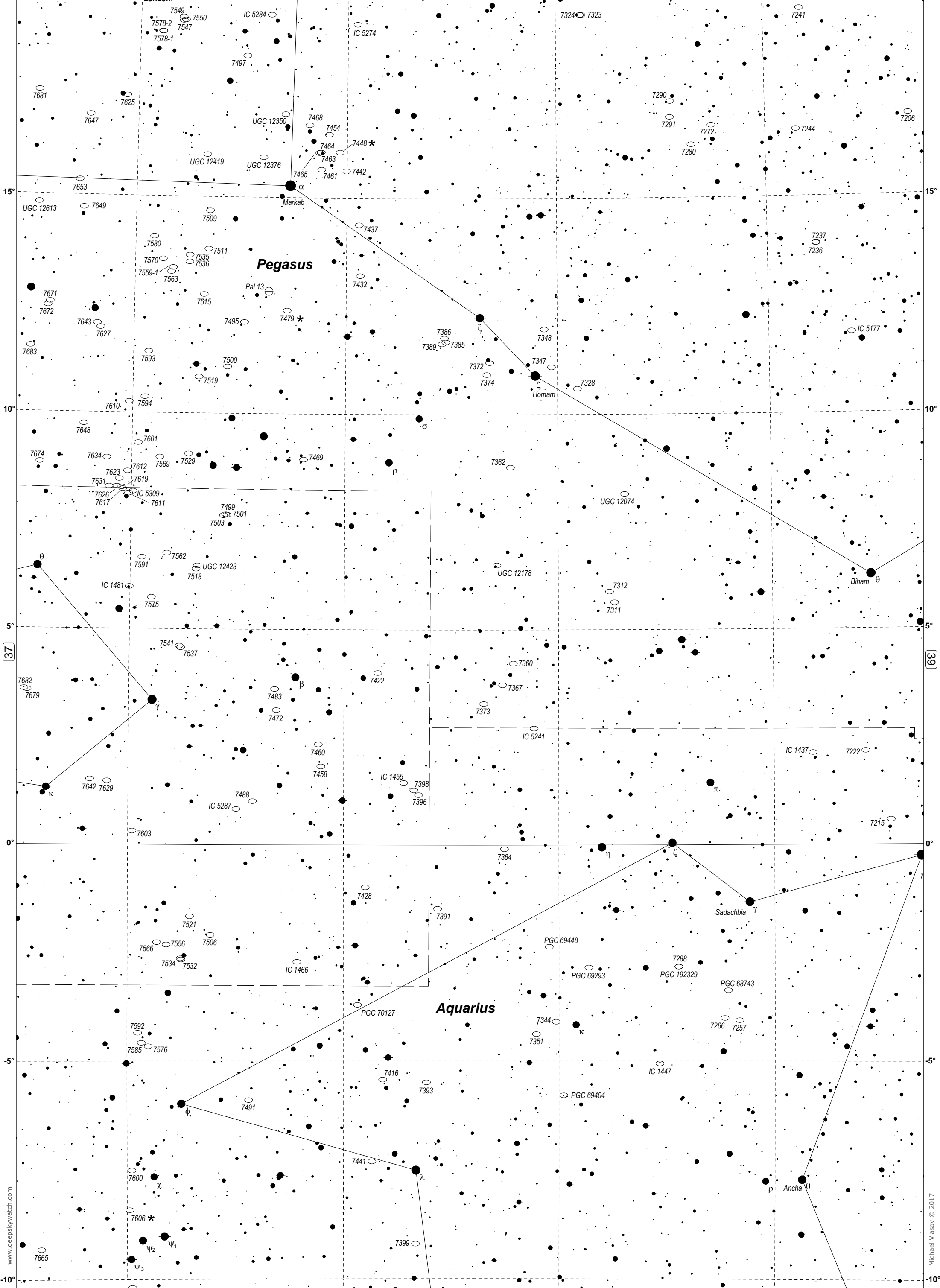
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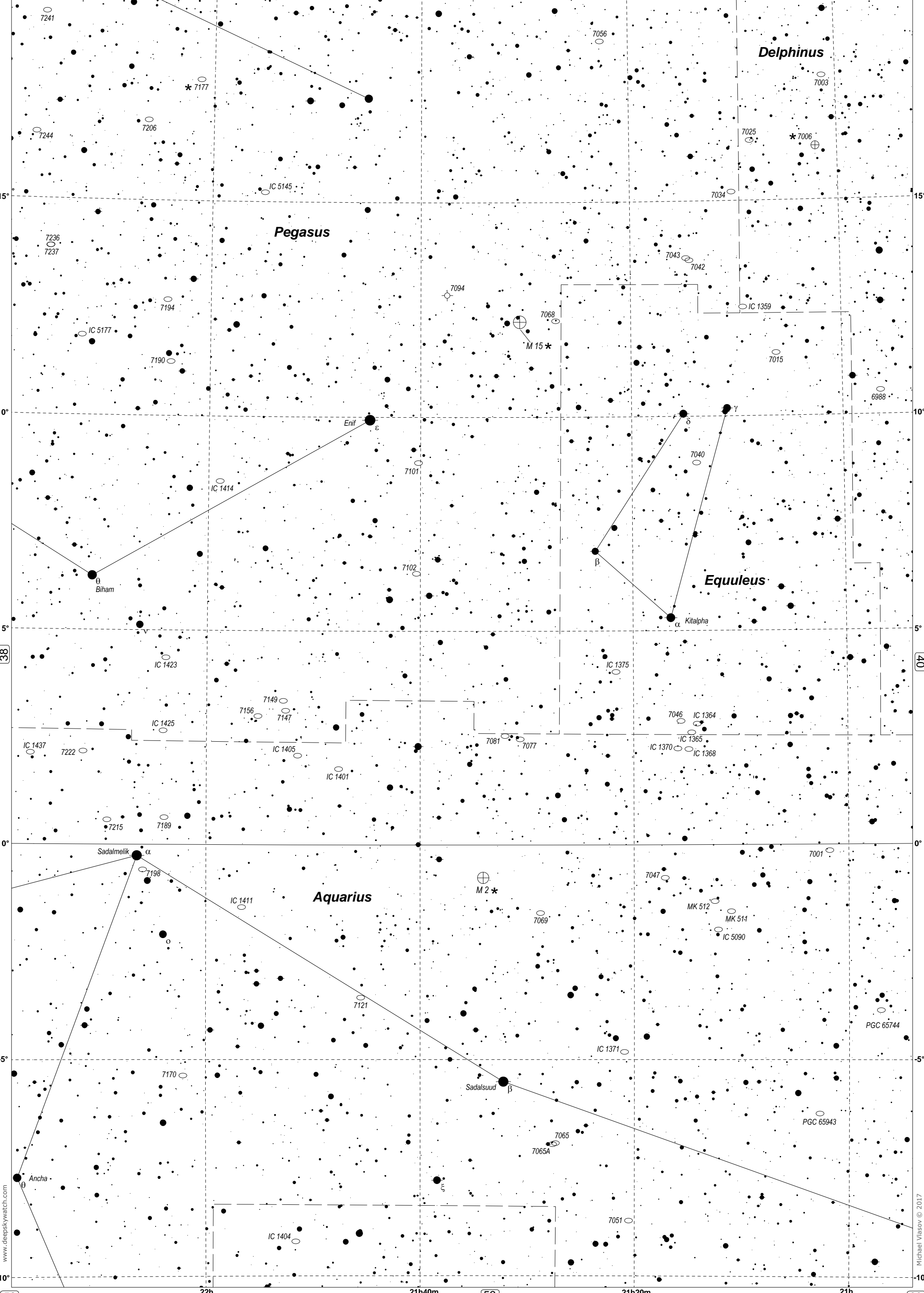
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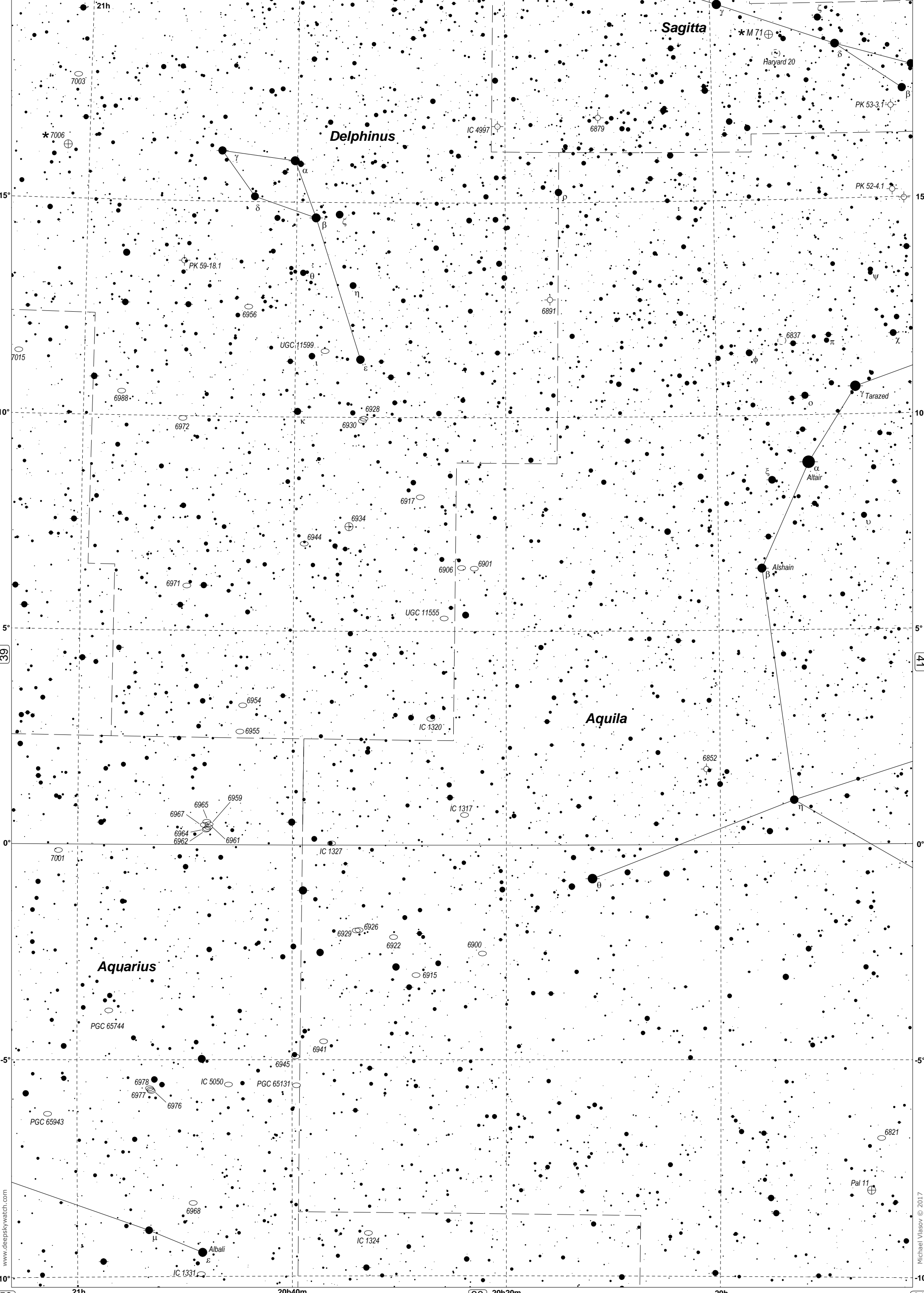
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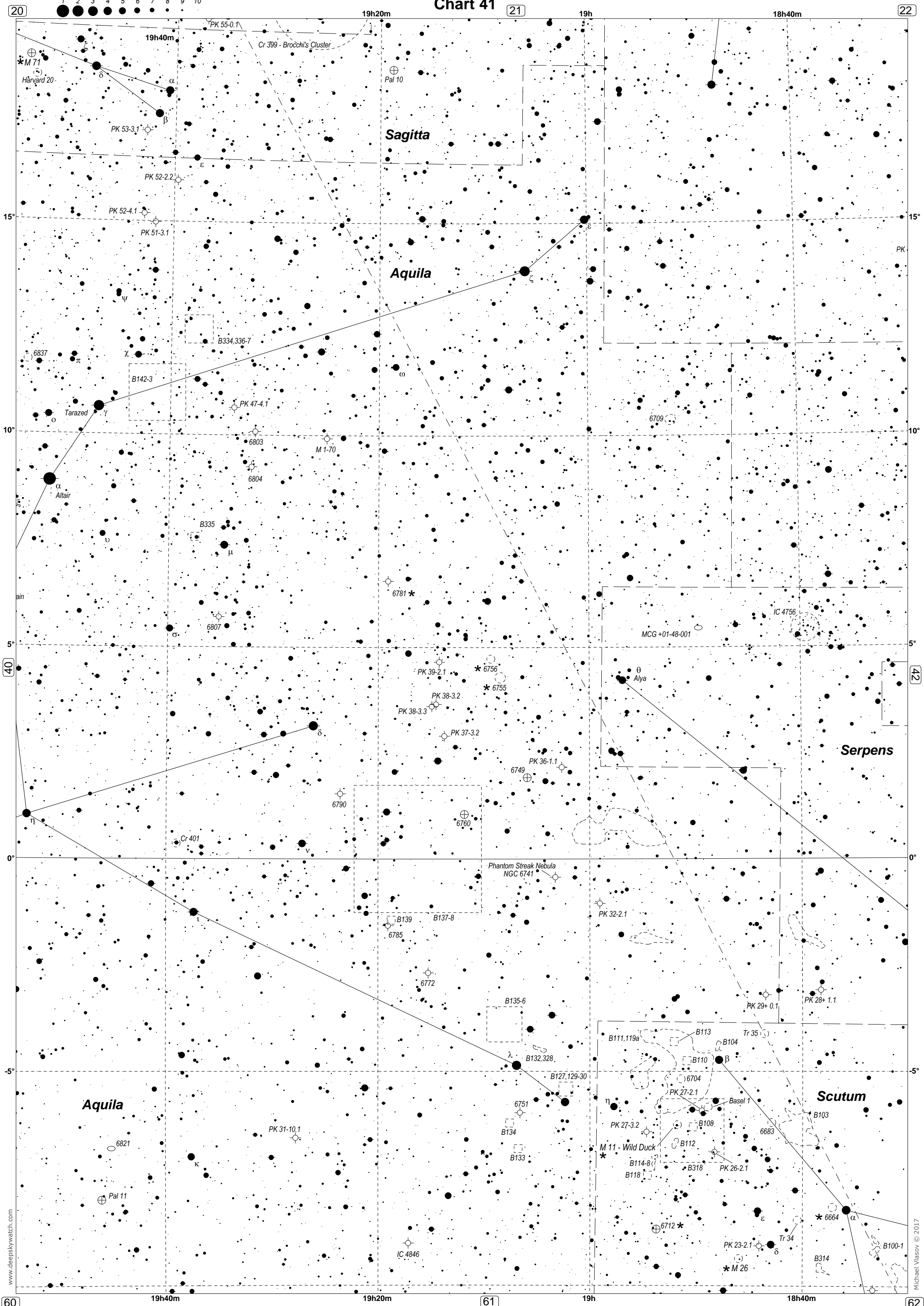
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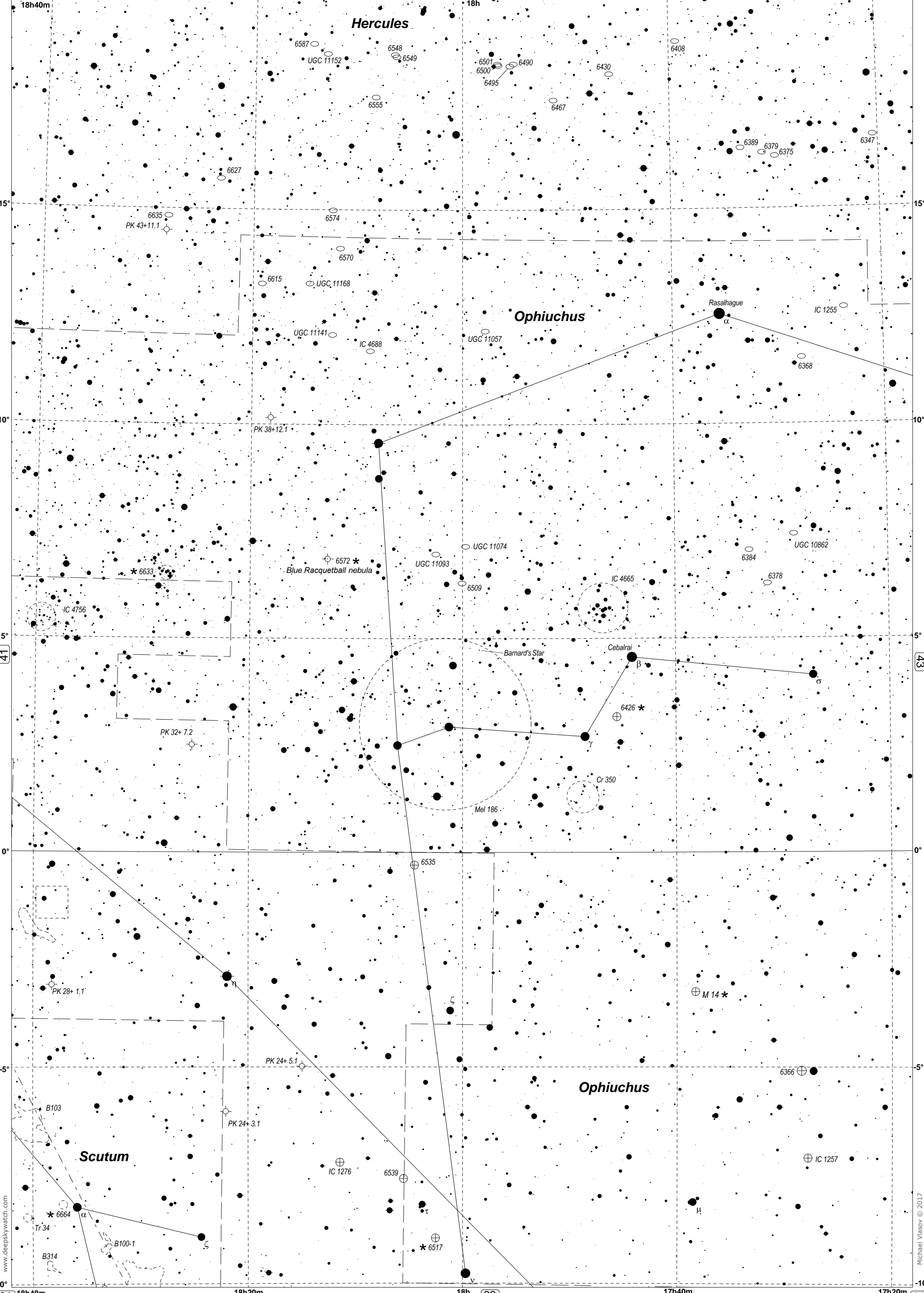












Hercules

Ophiuchus

Ophiuchus

Scutum

Blue Racquetball nebula

Barnard's Star

Cebalrai

Rasalhague

Tr 34

B100-1

IC 1276

6539

6517

IC 1257

M 14

Cr 350

Mel 186

IC 4665

UGC 11093

UGC 11074

UGC 11141

IC 4688

UGC 11057

6587

6548

6549

6501

6500

6490

6430

6408

6467

6389

6379

6375

6347

6627

6635

PK 43+11.1

6574

6615

UGC 11168

6570

6615

PK 38+12.1

6572

6633

UGC 11074

6509

6384

UGC 10862

6378

PK 32+ 7.2

IC 4756

Barnard's Star

Cebalrai

6426

PK 28+ 1.1

6535

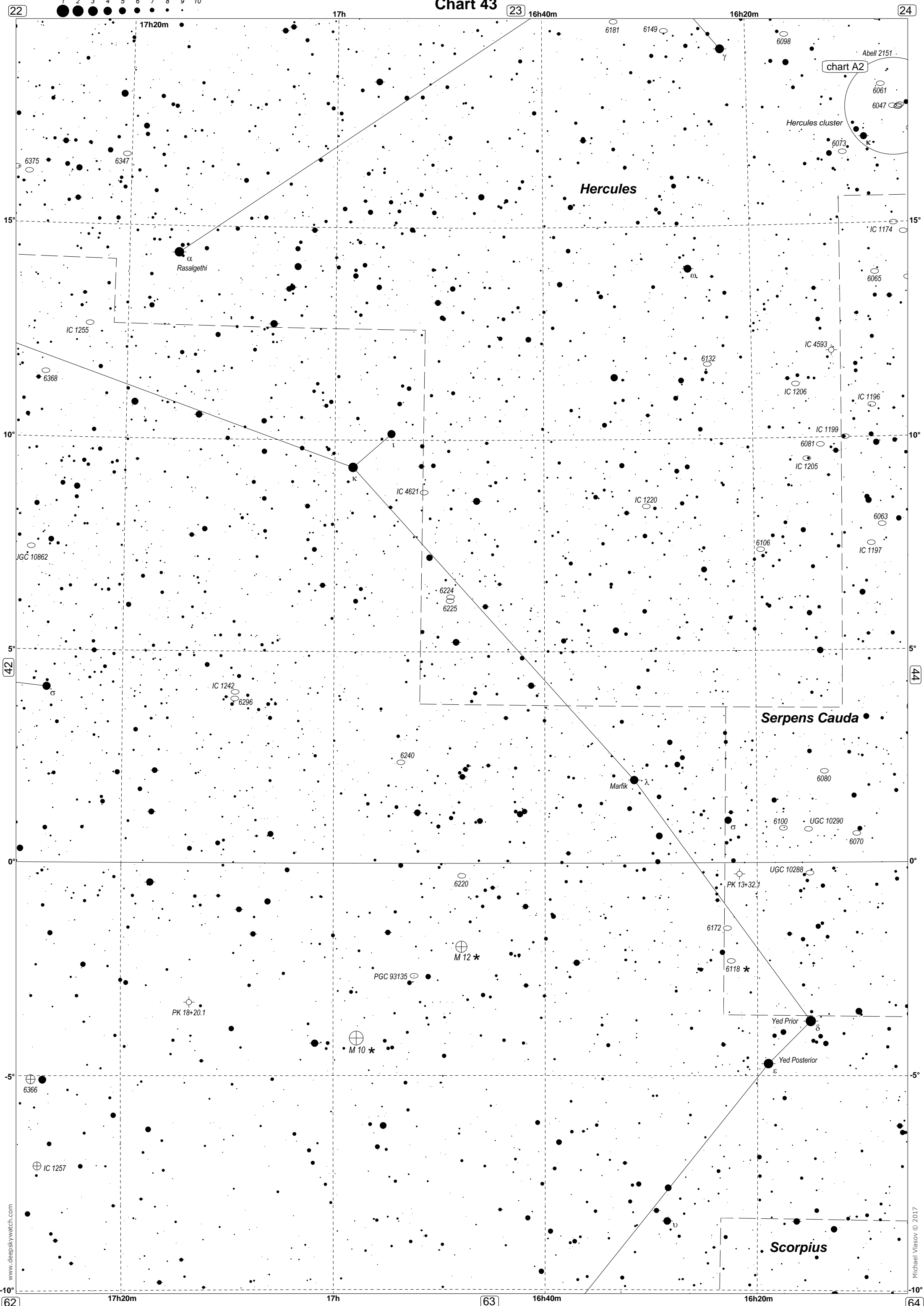
PK 24+ 5.1

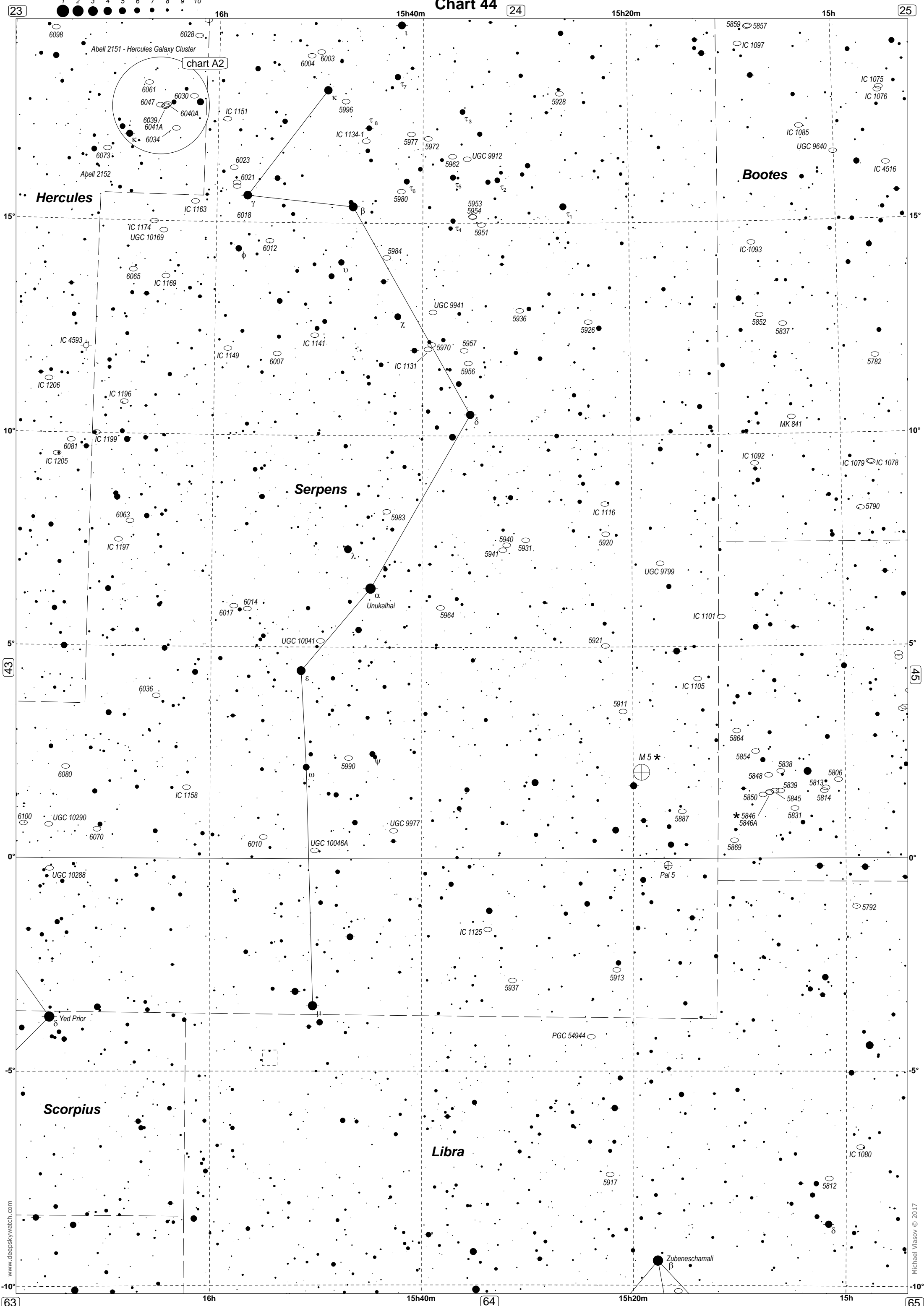
PK 24+ 3.1

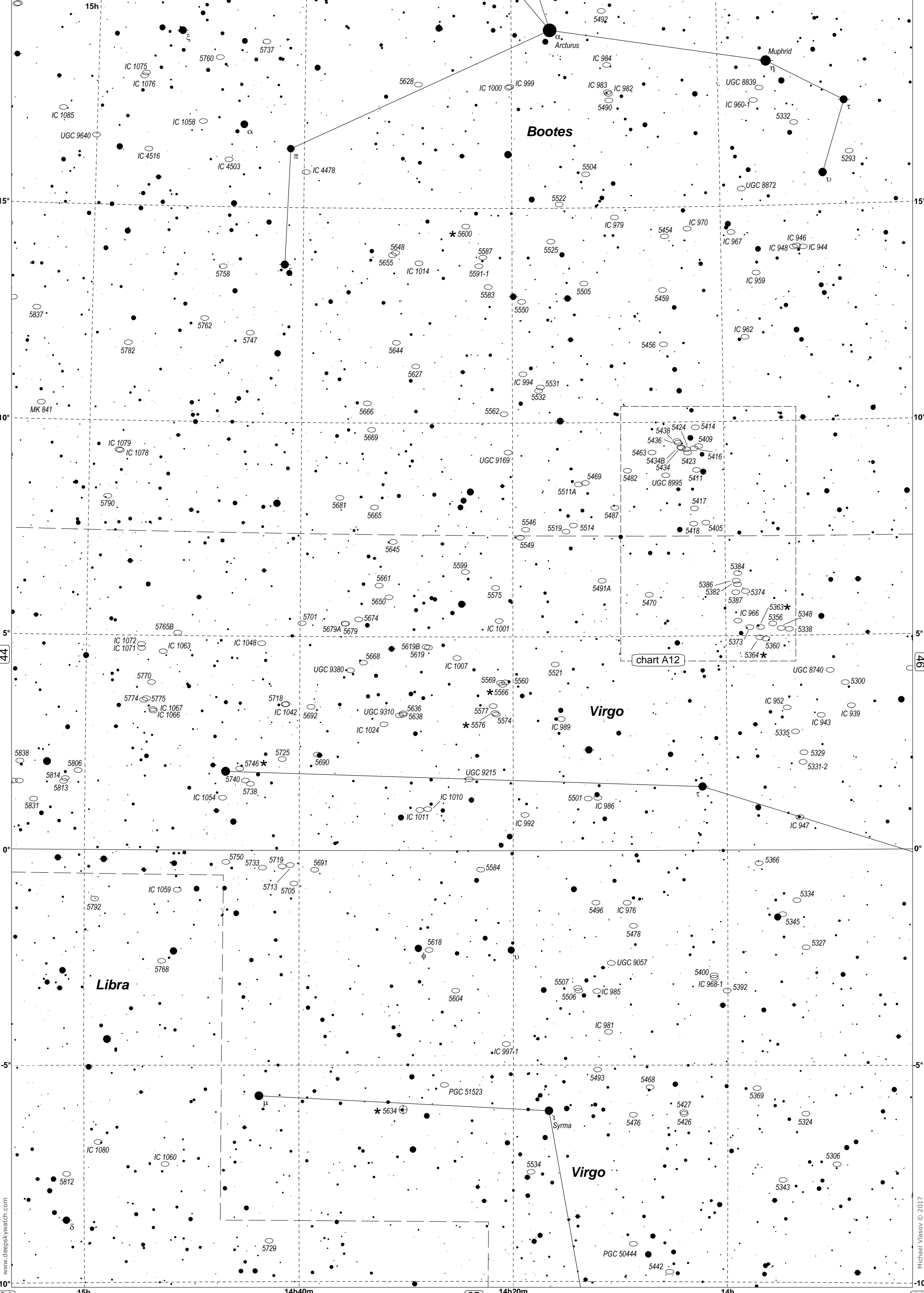
B103

B314

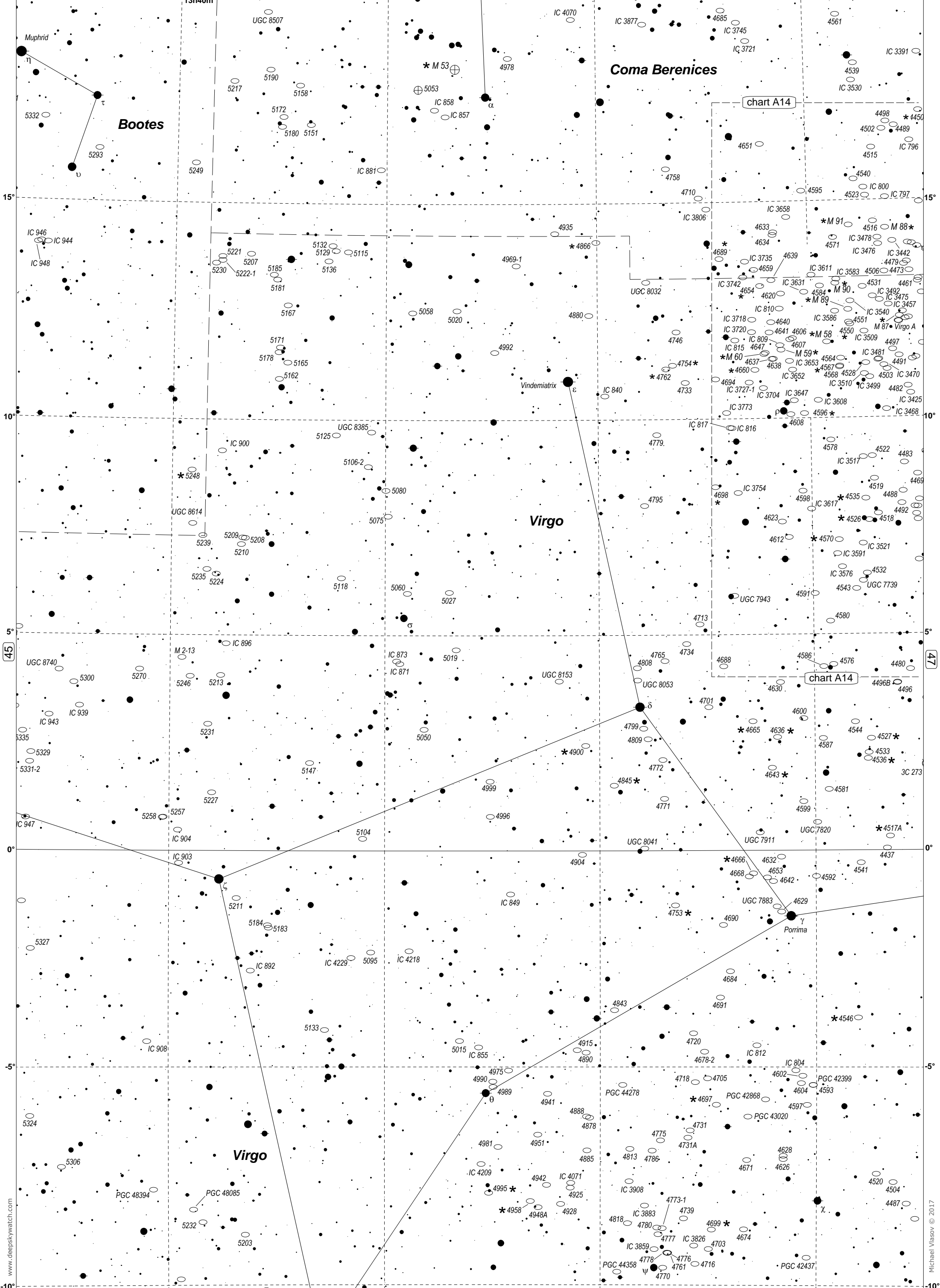
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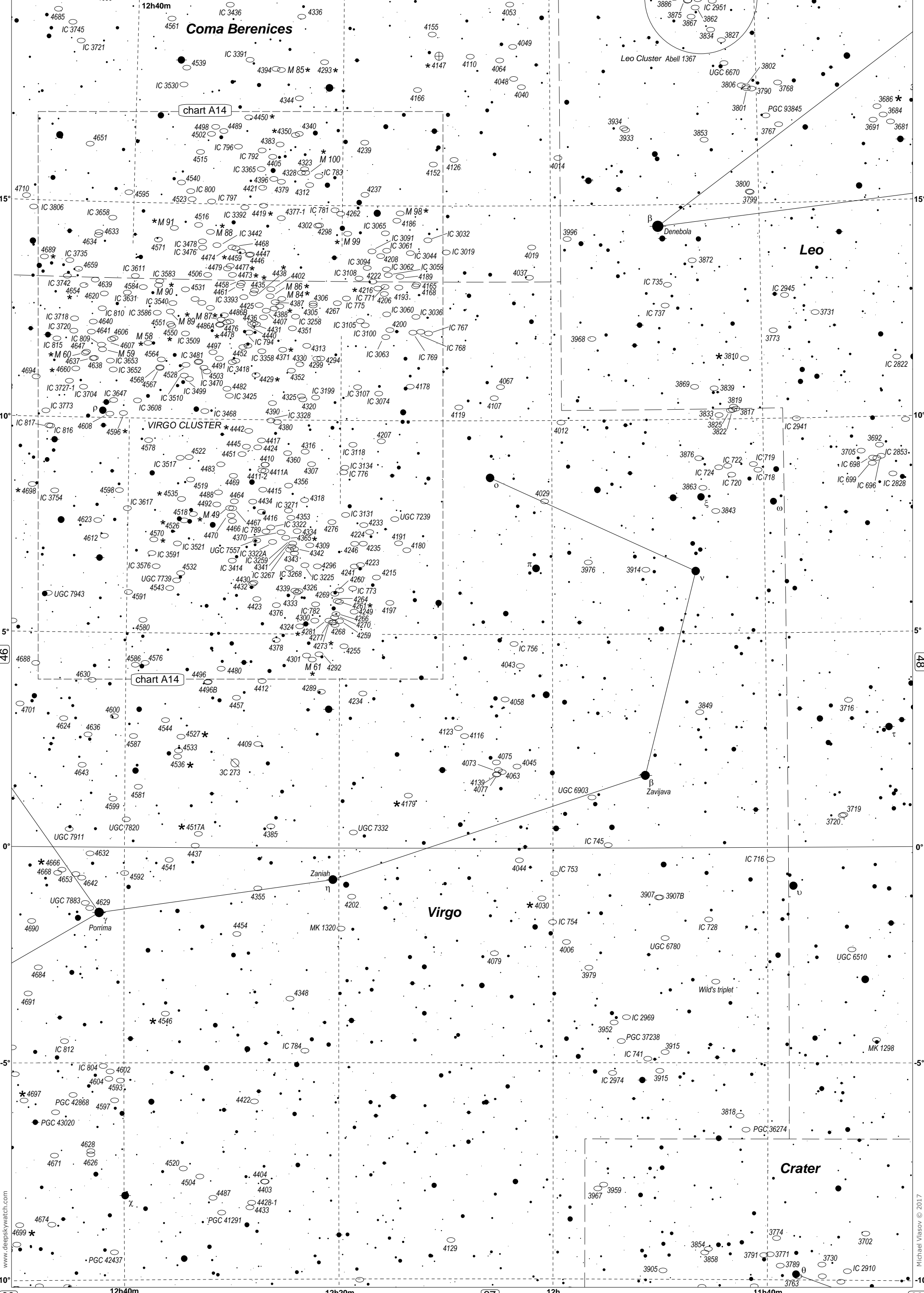


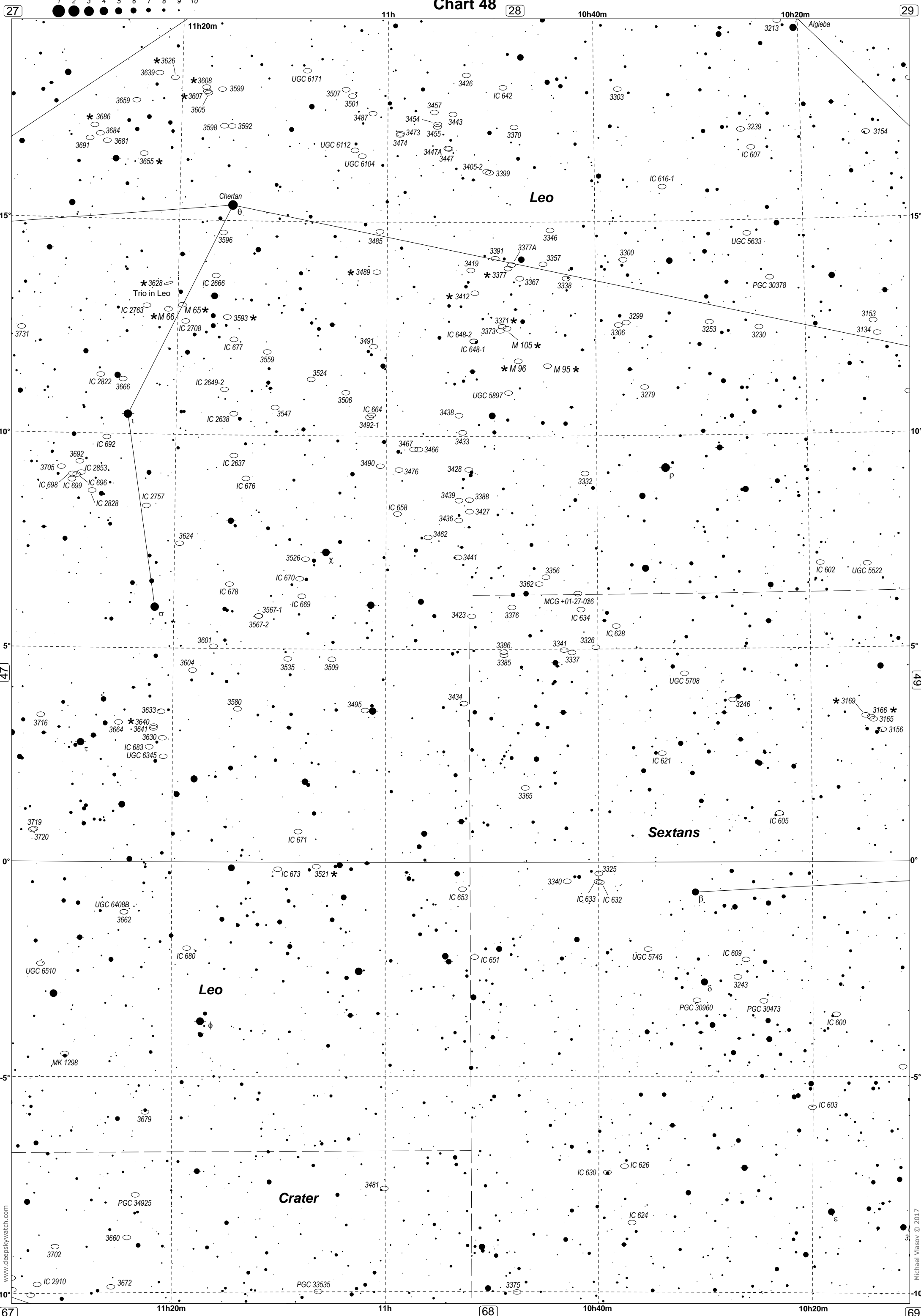


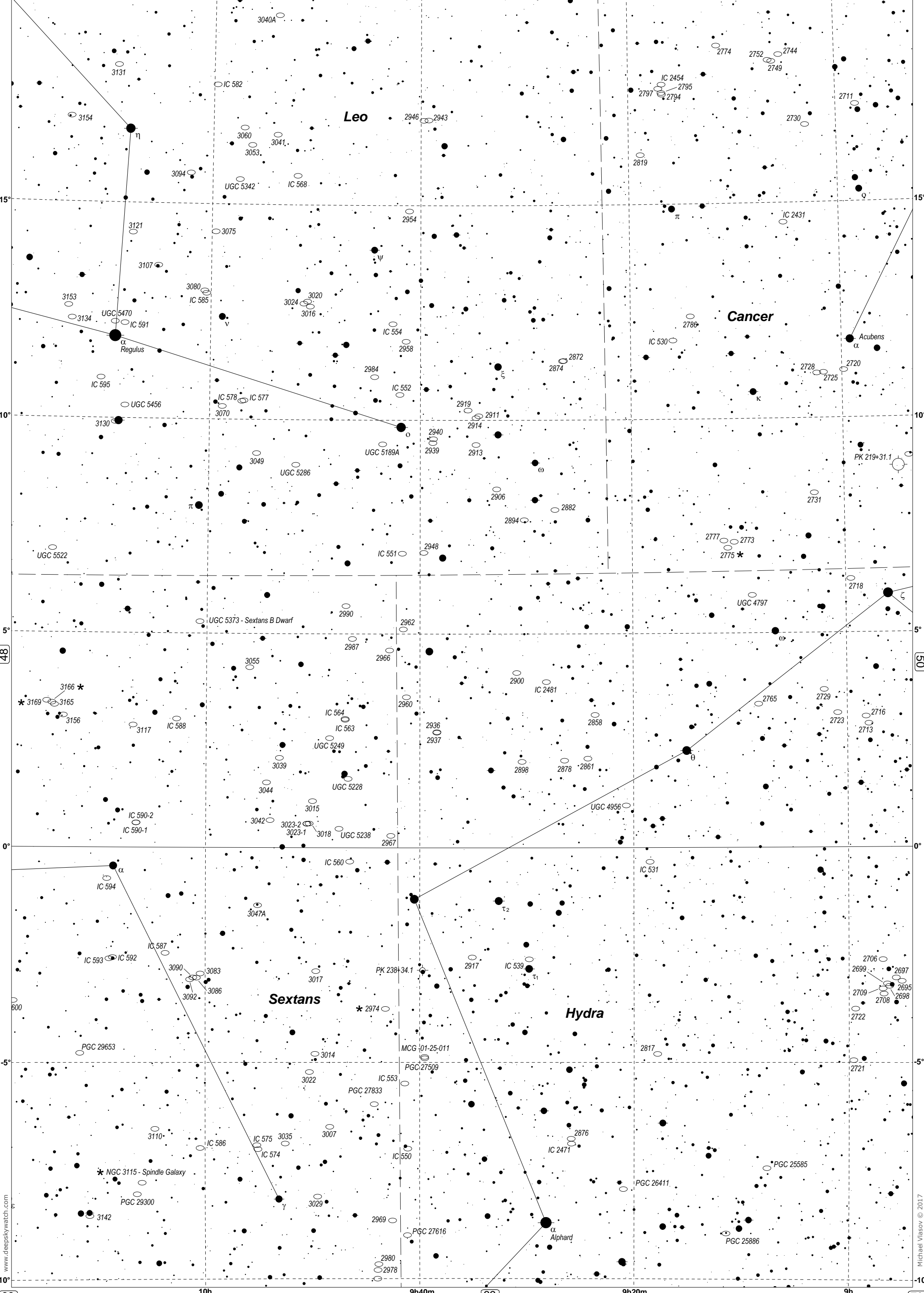


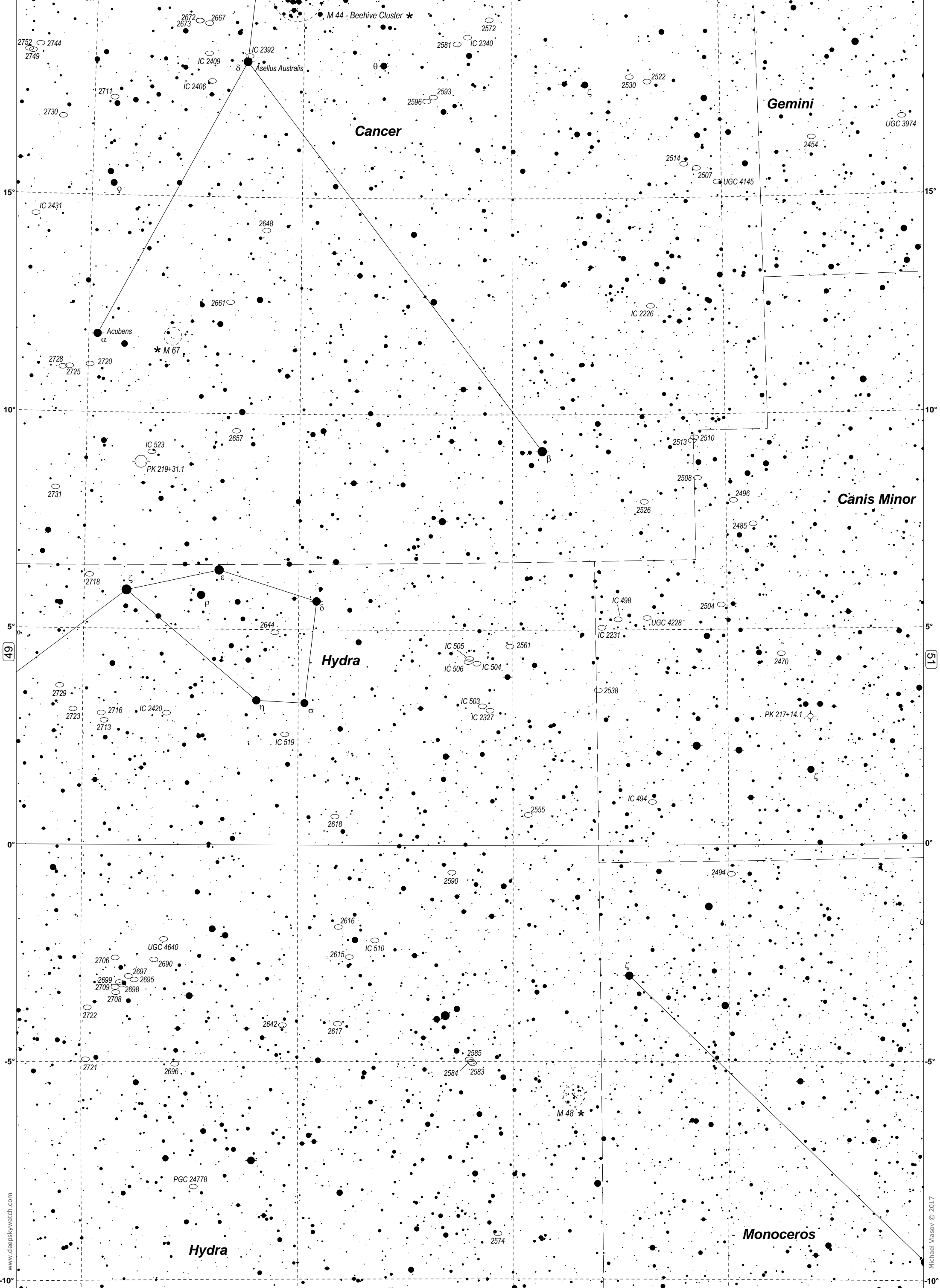


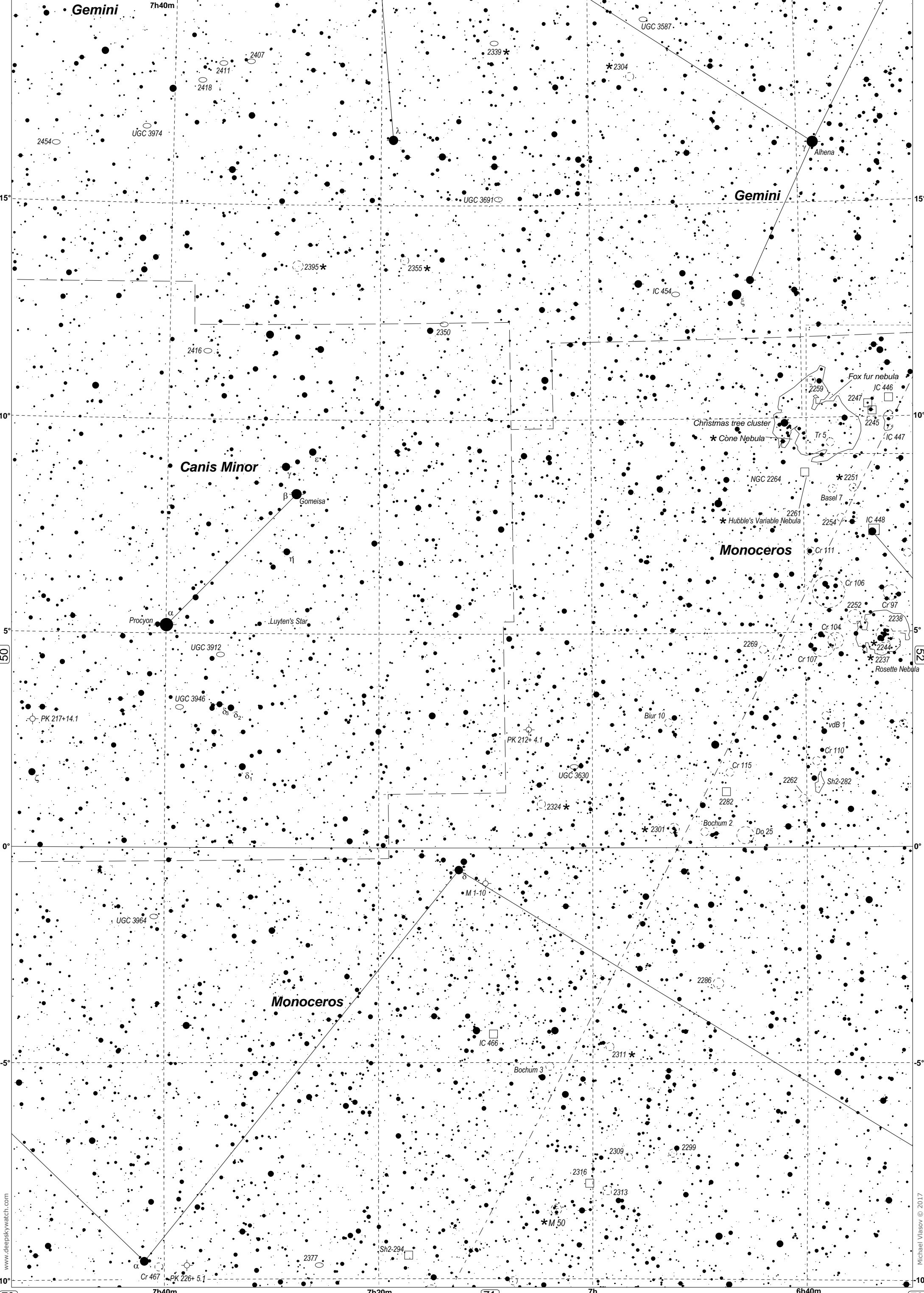


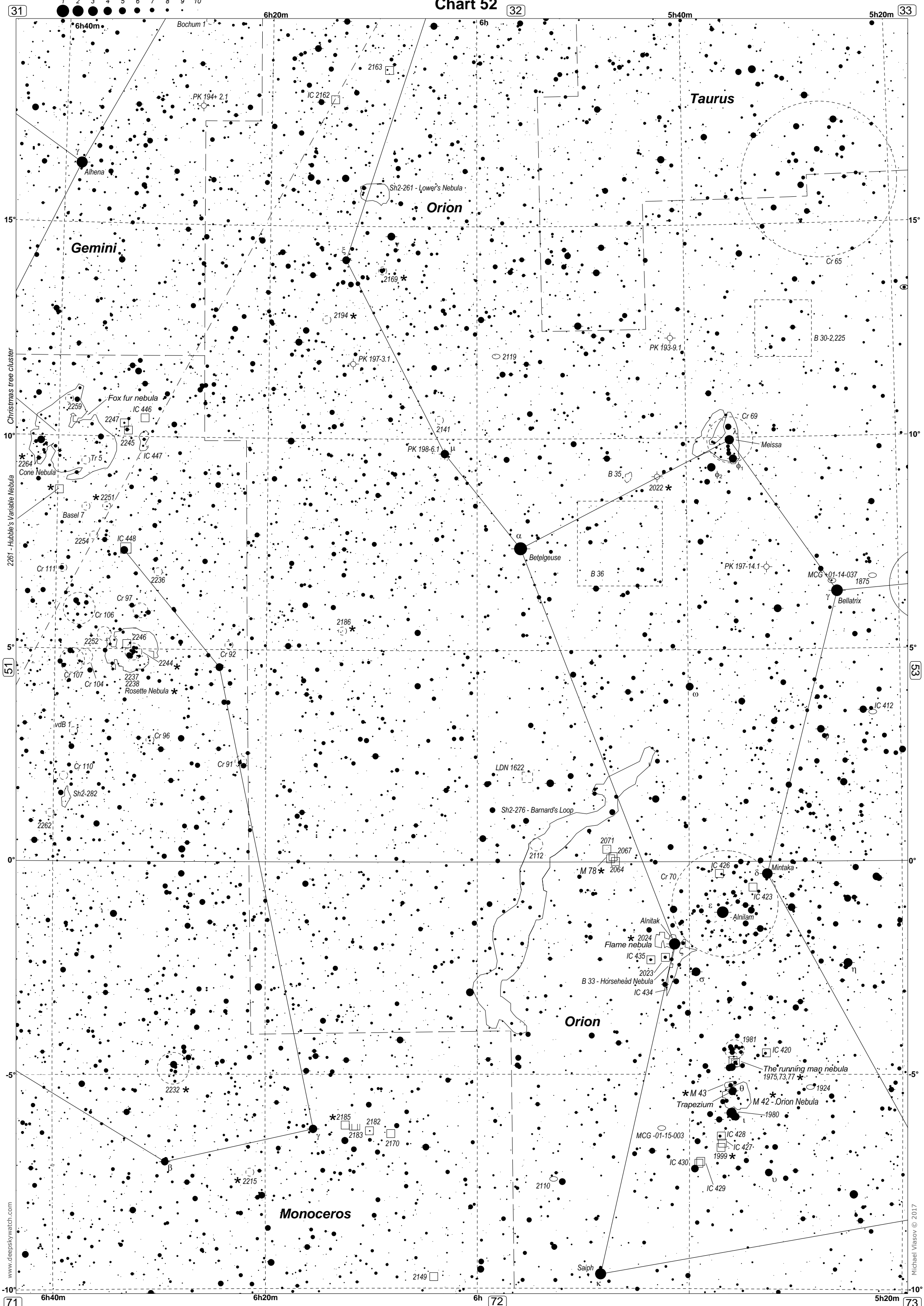








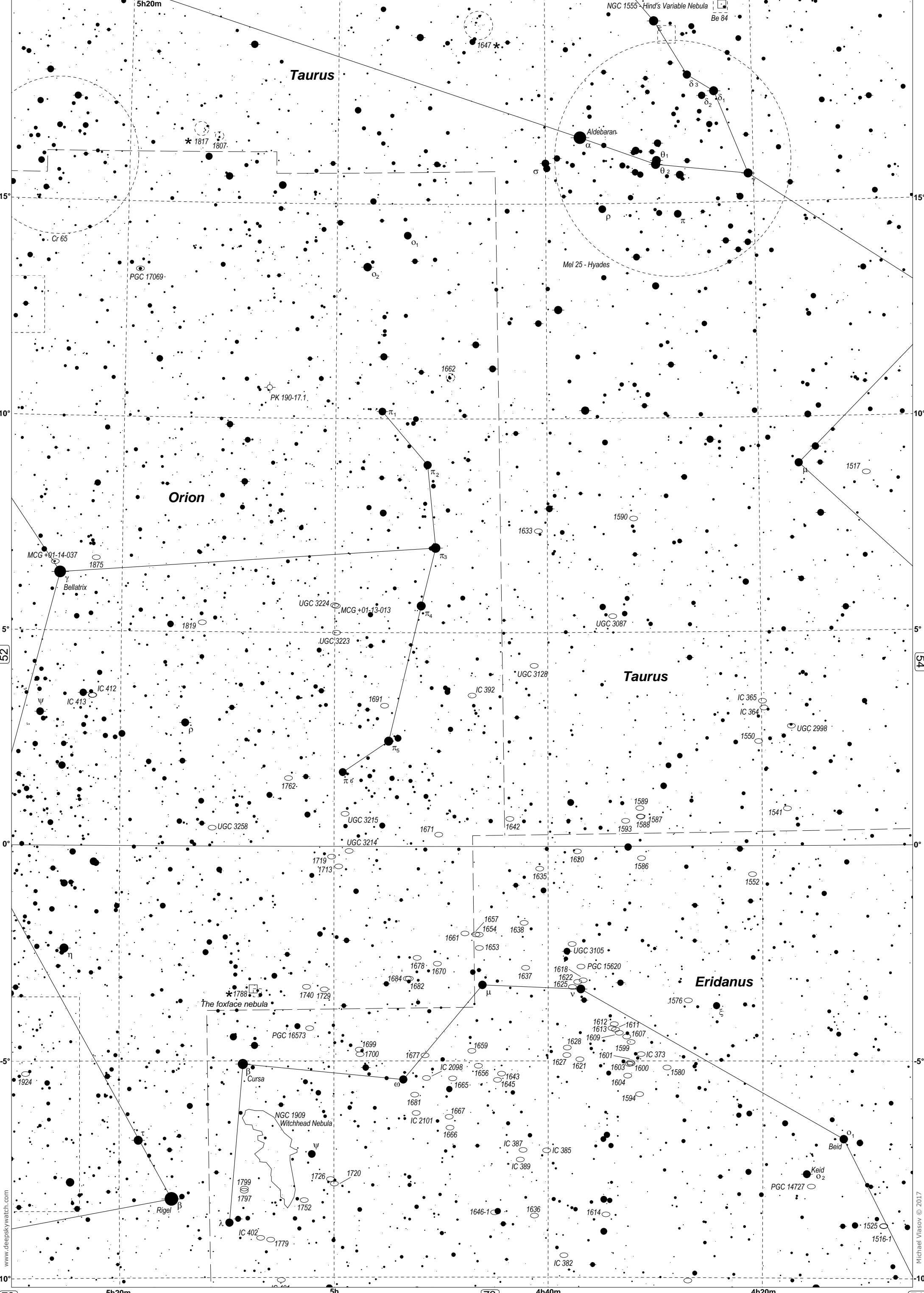




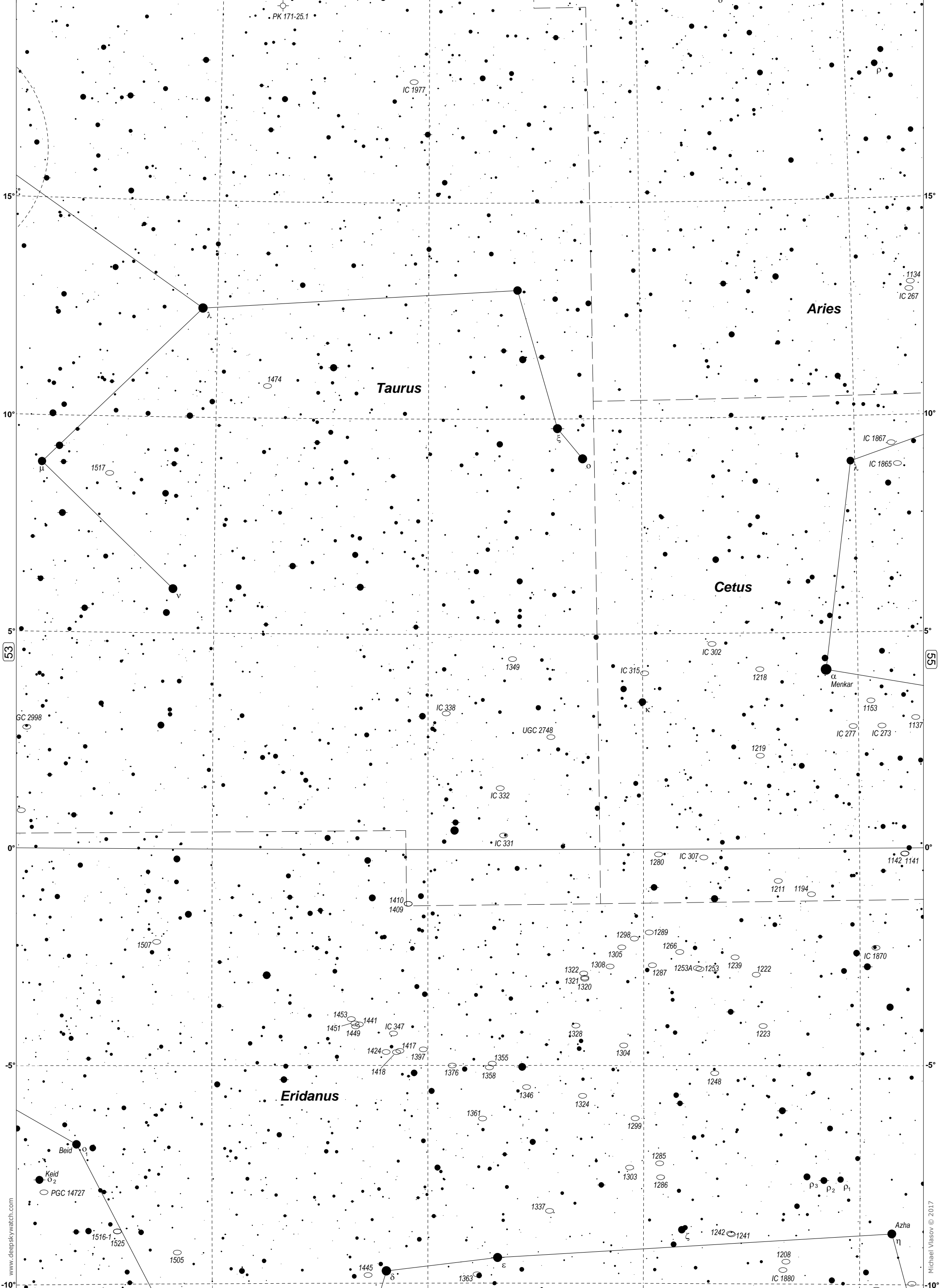
Christmas tree cluster  
2261 - Hubble's Variable Nebula

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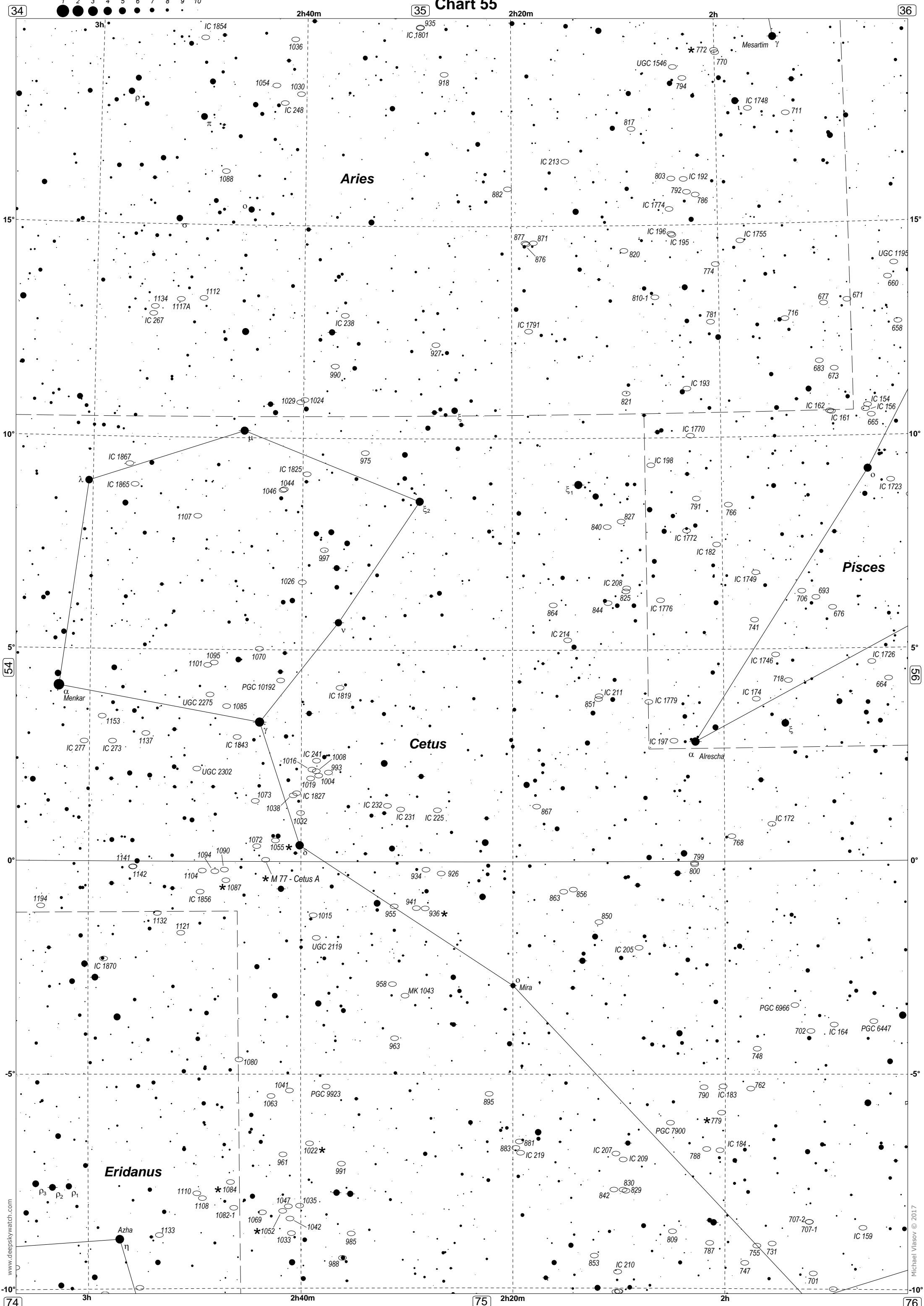


Chart 55

Aries

Cetus

Pisces

Eridanus

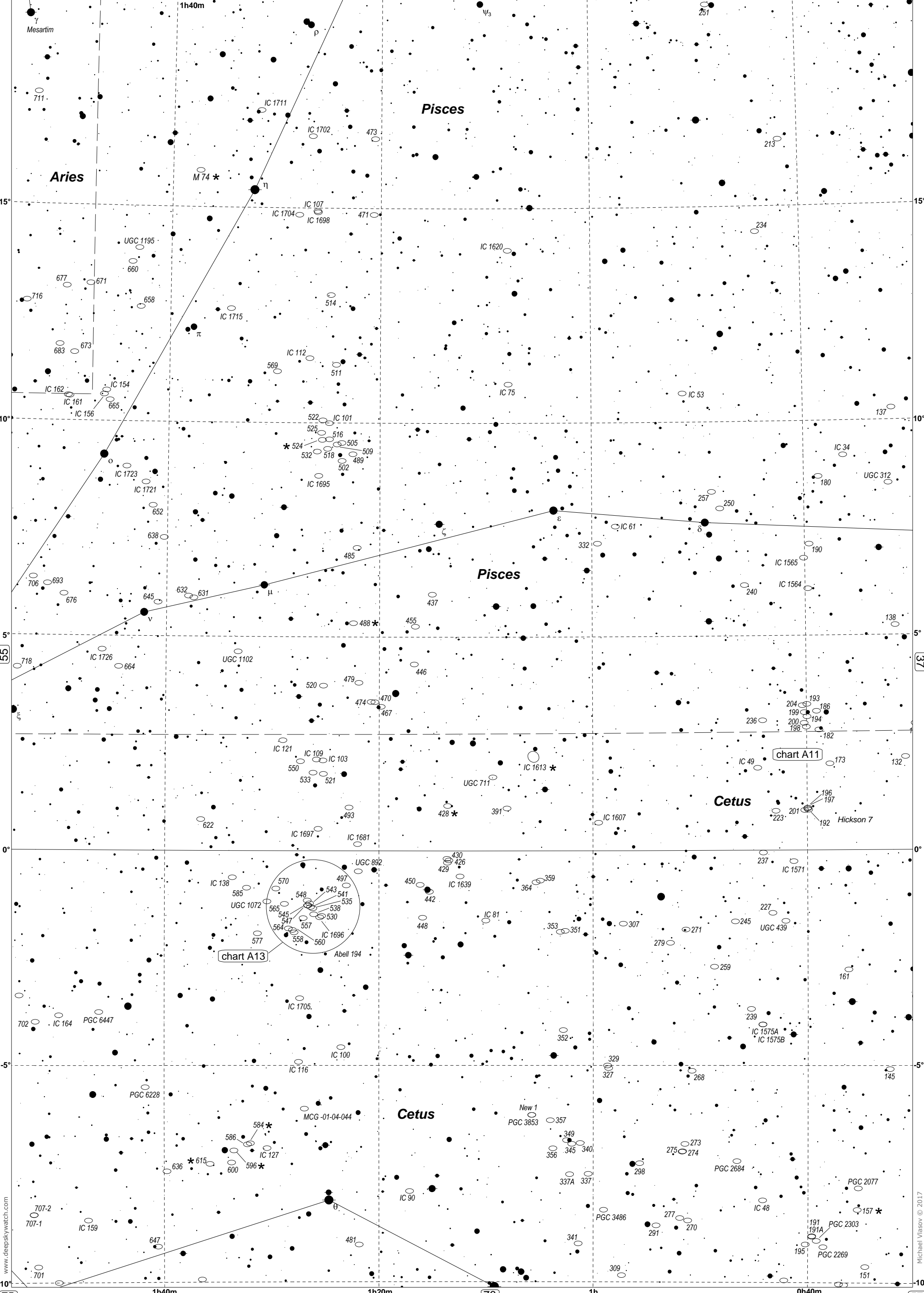
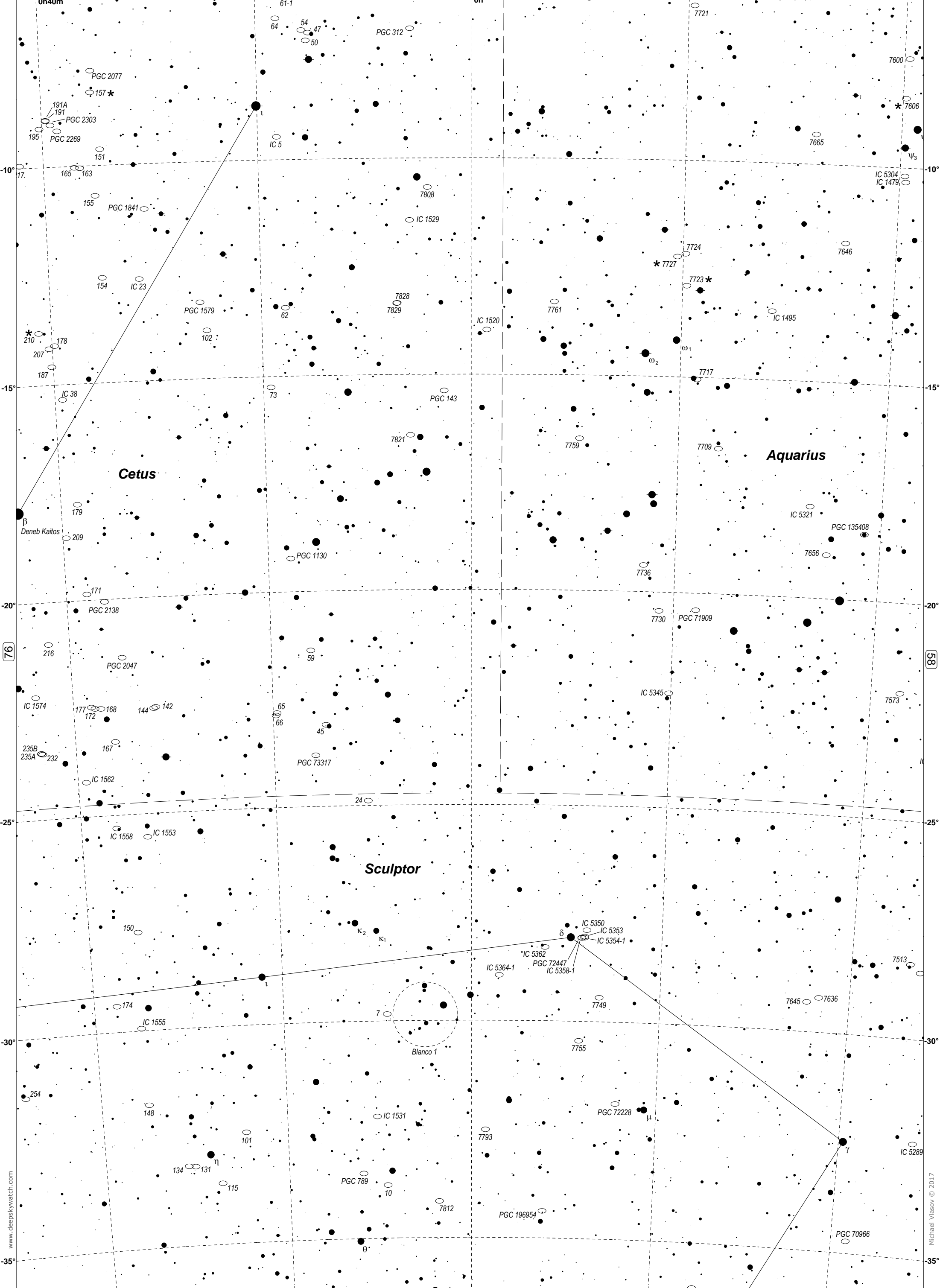
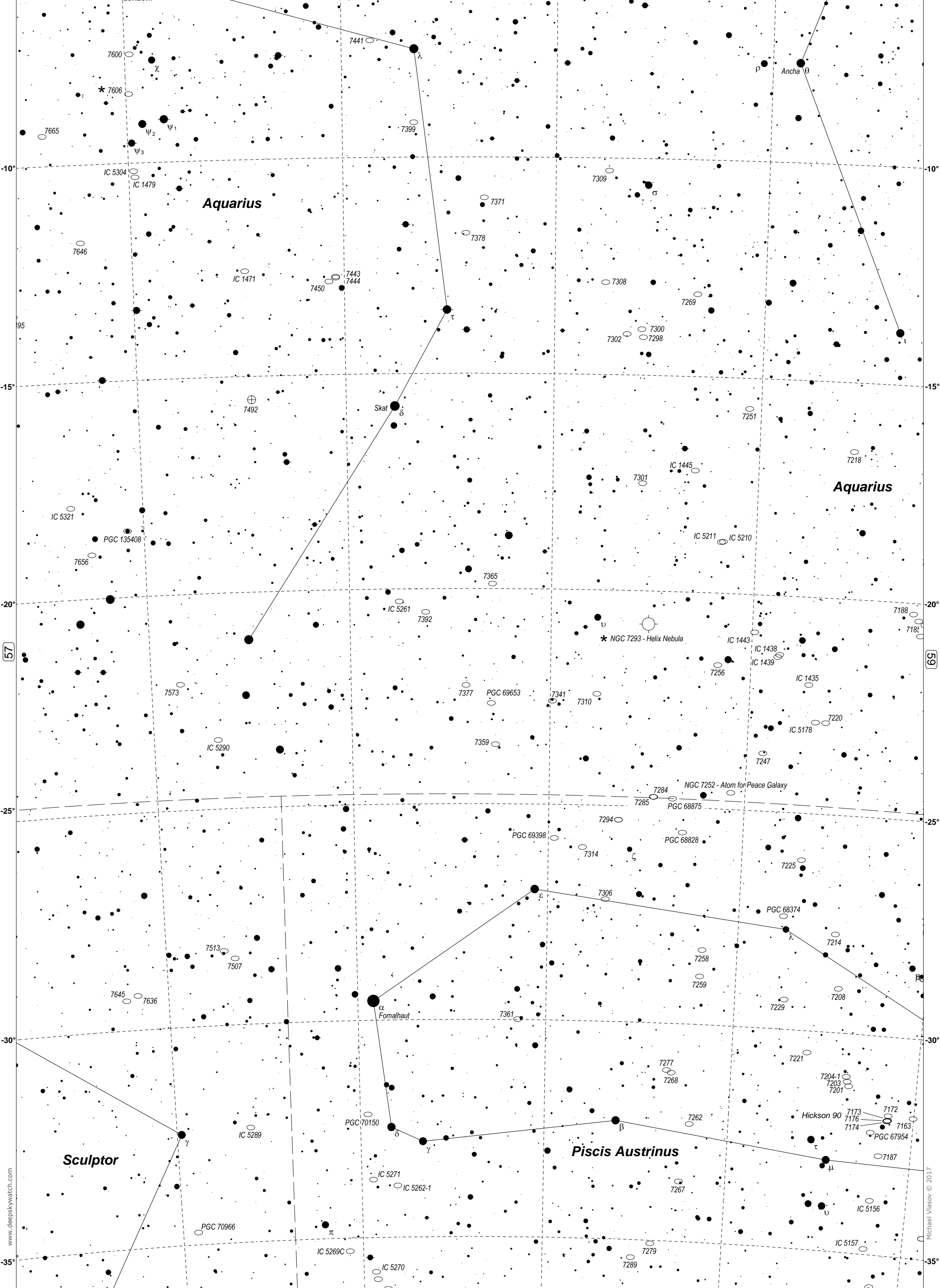
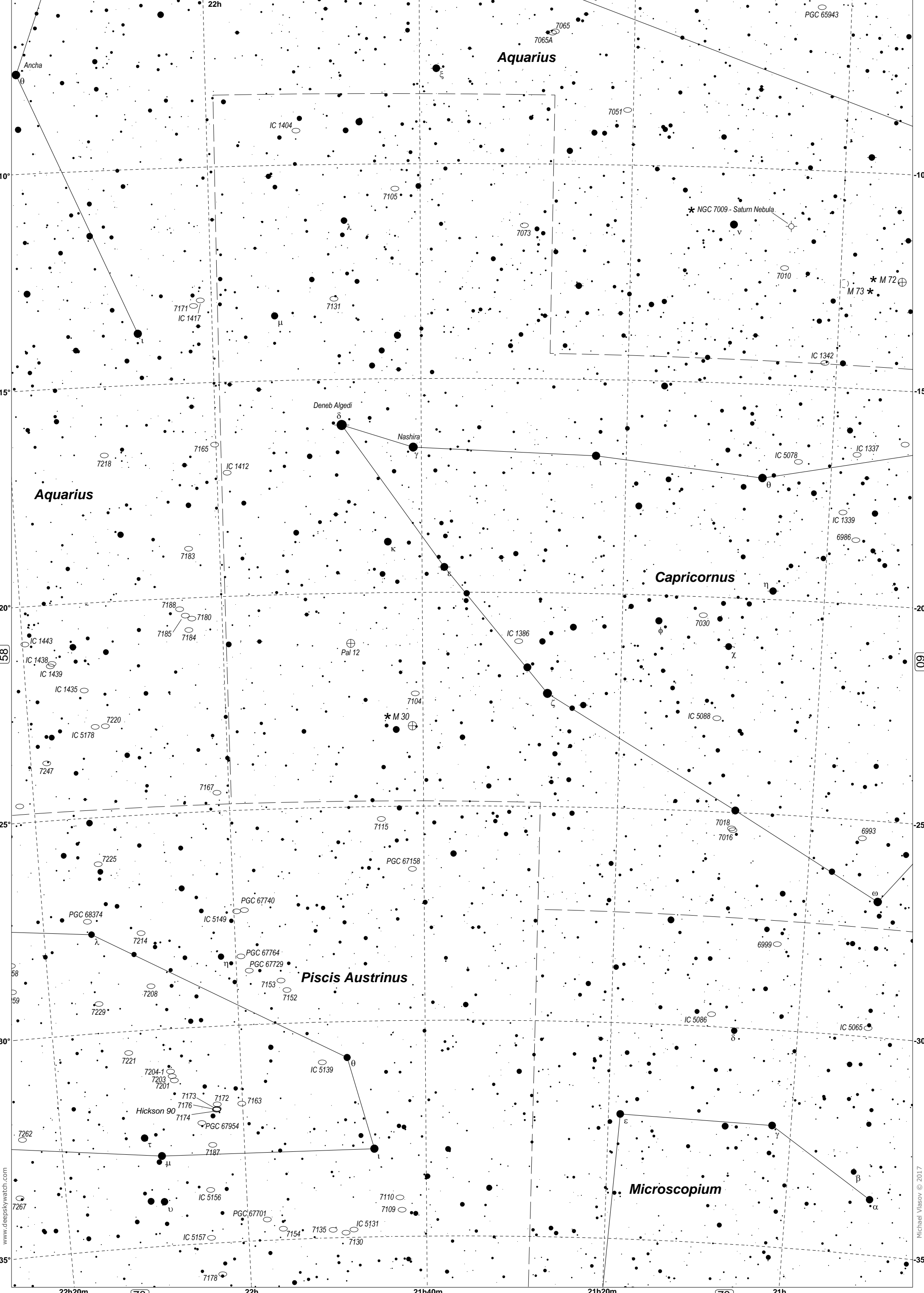


chart A13

chart A11







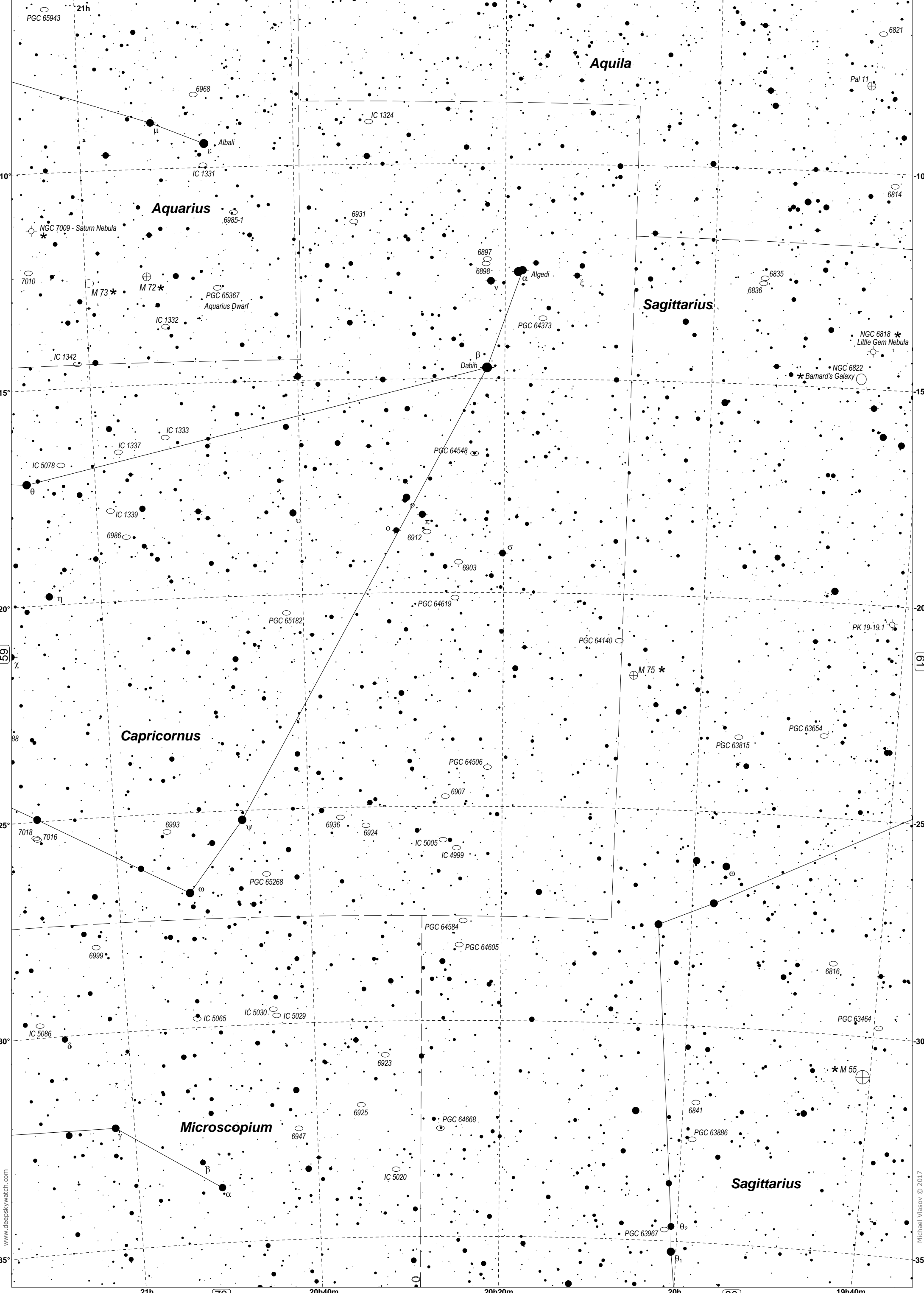
Aquarius

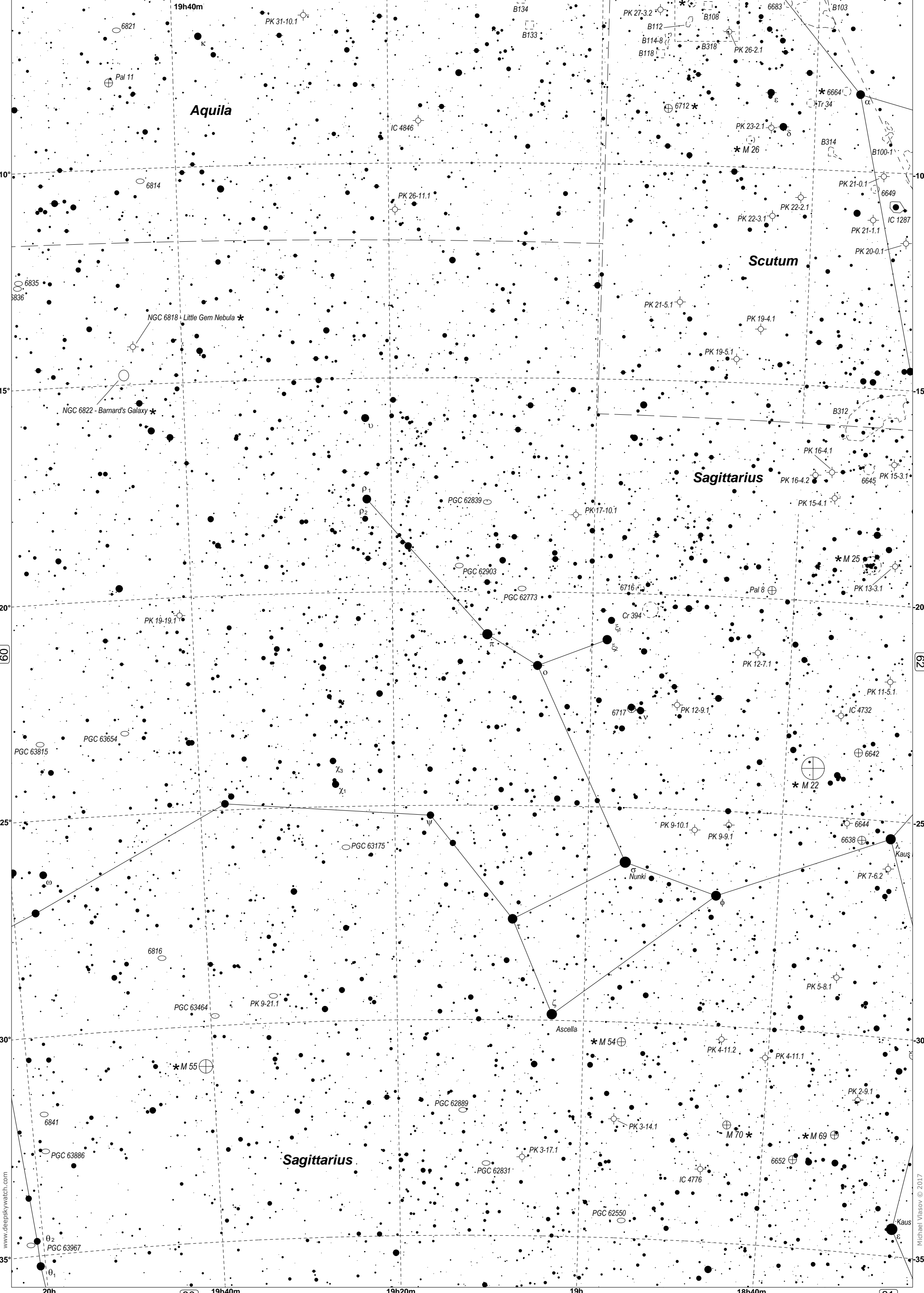
Aquarius

Capricornus

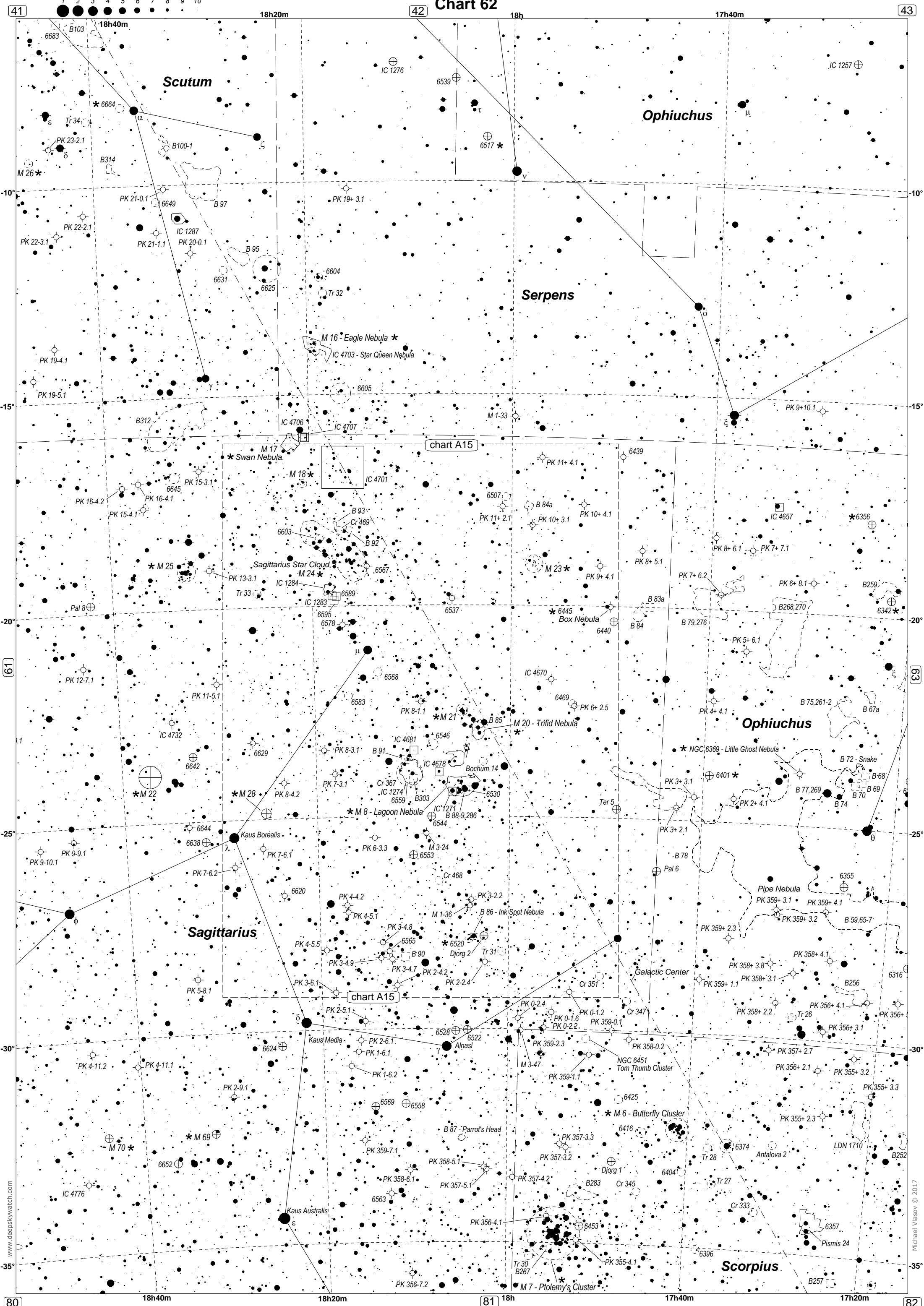
Piscis Austrinus

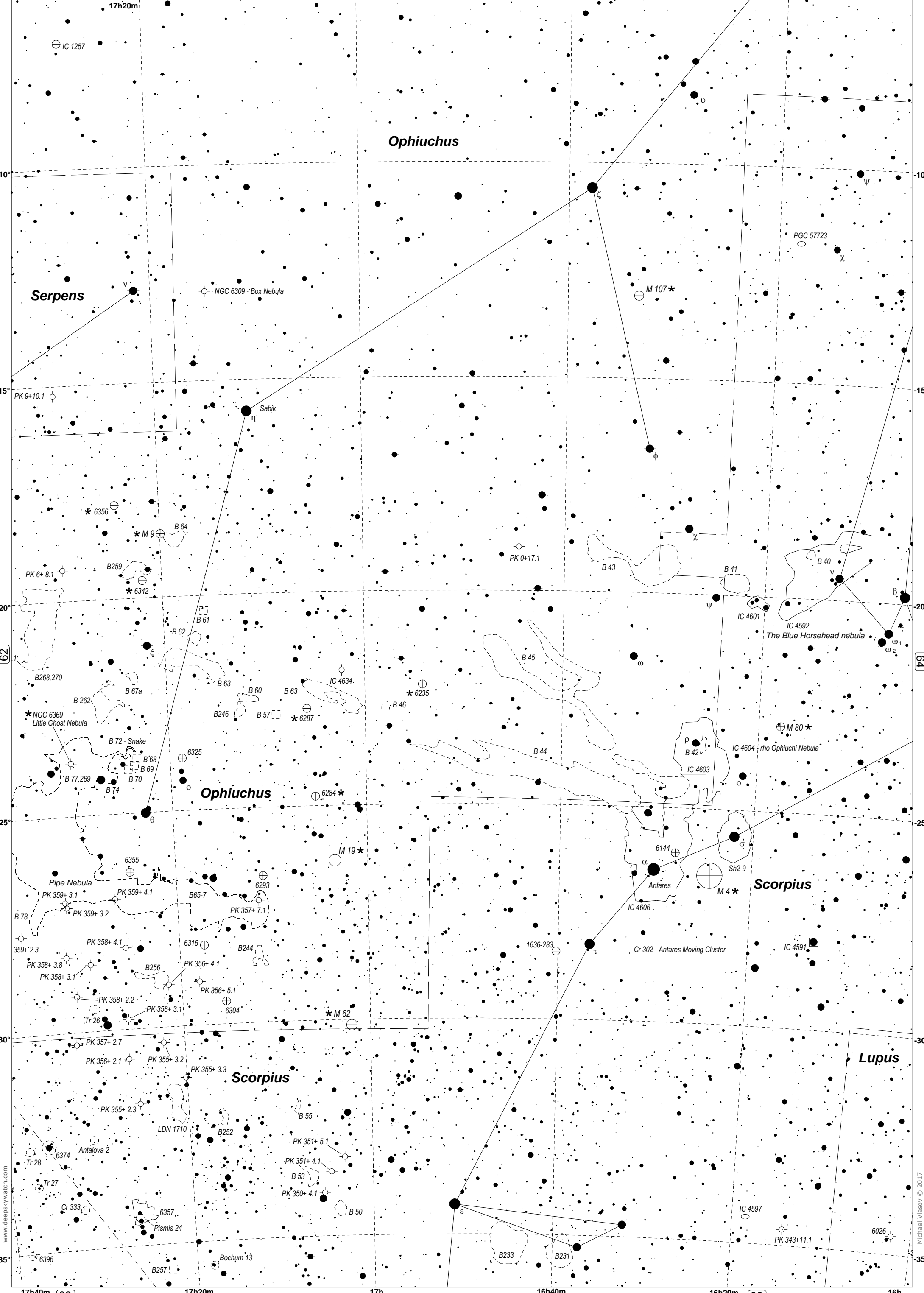
Microscopium











Ophiuchus

Serpens

Ophiuchus

Scorpius

Lupus

Sabik

M 107

PGC 57723

NGC 6309 - Box Nebula

The Blue Horsehead nebula

NGC 6369 Little Ghost Nebula

M 80

IC 4604 - rho Ophiuchi Nebula

Pipe Nebula

Antares

Cr 302 - Antares Moving Cluster

Scorpius

Tr 28

LDN 1710

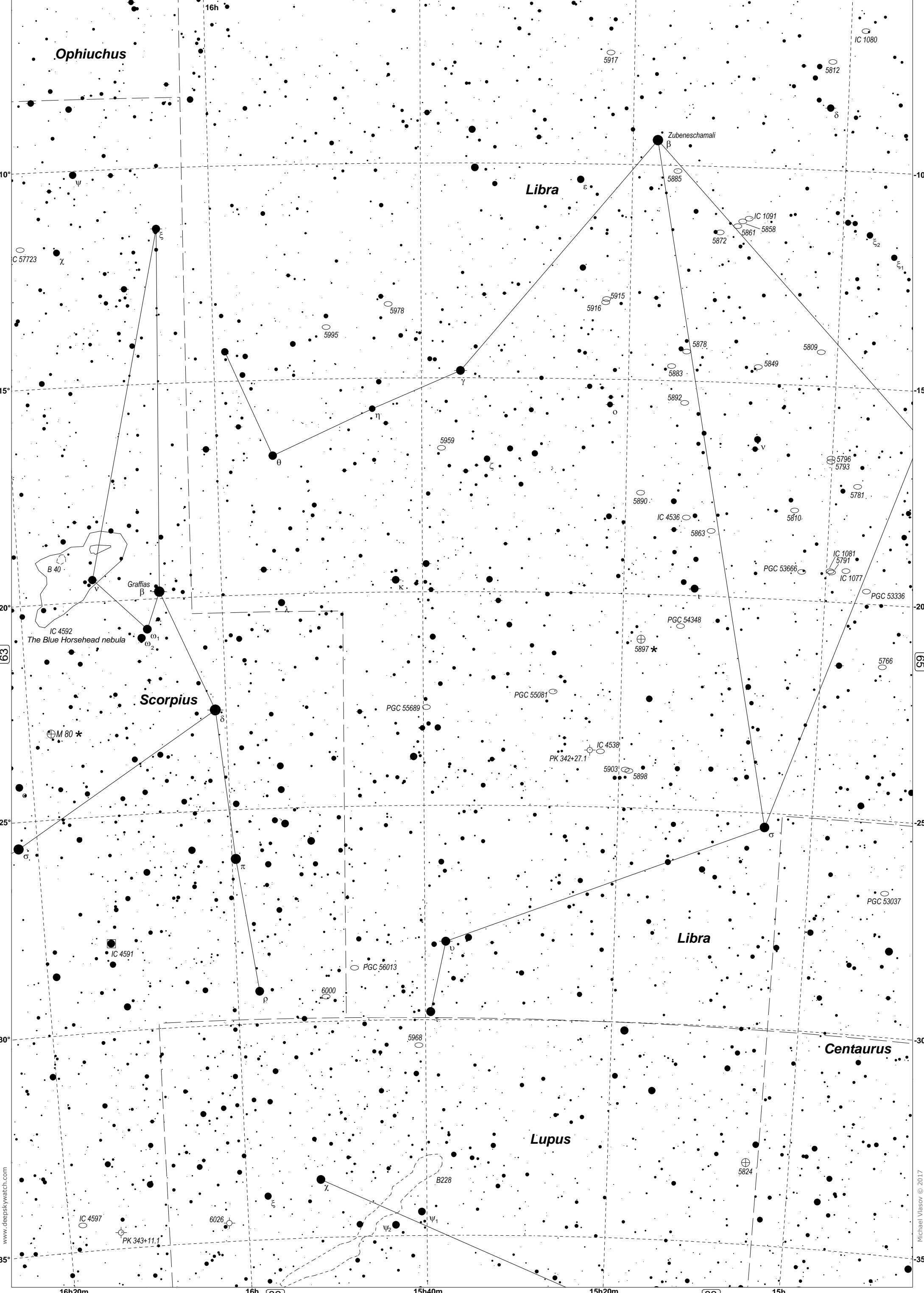
PK 351+ 5.1

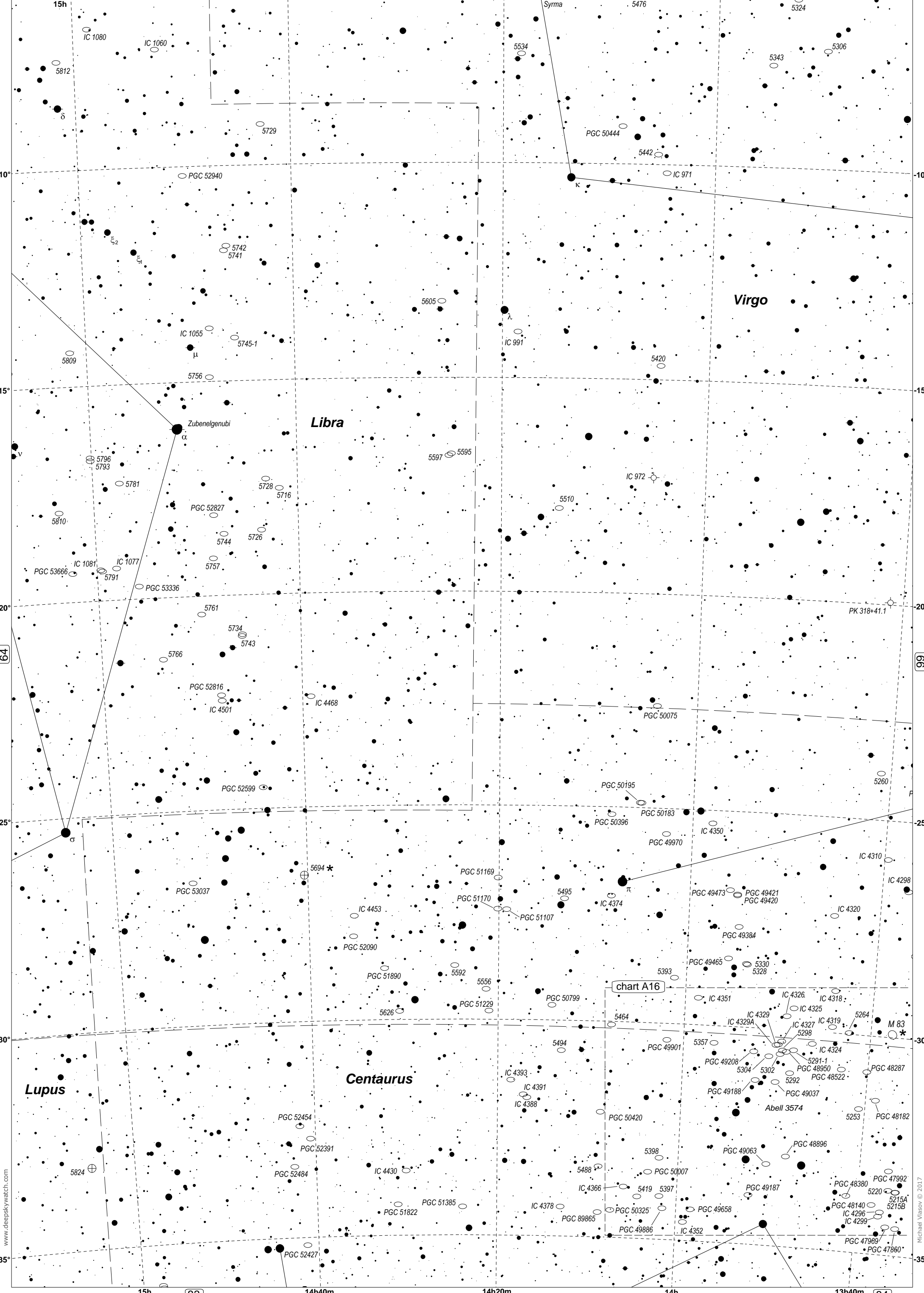
Pismis 24

Bochum 13

PK 343+11.1

6026





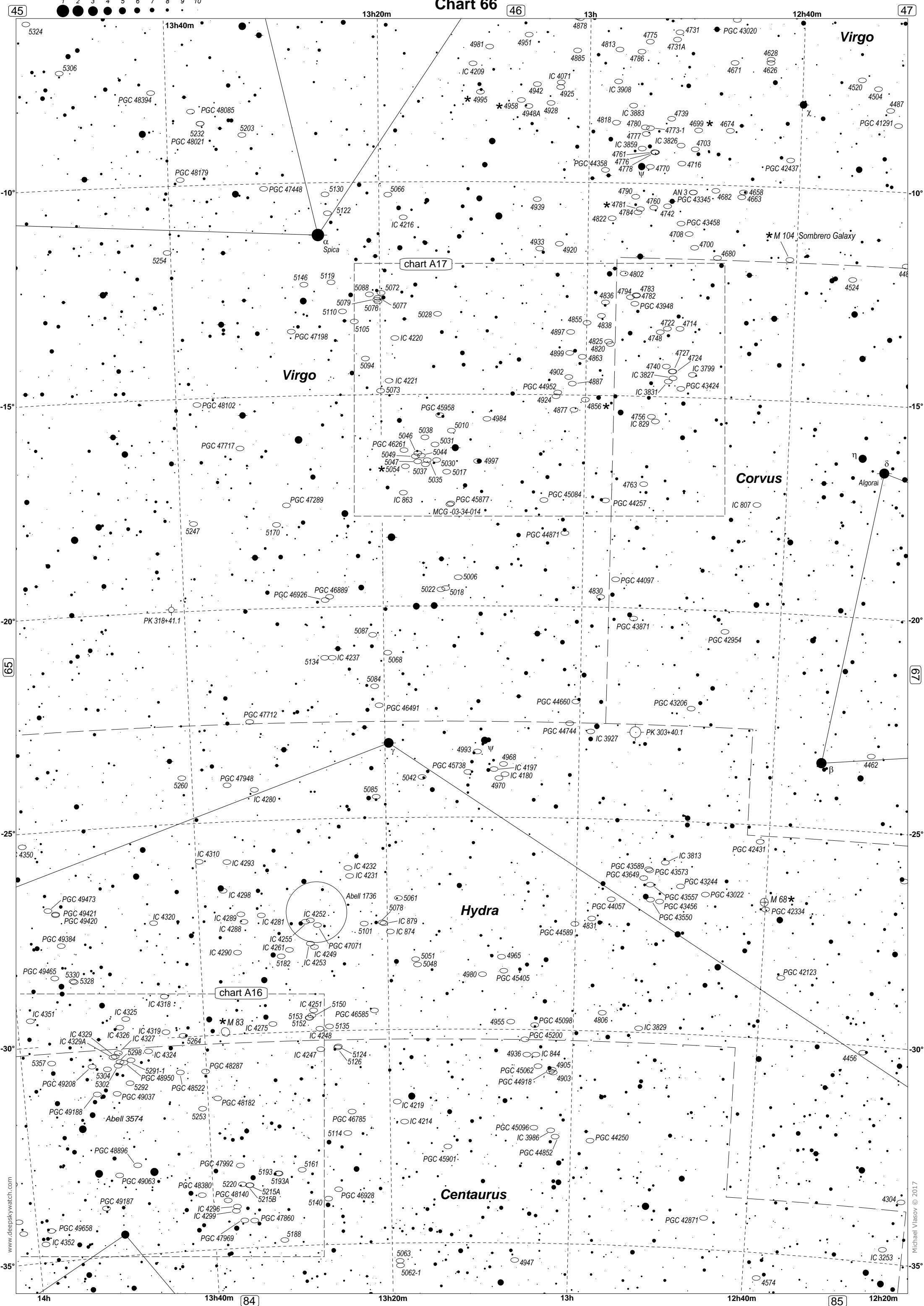


chart A16

chart A17

Virgo

Virgo

Corvus

Hydra

Centaurus

α Spica

\* M 104 Sombrero Galaxy

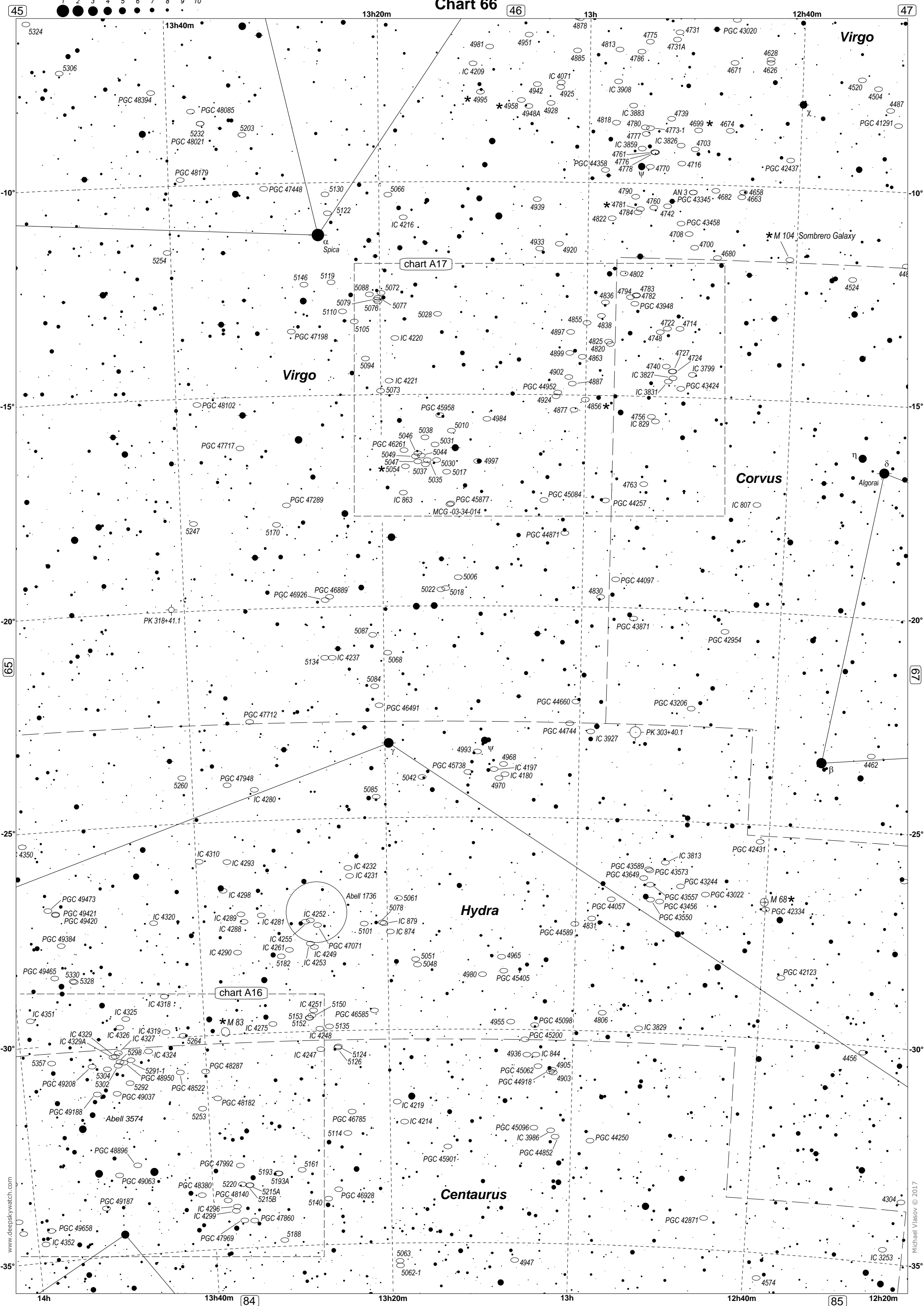
η δ

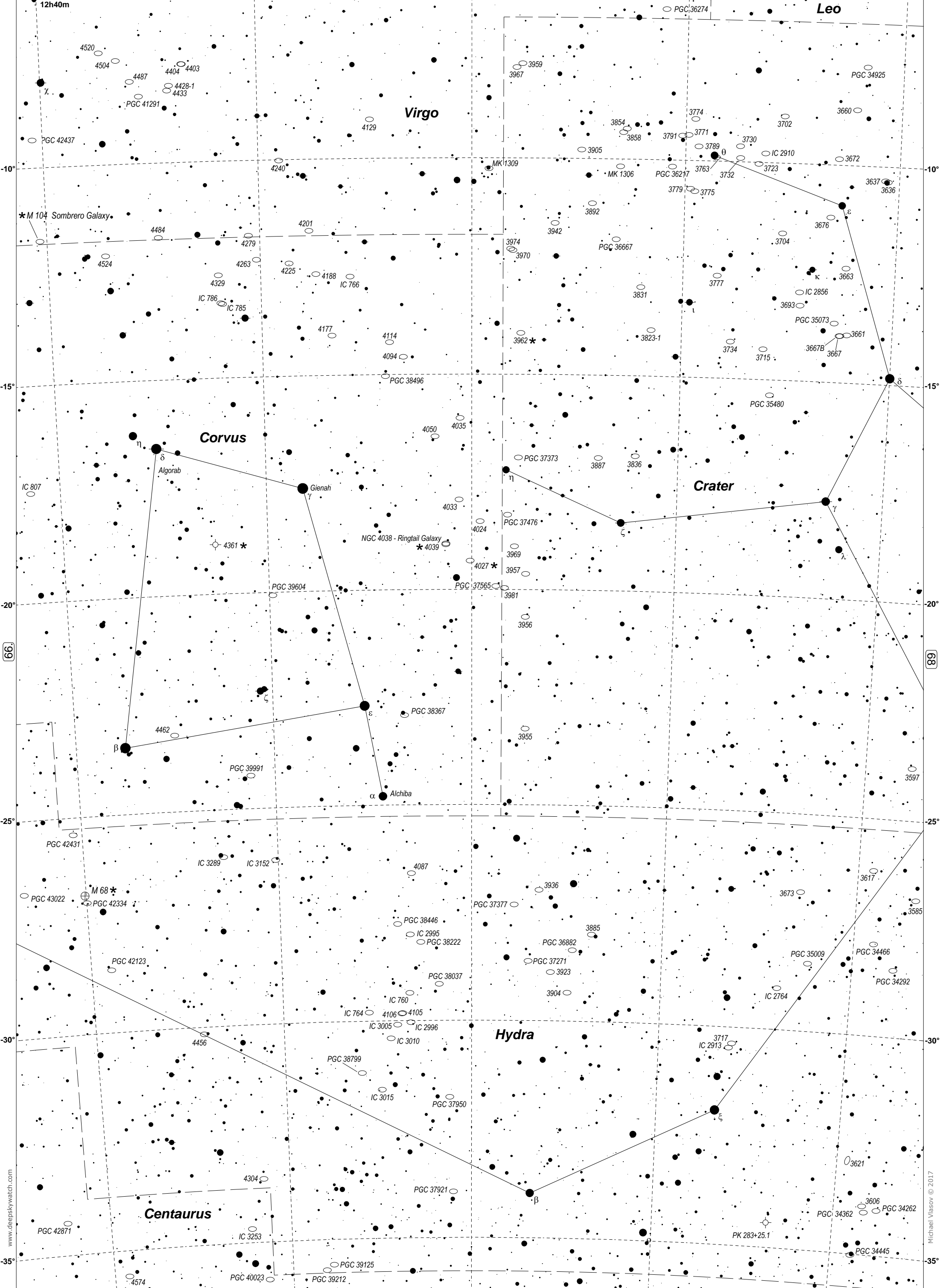
Algol

M 83

IC 4252

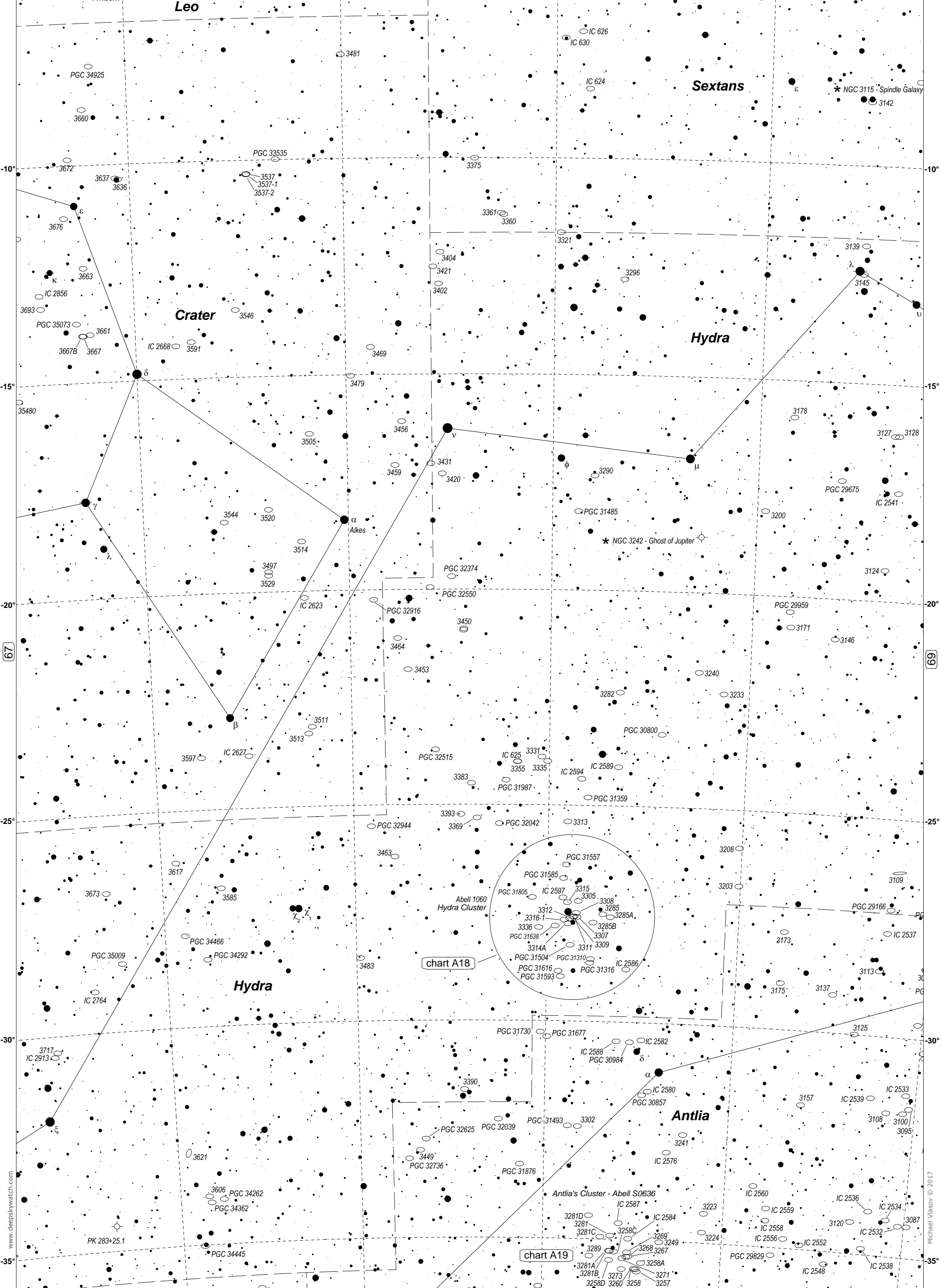
IC 4252





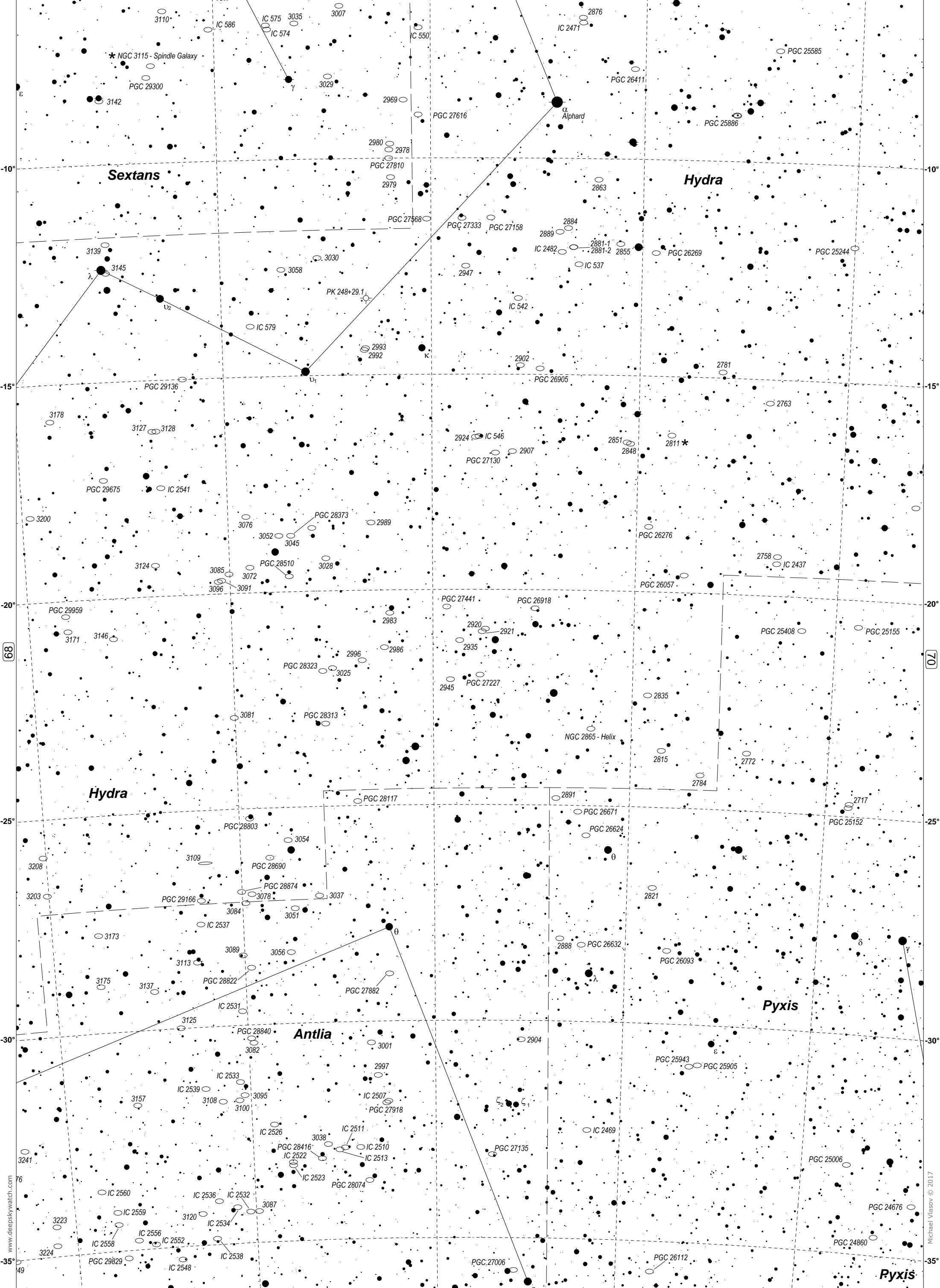
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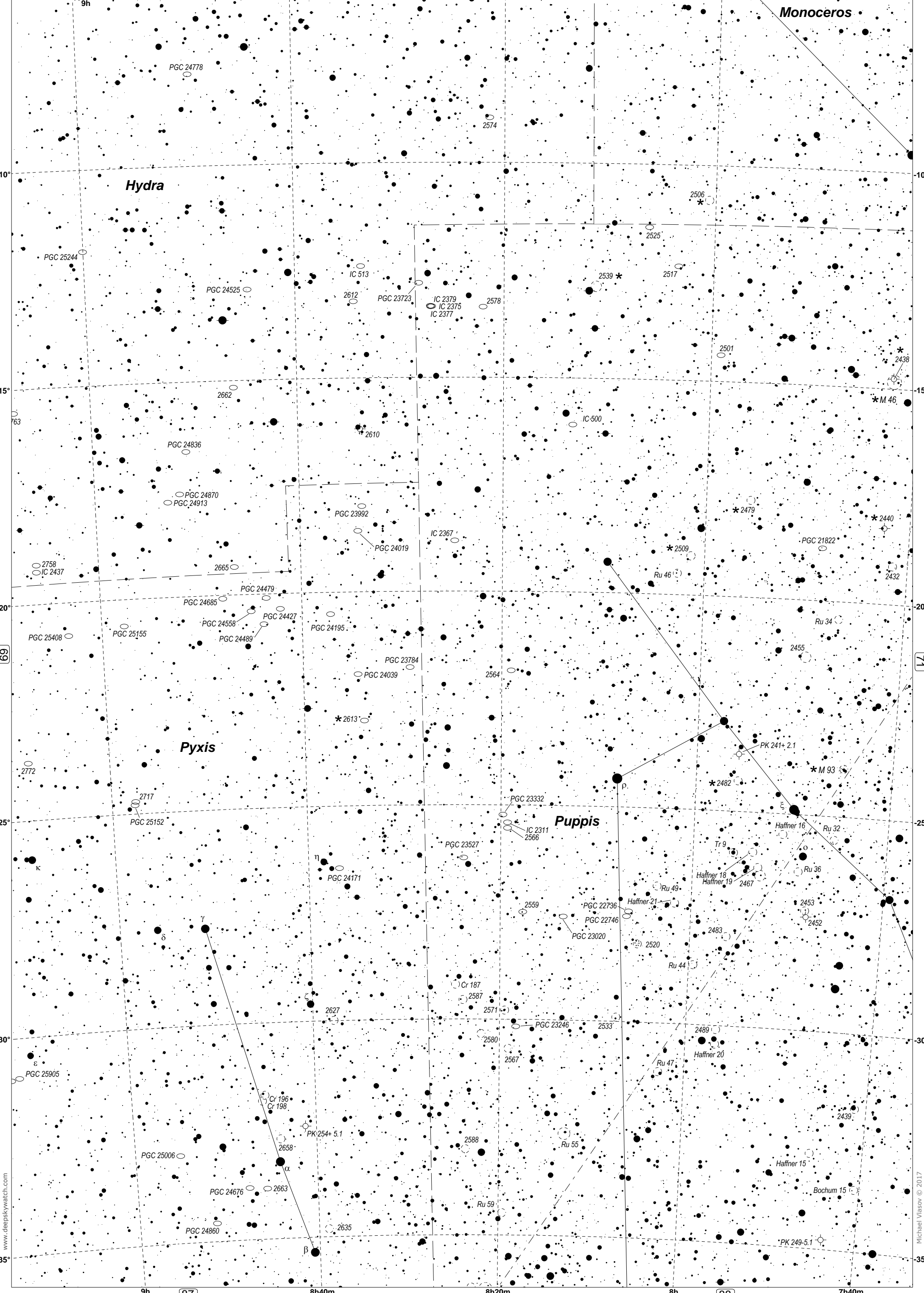


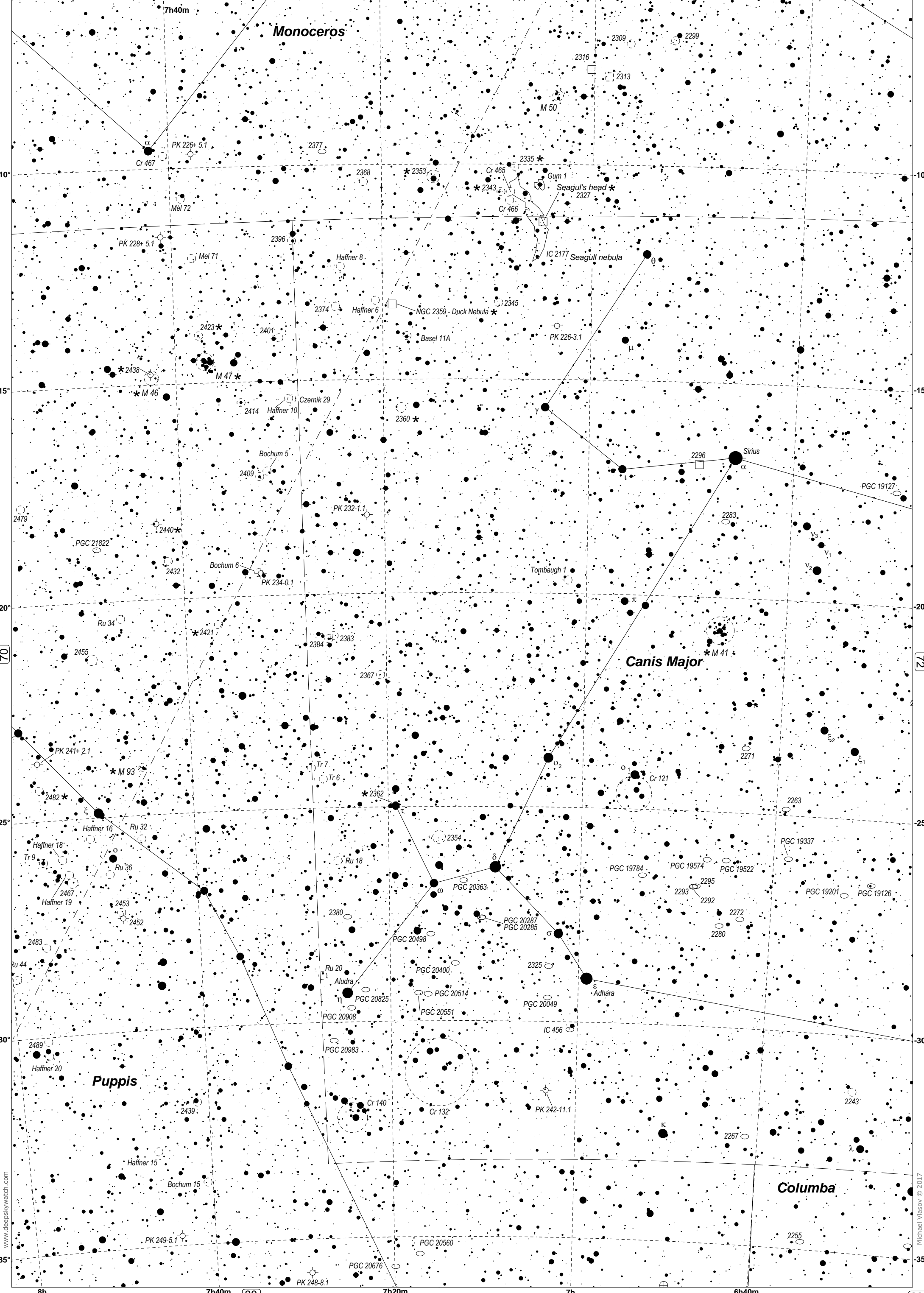
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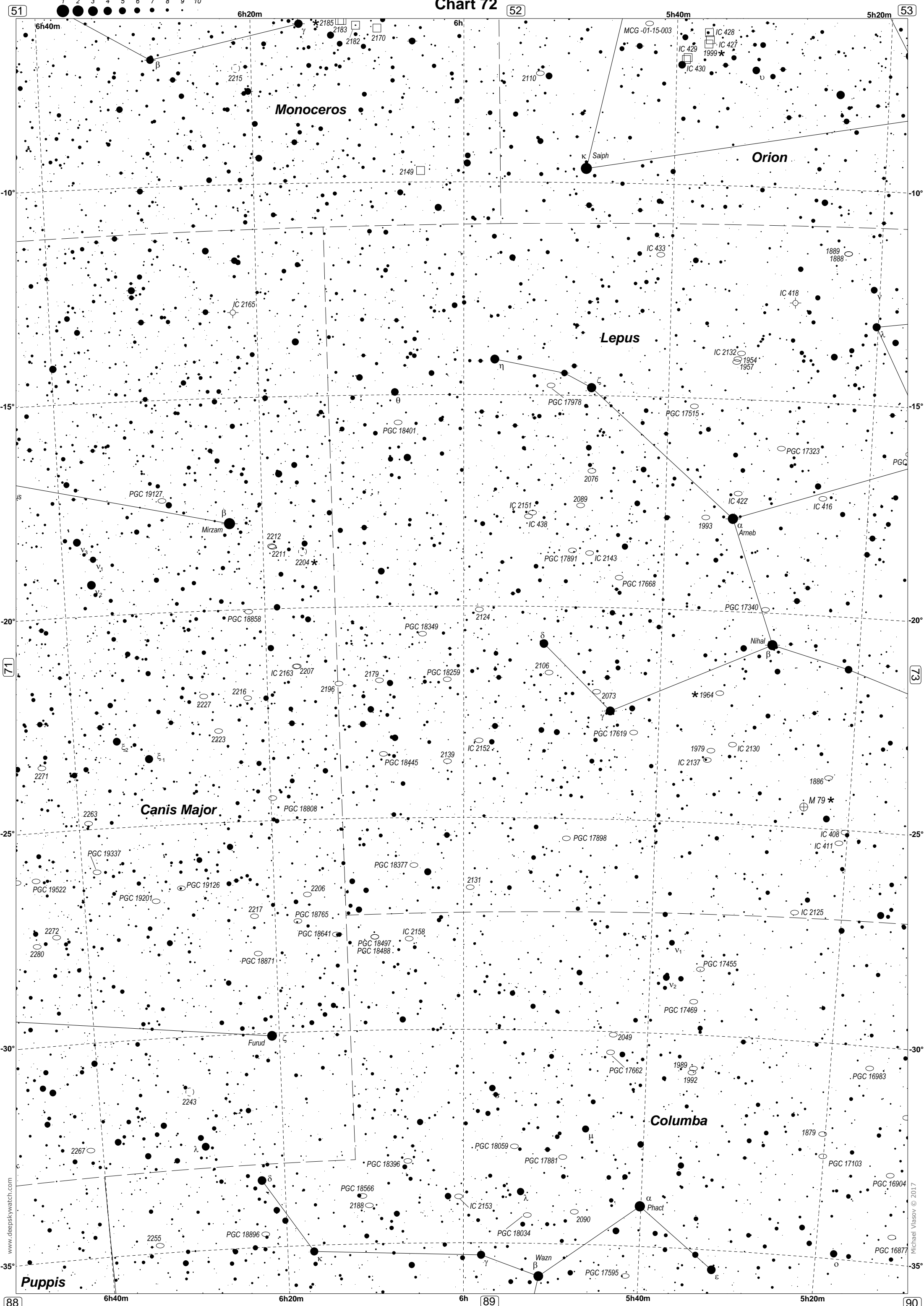


Chart 72

51

52

53

-10

-10

-15

-15

-20

-20

-25

-25

-30

-30

-35

-35

88

89

90

Monoceros

Orion

Lepus

Canis Major

Columba

Puppis

6h20m

5h40m

5h20m

6h40m

6h

6h40m

6h20m

6h

5h40m

5h20m

2185

2183

2182

2170

2215

2110

MCG -01-15-003

IC 428

IC 427

IC 429

1999\*

IC 430

2149

κ Saiph

u

1889

1888

IC 2165

IC 433

IC 418

IC 2132

1954

1957

PGC 19127

β Mirzam

2212

2211

2204\*

PGC 17978

PGC 17515

PGC 17323

PGC

IC 2151

IC 438

IC 422

IC 416

γ<sub>2</sub>

γ<sub>1</sub>

γ<sub>2</sub>

PGC 18858

PGC 18349

2124

PGC 17340

β Nihal

IC 2163

2207

2179

PGC 18259

2106

2073

\*1964

1979

IC 2137

IC 2130

1886

M 79\*

IC 408

IC 411

ε<sub>2</sub>

ε<sub>1</sub>

2271

PGC 18808

PGC 18377

2131

PGC 17898

IC 2125

PGC 19522

PGC 19337

PGC 19201

PGC 19126

2217

PGC 18765

PGC 18641

PGC 18497

PGC 18488

IC 2158

PGC 18871

PGC 17455

PGC 17469

PGC 17455

PGC 17469

PGC 17455

PGC 17469

PGC 17455

PGC 17469

PGC 17455

PGC 17469

PGC 17455

PGC 17469

PGC 17455

ζ Furud

2049

PGC 17662

1989

1992

PGC 16983

2243

PGC 18396

PGC 18059

PGC 17881

1879

PGC 17103

λ

PGC 18566

2188

IC 2153

PGC 18034

2090

α Phact

PGC 16904

PGC 16877

PGC 18896

κ

γ

β Wazn

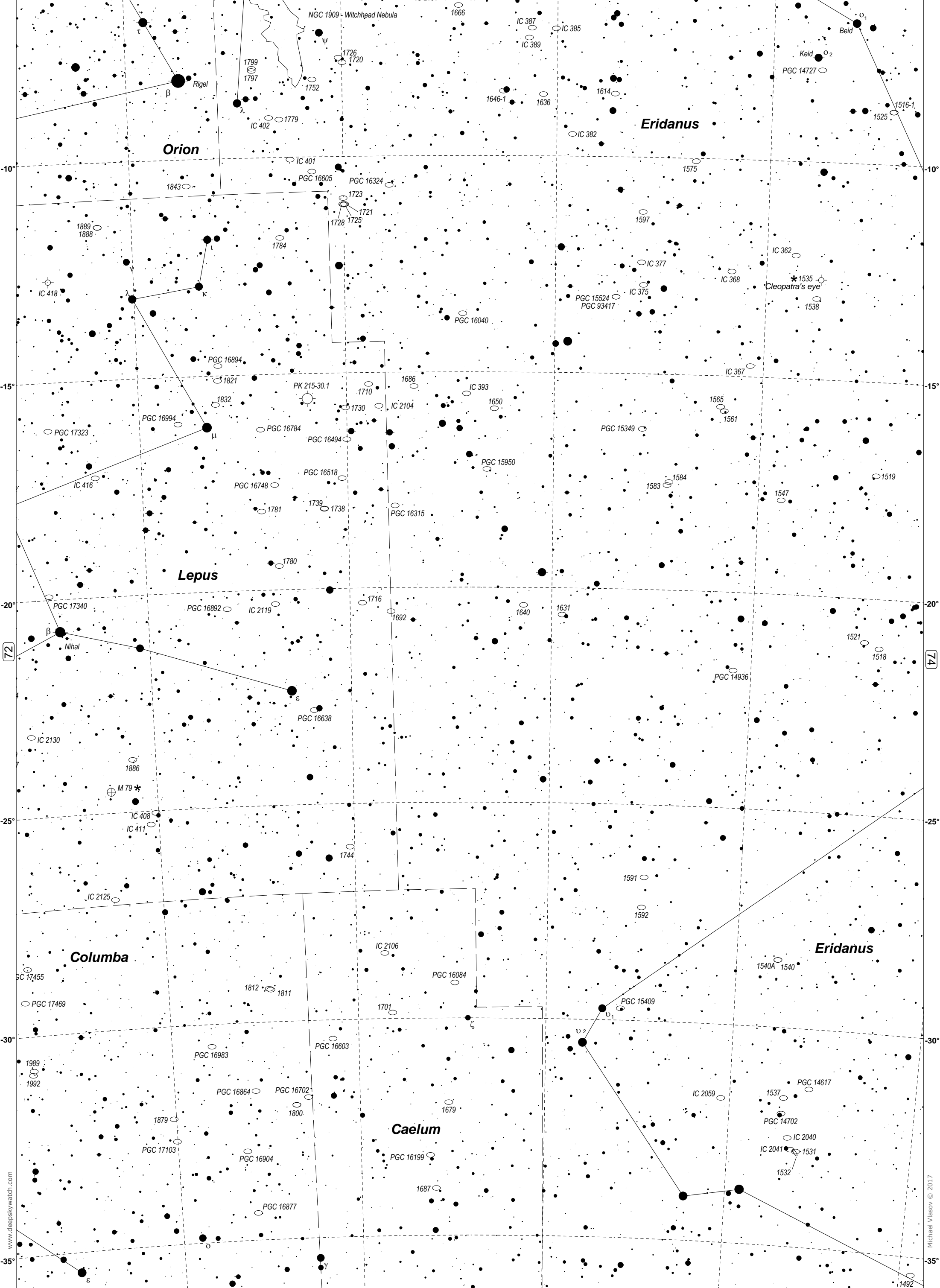
PGC 17595

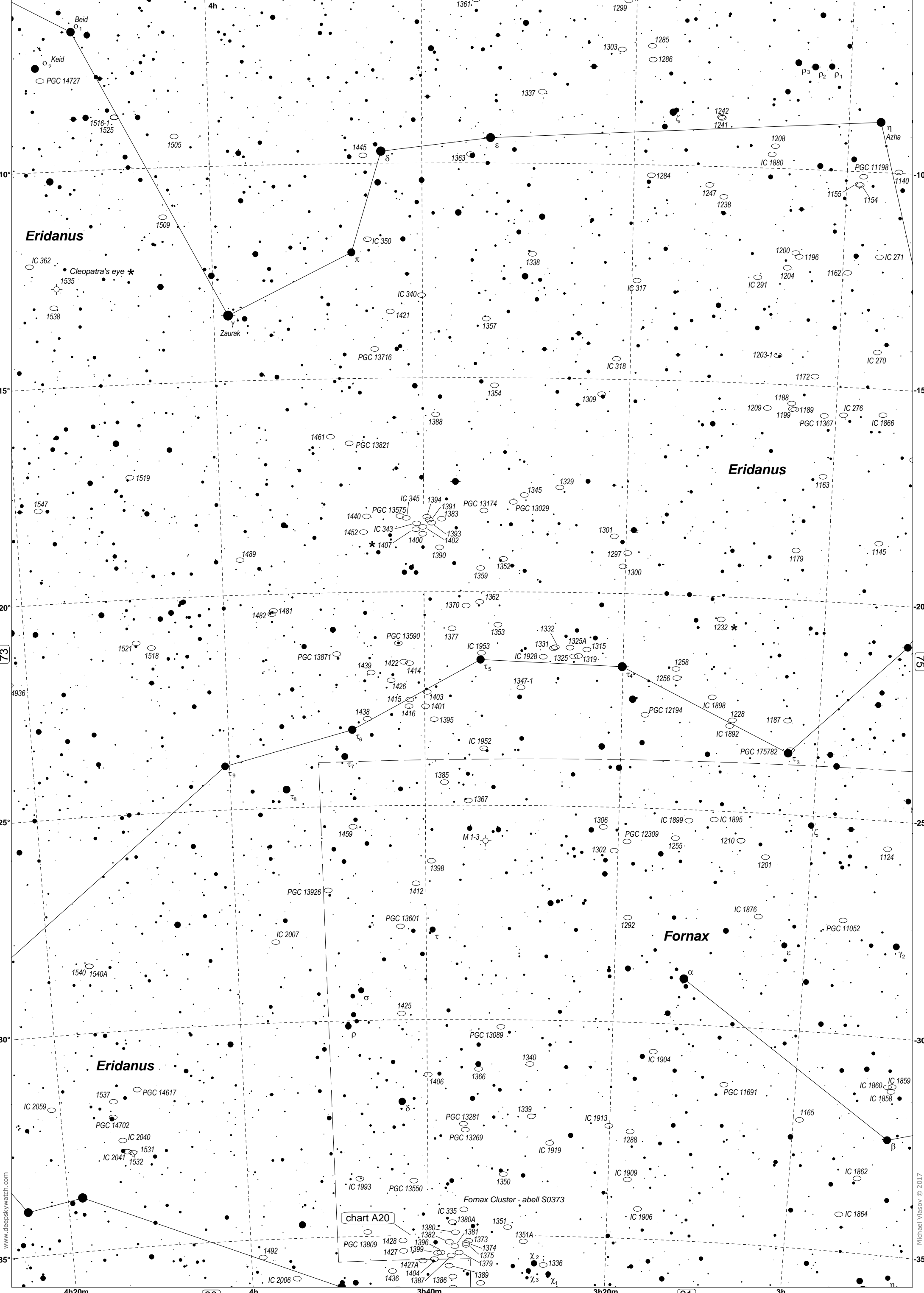
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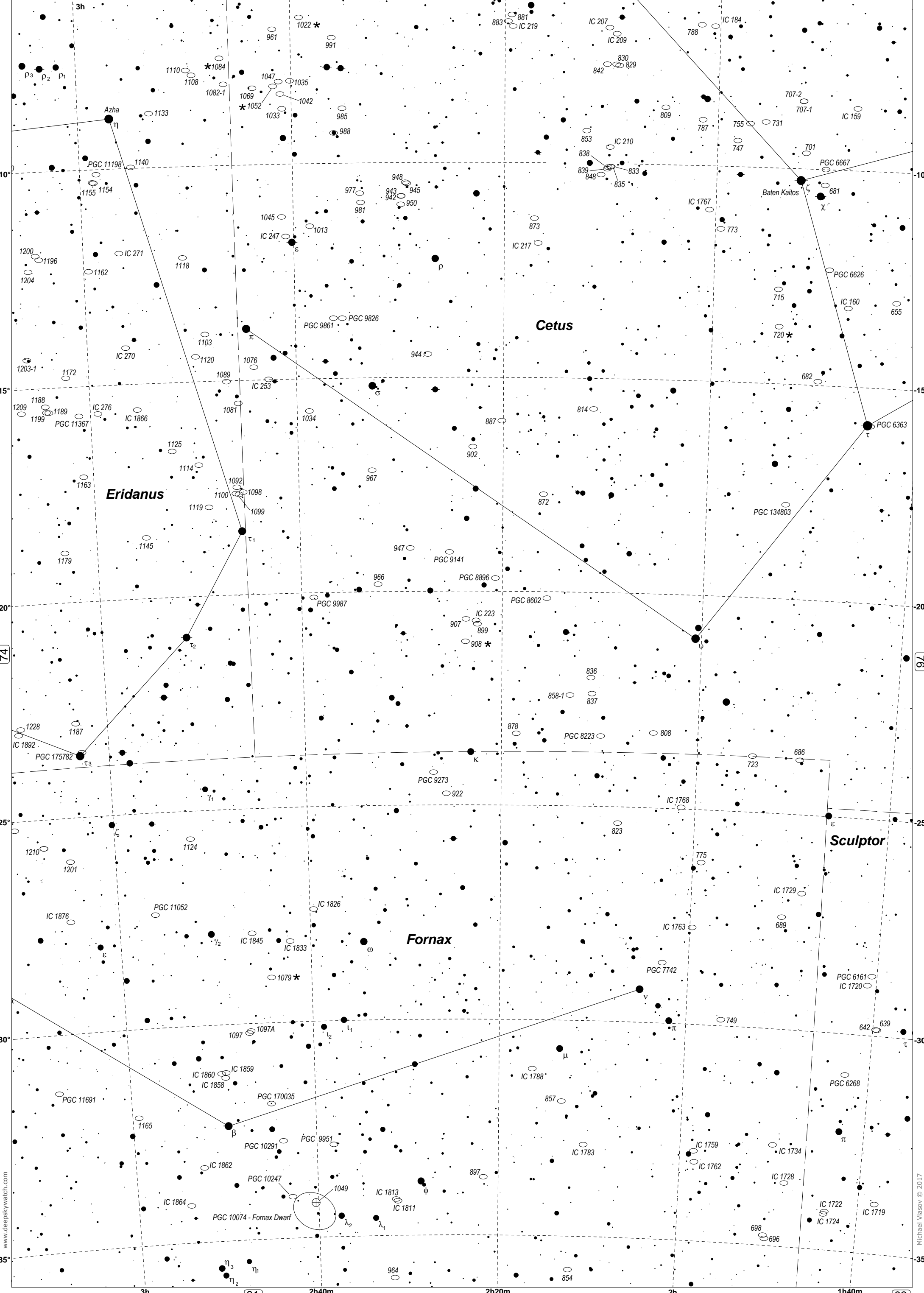
2255

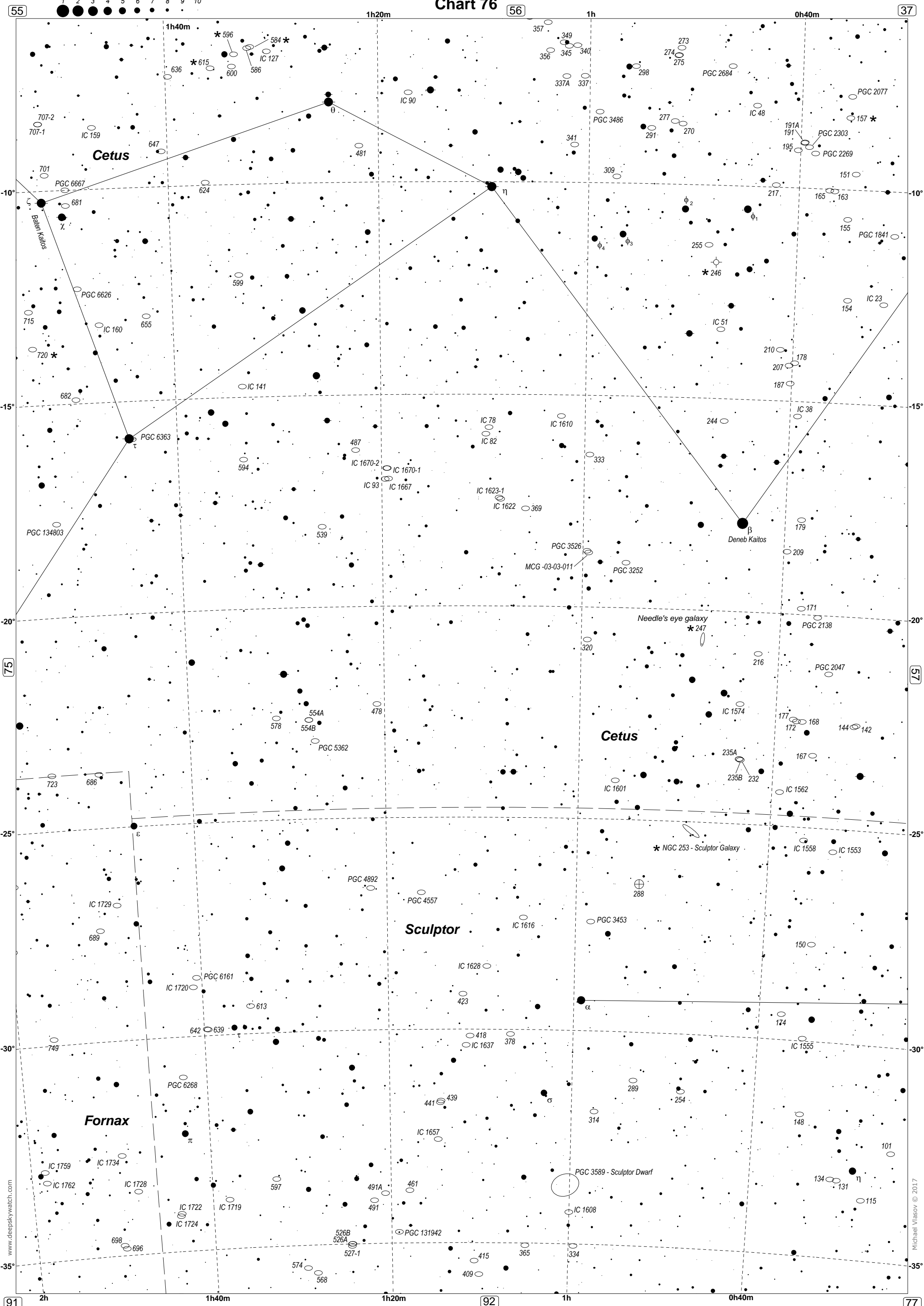
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**Cetus**

**Cetus**

**Sculptor**

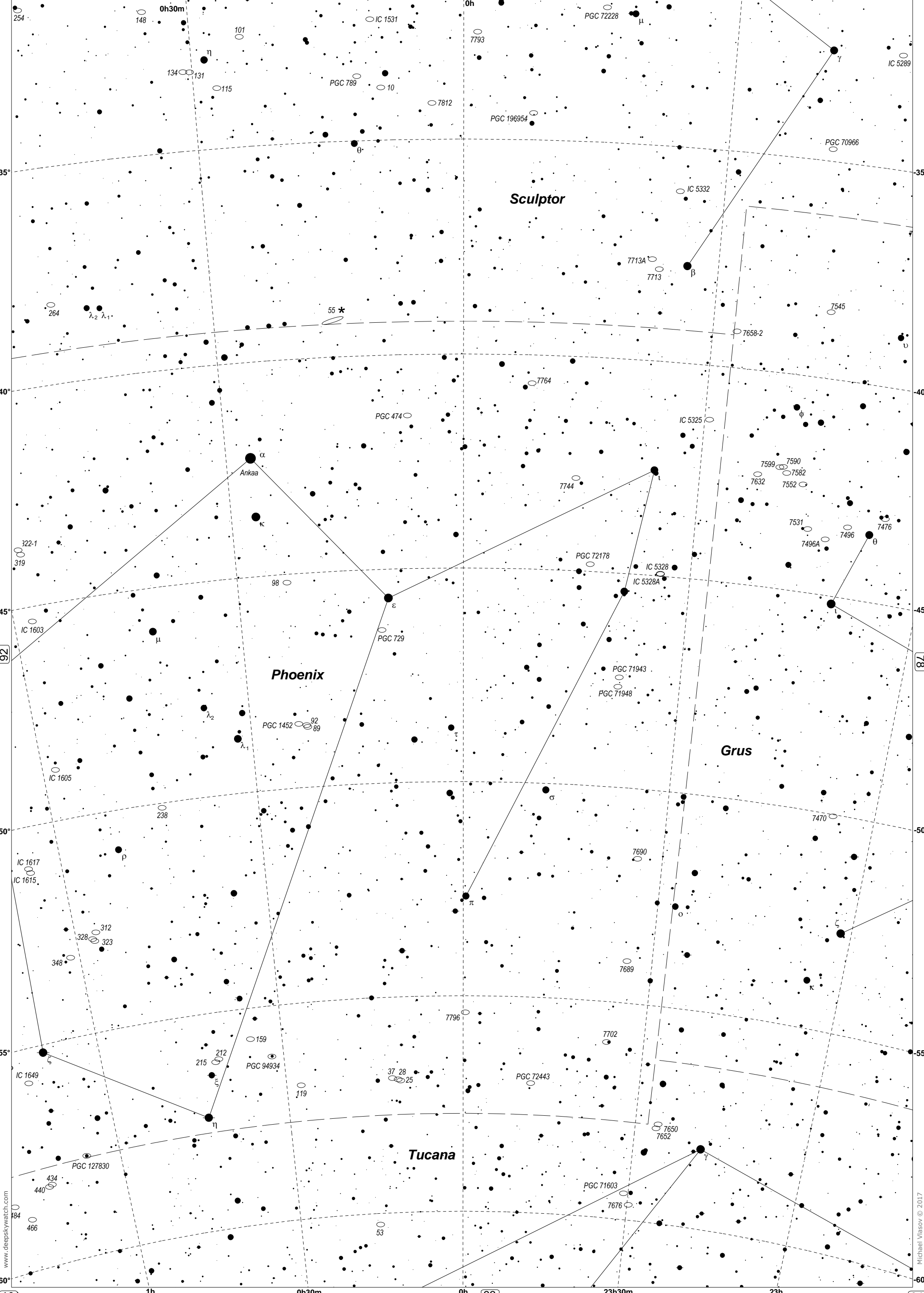
**Fornax**

Deneb Kaitos

Needle's eye galaxy

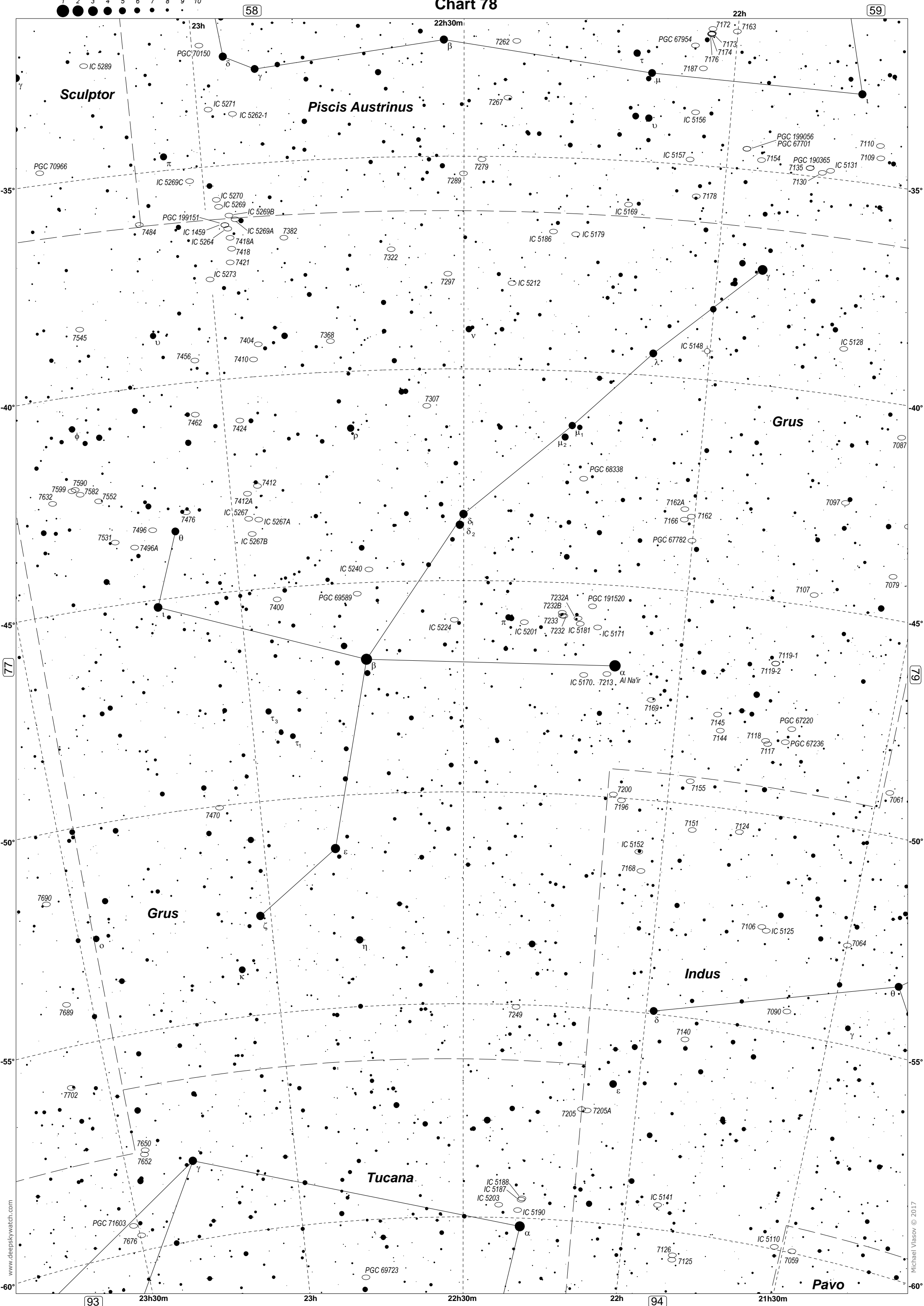
NGC 253 - Sculptor Galaxy

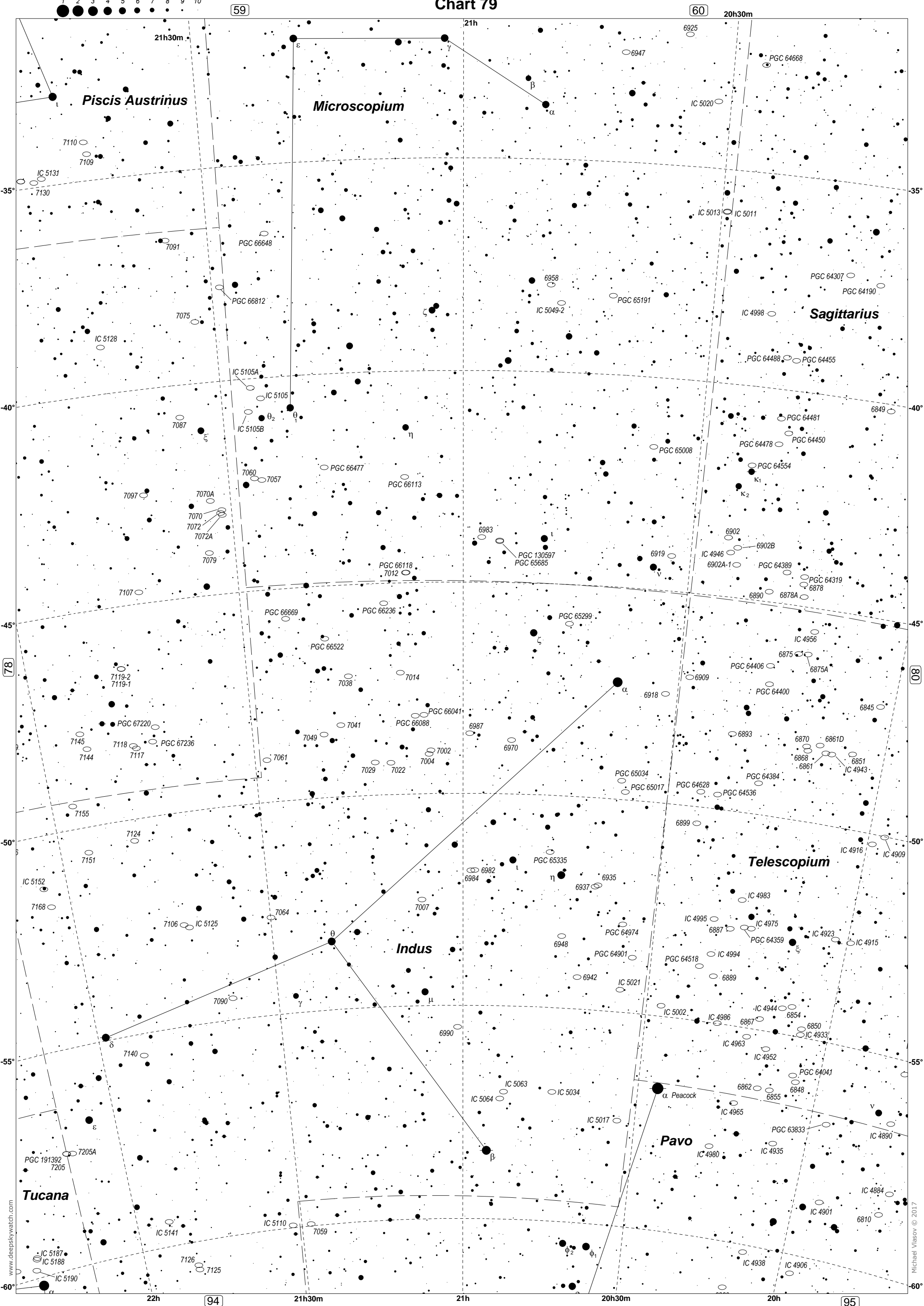
PGC 3589 - Sculptor Dwarf

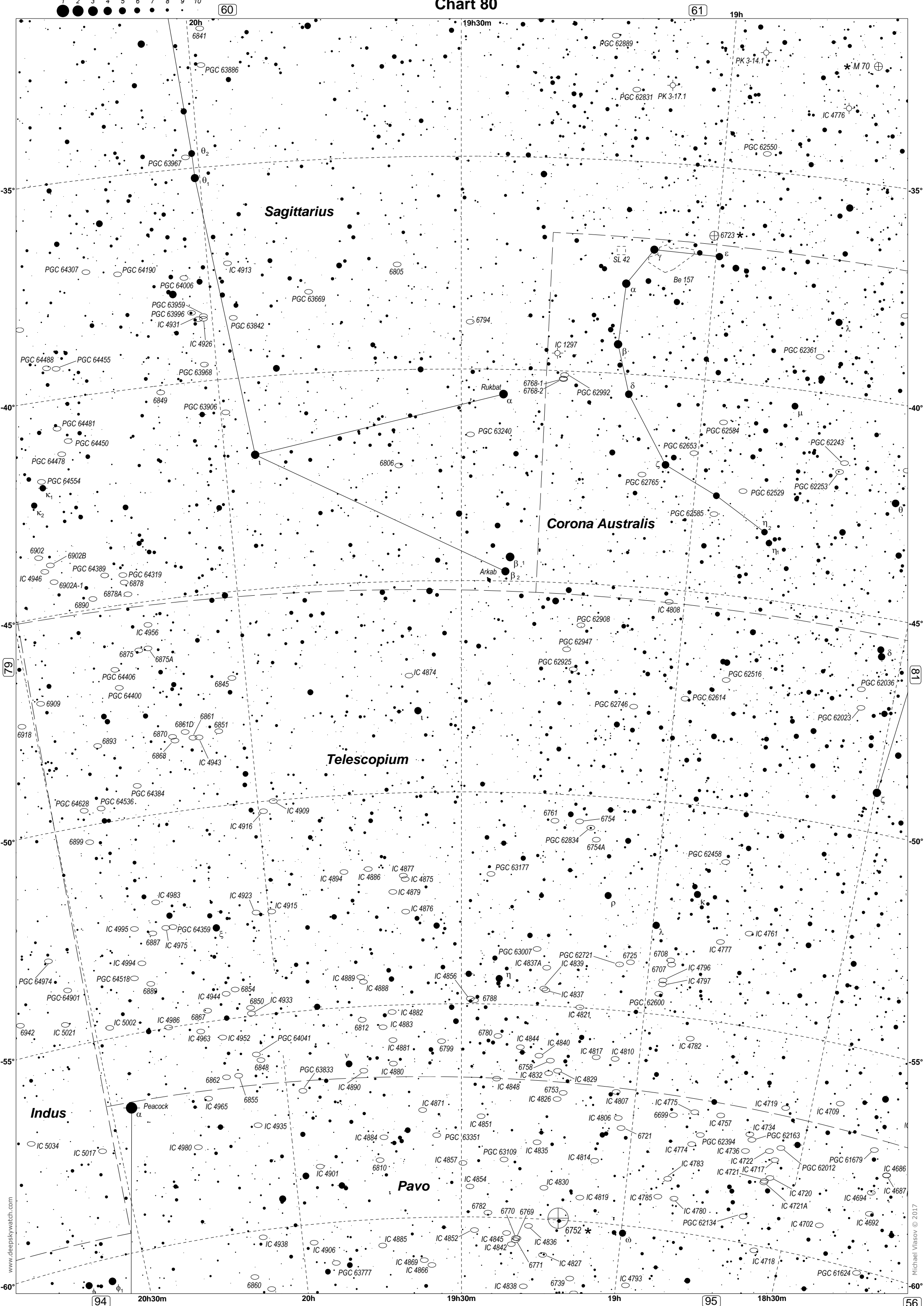


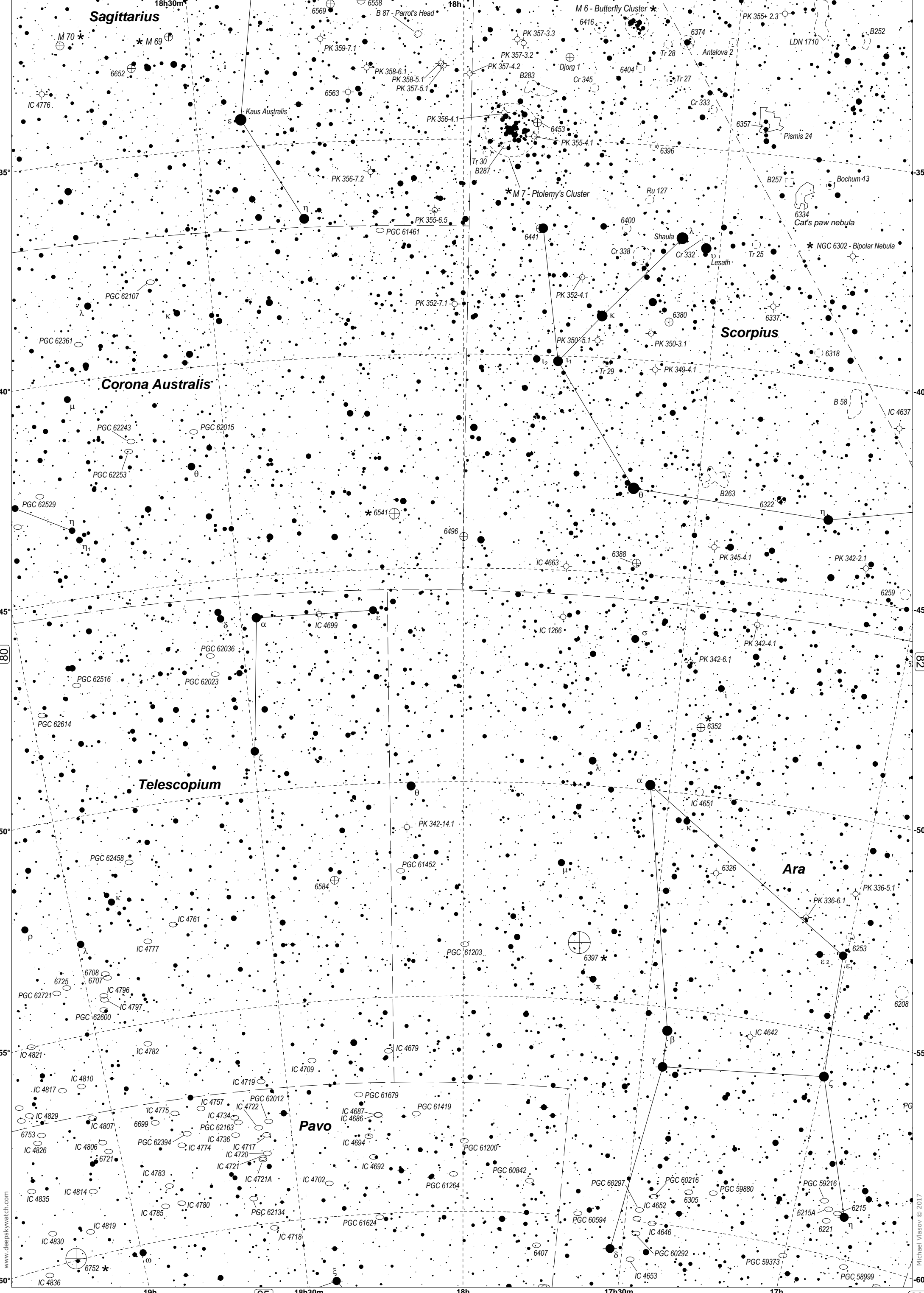


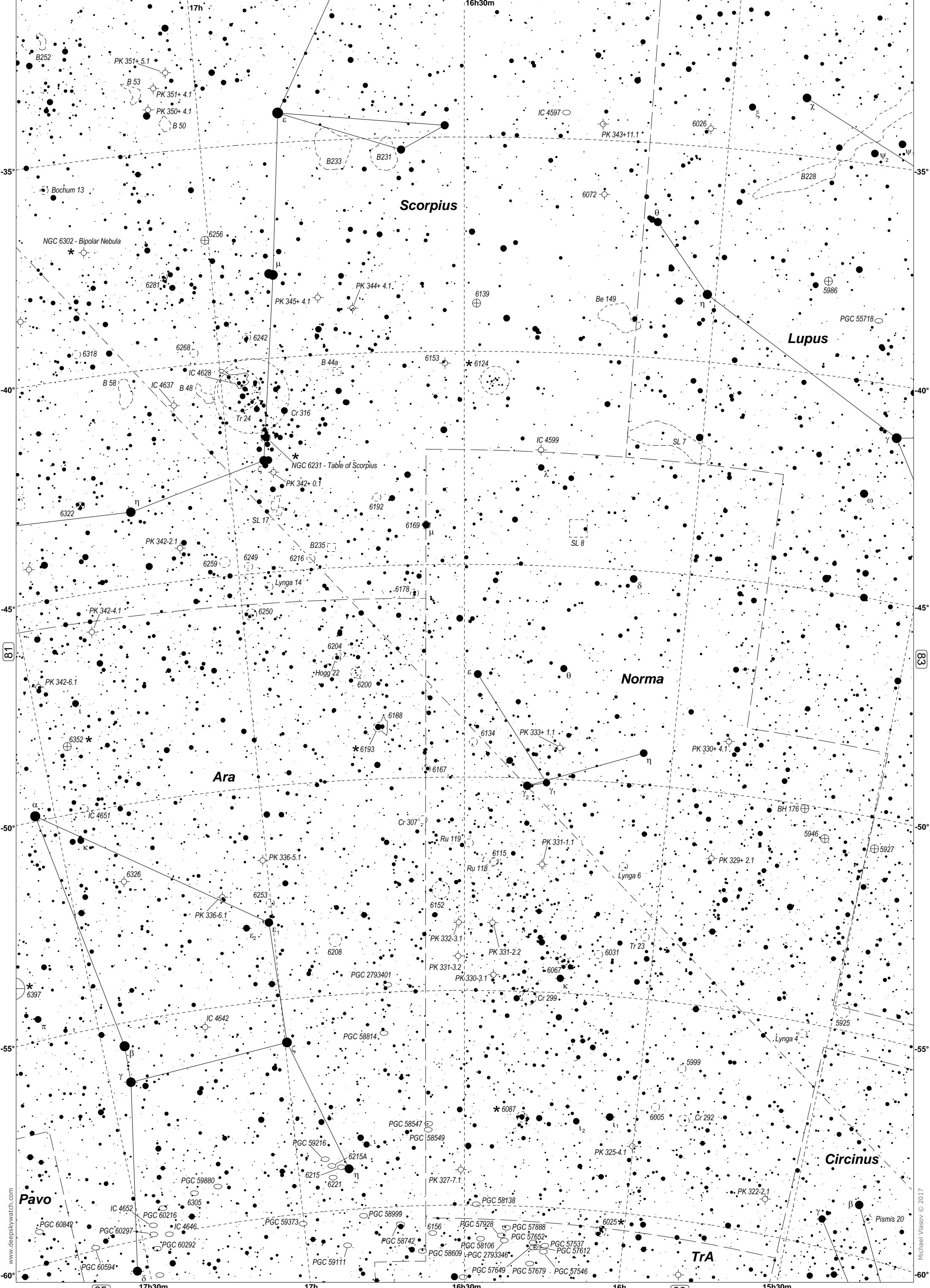
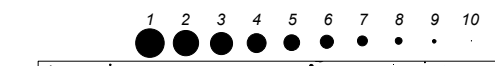
# Chart 78

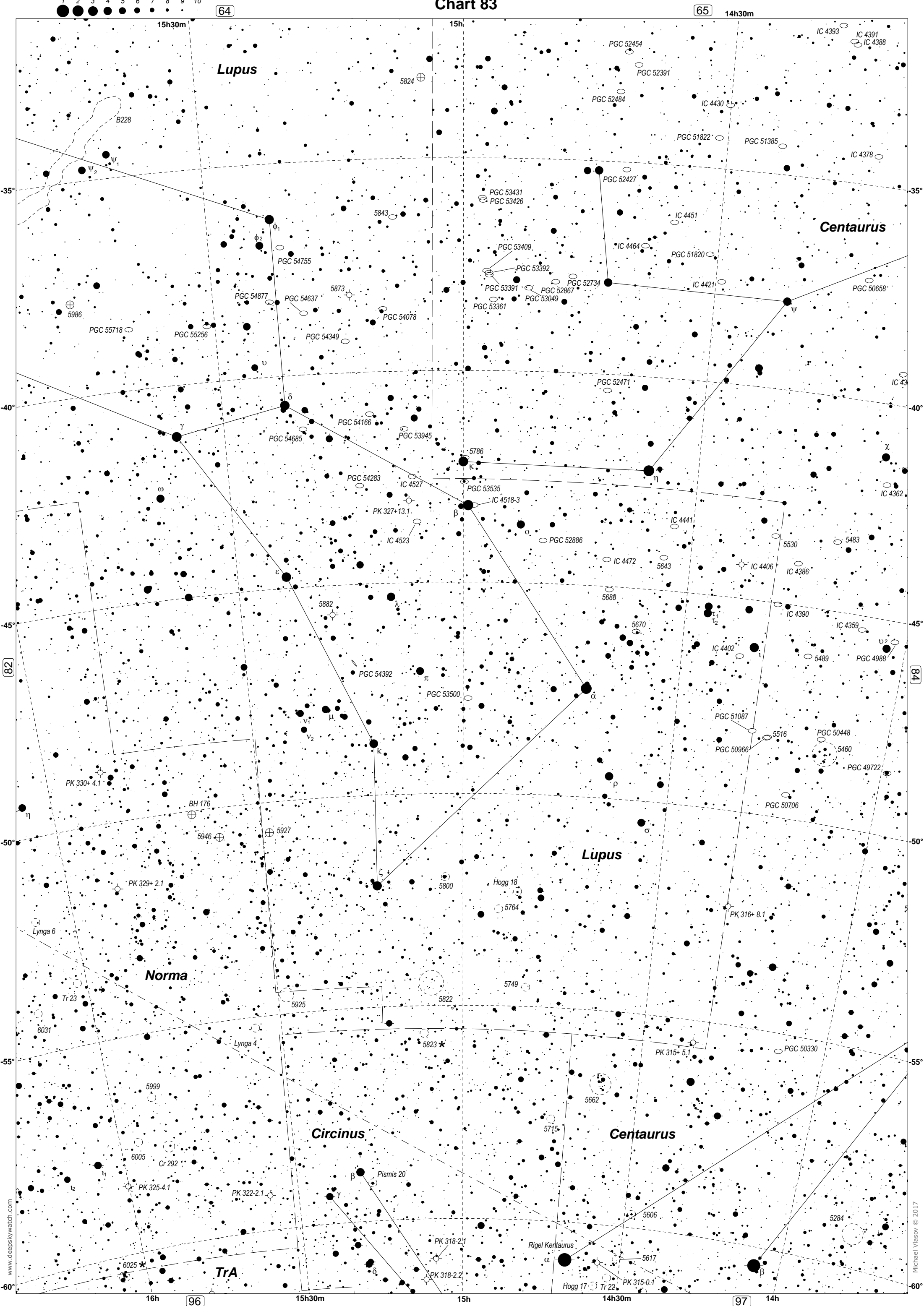


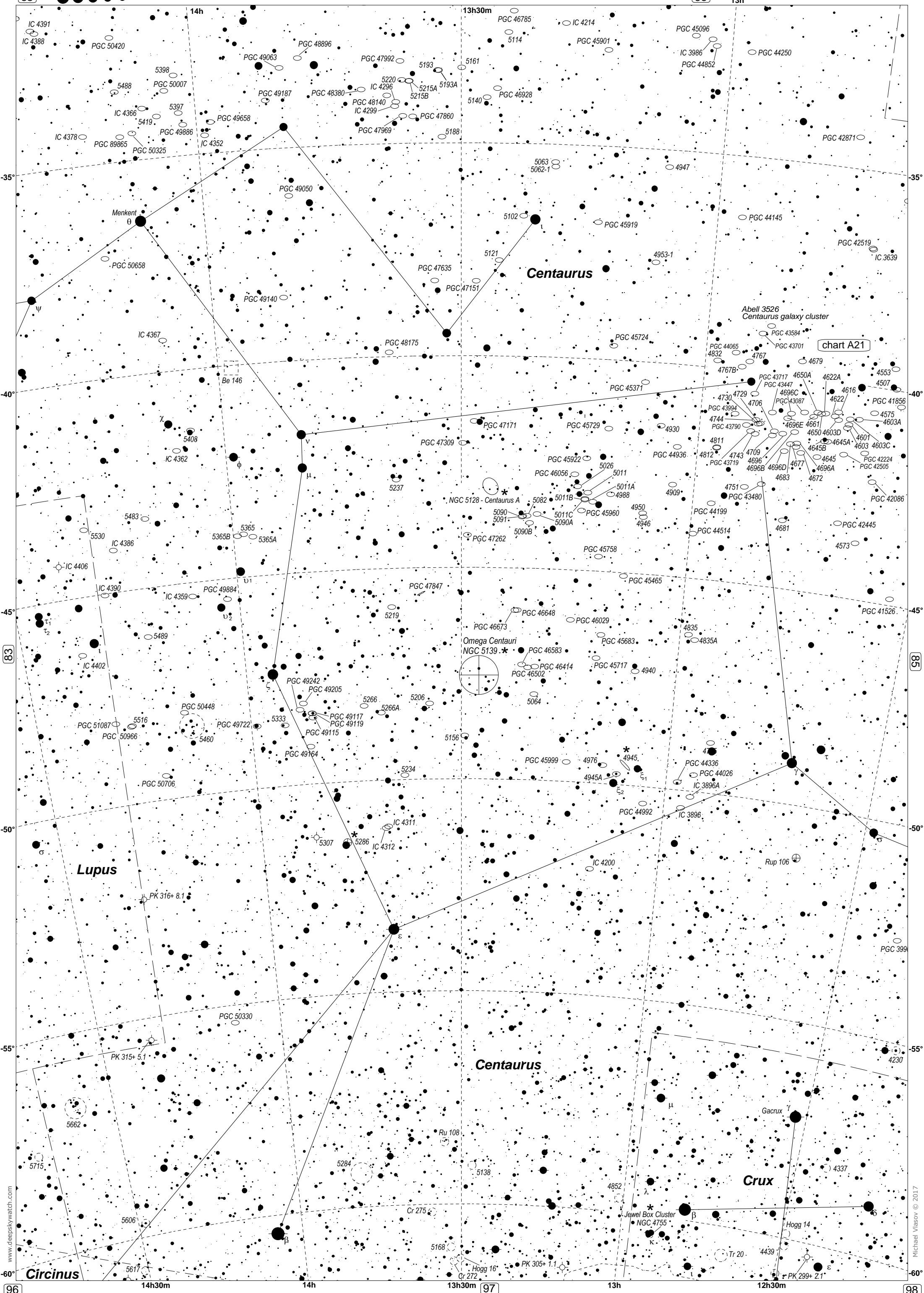












Centaurus

chart A21

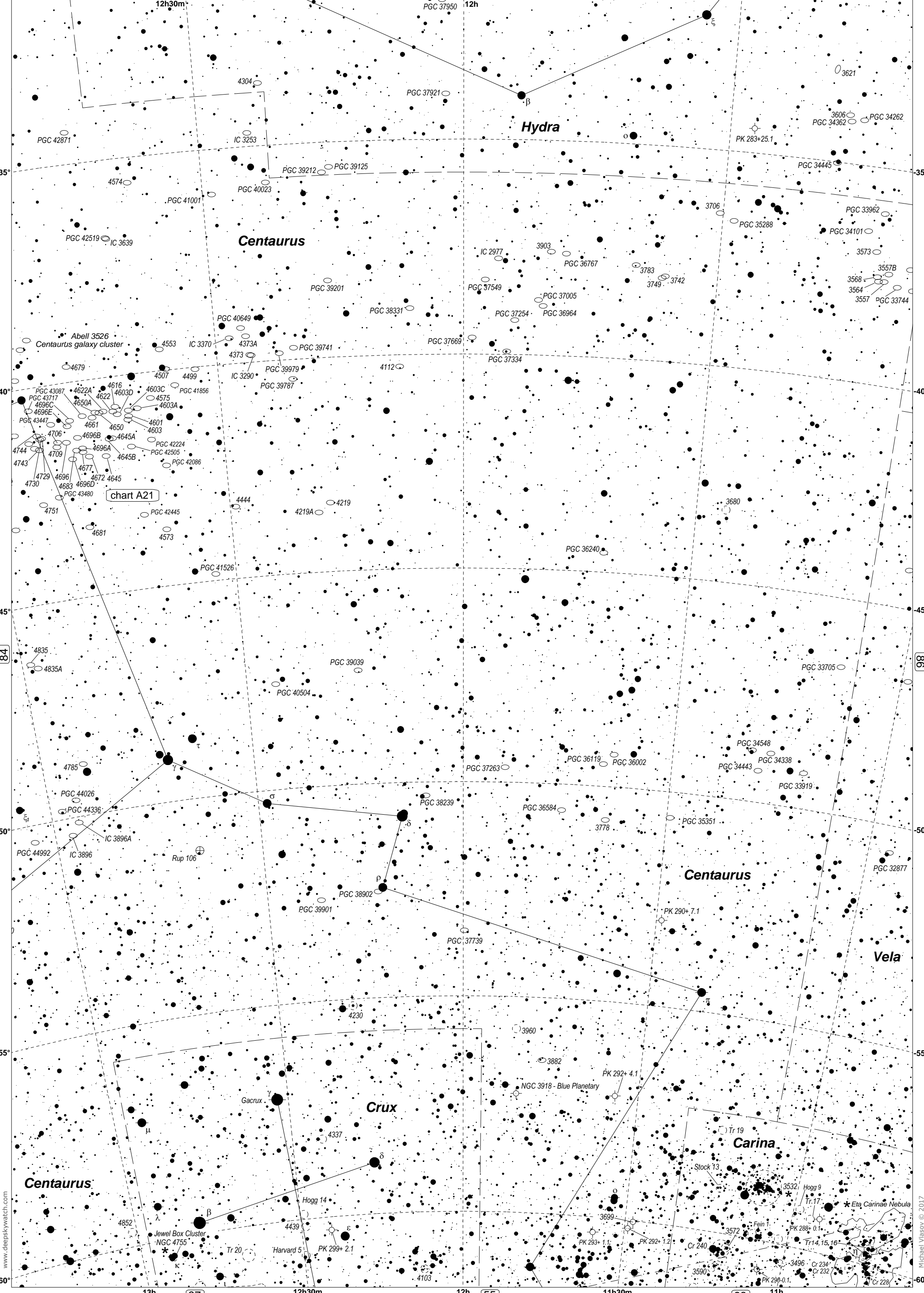
Omega Centauri  
NGC 5139

Lupus

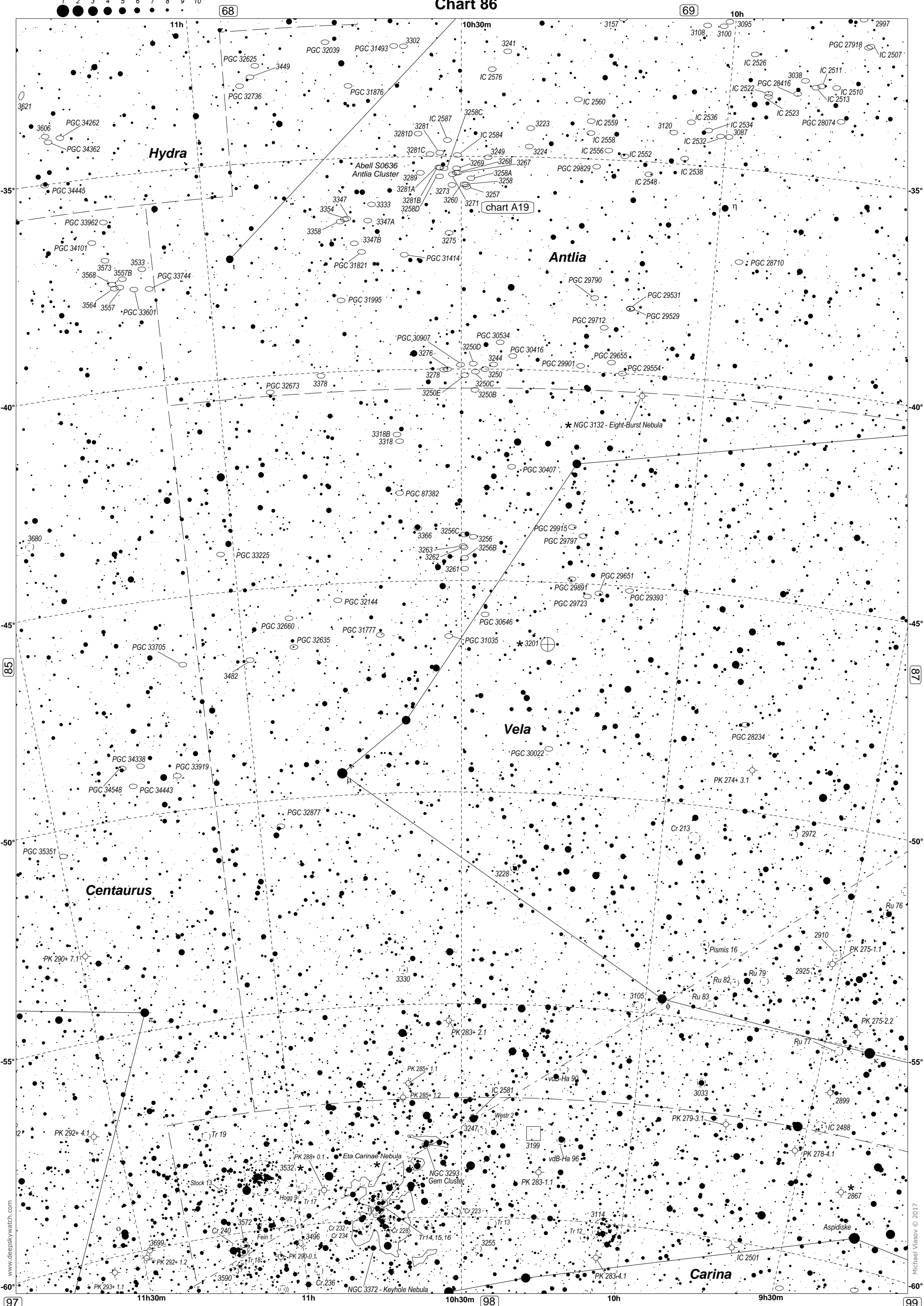
Centaurus

Crux

Circinus







Hydra

Antlia

Vela

Centaurus

Carina

chart A19

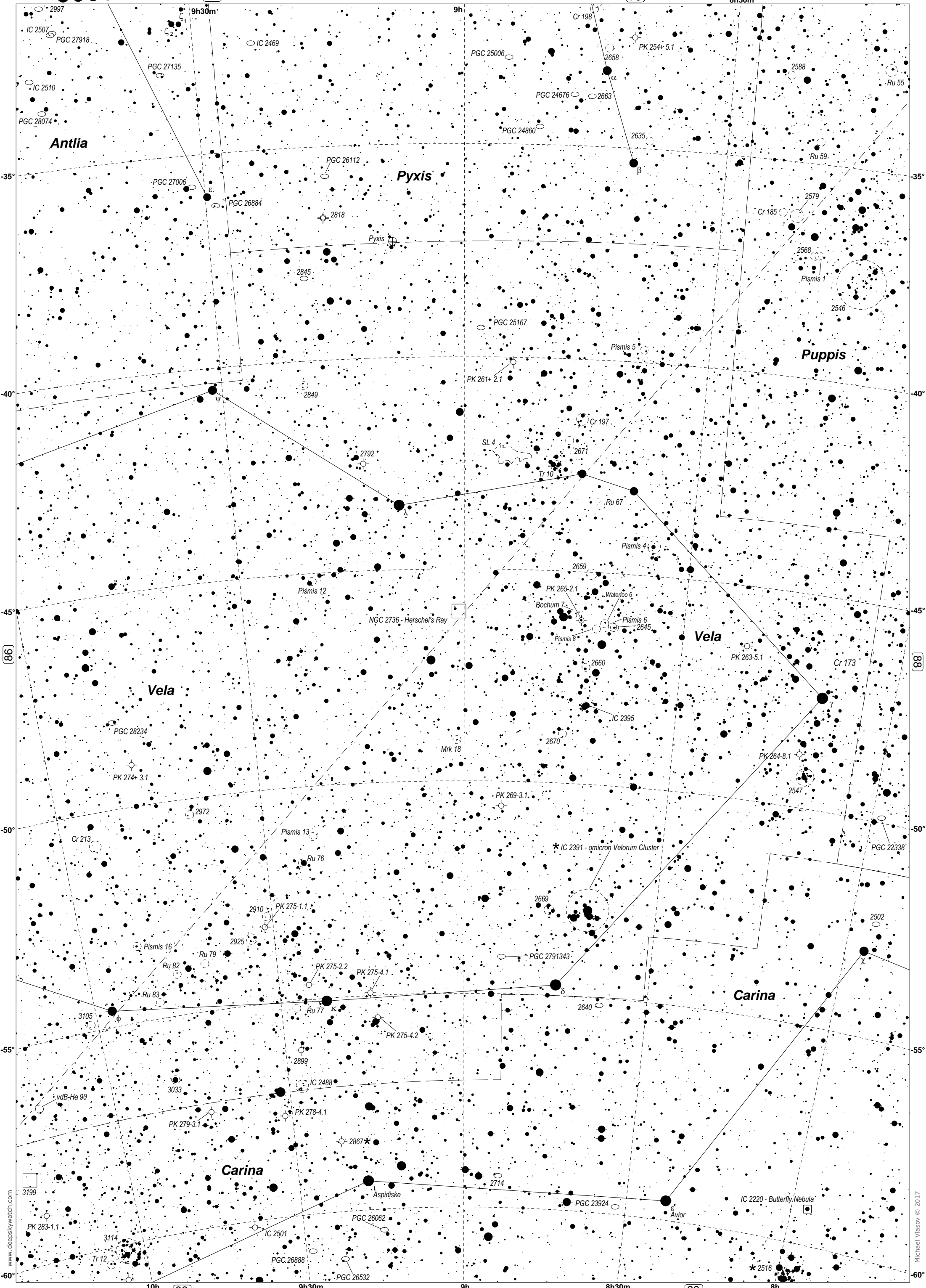
Abell S0636  
Antlia Cluster

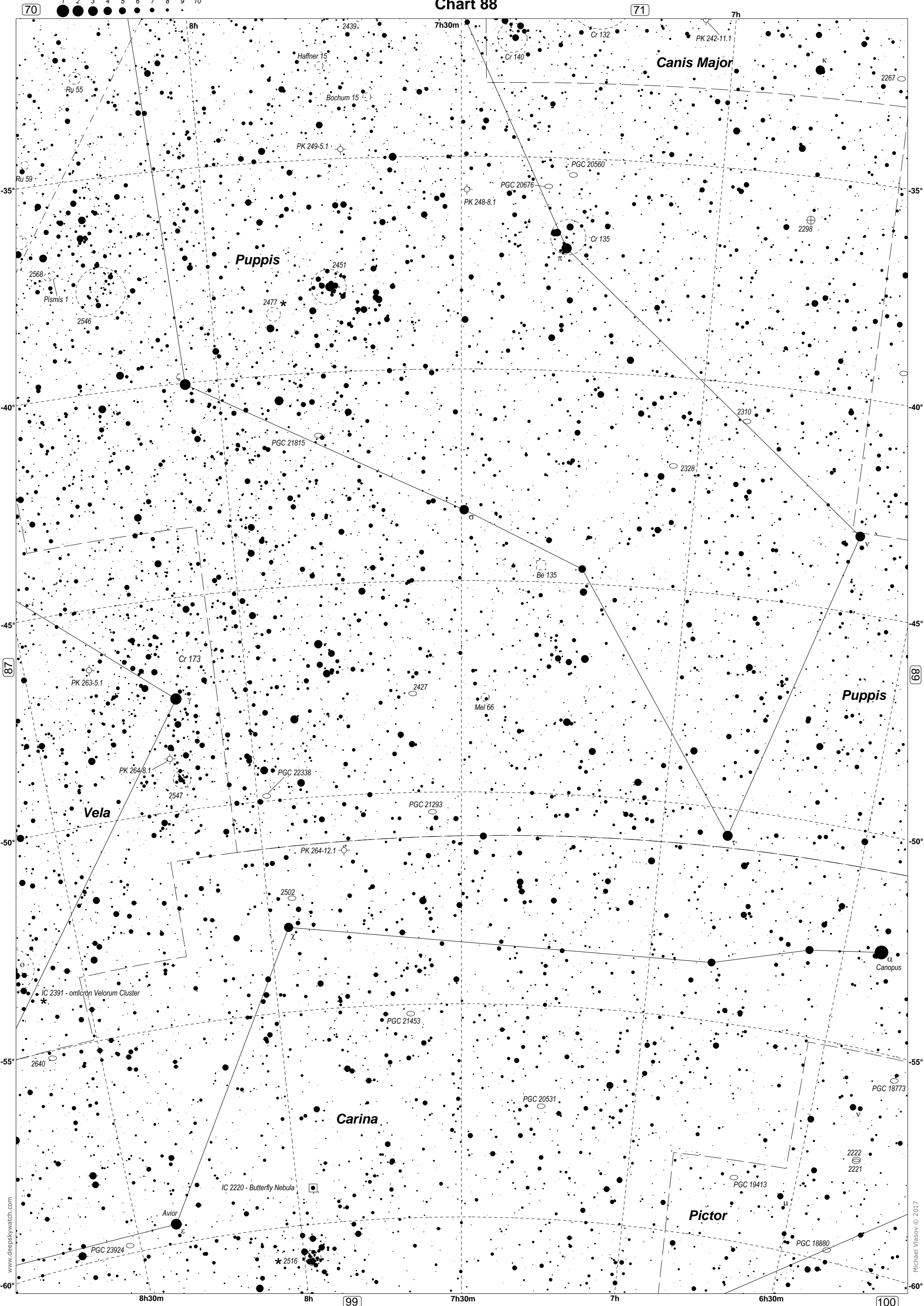
\* NGC 3132 - Eight-Burst Nebula

NGC 3293  
Gem Cluster

NGC 3372 - Keyhole Nebula

Eta Carinae Nebula





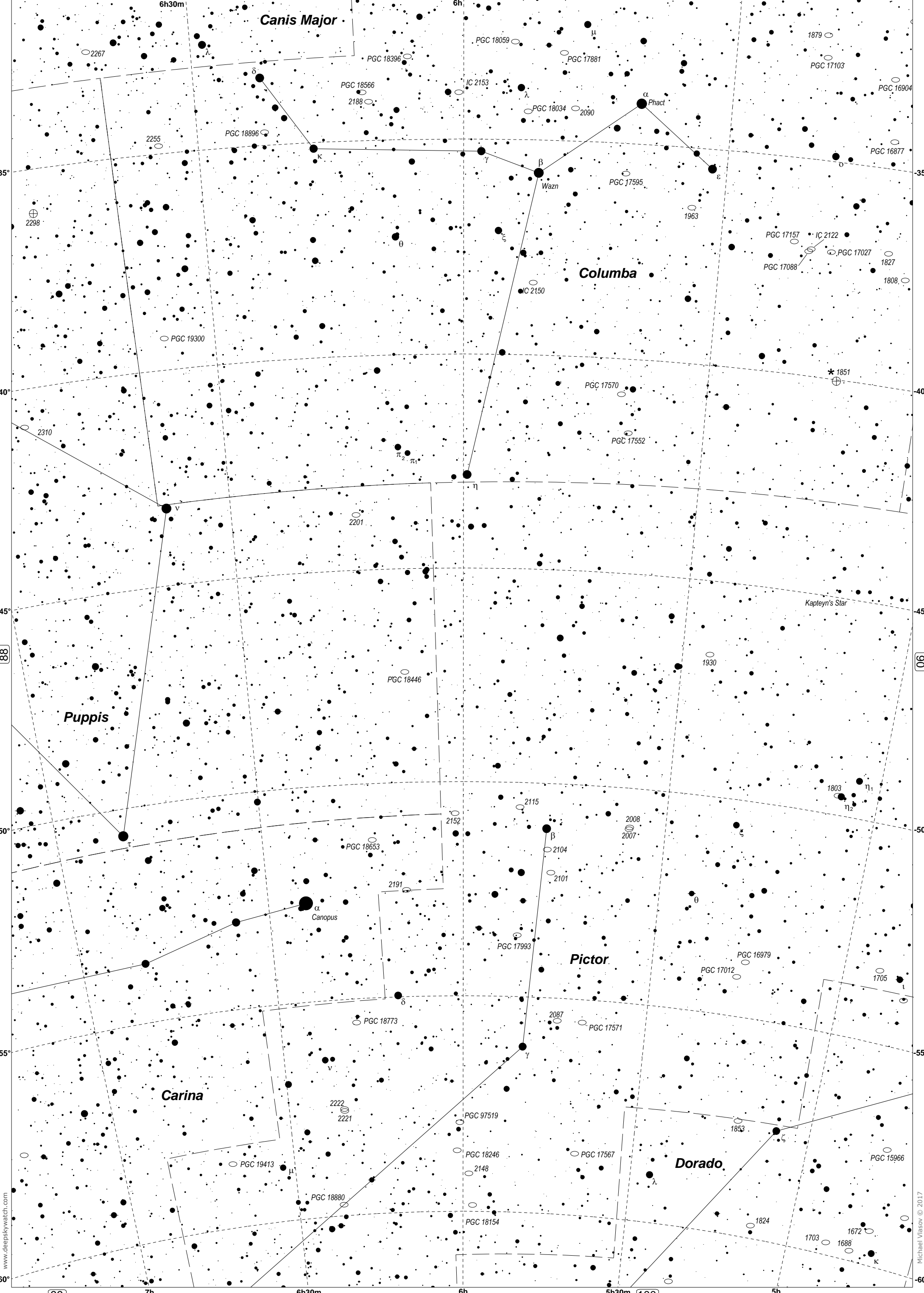


Chart 90

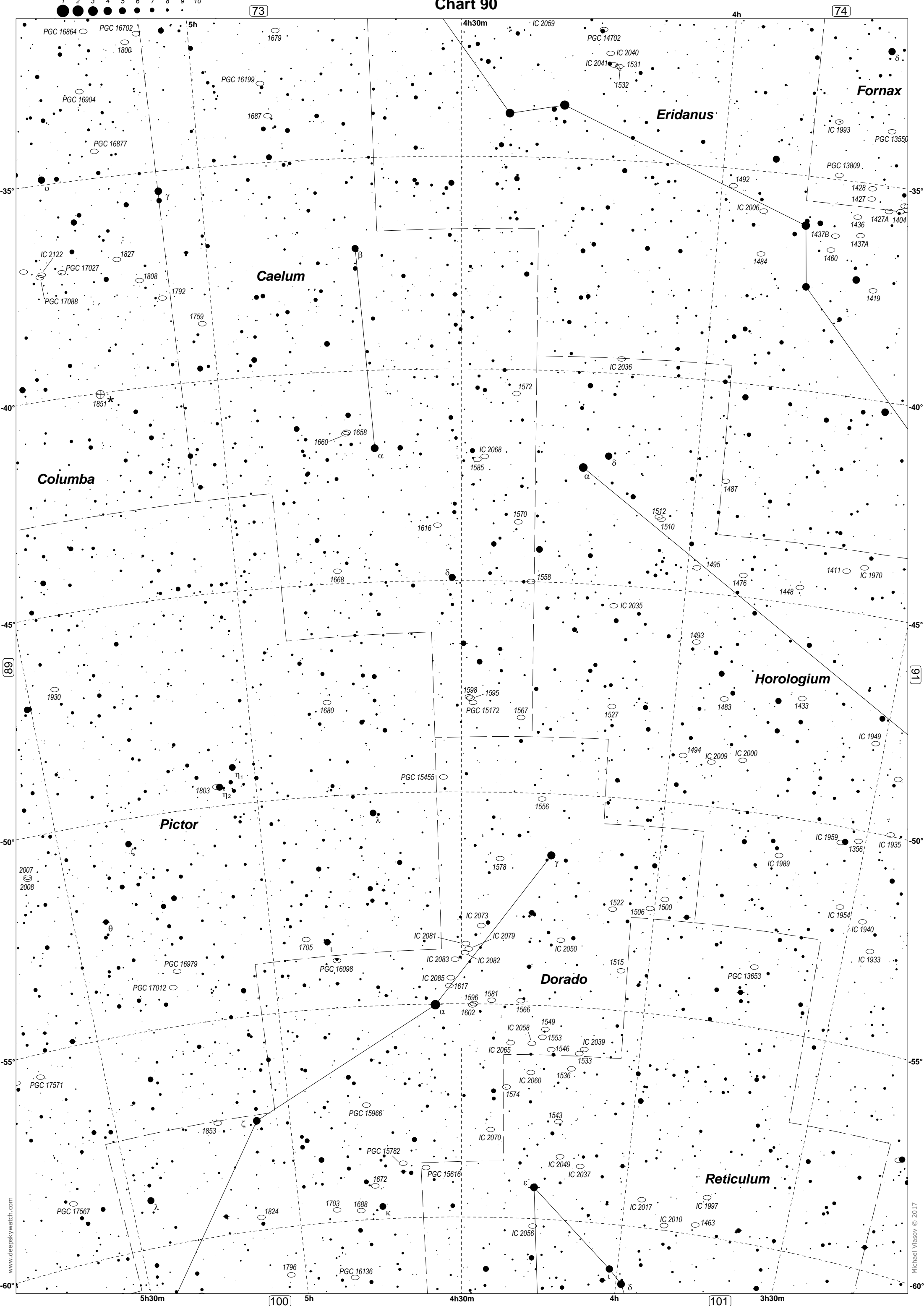


Chart 91

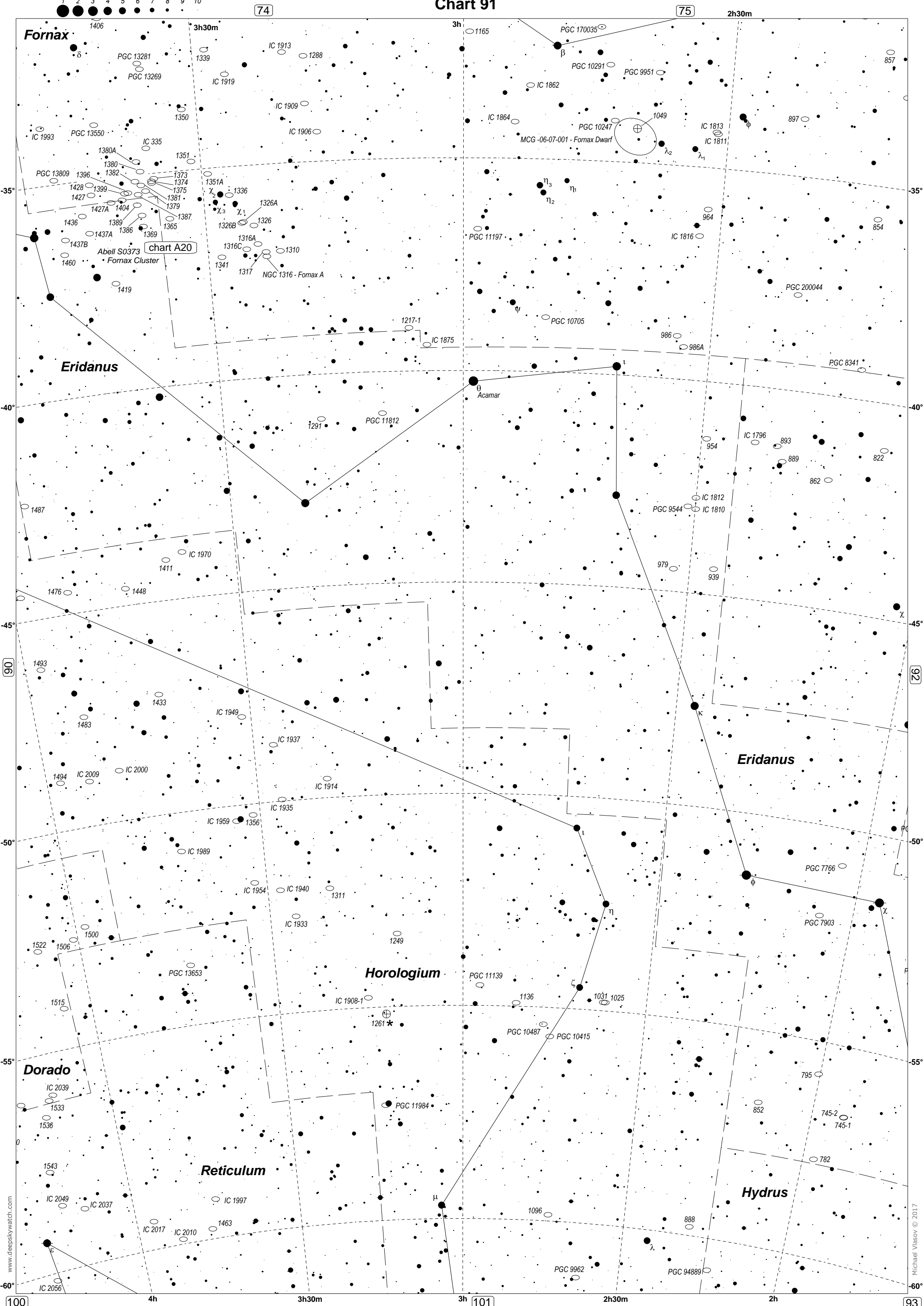
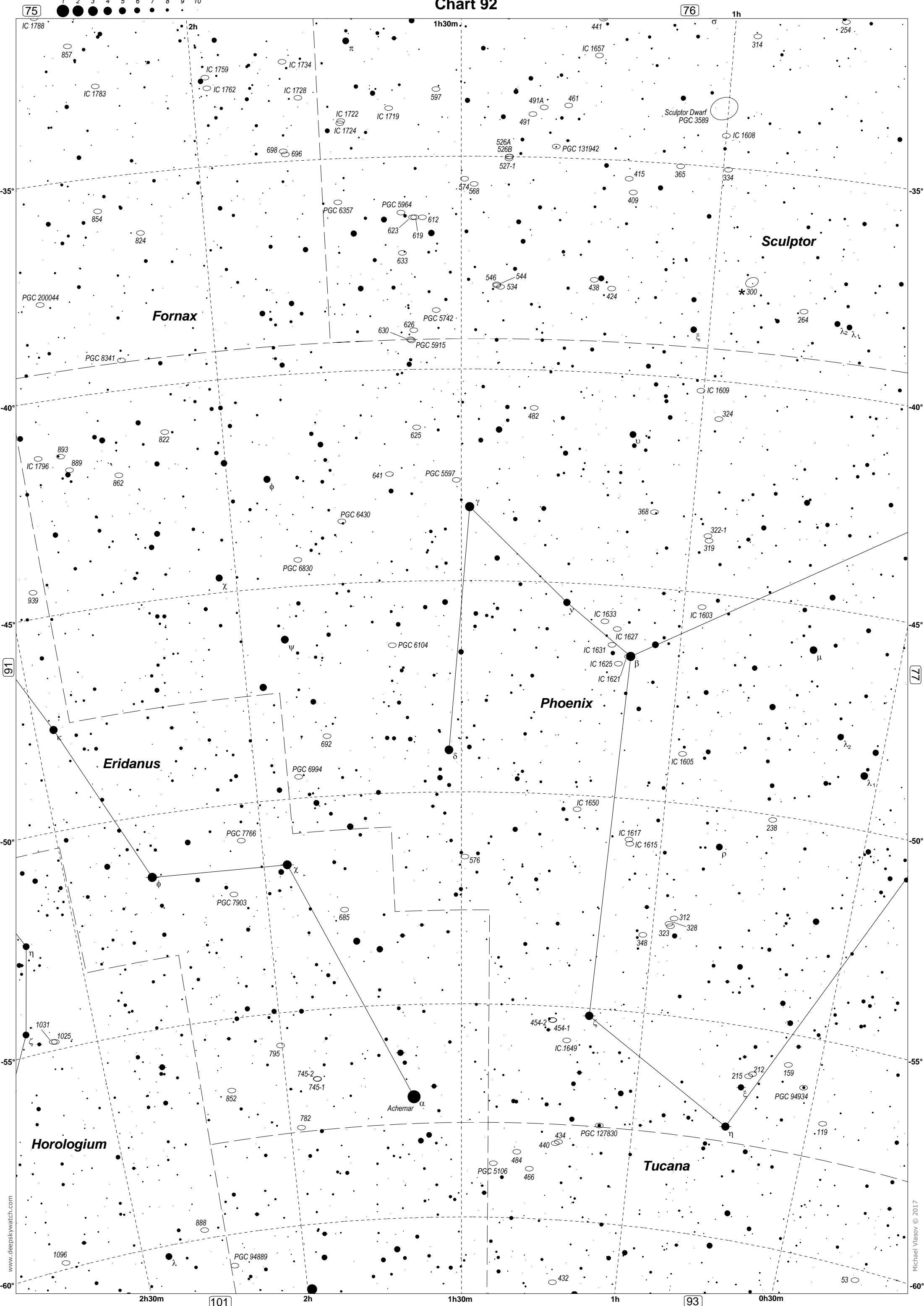
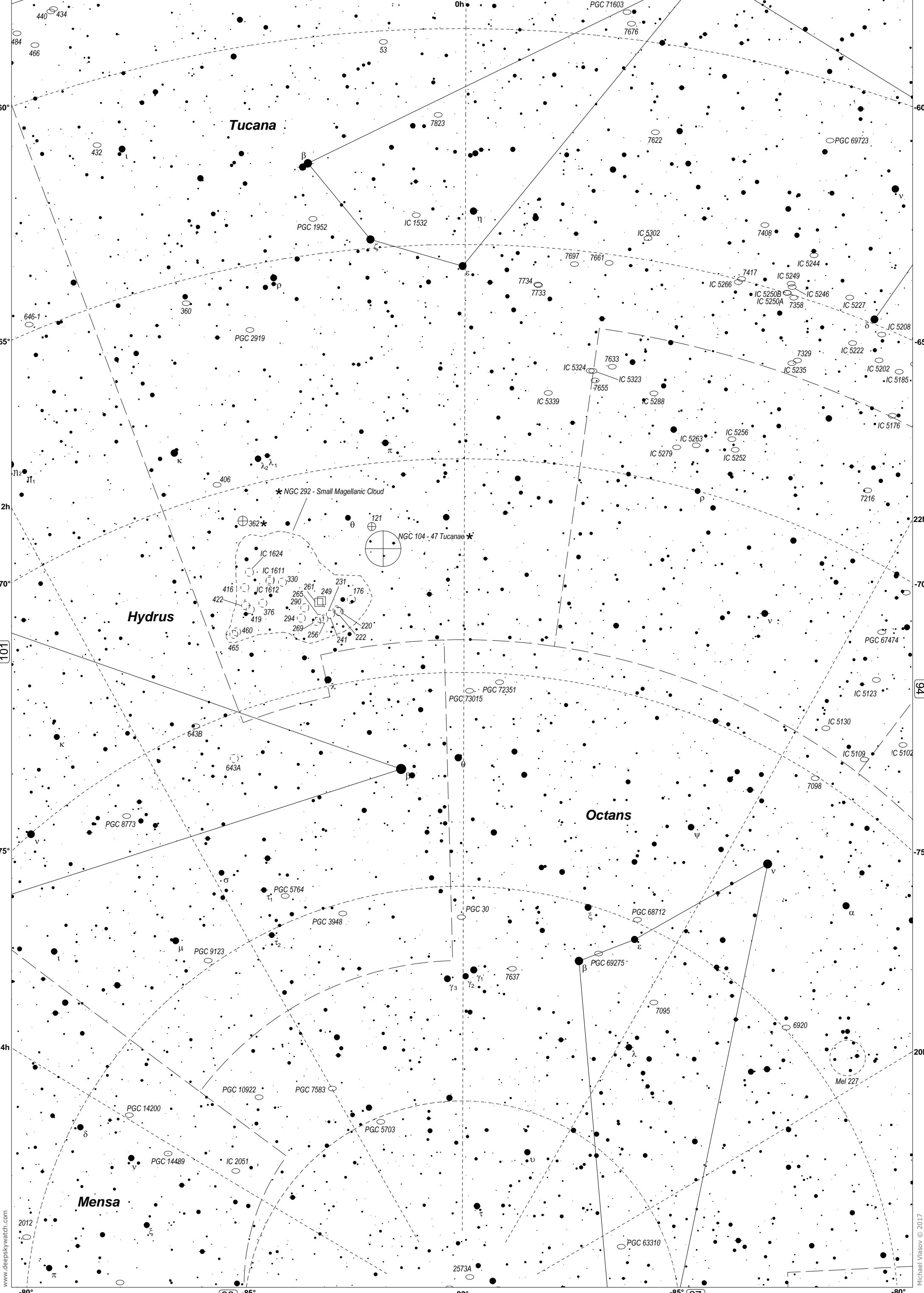


Chart 92







# Chart 94

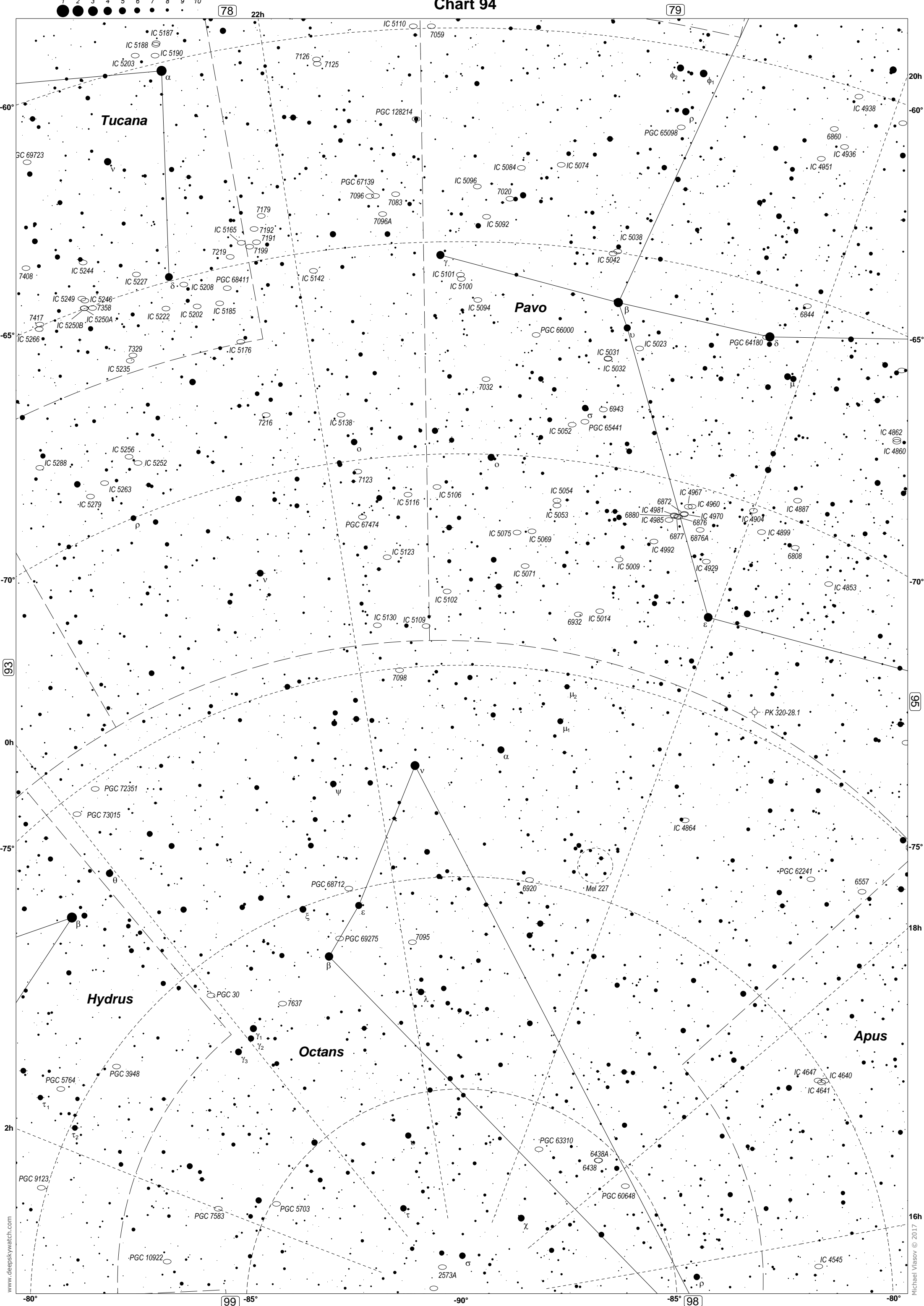
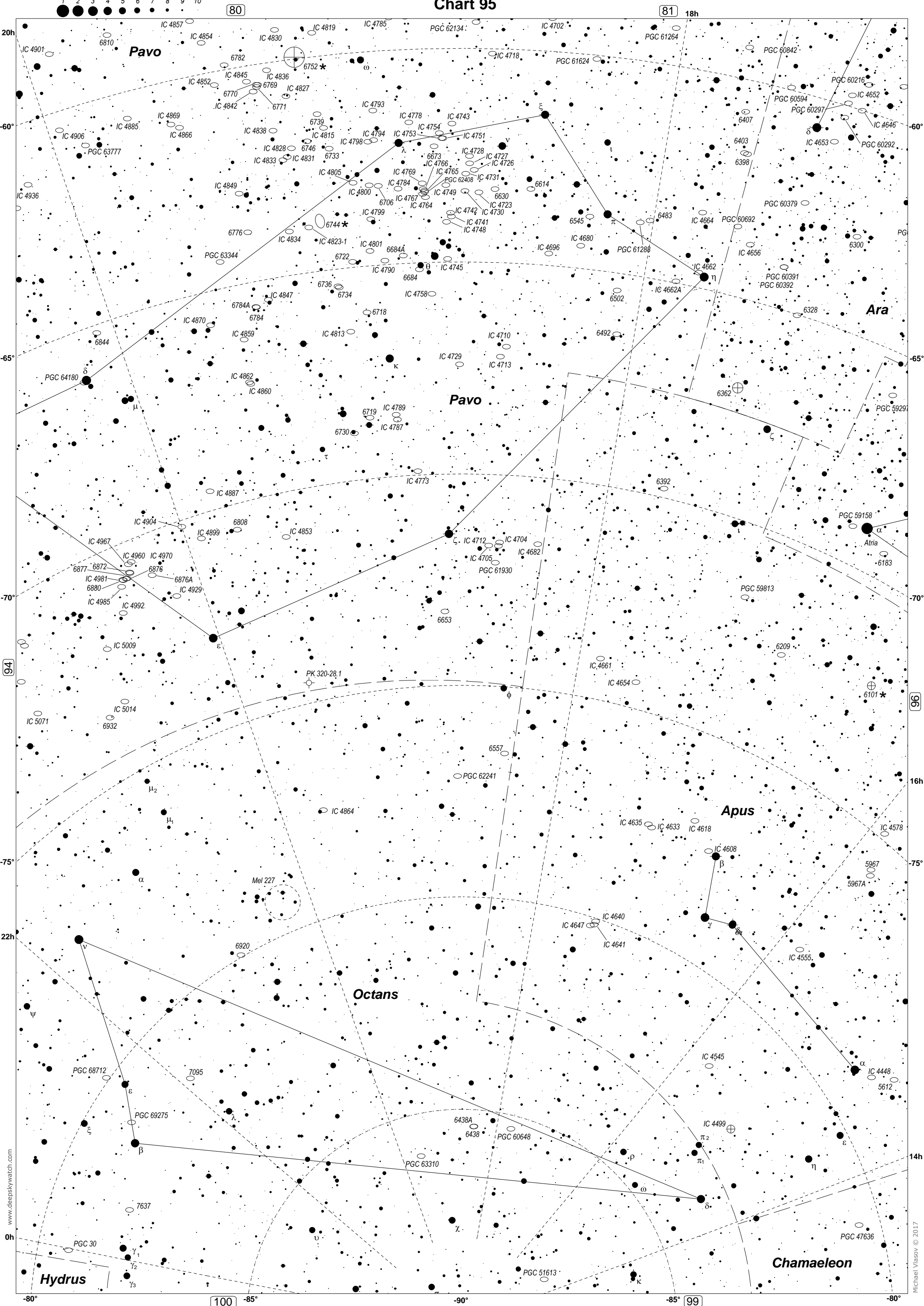


Chart 95



Pavo

Ara

Pavo

Apus

Octans

Hydrus

Chamaeleon

80

81

20h

60°

-60°

60°

-65°

65°

-70°

70°

-75°

75°

22h

16h

0h

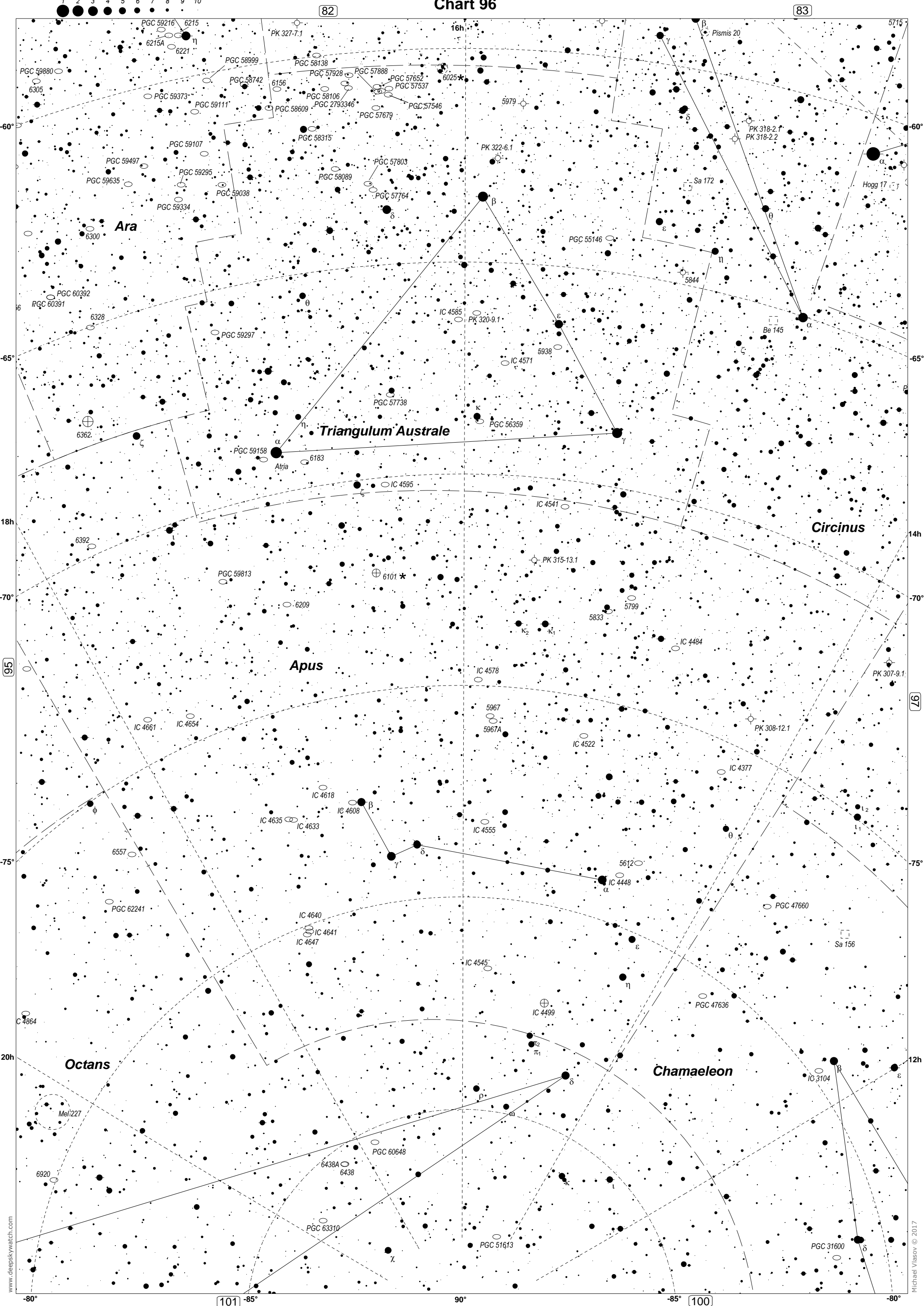
14h

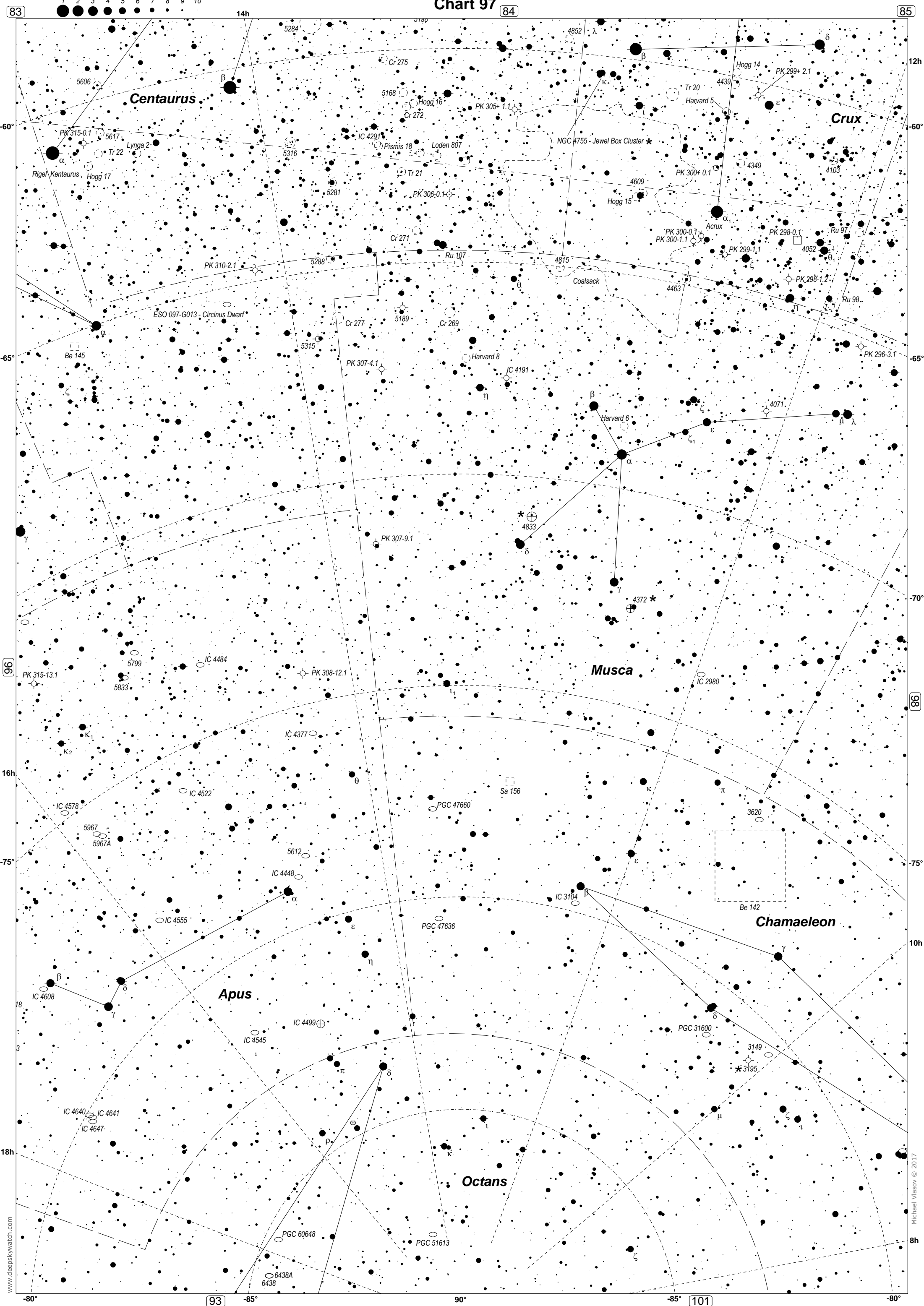
100

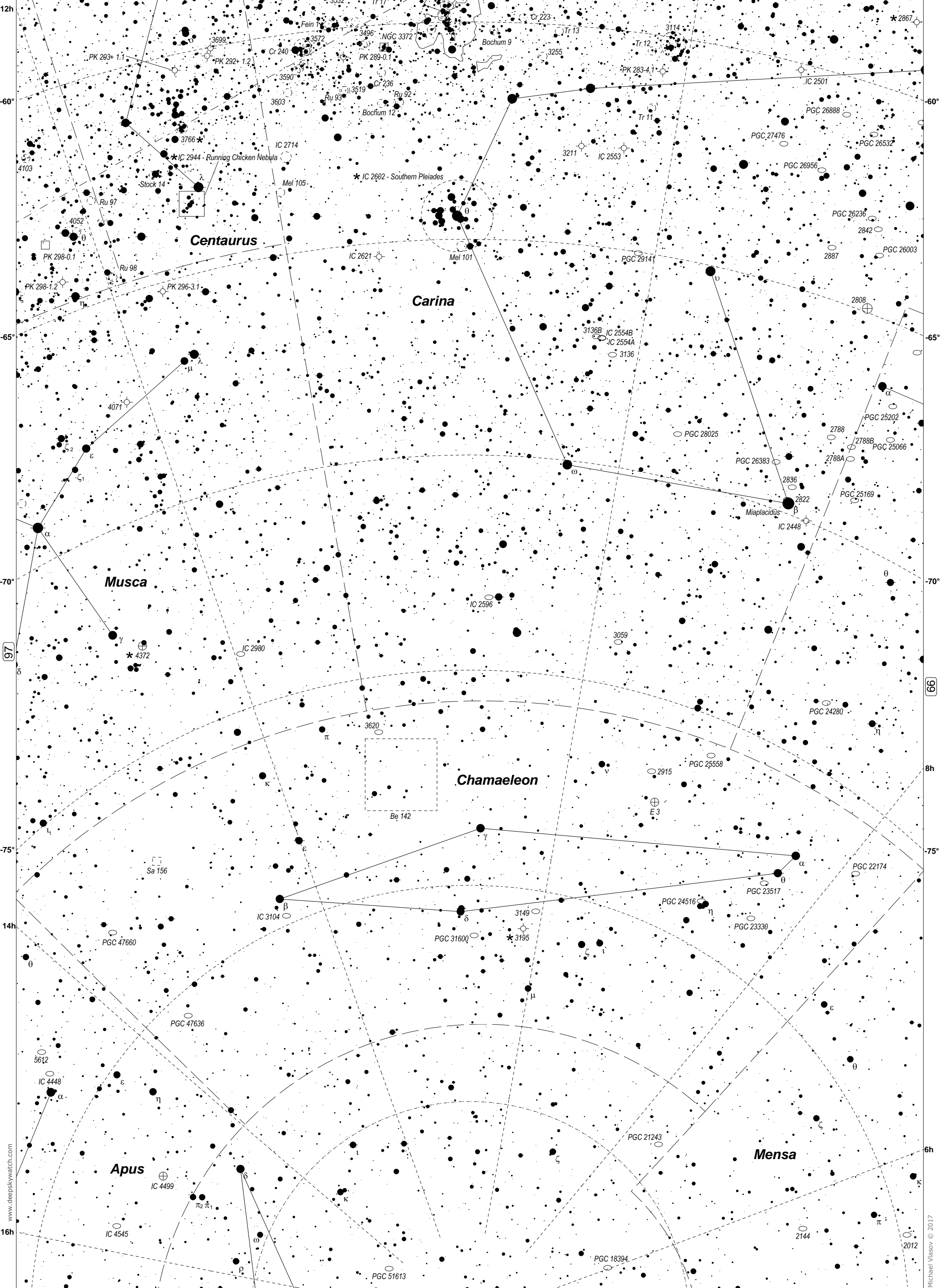
99

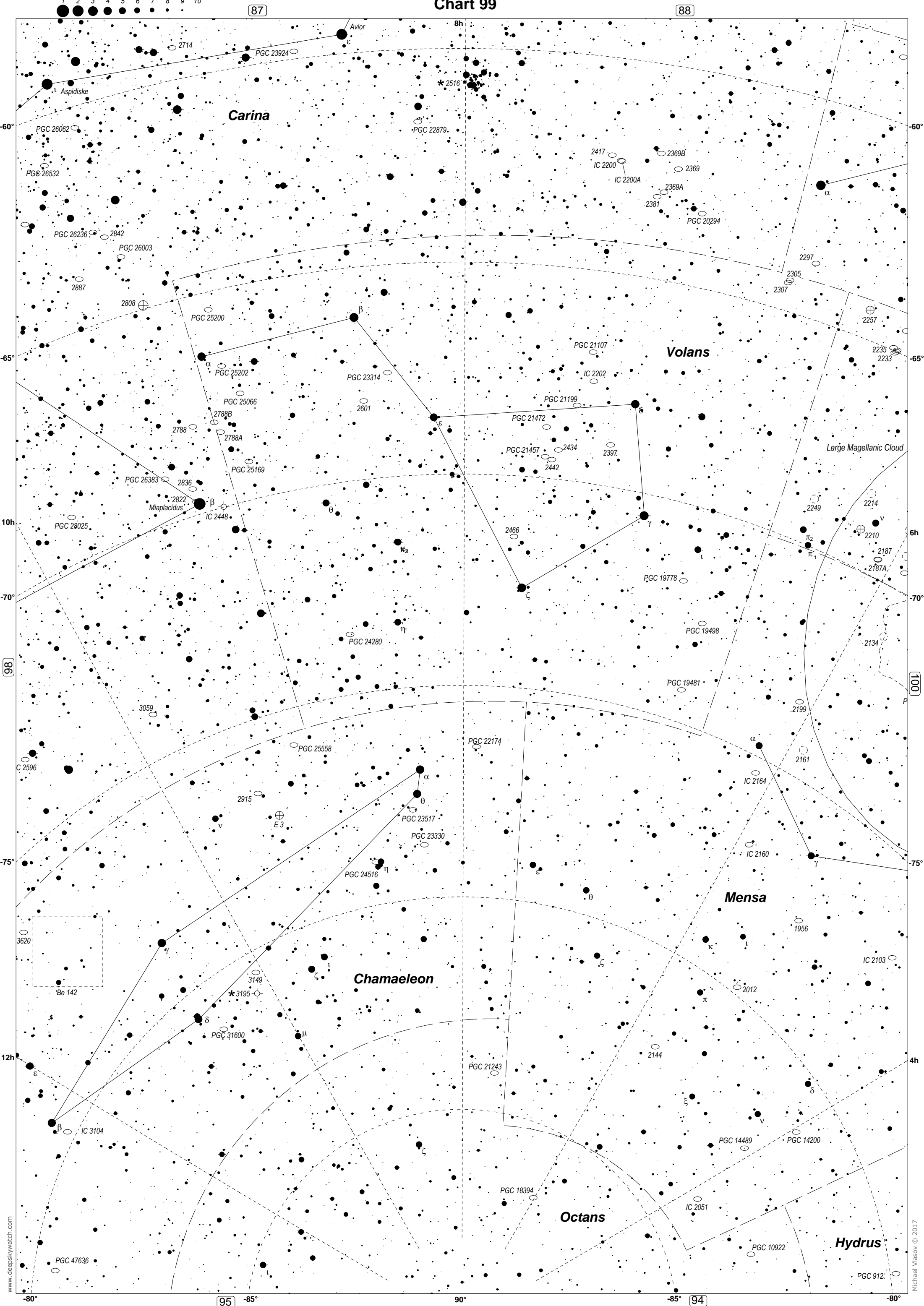
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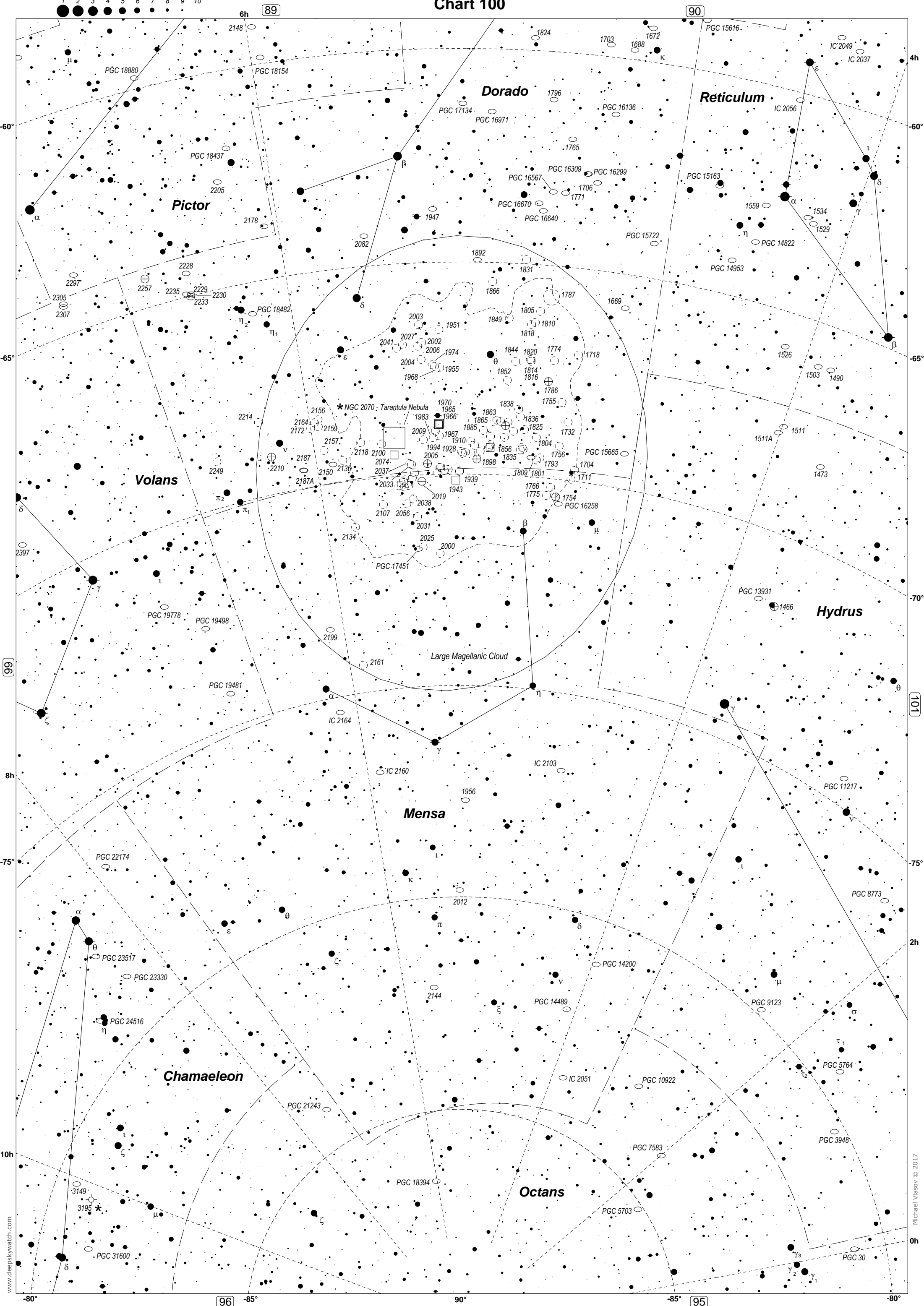








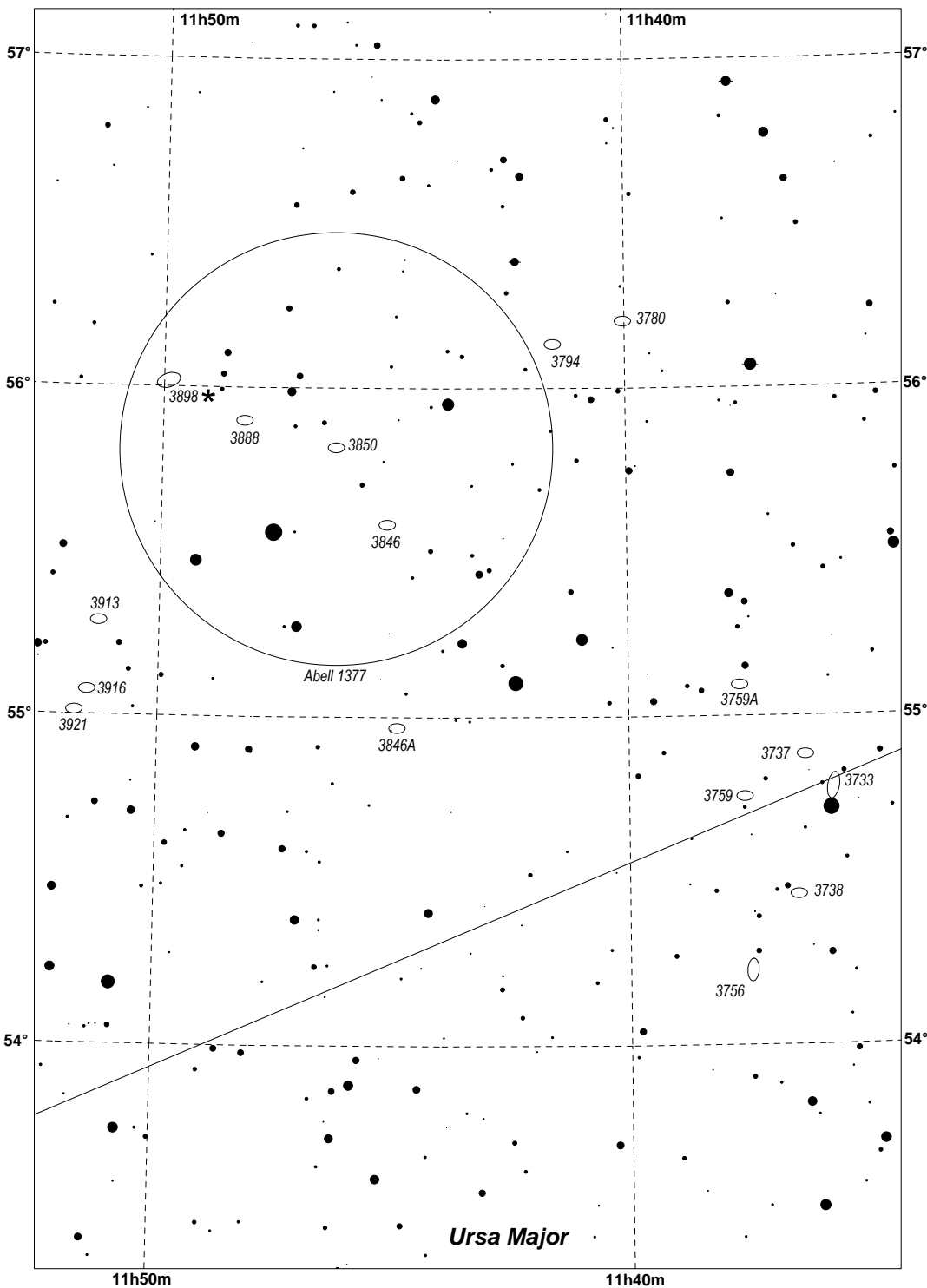
# Chart 100



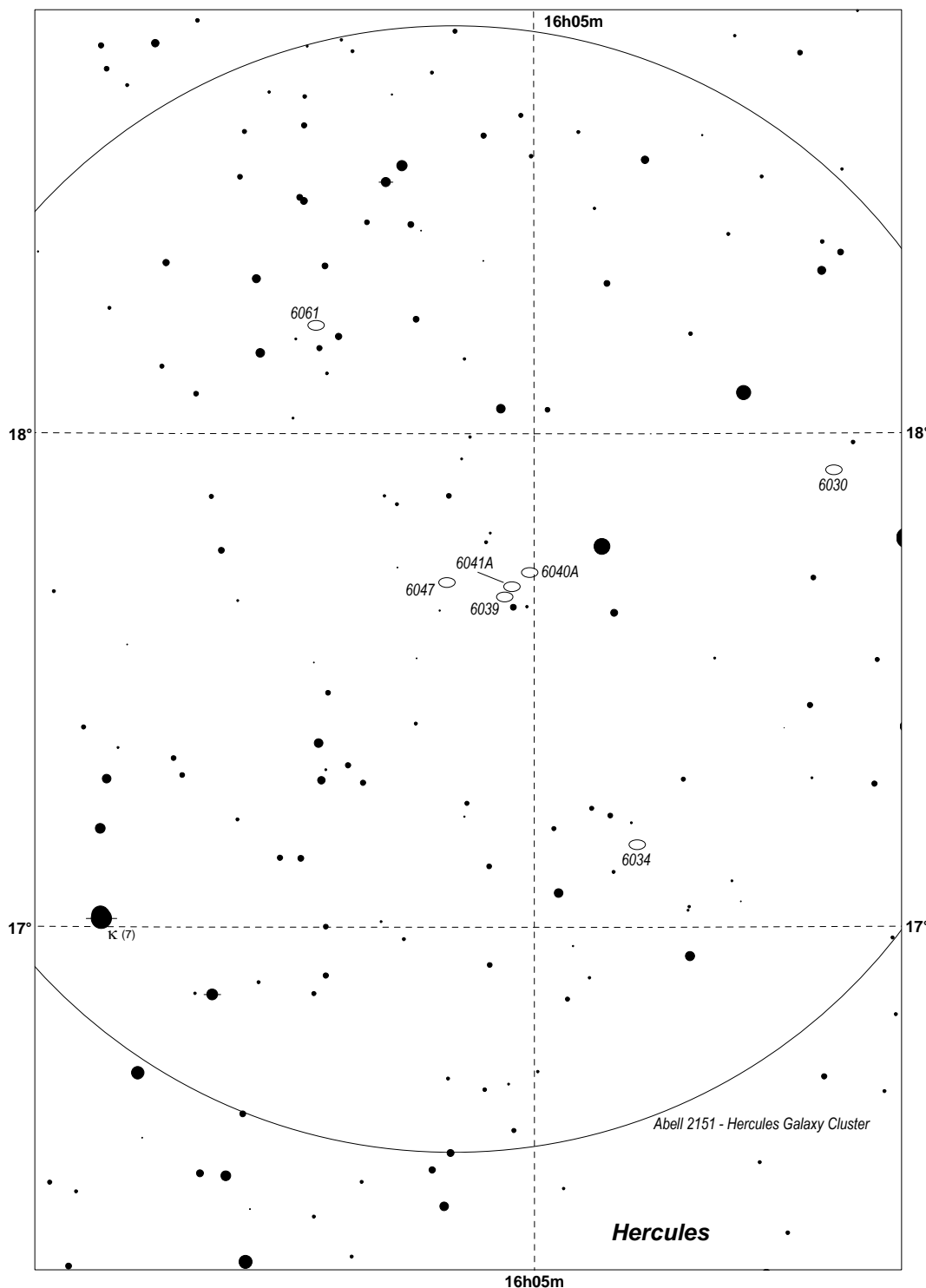




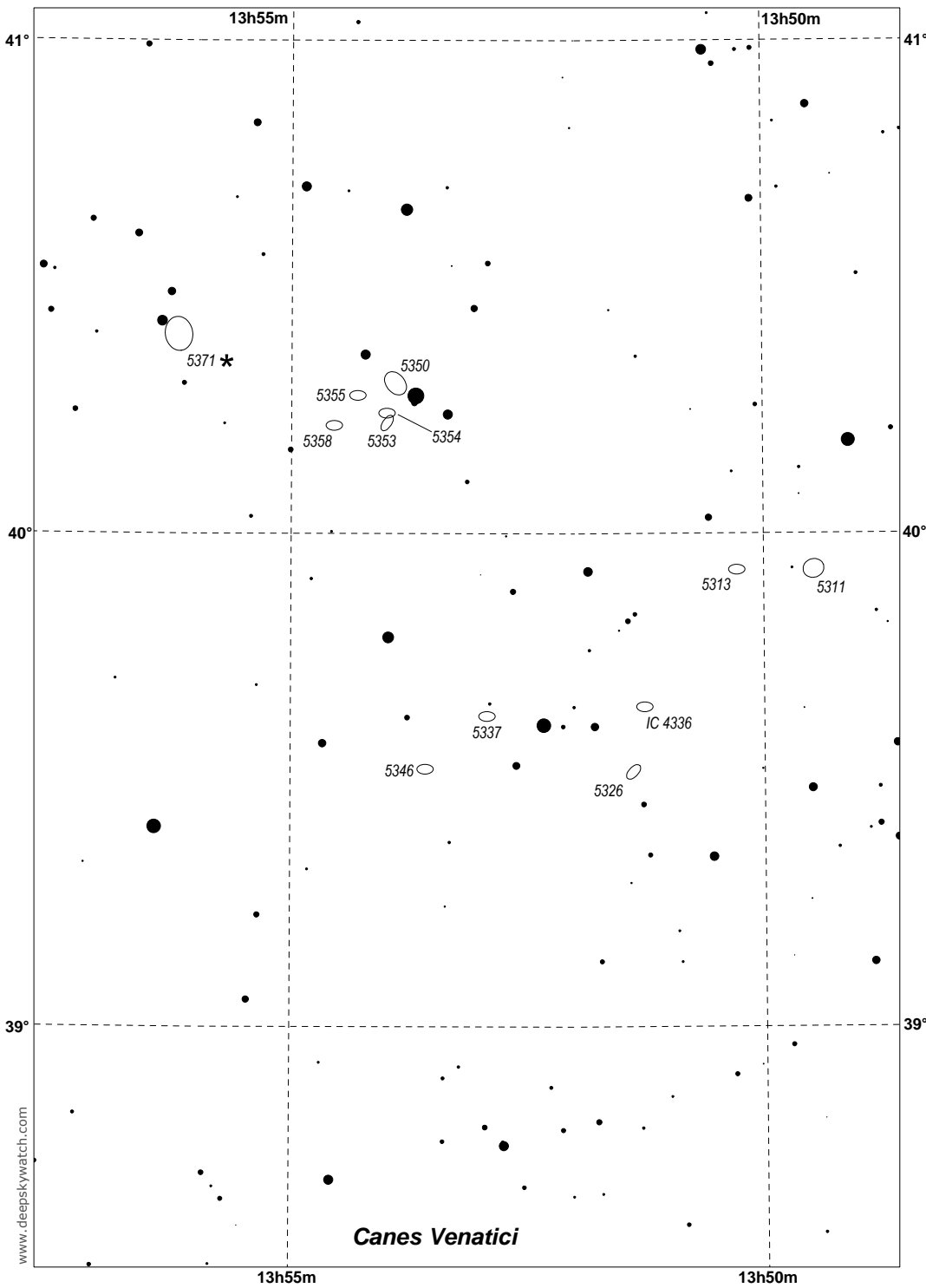
**A1 - Abell 1377**



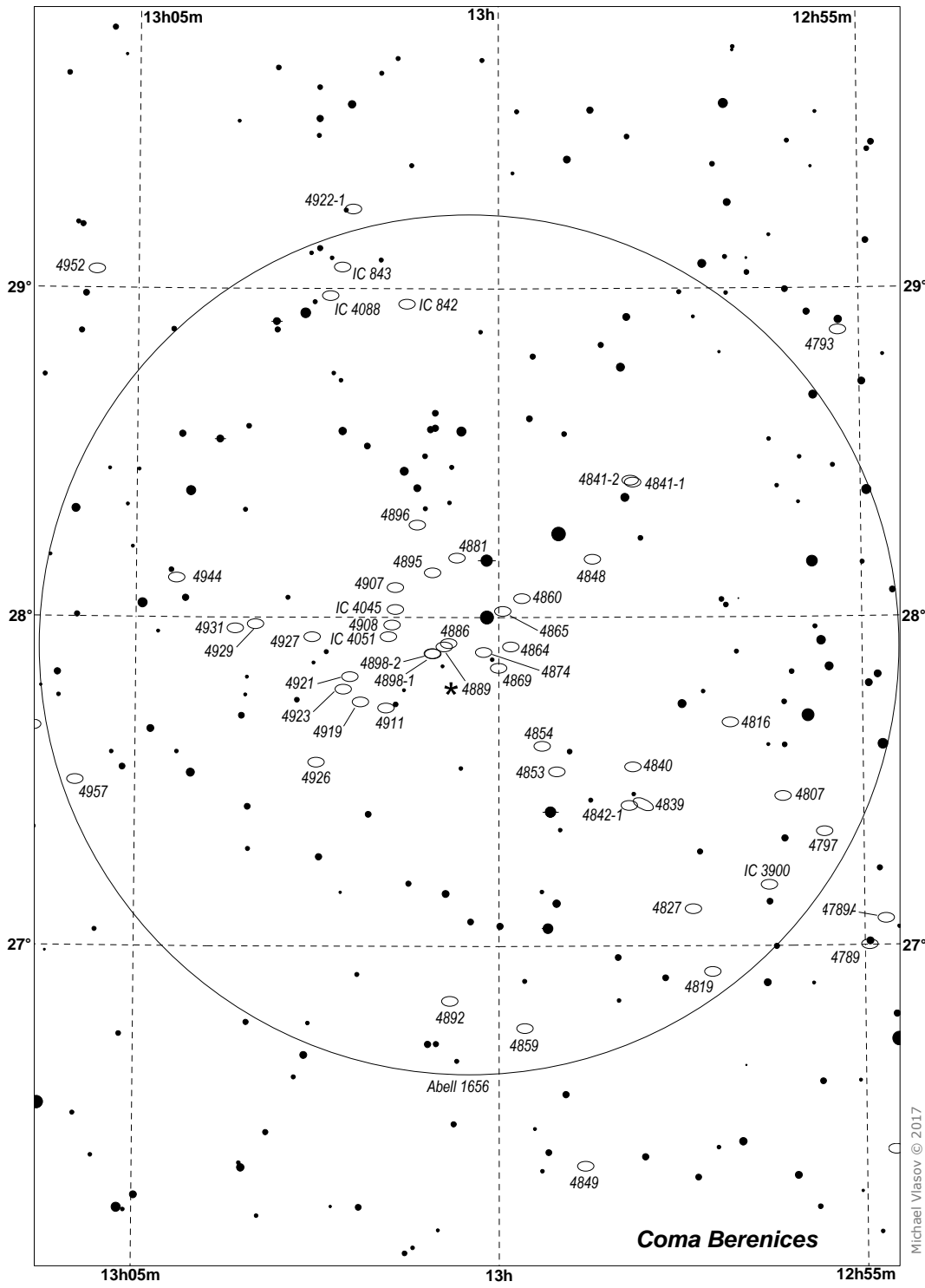
**A2 - Hercules cluster Abell 2151**



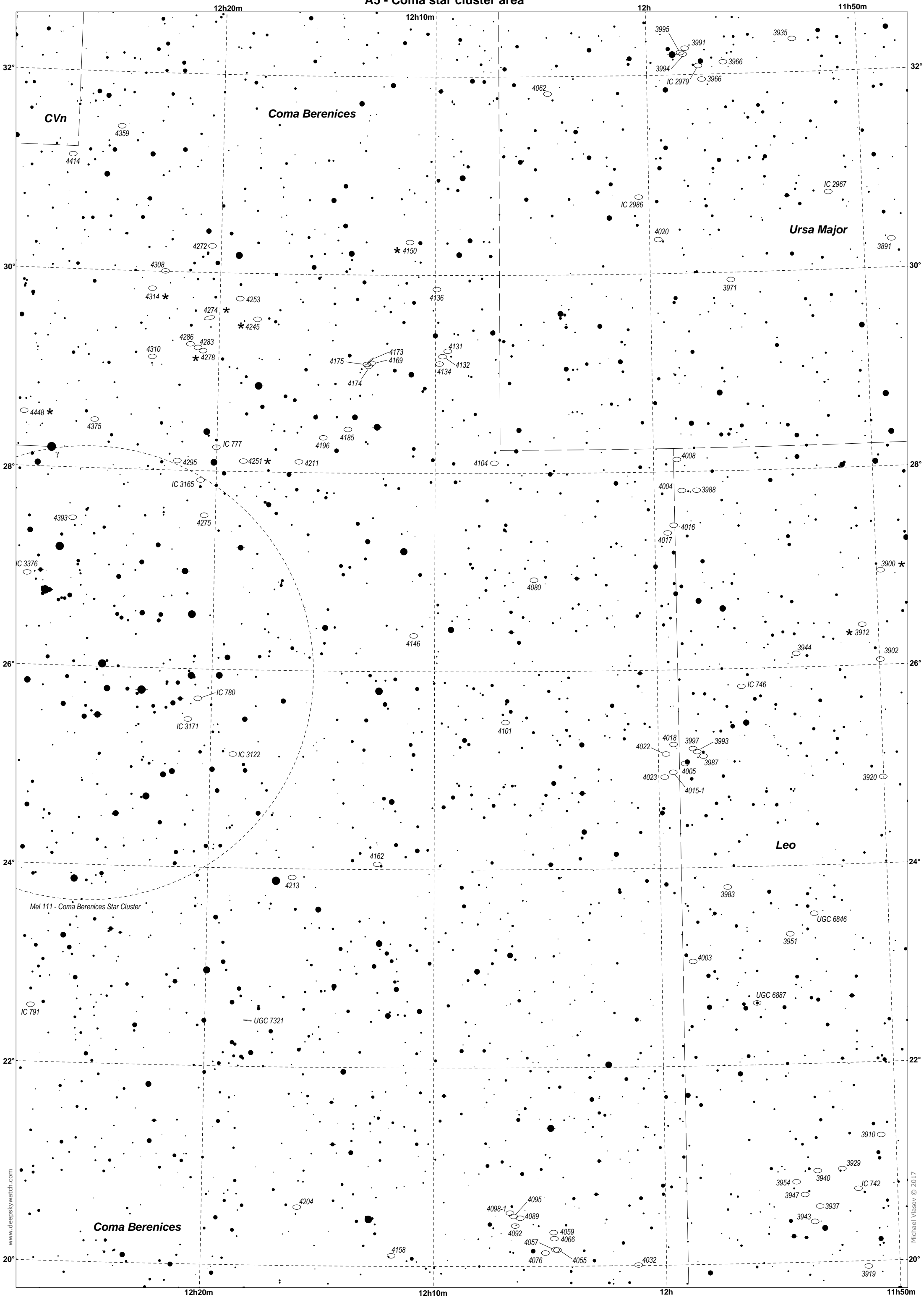
**A3 - Hickson 68**



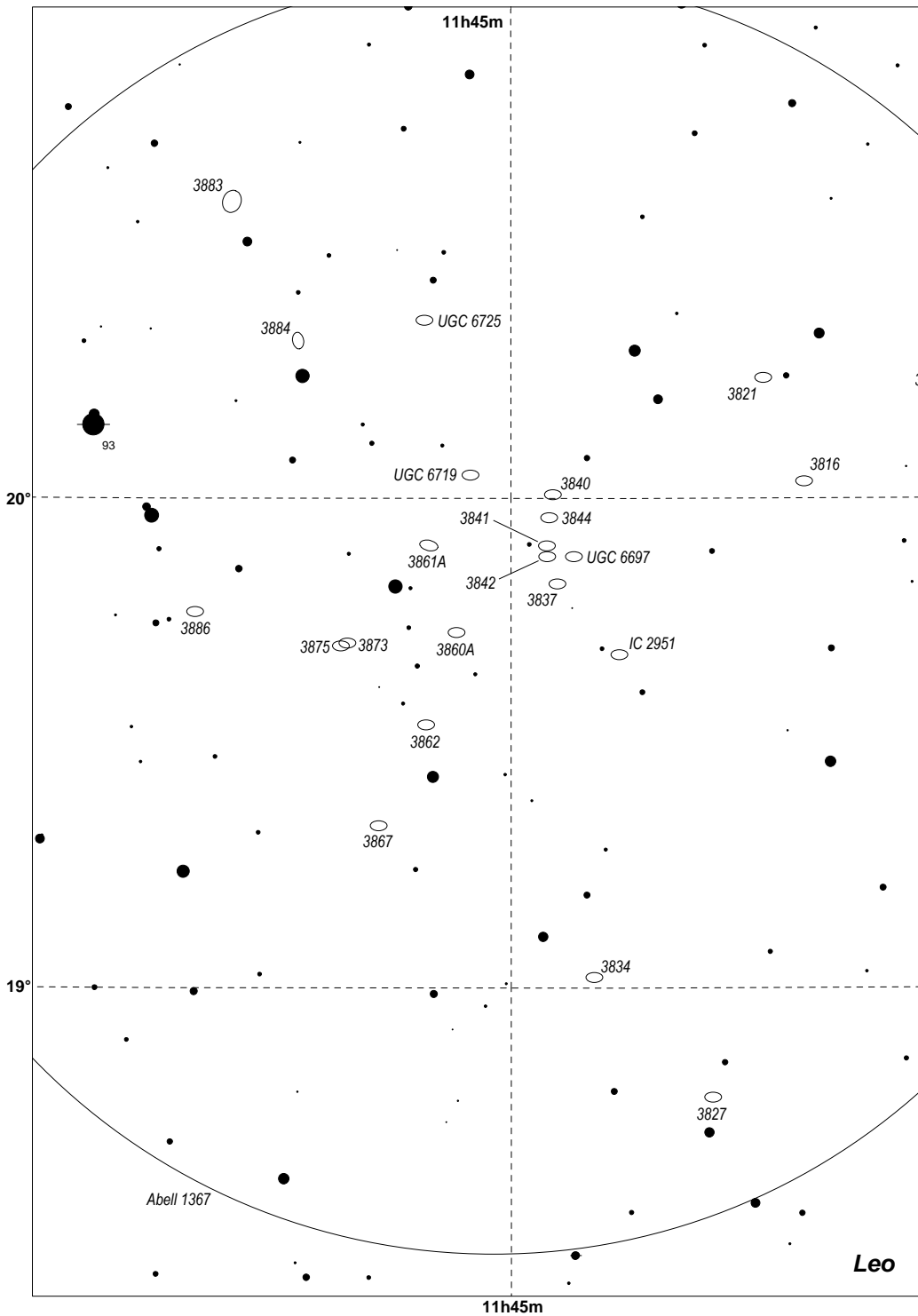
**A4 - Coma cluster Abell 1656**



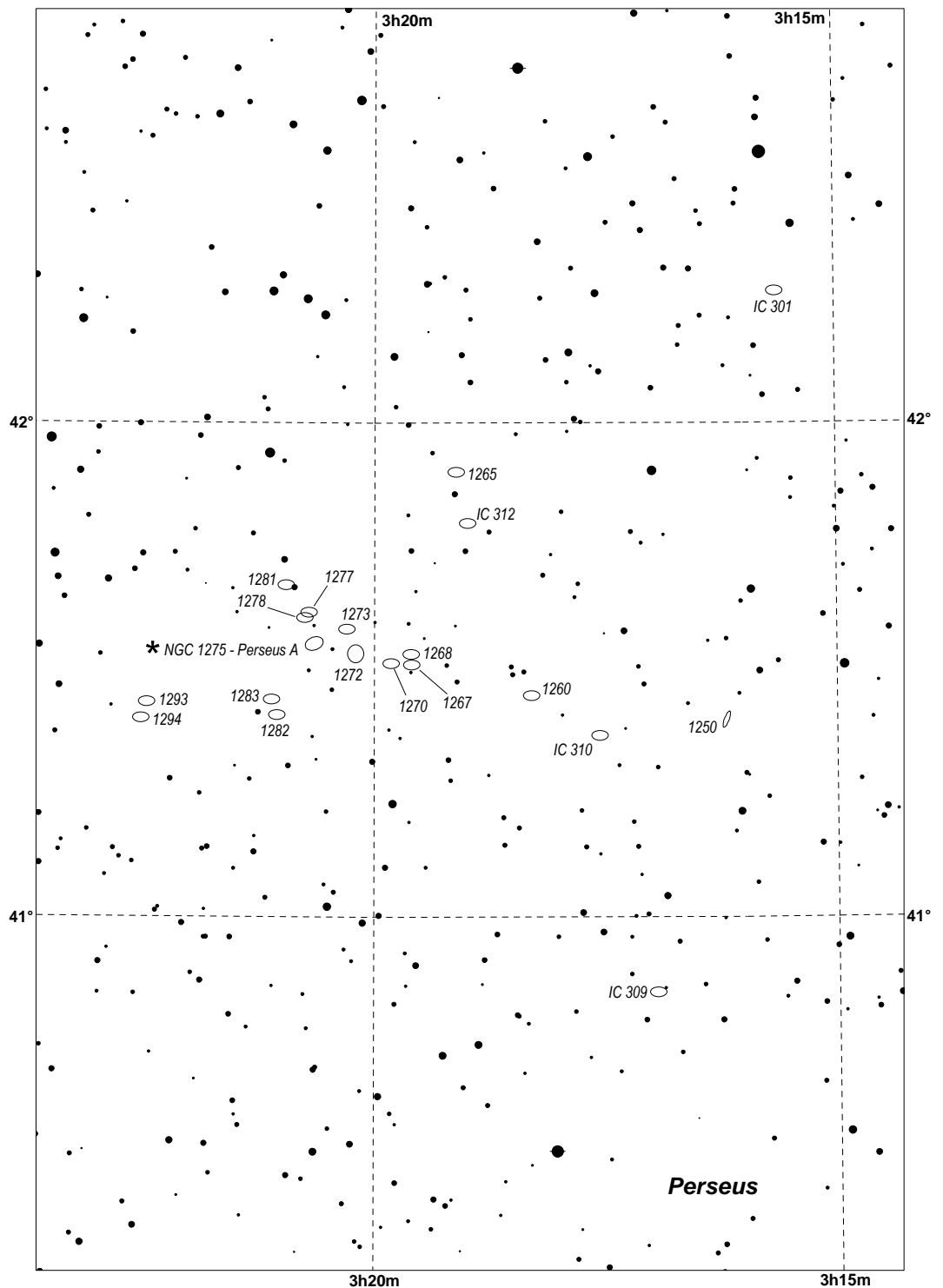
# A5 - Coma star cluster area



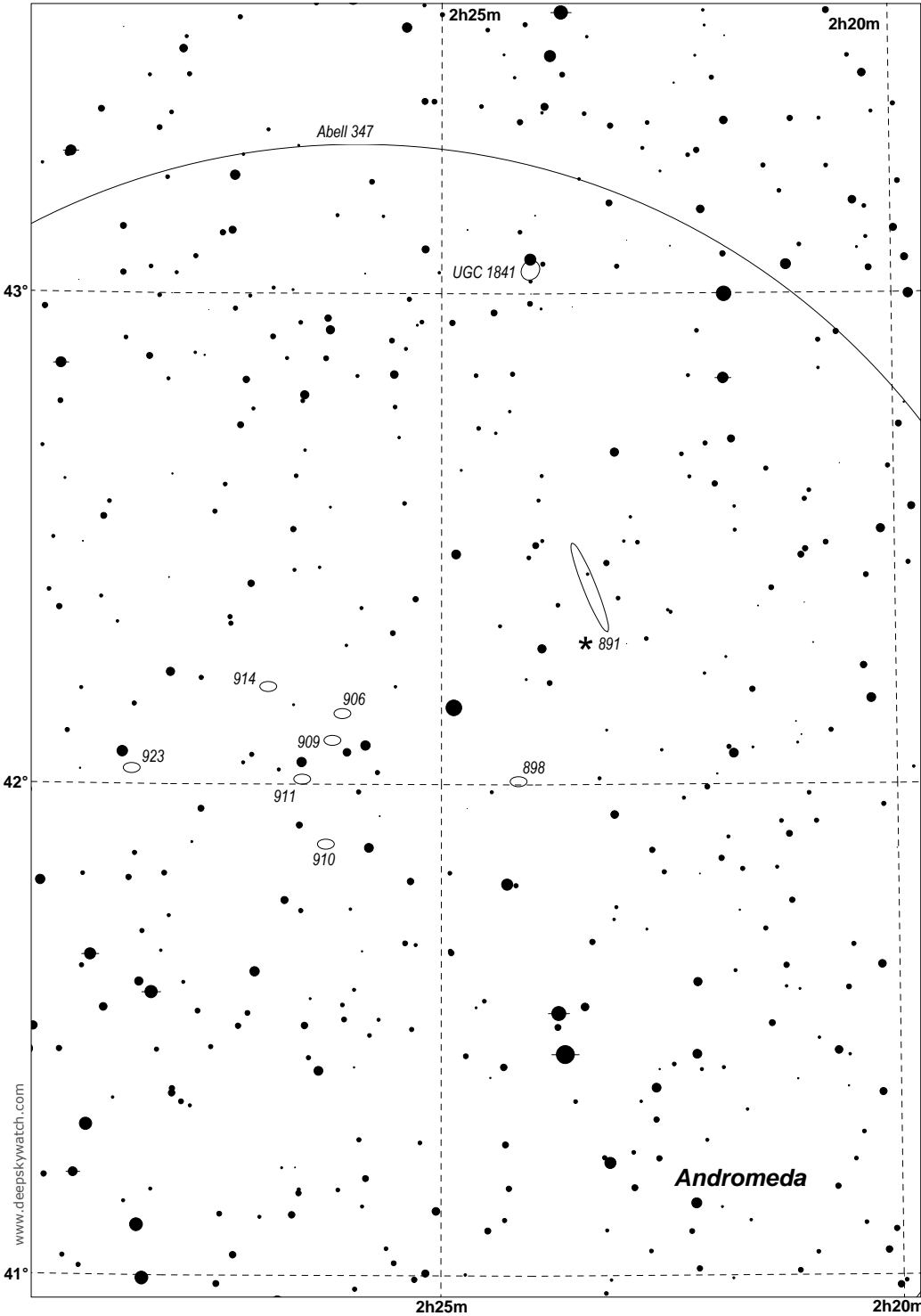
A6 - Leo cluster Abell 1367



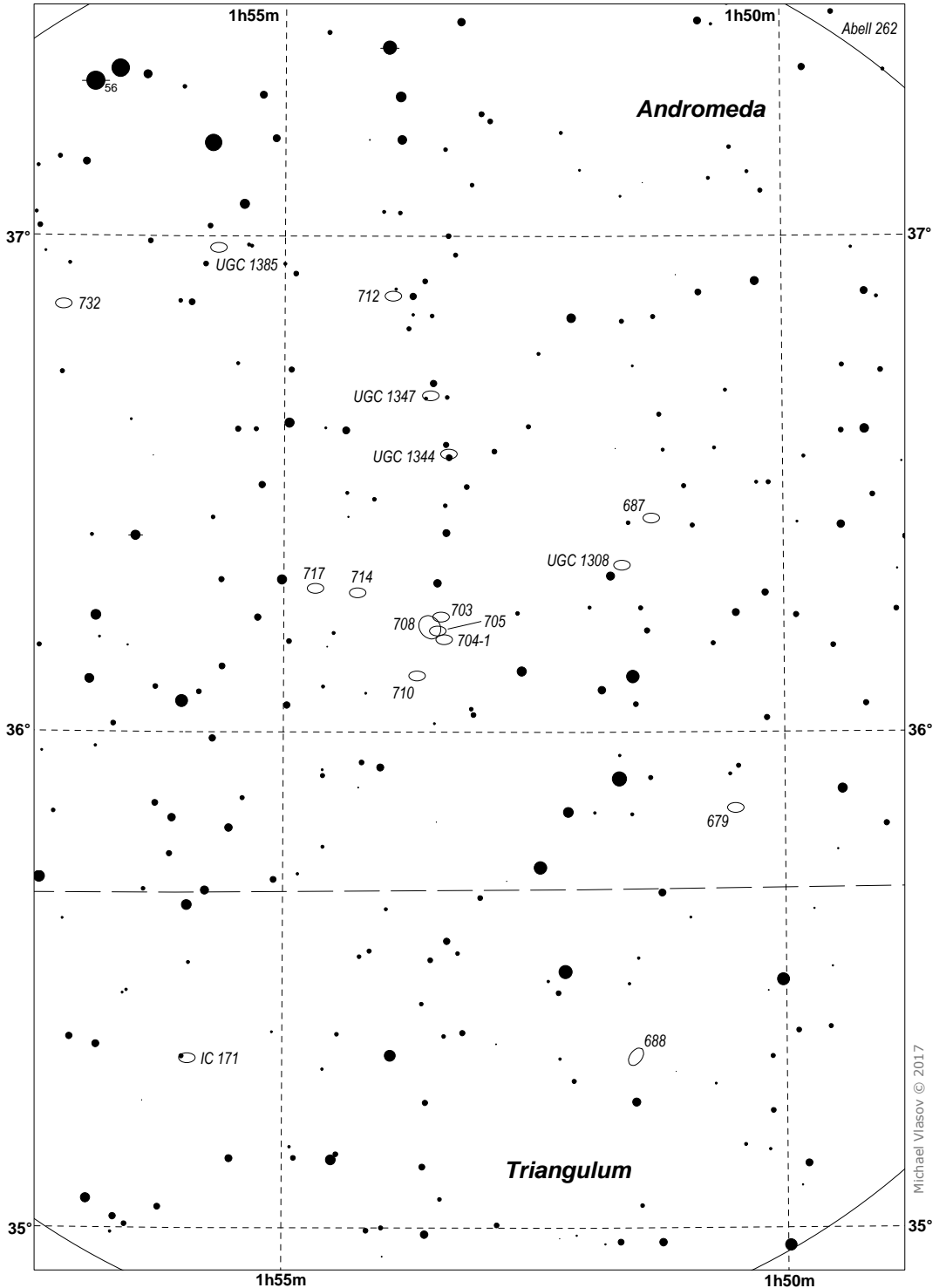
A7 - Perseus cluster Abell 426



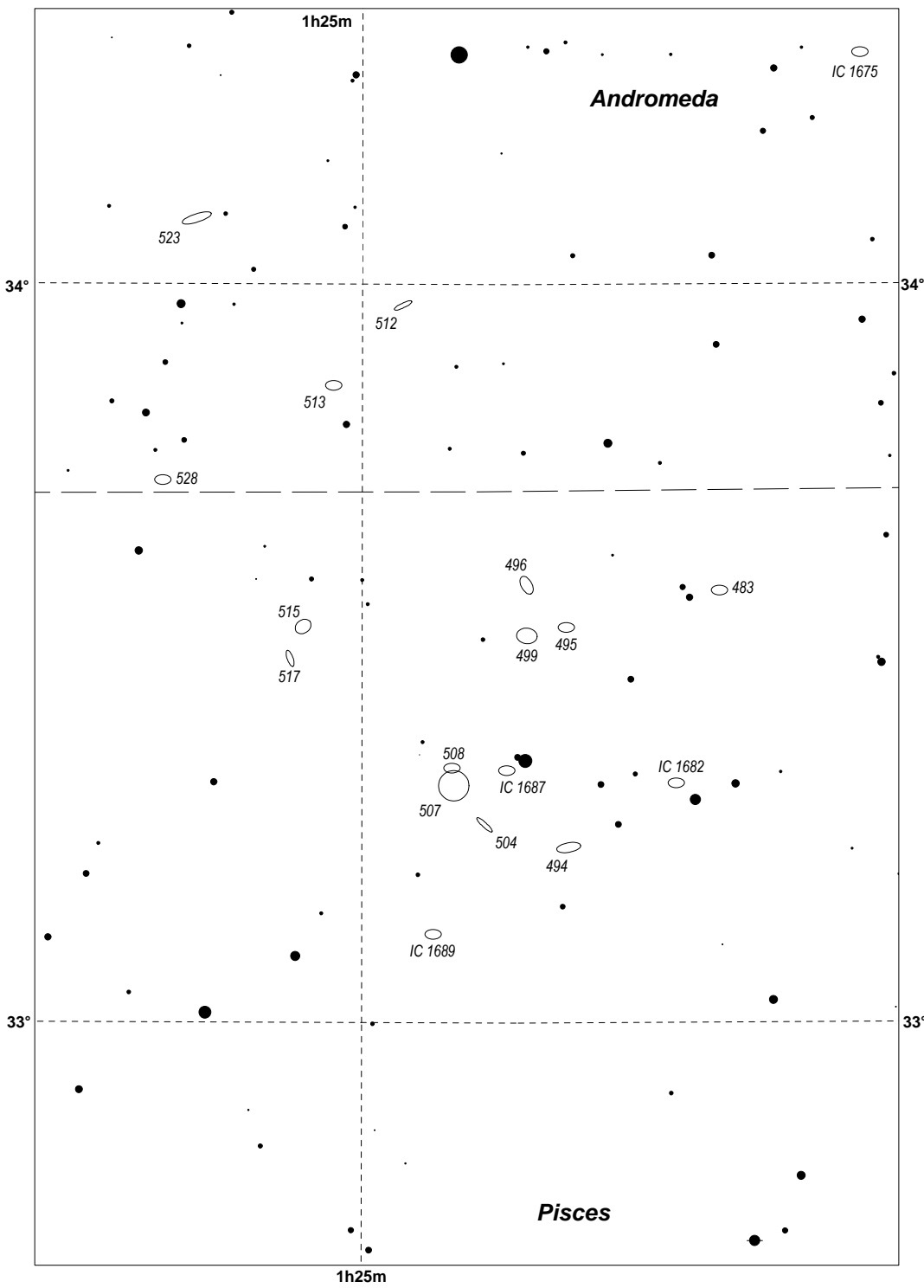
A8 - Abell 347



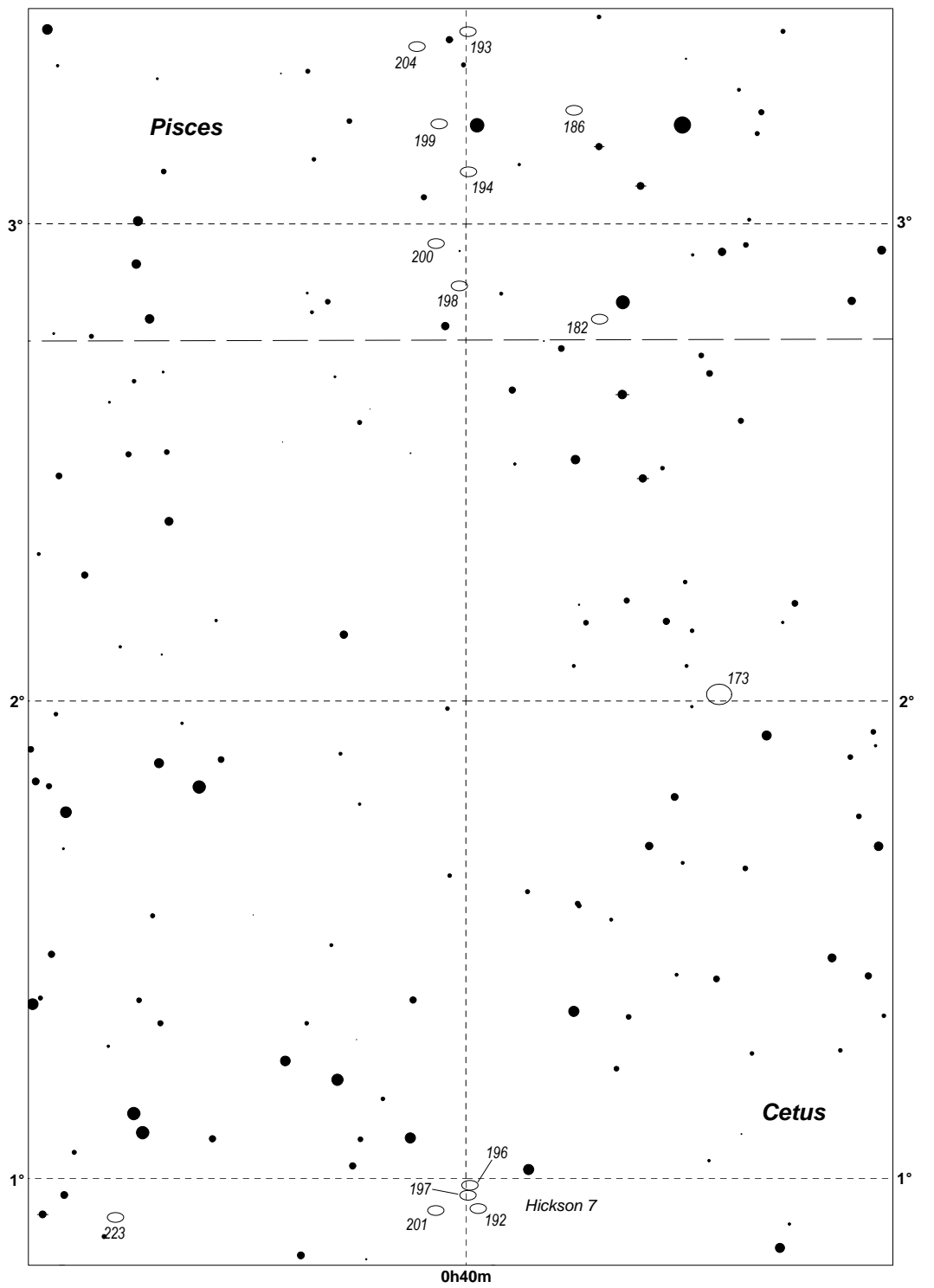
A9 - Abell 262



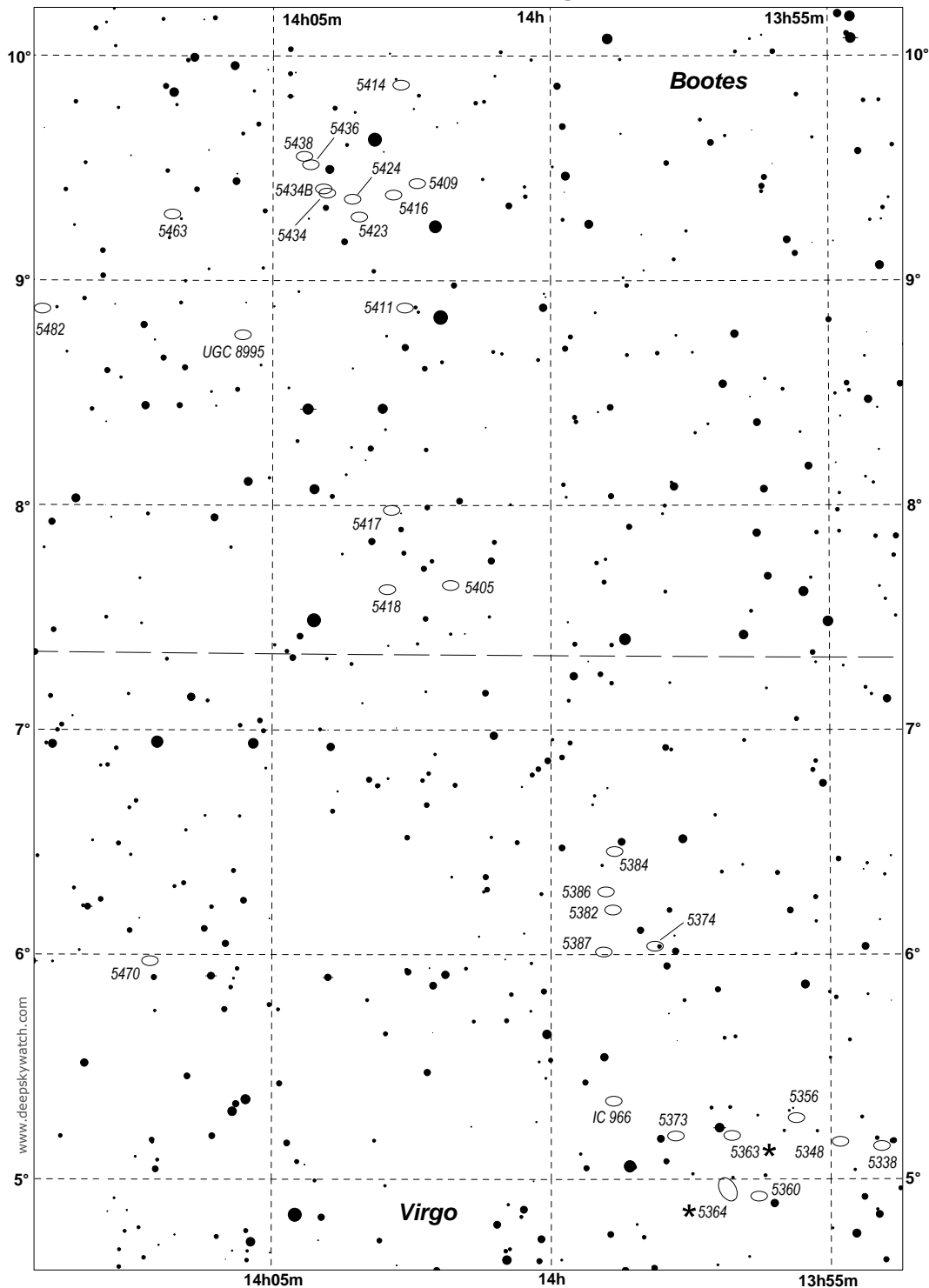
A10 - NGC 507 group



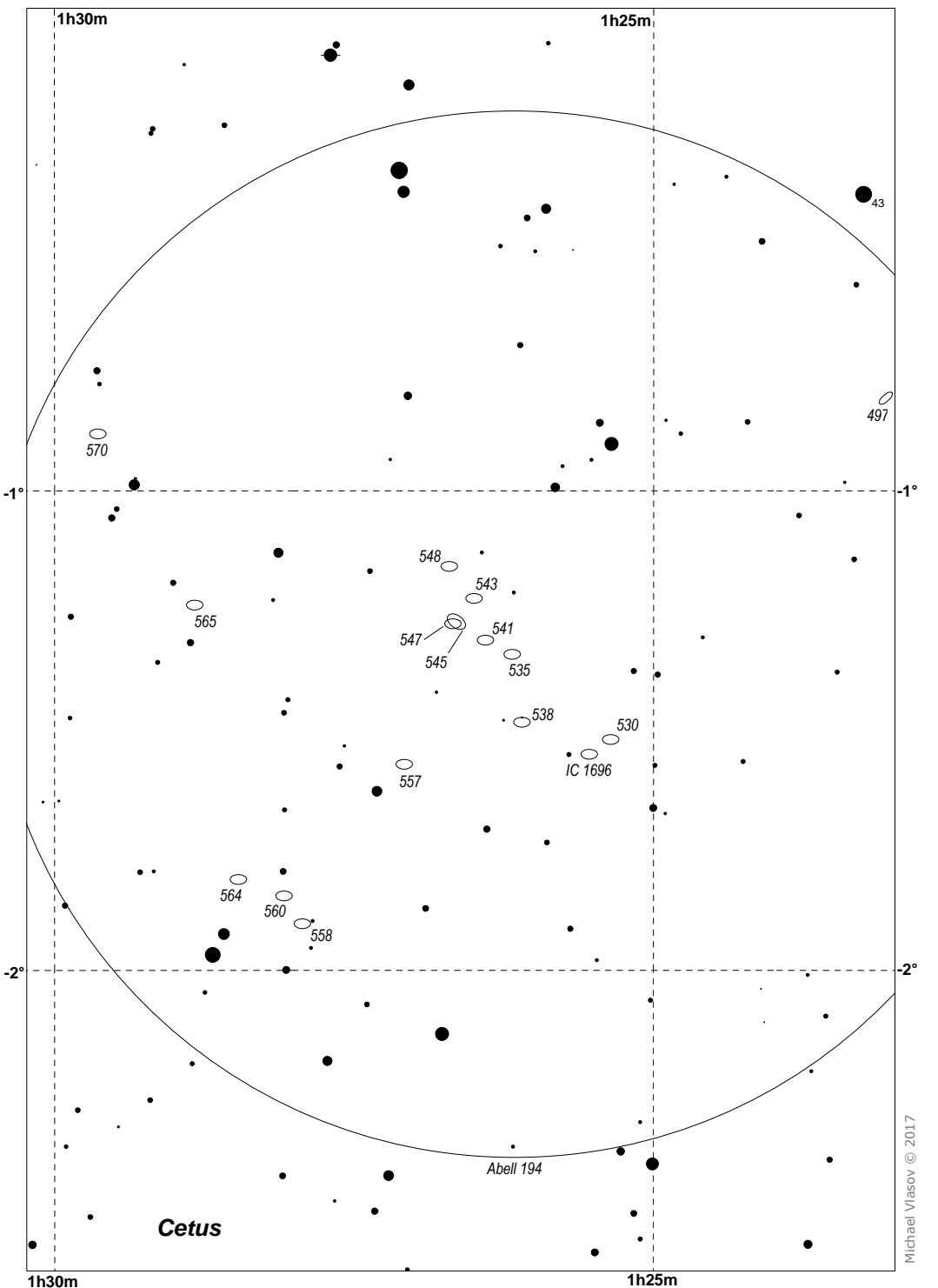
A11 - Hickson 7 and NGC 194 region



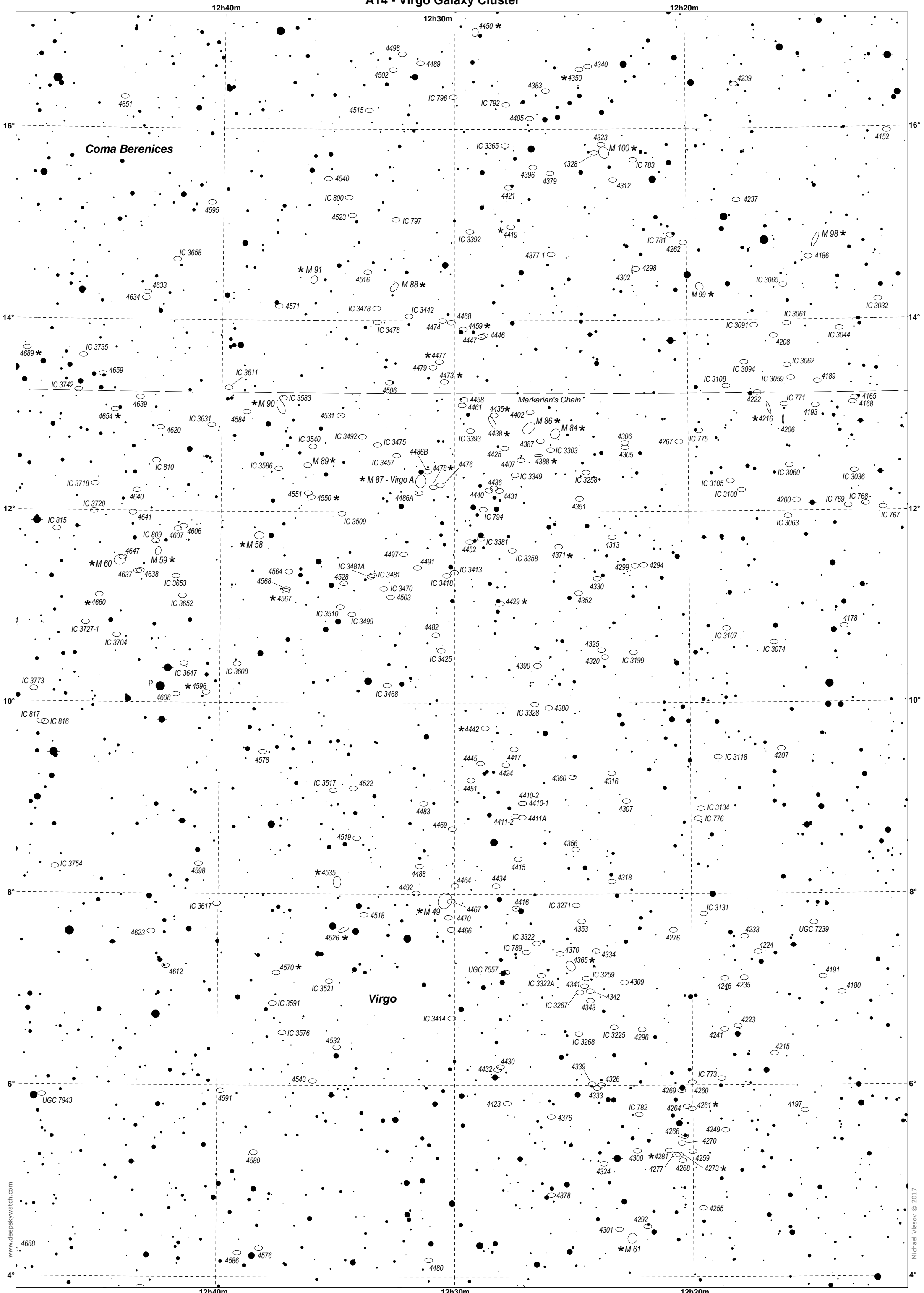
A12 - NGC 5364 region



A13 - Abell 194



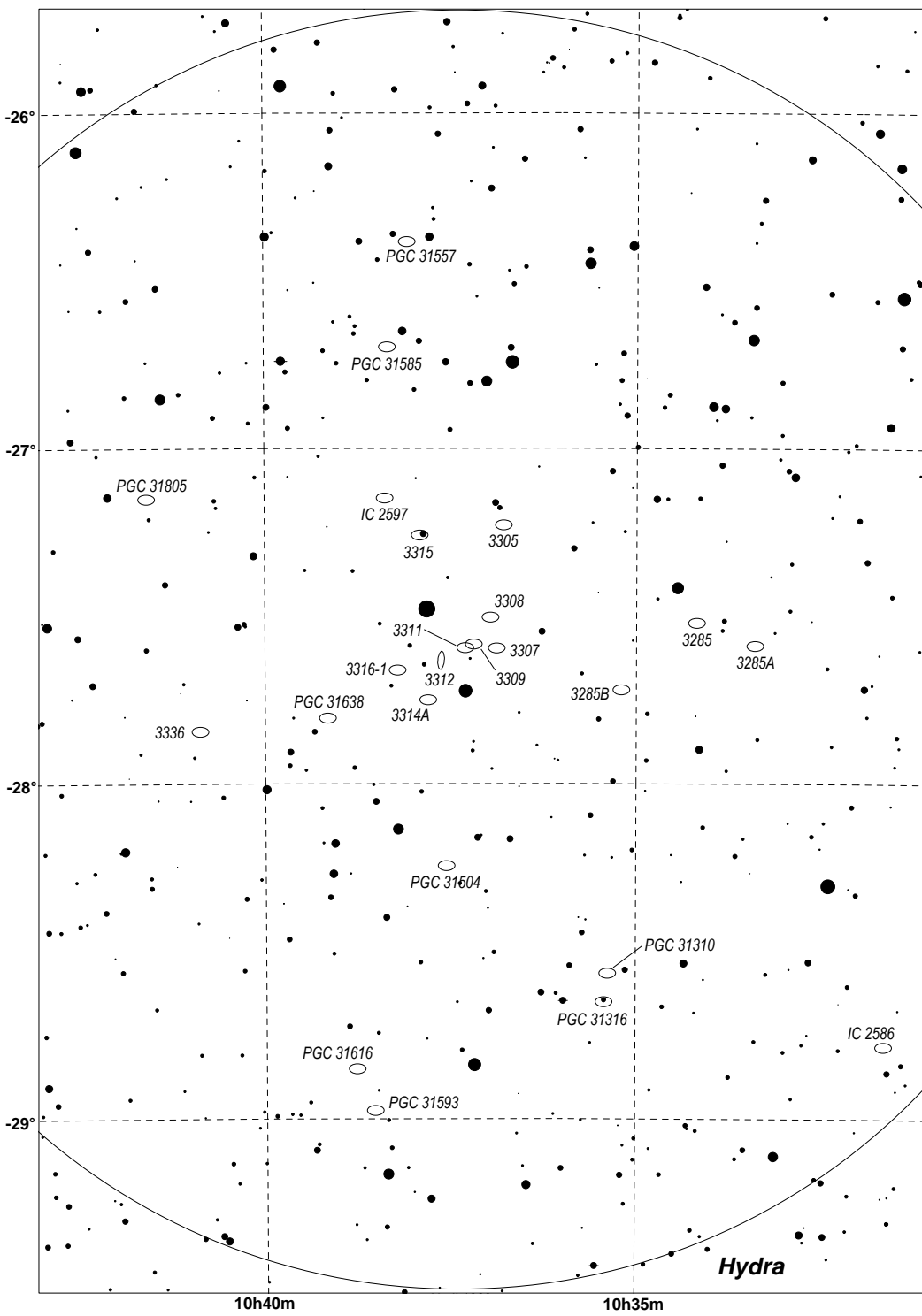
A14 - Virgo Galaxy Cluster



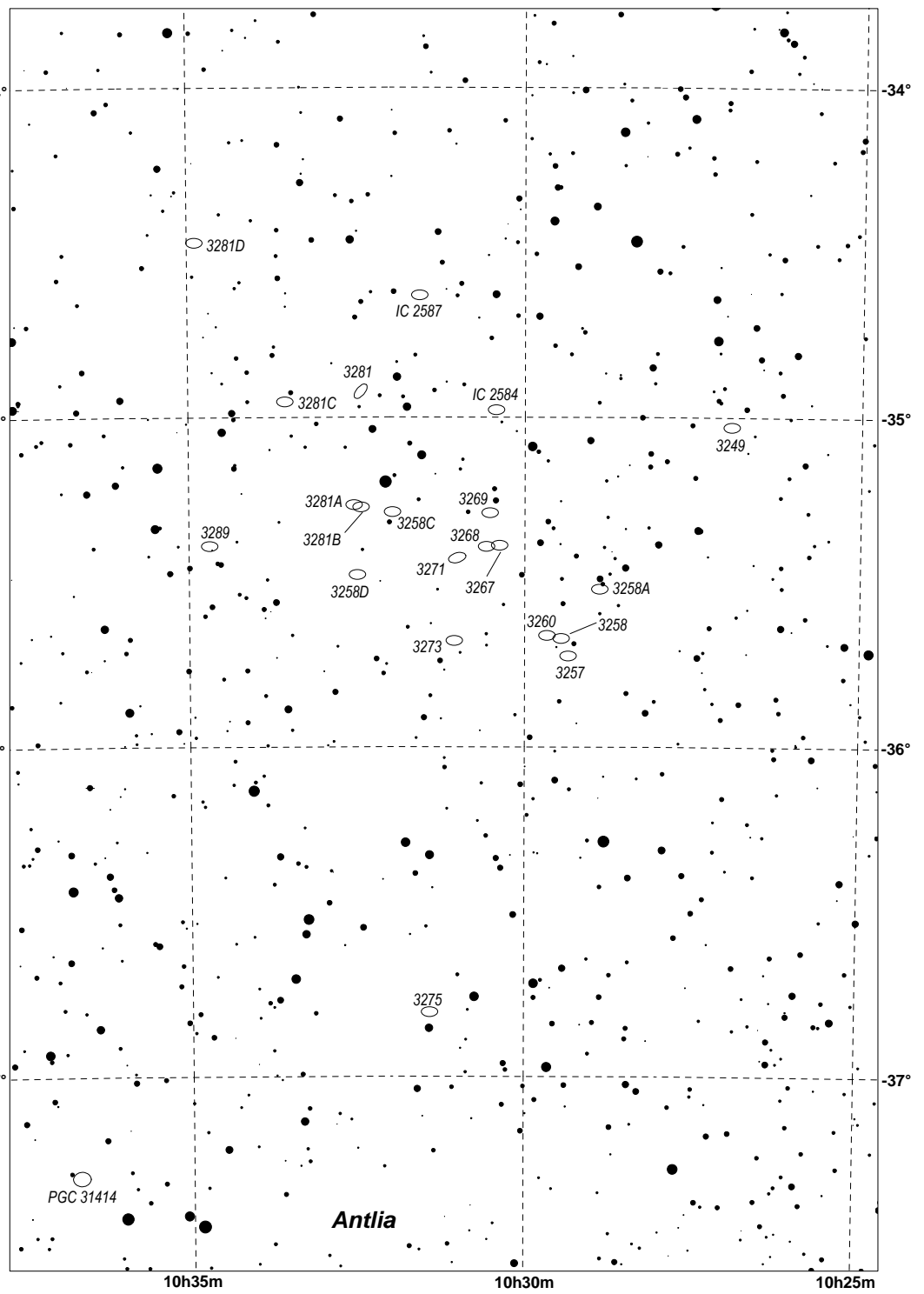




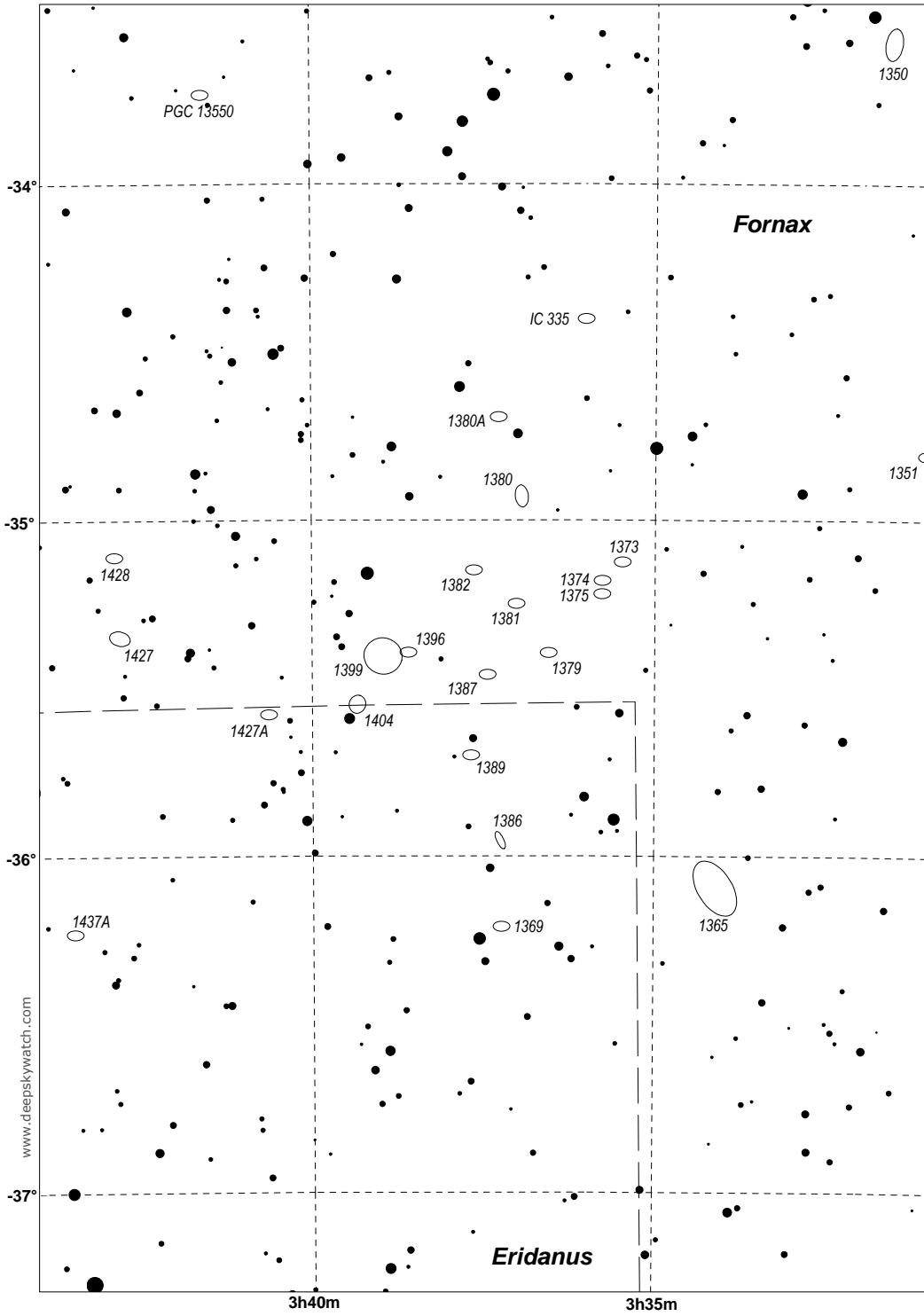
A18 - Hydra cluster Abell 1060



A19 - Antlia's cluster Abell S0636



A20 - Fornax cluster Abell S0373



A21 - Centaurus cluster Abell 3526

