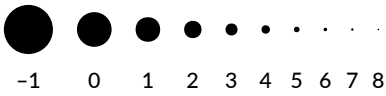
superlight.fr

ATLAS

of the skies

Legend



Star magnitudes

Double star · Variable star (max. and min.) · Meteor shower radiant

Constellation figure · Ecliptic · Track (1 January)

Galaxy · Open cluster · Globular cluster

Nebula · Dark nebula · Planetary nebula

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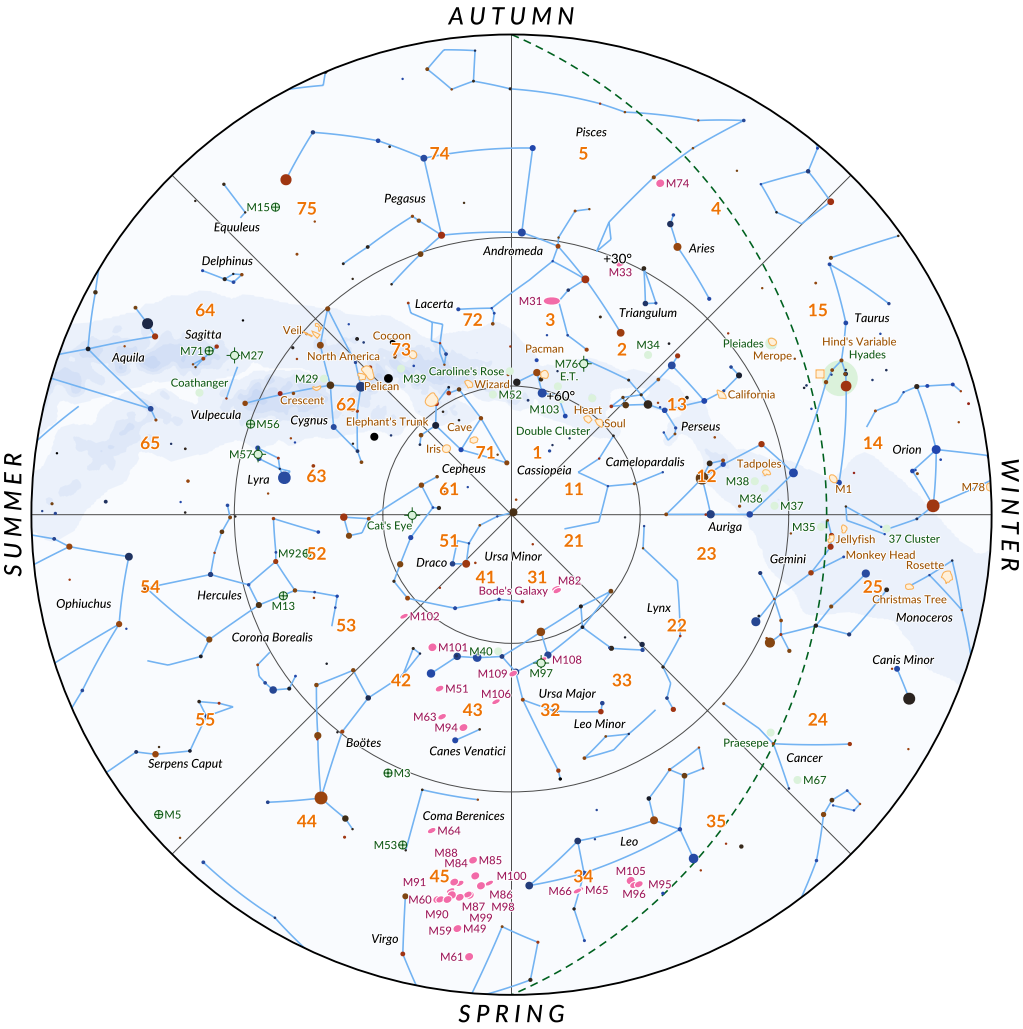
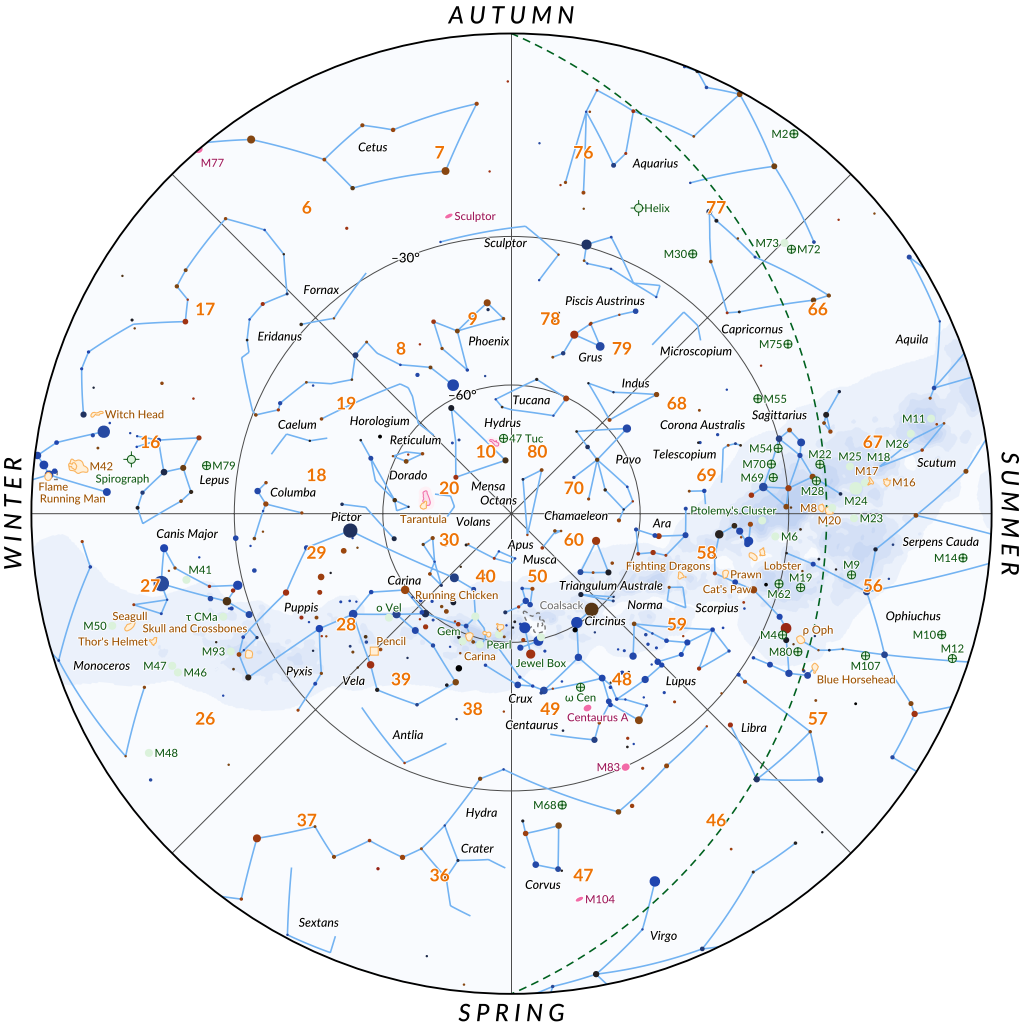
Sources: Hipparcos (van Leeuwen 2007), SAO, CDS/SIMBAD, CDS/VizieR, Wikidata, IAU/Sky & Telescope, ESO/S. Brunier, WHAM, WISE (NASA/JPL-Caltech/UCLA), IRAS/IRIS, GALEX, Pan-STARRS1, T.A. Rector (NOIRLab/NSF/AURA), Schlegel, Finkbeiner & Davis (1998), d3-celestial (O. Frohn).

Northern celestial hemisphere



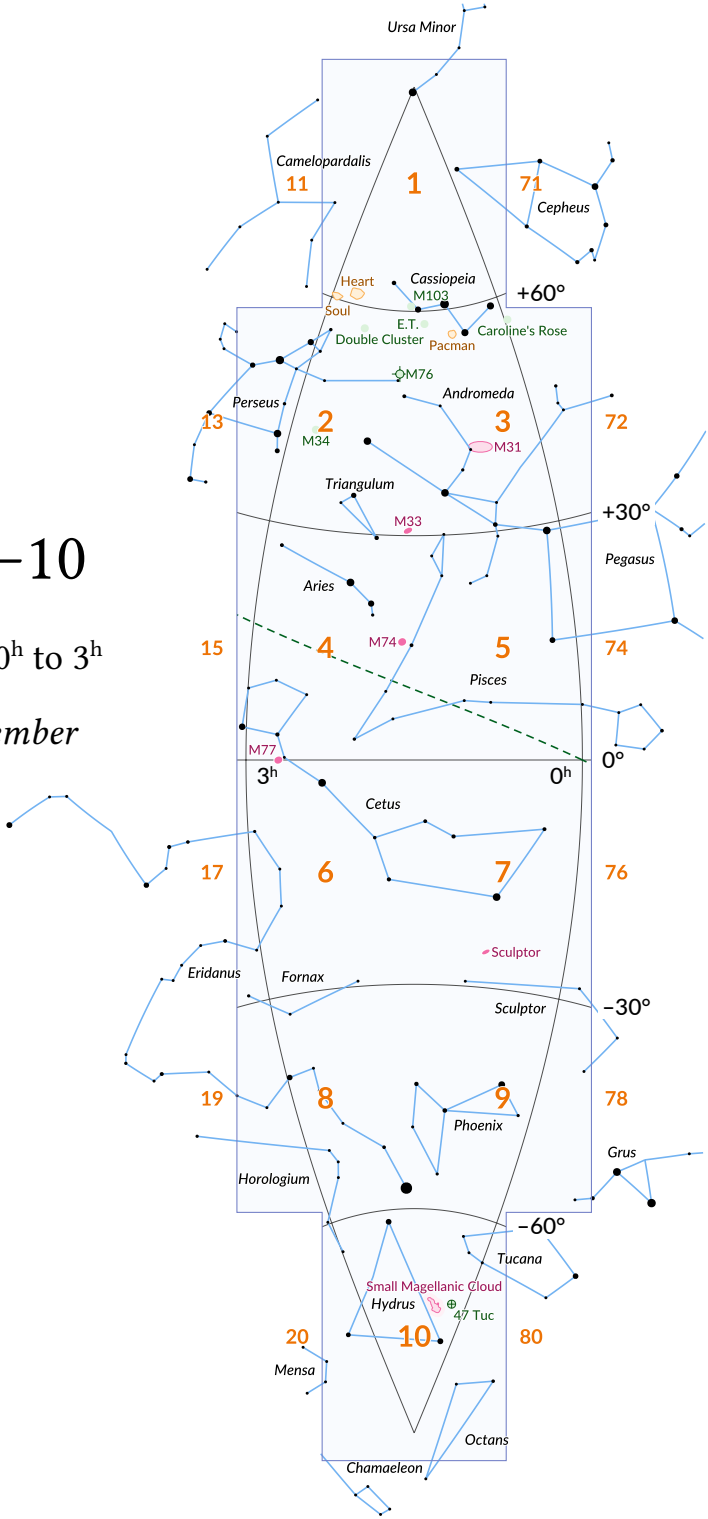
Southern celestial hemisphere

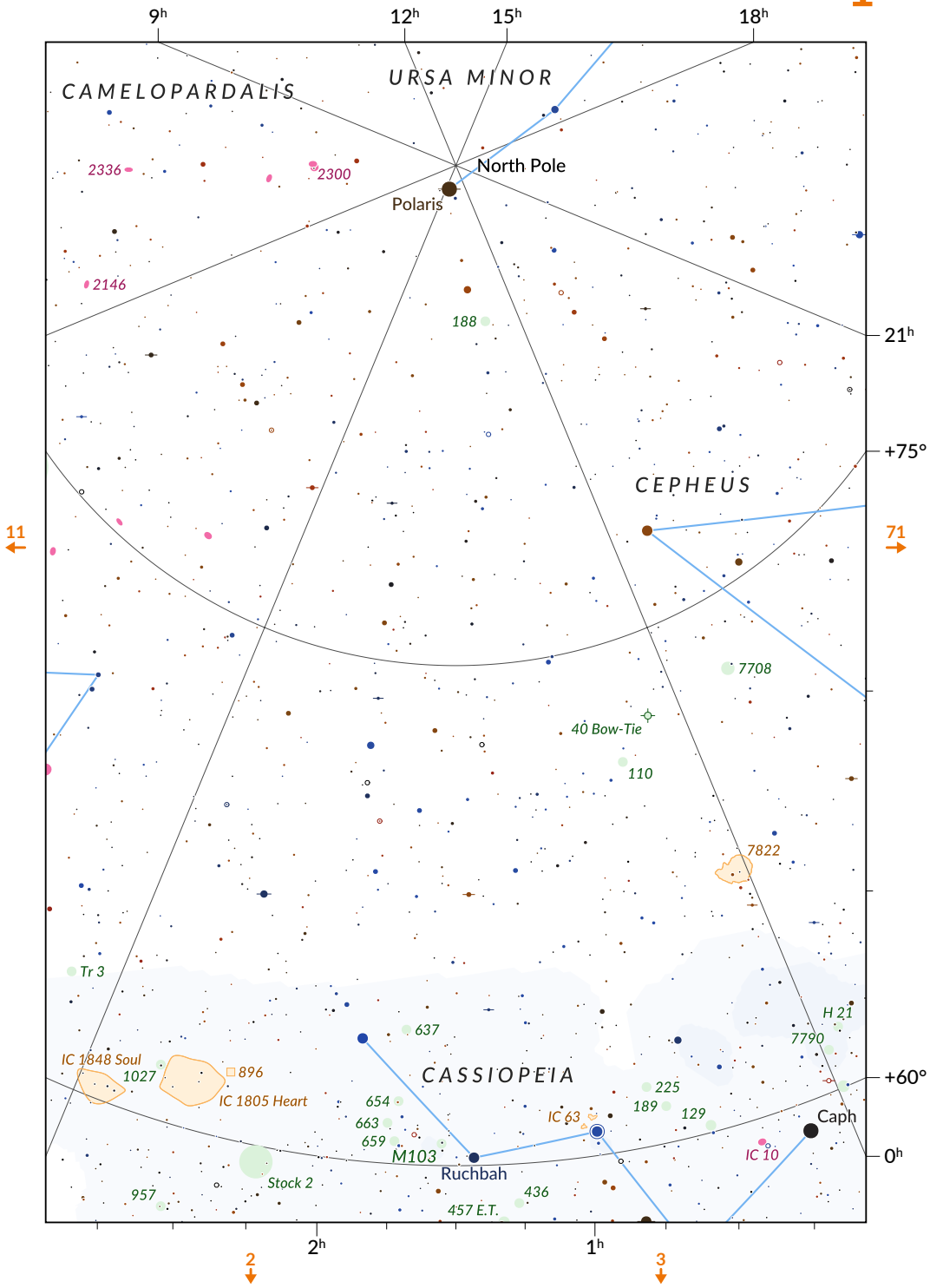


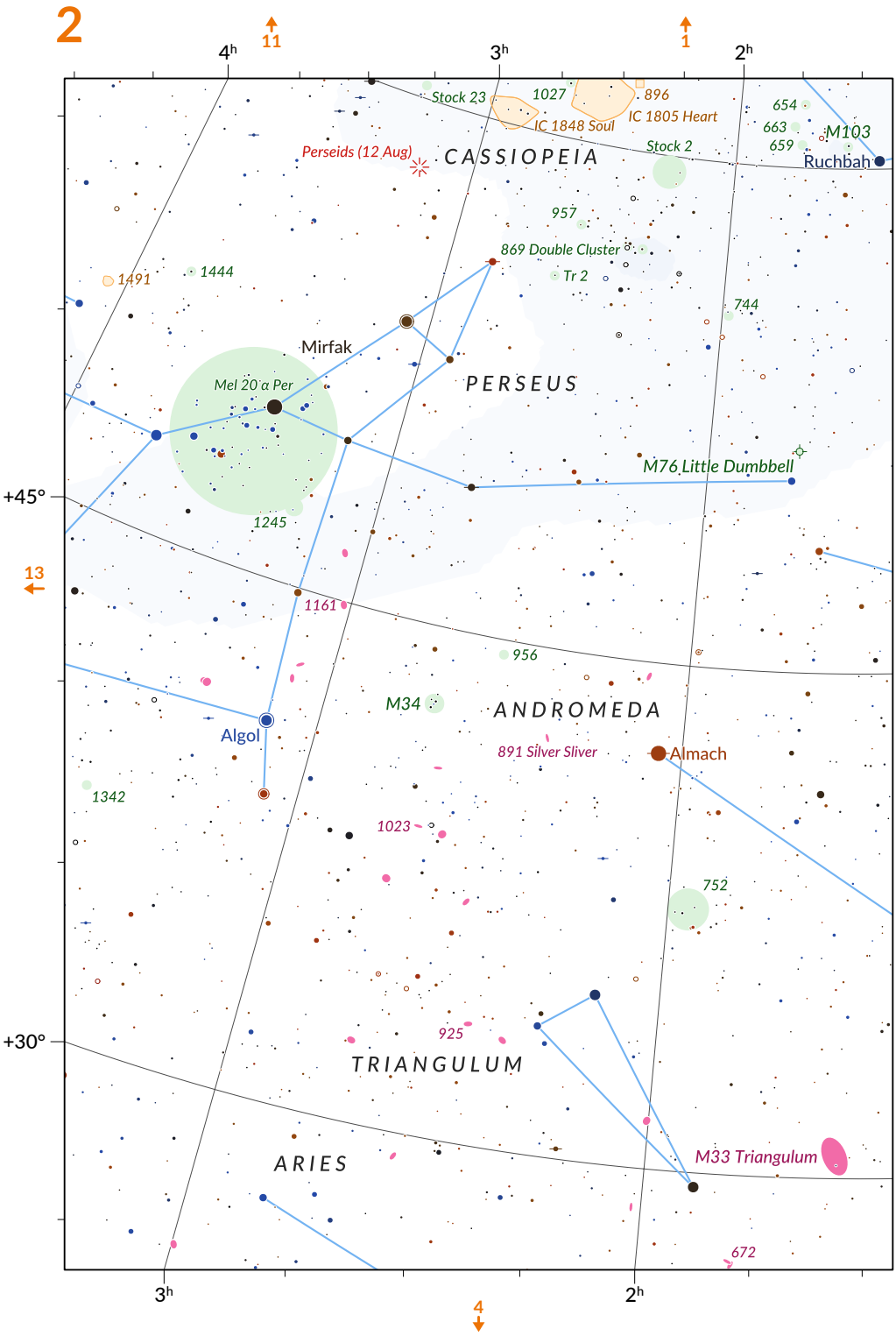
Charts 1–10

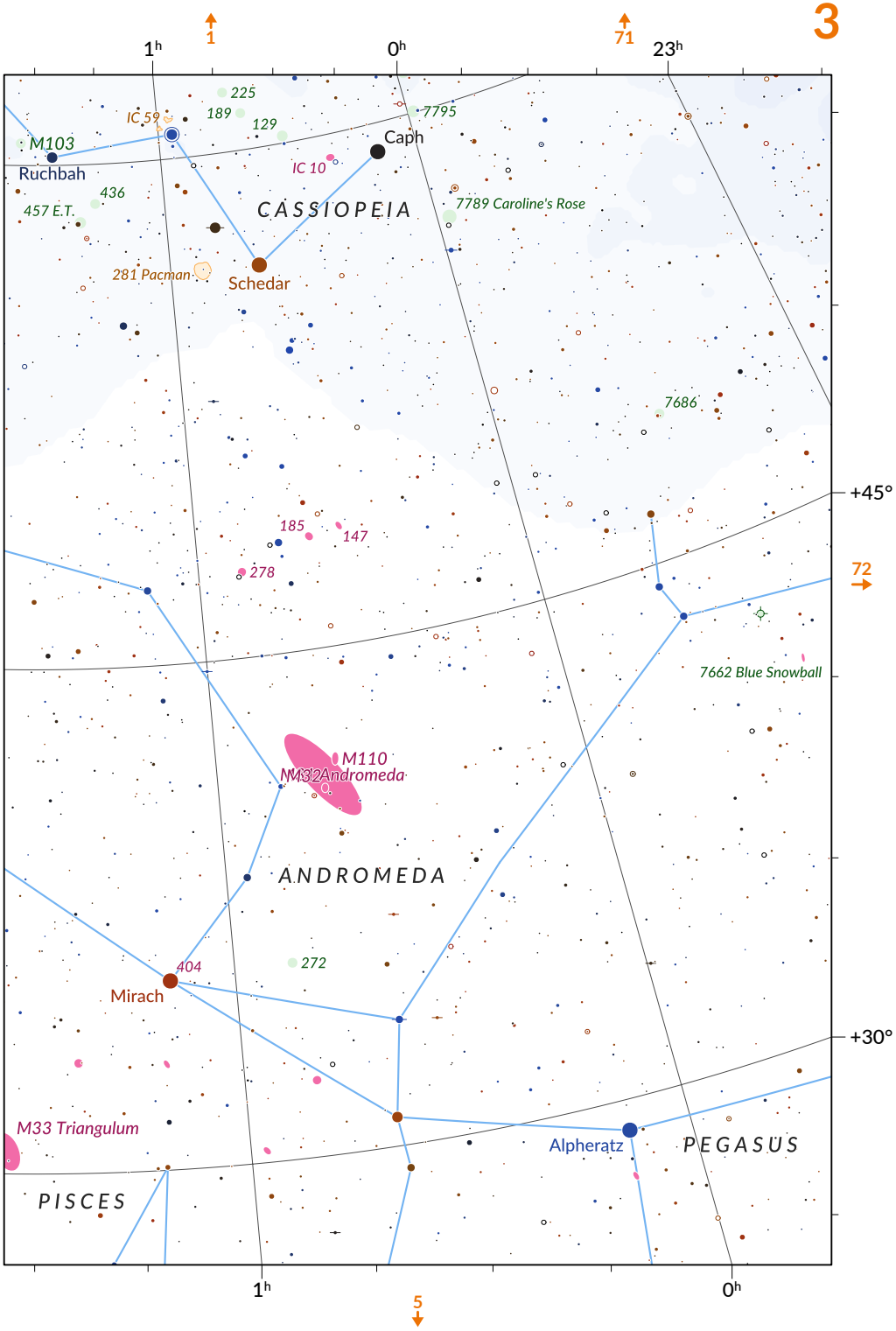
Right ascension 0^h to 3^h

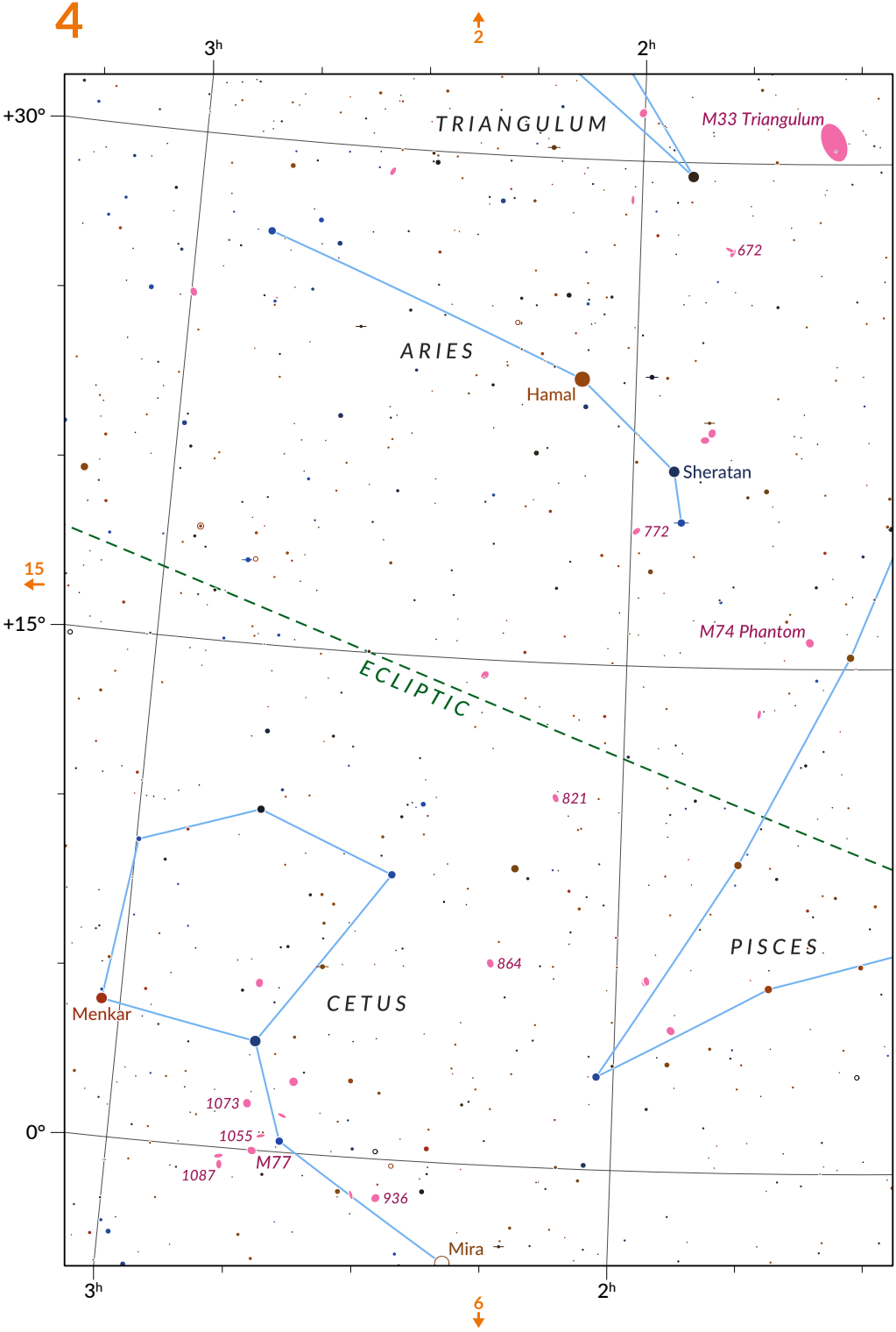
November/December

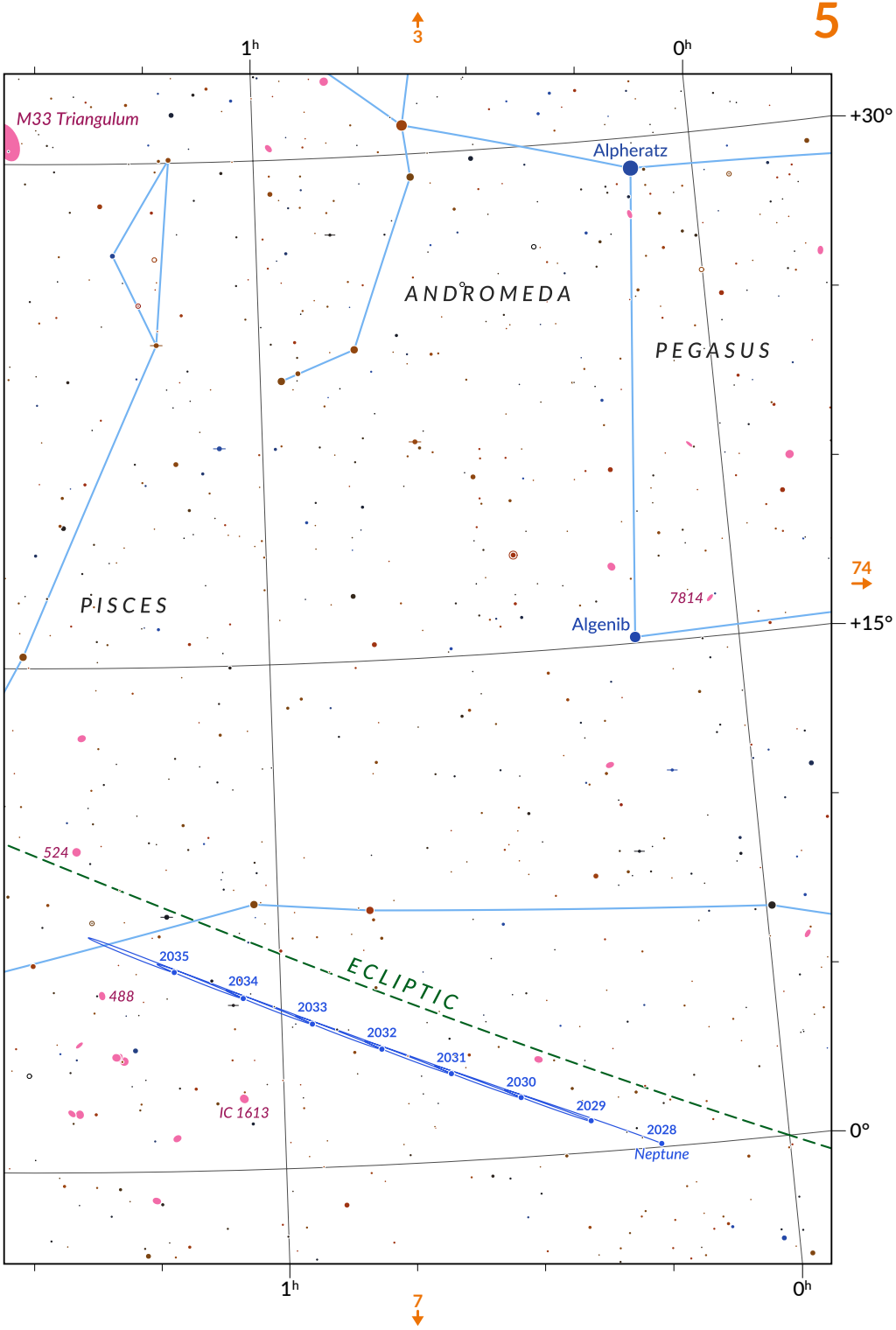


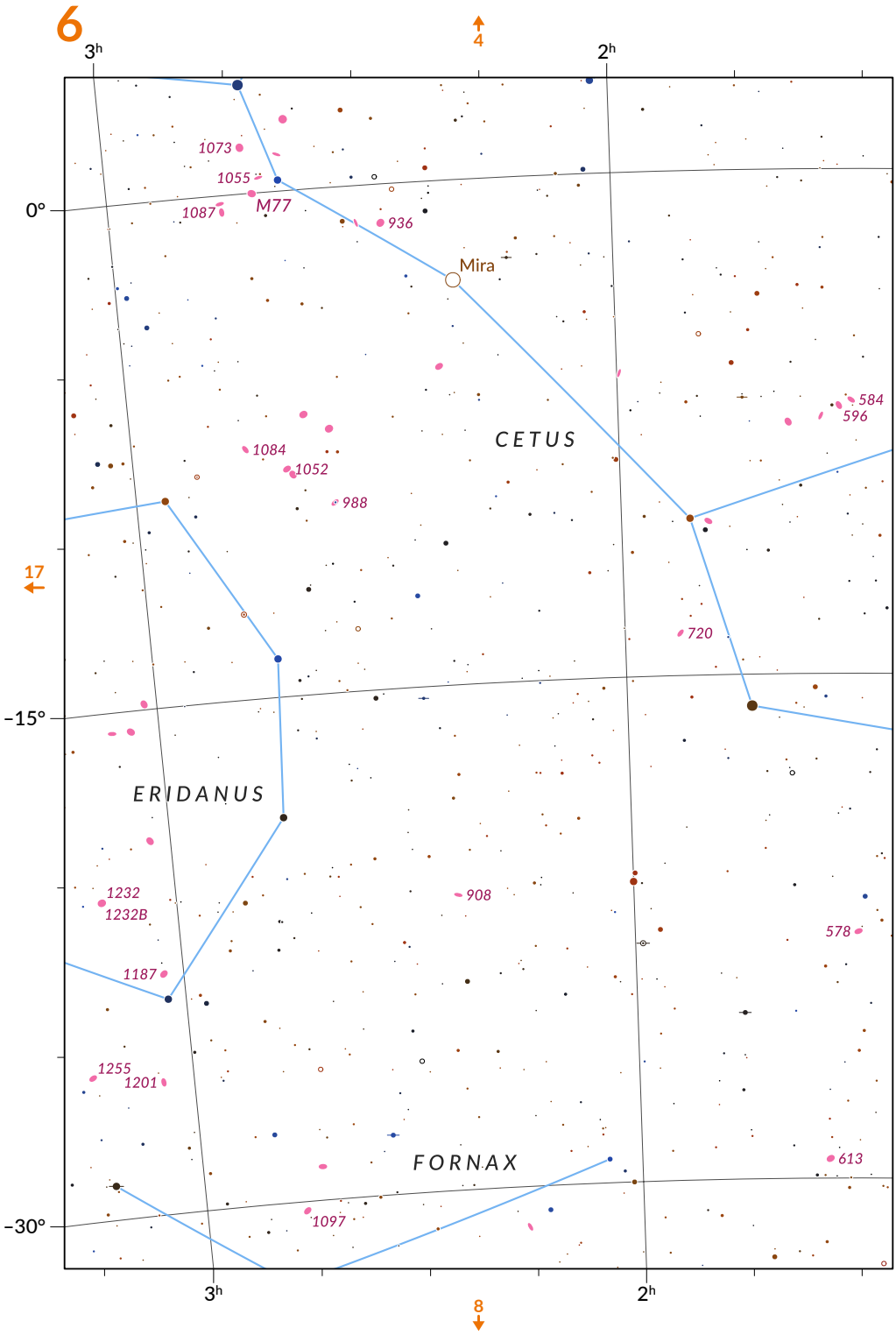

9h
12h
15h
18h
21h
+75°
+60°
0h
2h
1h
CAMELOPARDALIS
URSA MINOR
North Pole
Polaris
2336
2300
2146
188
CEPHEUS
11
71
7708
40 Bow-Tie
110
7822
Tr 3
637
H 21
7790
IC 1848 Soul
1027
896
IC 1805 Heart
CASSIOPEIA
654
663
659
225
189
129
IC 63
Caph
M103
Ruchbah
IC 10
Stock 2
957
436
457 E.T.
2
3

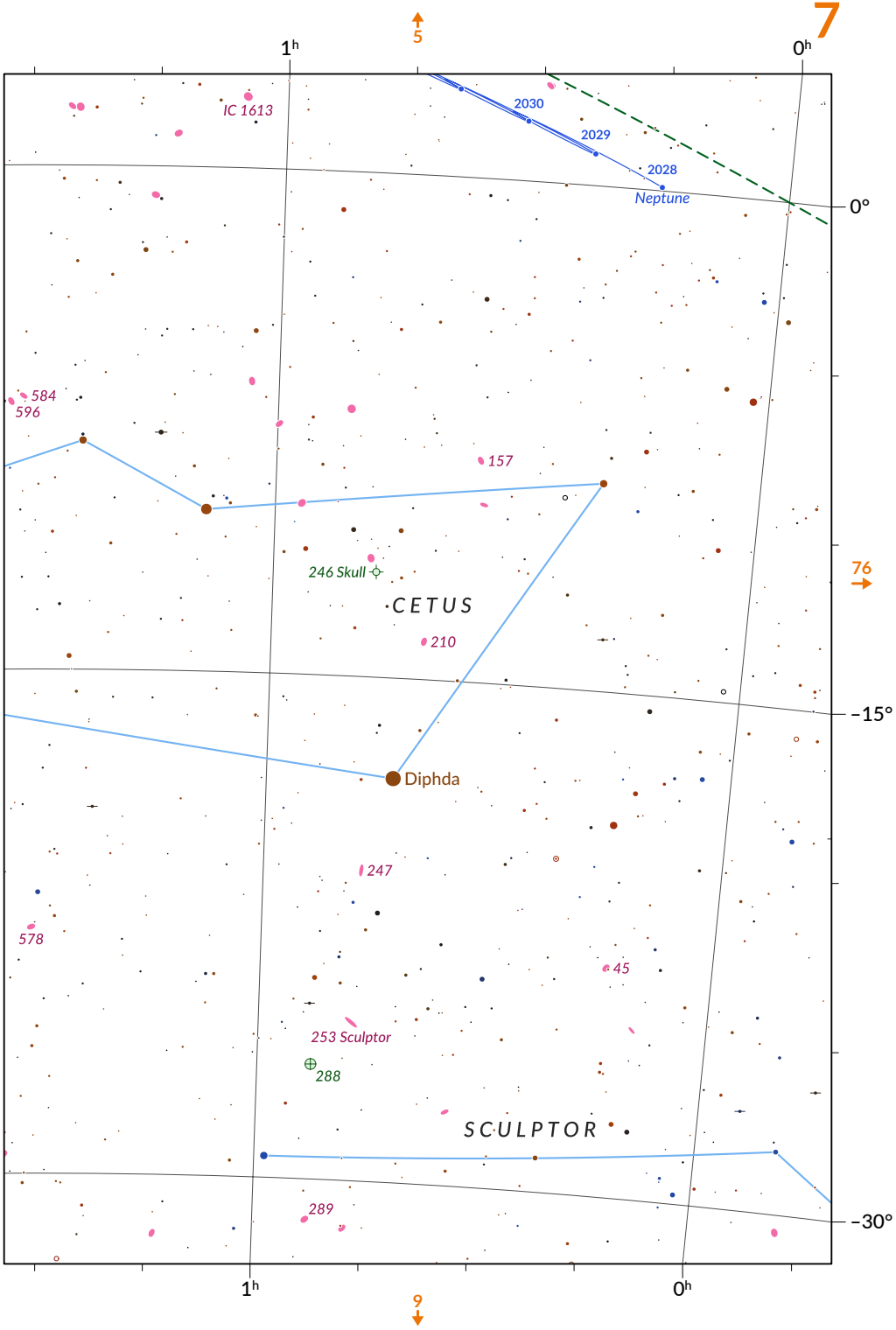

2
11
1
13
4
4h
3h
2h
+45°
+30°
Stock 23
1027
896
IC 1848 Soul
IC 1805 Heart
654
663
659
M103
Ruchbah
Stock 2
Perseids (12 Aug)
CASSIOPEIA
957
869 Double Cluster
Tr 2
1491
1444
744
Mirfak
Mel 20 α Per
PERSEUS
M76 Little Dumbbell
1245
1161
956
M34
ANDROMEDA
Algol
891 Silver Sliver
Almach
1342
1023
752
925
TRIANGULUM
ARIES
M33 Triangulum
672

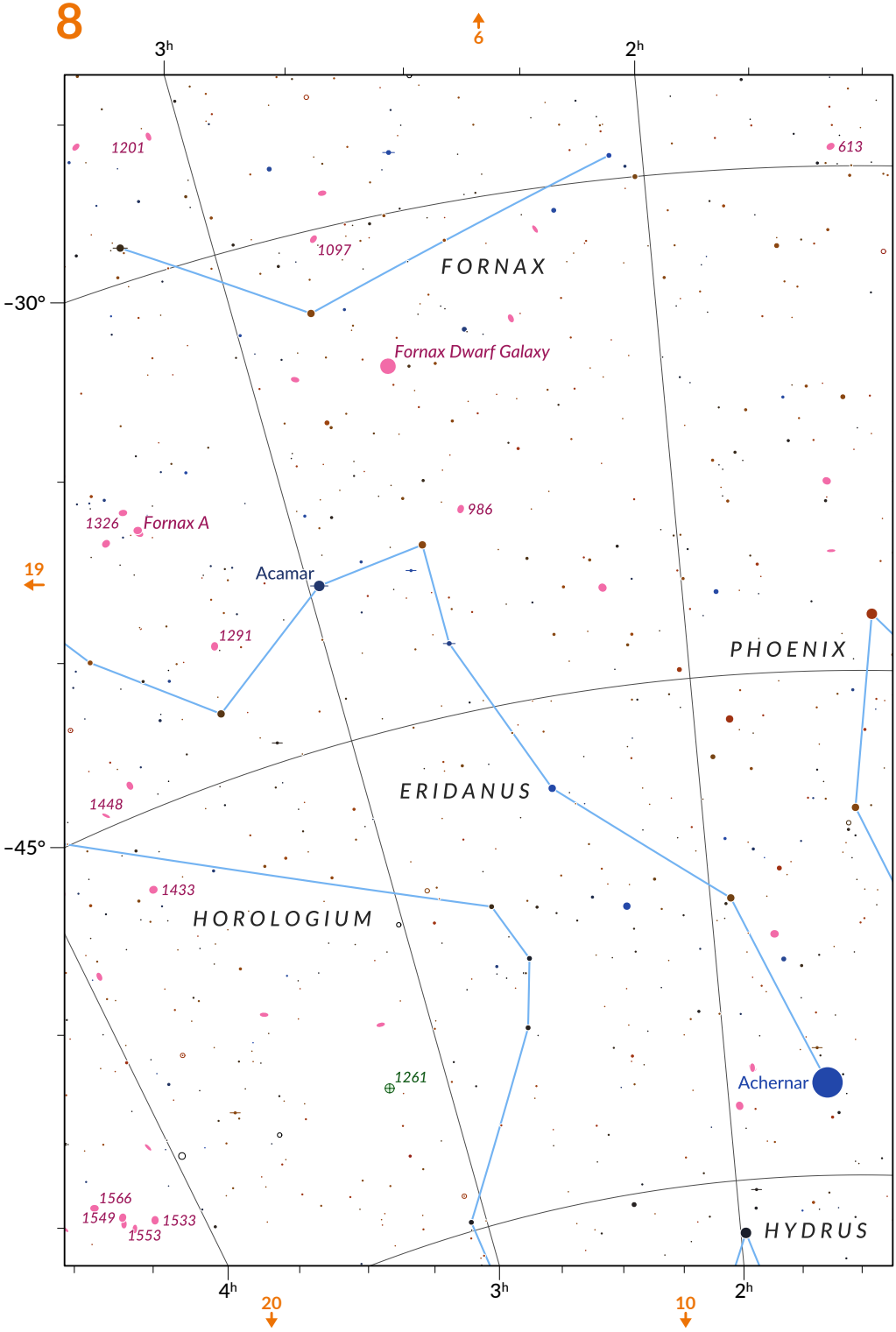

3
1
71
72
5
1h
0h
23h
+45°
+30°
225
189
129
IC 59
M103
Ruchbah
436
457 E.T.
7795
Caph
IC 10
CASSIOPEIA
7789 Caroline's Rose
281 Pacman
Schedar
7686
185
147
278
7662 Blue Snowball
M110
M31 Andromeda
ANDROMEDA
404
272
Mirach
M33 Triangulum
Alpheratz
PEGASUS
PISCES

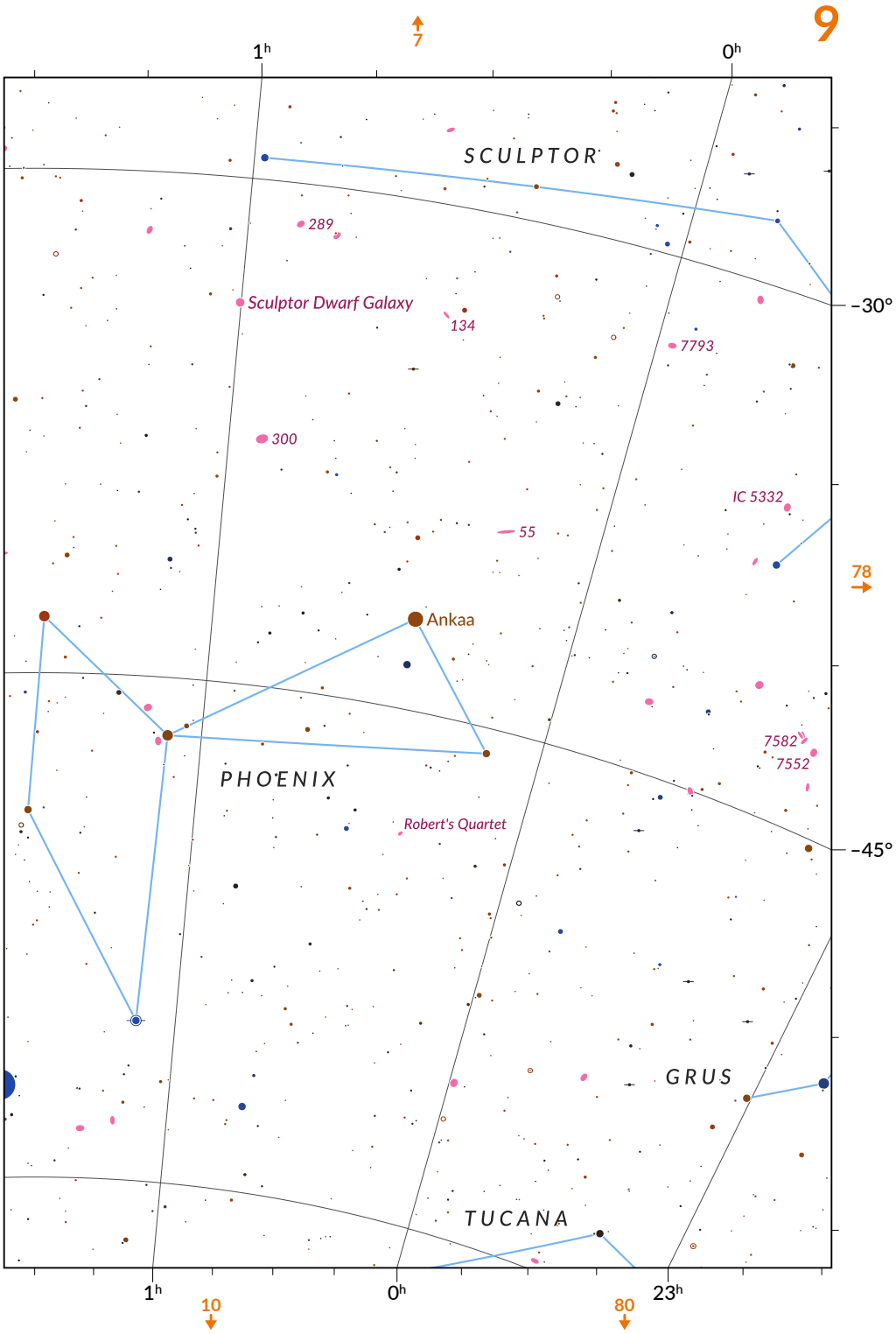

2
3h
2h
+30°
TRIANGULUM
M33 Triangulum
672
ARIES
Hamal
Sheratan
772
15
+15°
M74 Phantom
ECLIPTIC
821
PISCES
864
CETUS
Menkar
1073
0°
1055
M77
1087
936
Mira
3h
2h
6

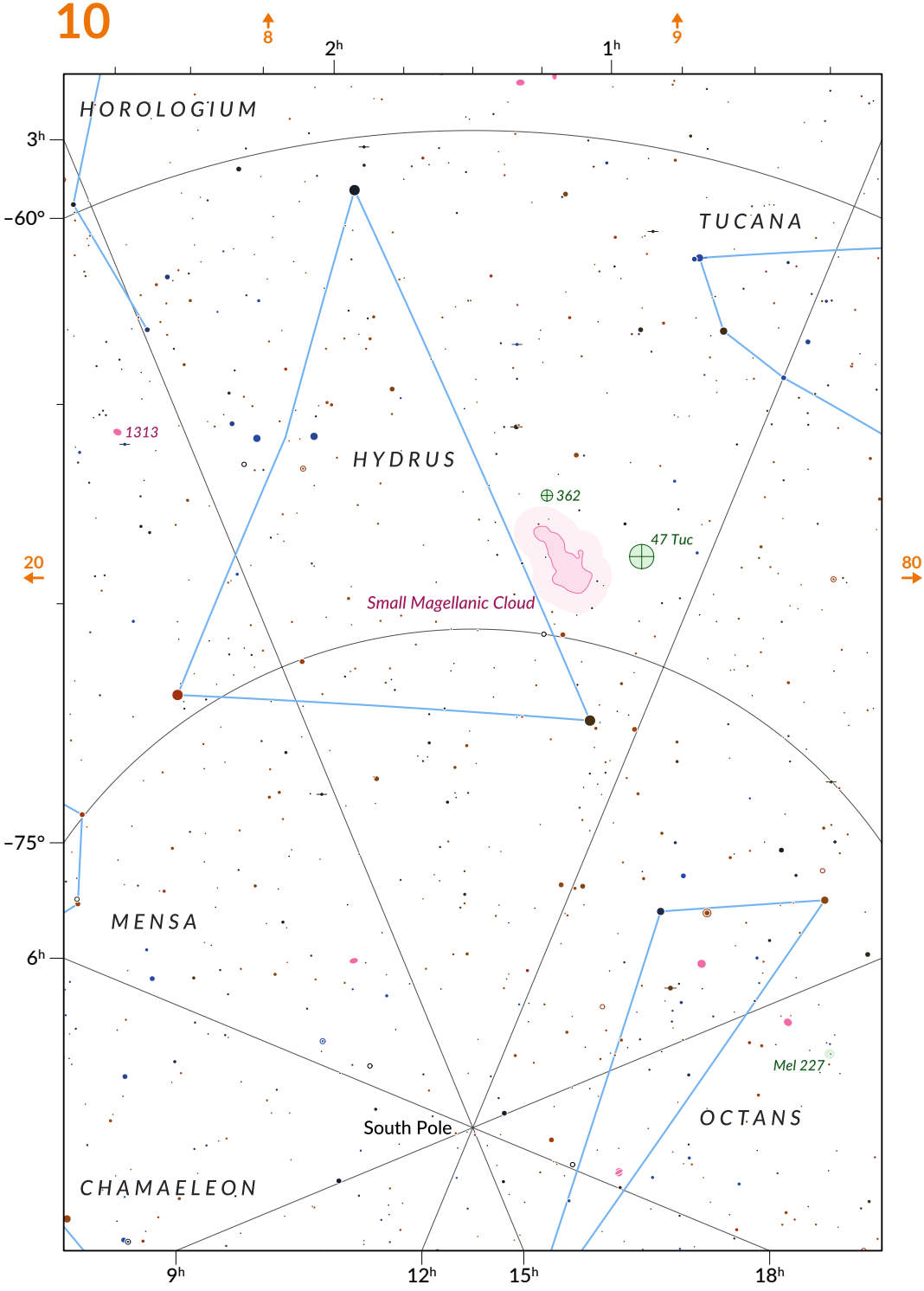

3
1h
0h
+30°
M33 Triangulum
Alpheratz
ANDROMEDA
PEGASUS
74
7814
PISCES
Algenib
+15°
524
ECLIPTIC
2035
2034
488
2033
2032
2031
2030
2029
IC 1613
2028
Neptune
0°
1h
0h
7


6
4
3h
2h
0°
17
−15°
−30°
8
1073
1055
M77
1087
936
Mira
584
596
CETUS
1084
1052
988
720
ERIDANUS
1232
1232B
908
578
1187
1255
1201
FORNAX
613
1097

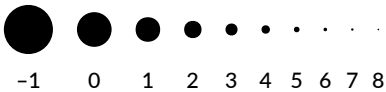

5
1h
0h
IC 1613
2030
2029
2028
Neptune
0°
584
596
157
246 Skull
CETUS
76
210
−15°
Diphda
247
578
45
253 Sculptor
288
SCULPTOR
289
−30°
1h
0h
9


3h
6
2h
1201
613
1097
FORNAX
−30°
Fornax Dwarf Galaxy
986
1326
Fornax A
19
Acamar
1291
PHOENIX
ERIDANUS
1448
−45°
1433
HOROLOGIUM
1261
Achernar
1566
1549
1533
1553
HYDRUS
4h
20
3h
10
2h


9
7
1h
0h
SCULPTOR
289
Sculptor Dwarf Galaxy
134
7793
−30°
300
IC 5332
55
78
Ankaa
7582
7552
PHOENIX
Robert's Quartet
−45°
GRUS
TUCANA
1h
0h
23h
10
80


8
9
2h
1h
HOROLOGIUM
3h
−60°
TUCANA
1313
HYDRUS
362
47 Tuc
20
80
Small Magellanic Cloud
−75°
MENSA
6h
Mel 227
South Pole
OCTANS
CHAMAELEON
9h
12h
15h
18h

Legend



Star magnitudes

Double star

Variable star (max. and min.)

Meteor shower radiant

Constellation figure

Ecliptic

Track (1 January)

Galaxy

Open cluster

Globular cluster

Nebula

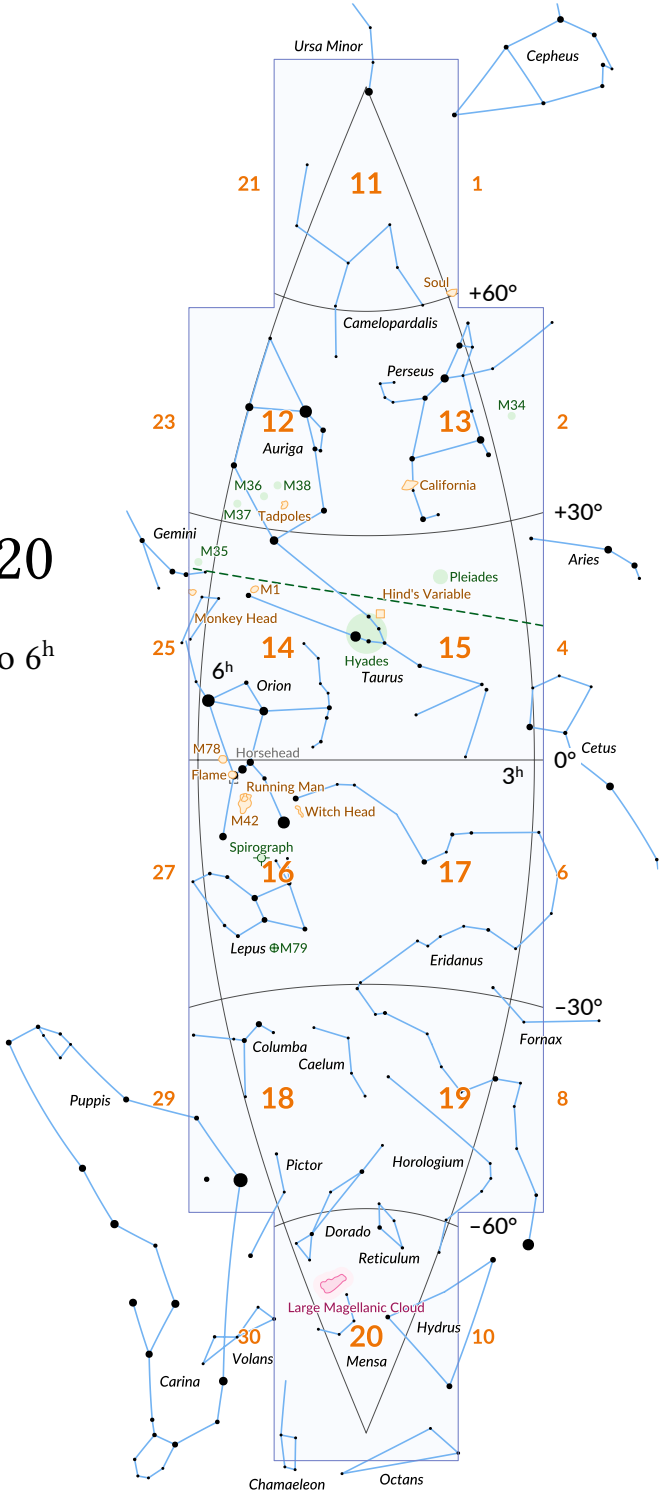
Dark nebula

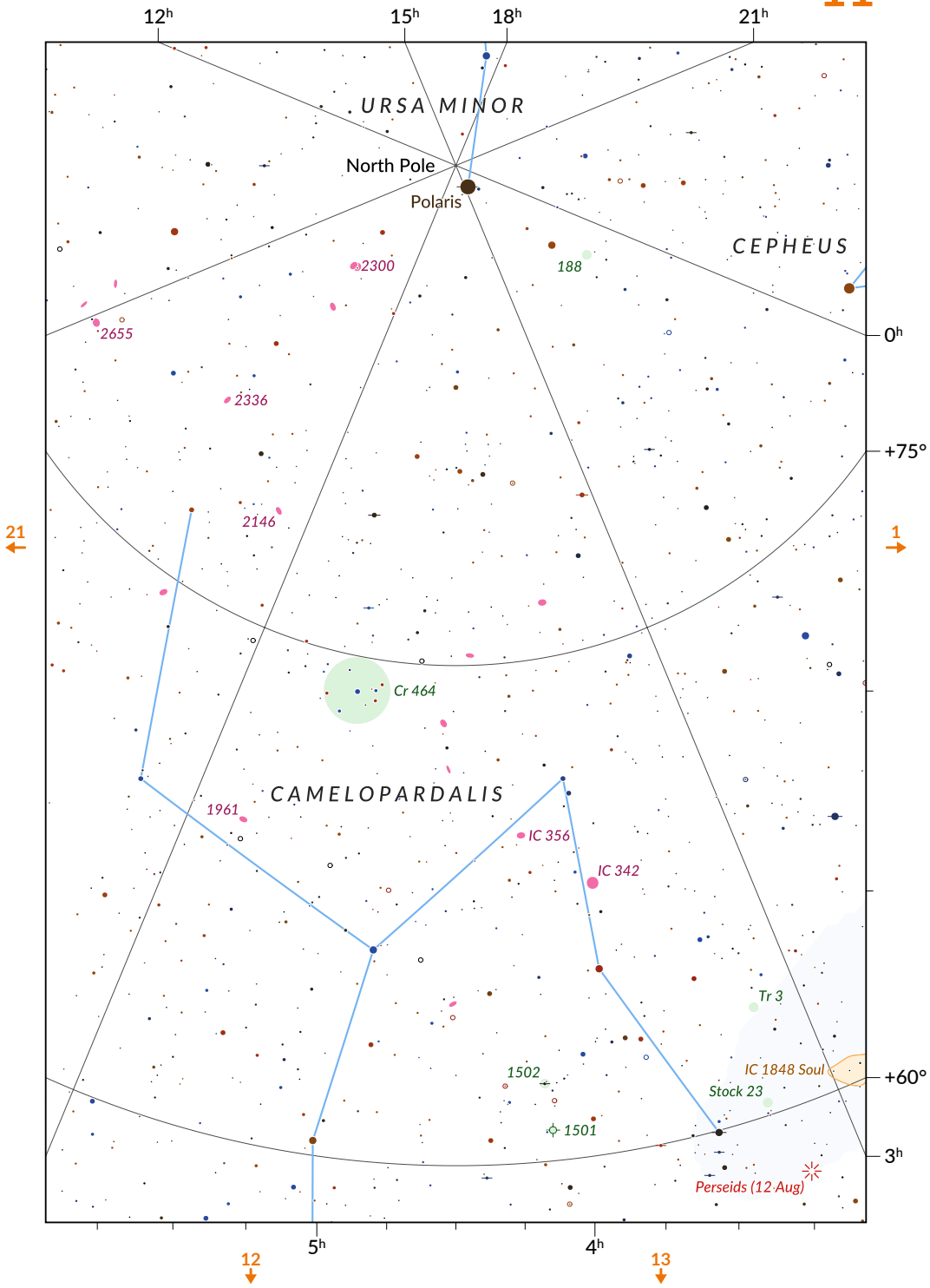
Planetary nebula

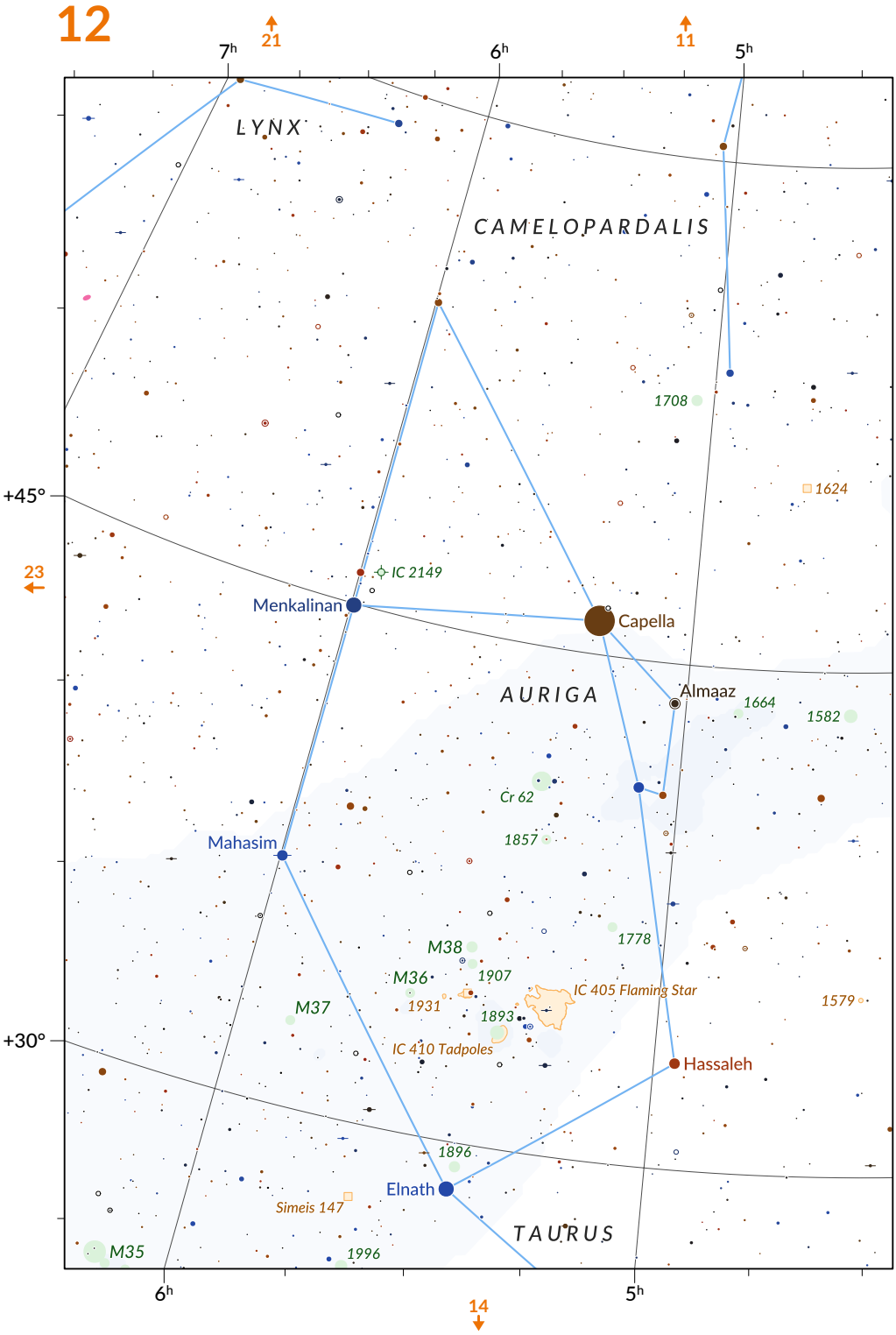
Charts 11–20

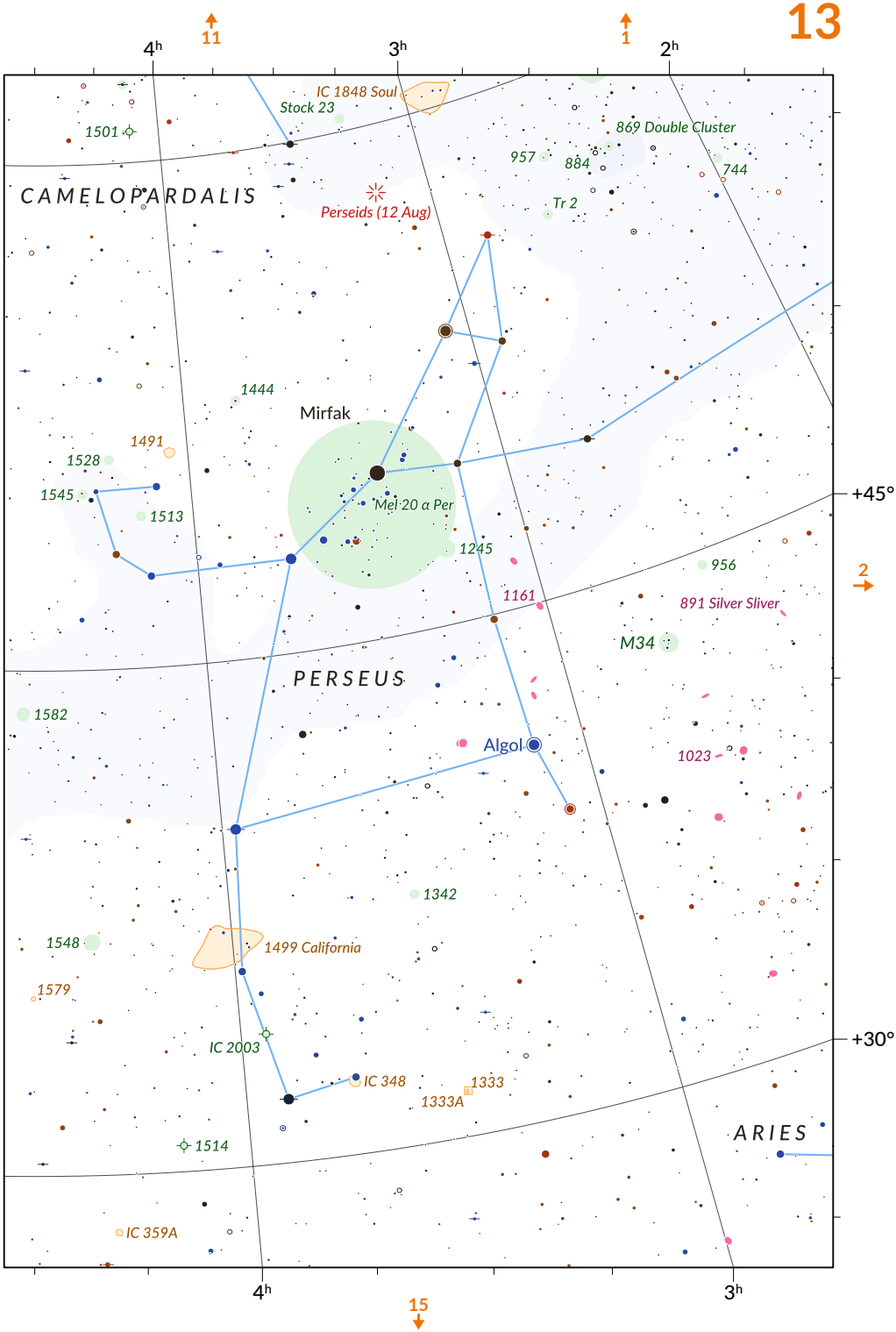
Right ascension 3^h to 6^h

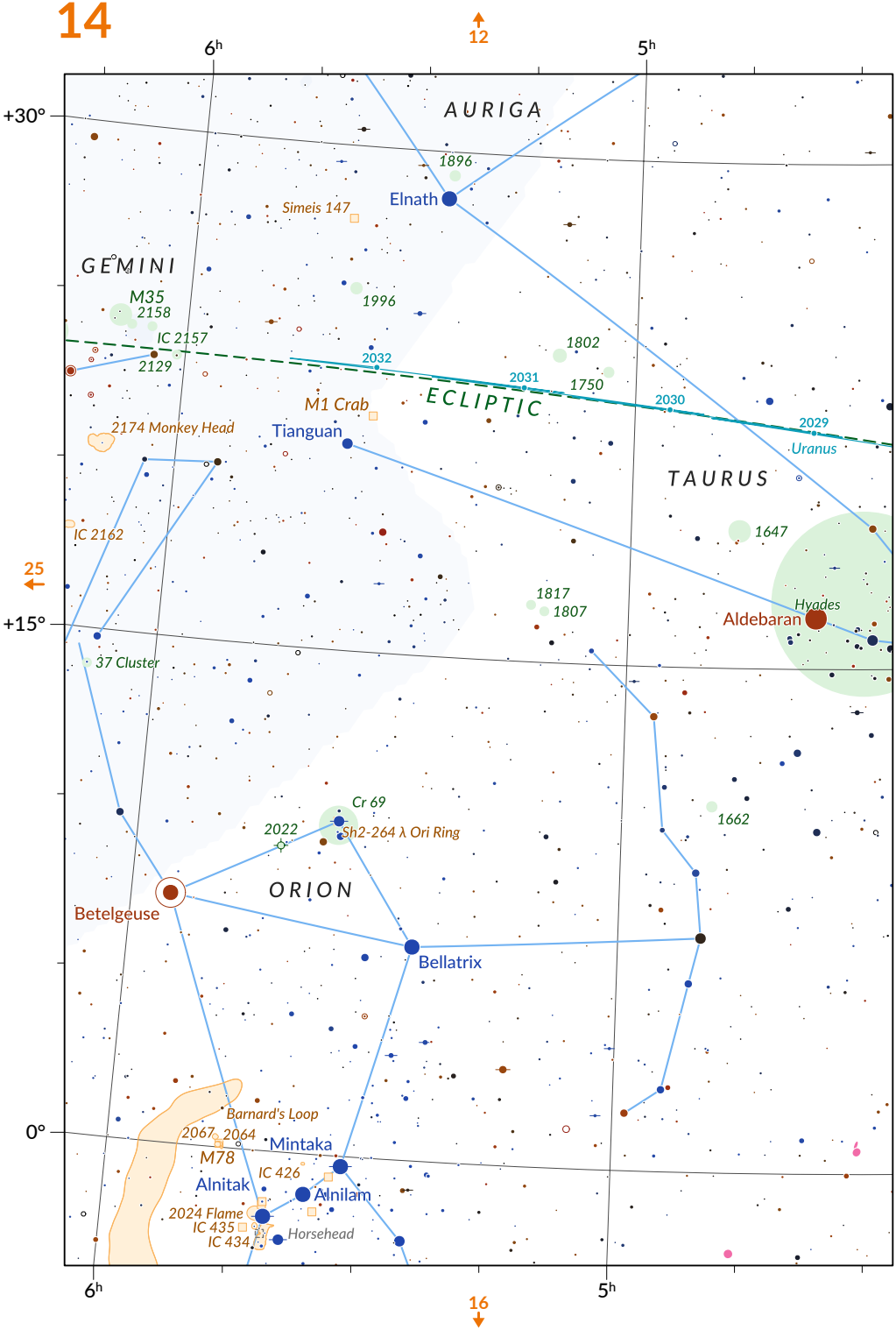
January

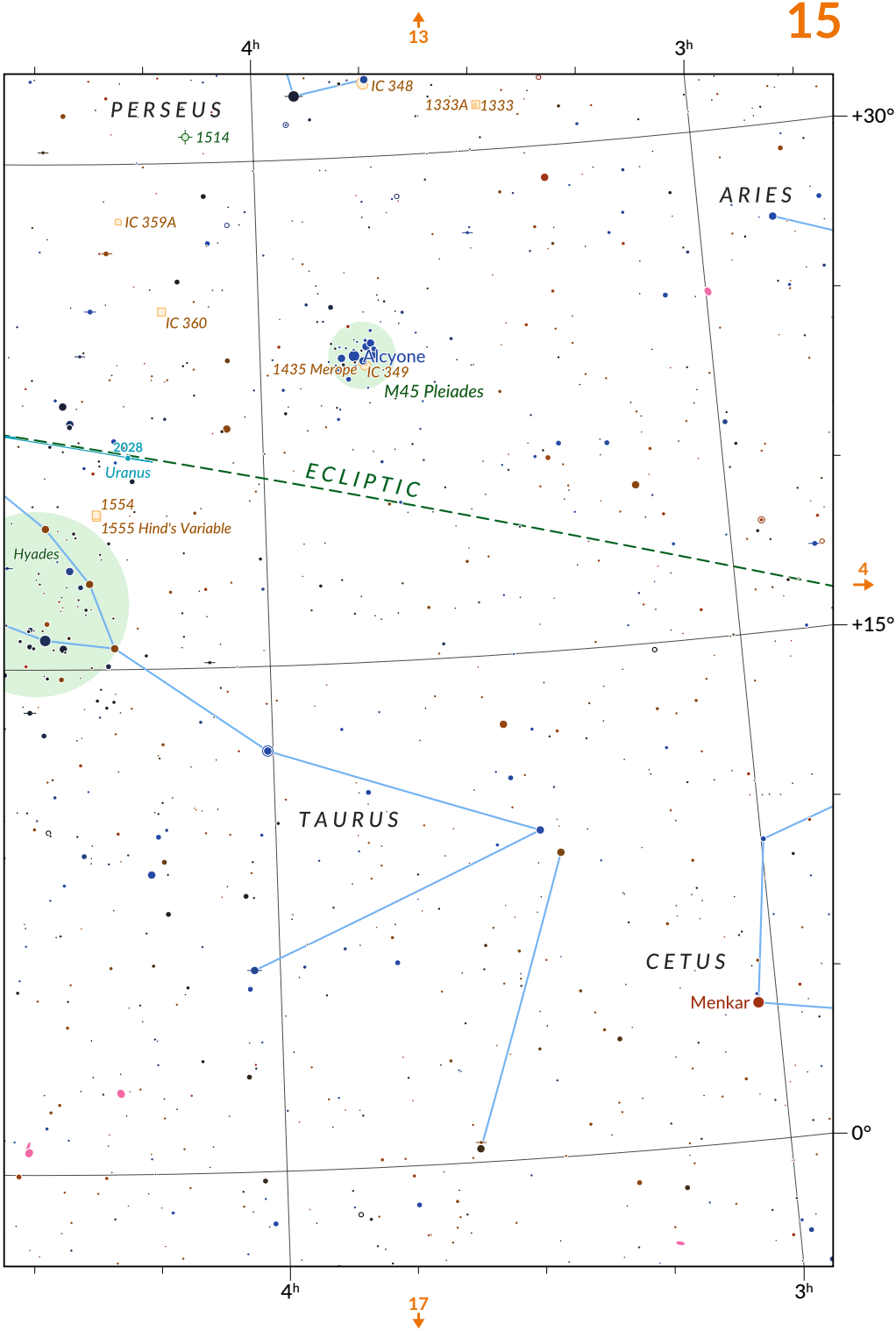


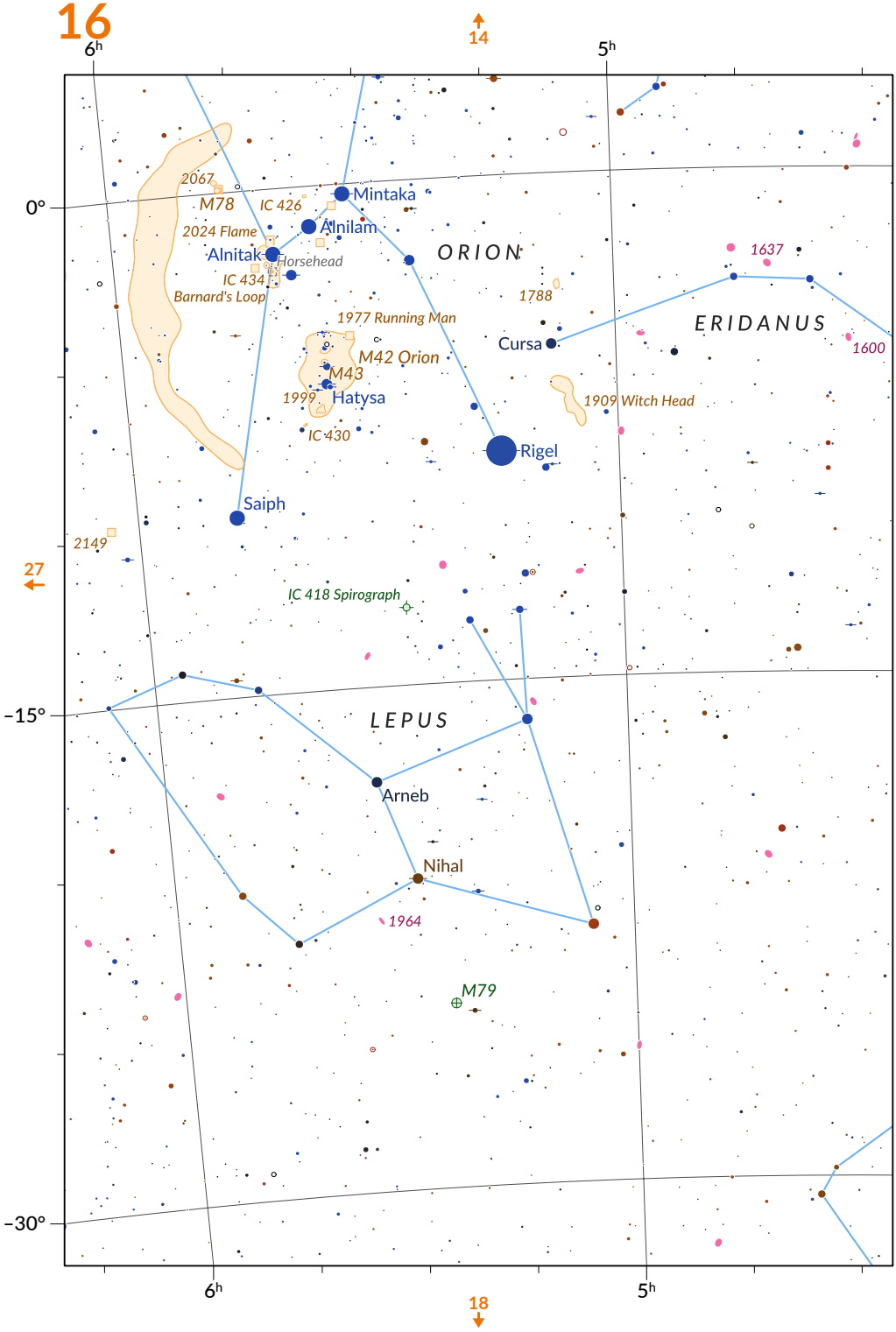

12h
15h
18h
21h
URSA MINOR
North Pole
Polaris
CEPHEUS
2300
188
2655
2336
2146
0h
+75°
21
1
Cr 464
CAMELOPARDALIS
1961
IC 356
IC 342
Tr 3
IC 1848 Soul
Stock 23
1502
1501
+60°
3h
Perseids (12 Aug)
5h
4h
12
13

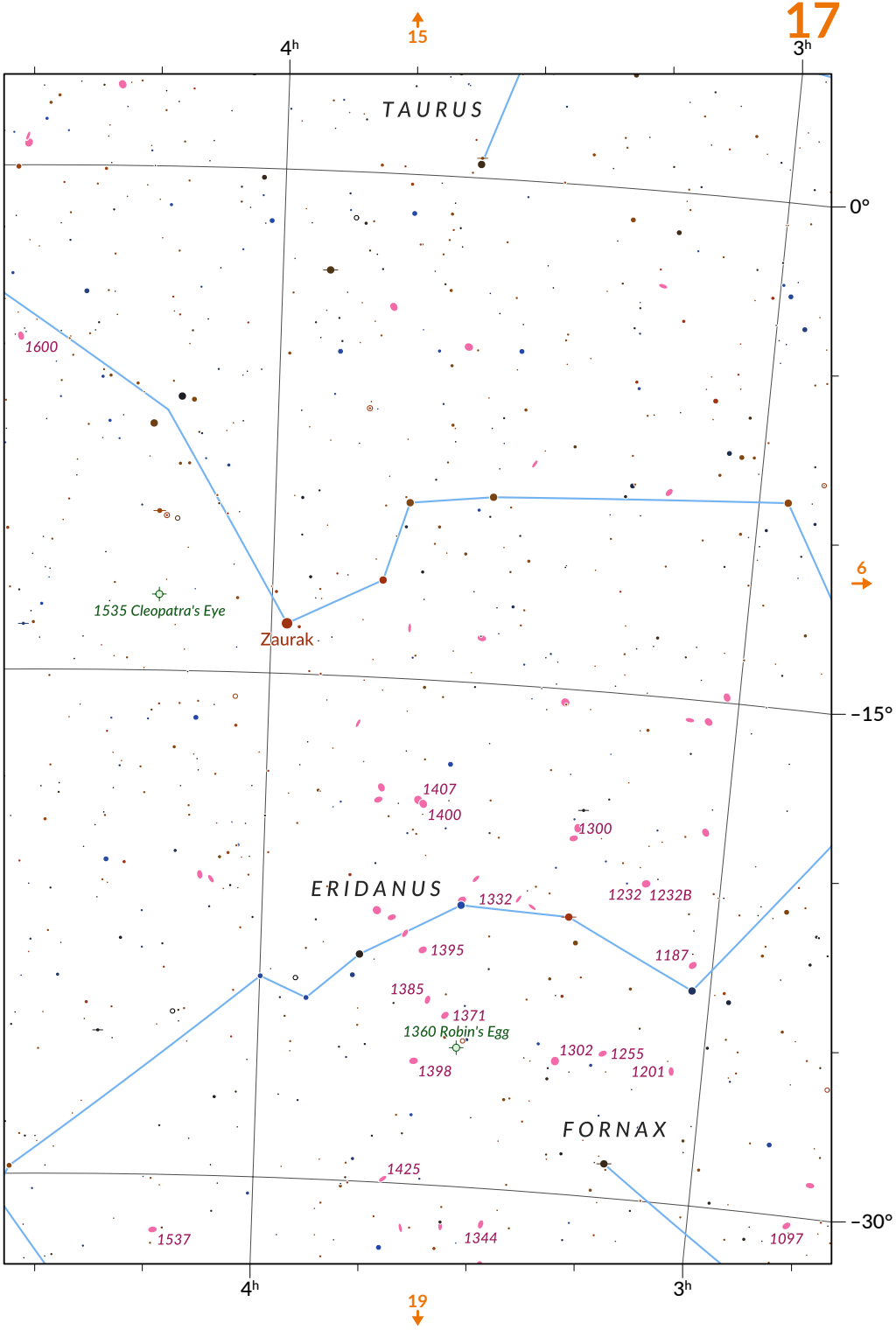

21
11
7h
6h
5h
LYNX
CAMELOPARDALIS
1708
1624
+45°
23
IC 2149
Menkalinan
Capella
AURIGA
Almaaz
1664
1582
Cr 62
1857
Mahasim
1778
M38
M36
1907
IC 405 Flaming Star
M37
1931
1893
1579
+30°
IC 410 Tadpoles
Hassaleh
1896
Elnath
Simeis 147
TAURUS
M35
1996
6h
5h
14

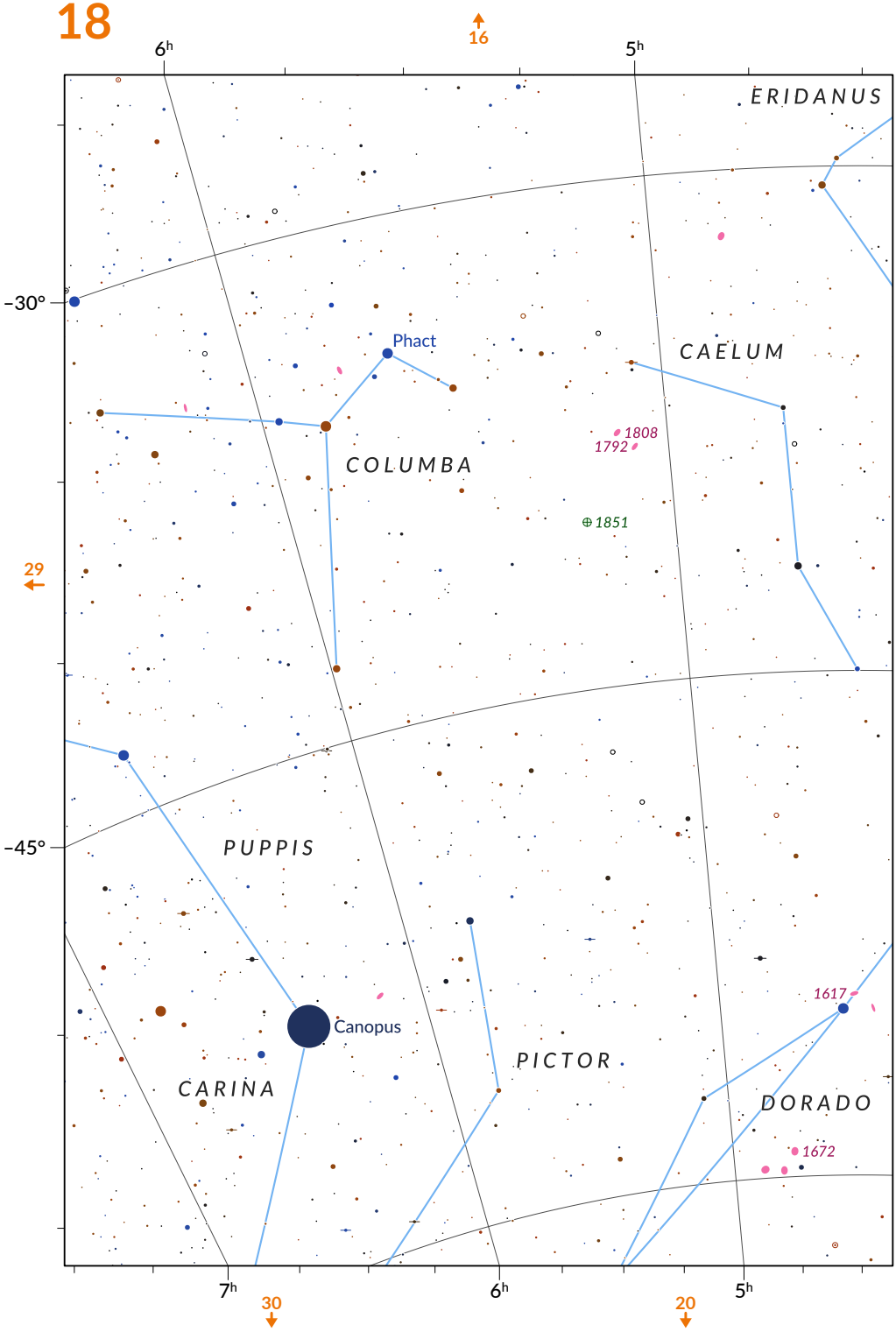

11
1
4h
3h
2h
IC 1848 Soul
Stock 23
1501
869 Double Cluster
957
884
744
CAMELOPARDALIS
Perseids (12 Aug)
Tr 2
1444
Mirfak
1491
1528
1545
1513
Mel 20 α Per
+45°
1245
956
2
1161
891 Silver Sliver
M34
PERSEUS
1582
Algol
1023
1342
1548
1499 California
1579
IC 2003
+30°
IC 348
1333
1333A
ARIES
1514
IC 359A
4h
3h
15

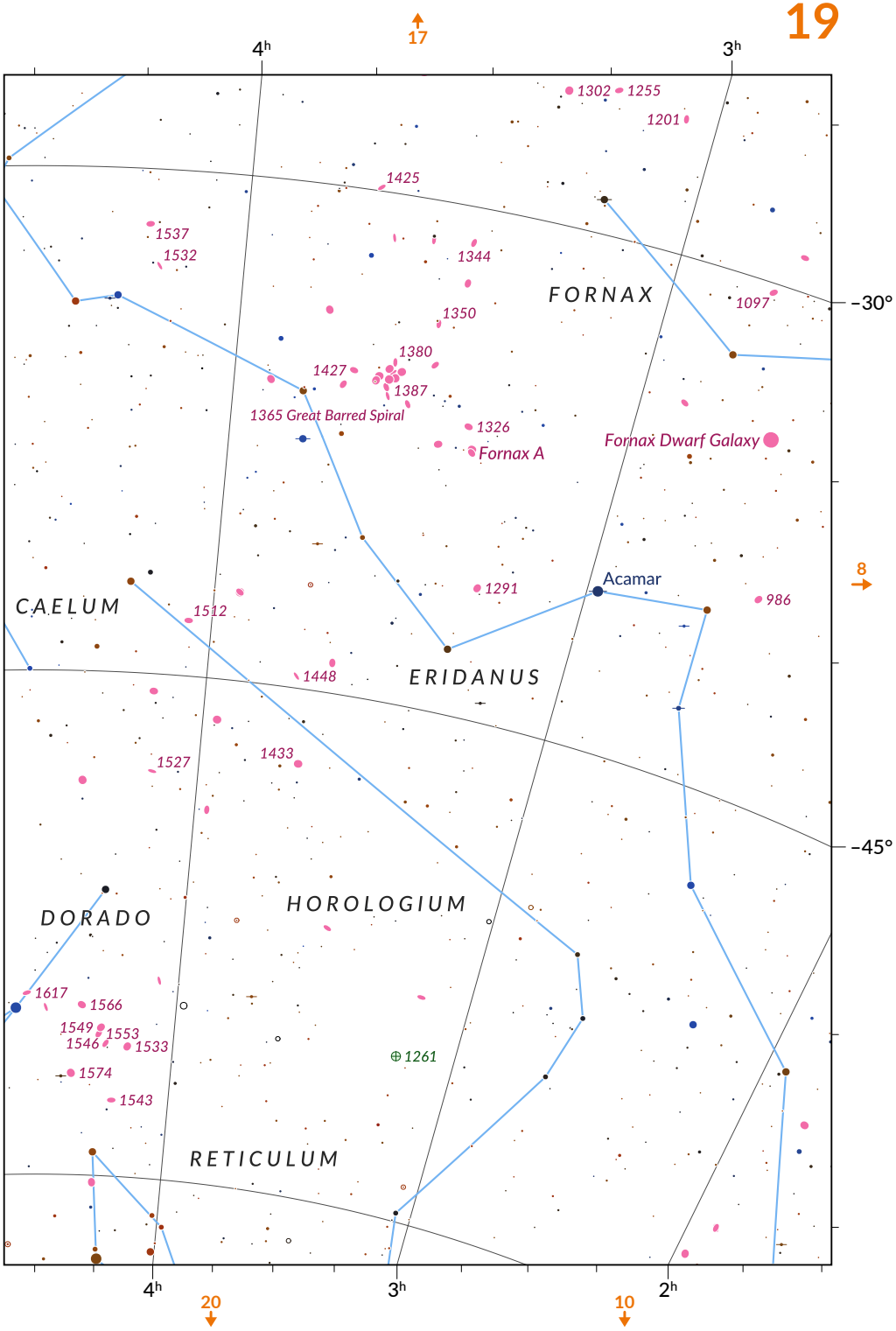

12
6h
5h
+30°
AURIGA
1896
Elnath
Simeis 147
GEMINI
M35
2158
1996
IC 2157
2129
1802
2032
2031
1750
2030
2029
Uranus
ECLIPTIC
M1 Crab
2174 Monkey Head
Tianguan
TAURUS
IC 2162
1647
25
1817
1807
Hyades
Aldebaran
+15°
37 Cluster
Cr 69
2022
Sh2-264 λ Ori Ring
1662
ORION
Betelgeuse
Bellatrix
Barnard's Loop
0°
2067
2064
Mintaka
M78
IC 426
Alnitak
Alnilam
2024 Flame
IC 435
IC 434
Horsehead
6h
5h
16

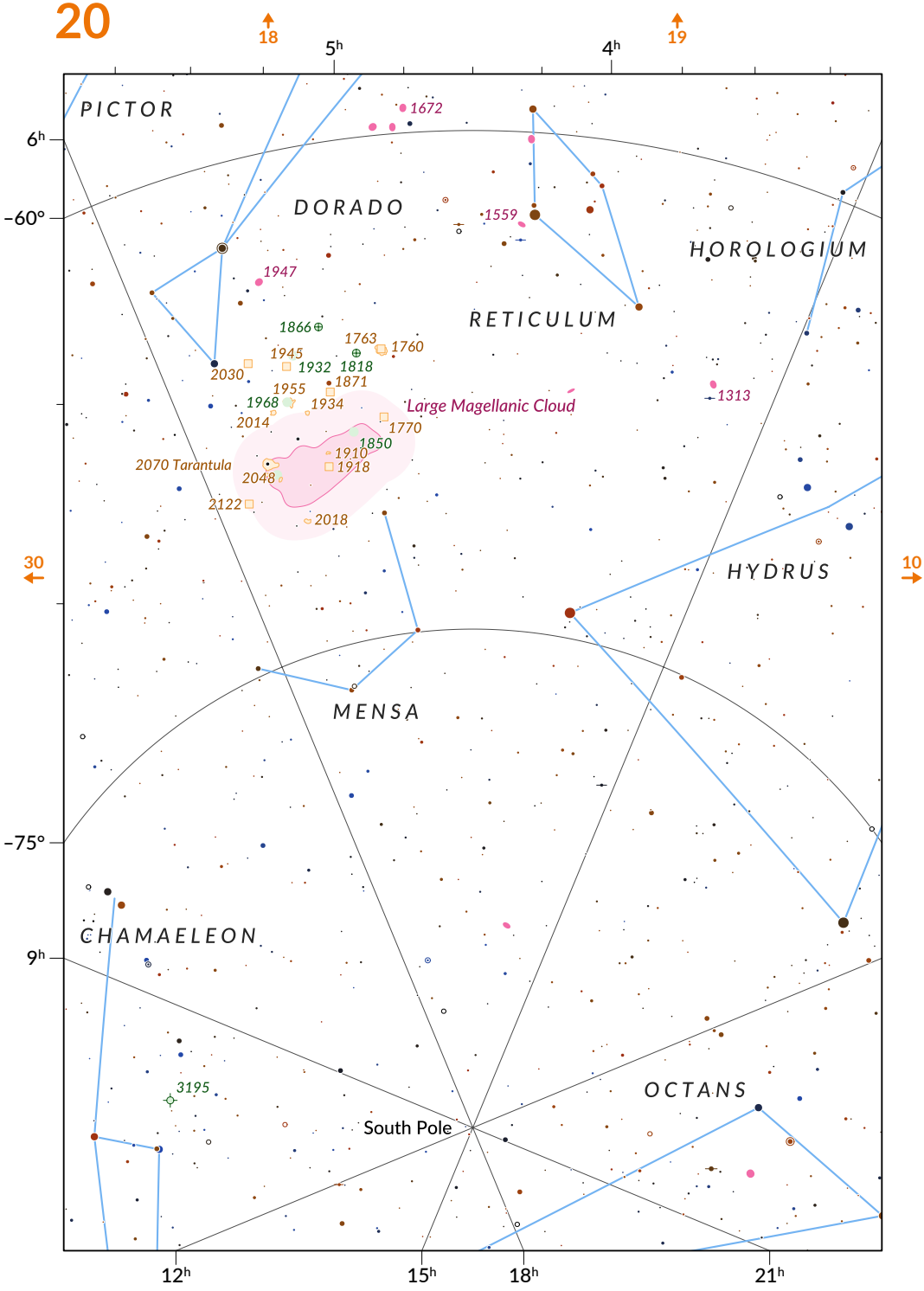

13
4h
3h
PERSEUS
IC 348
1333A
1333
1514
+30°
ARIES
IC 359A
IC 360
Alcyone
1435 Merope
IC 349
M45 Pleiades
2028
Uranus
ECLIPTIC
1554
1555 Hind's Variable
Hyades
4
+15°
TAURUS
CETUS
Menkar
0°
4h
3h
17


14
6h
5h
0°
2067
M78
IC 426
Mintaka
2024 Flame
Alnilam
Alnitak
Horsehead
IC 434
Barnard's Loop
ORION
1637
1788
1977 Running Man
ERIDANUS
Cursa
1600
M42 Orion
M43
1999
Hatysa
1909 Witch Head
IC 430
Rigel
Saiph
2149
27
IC 418 Spirograph
−15°
LEPUS
Arneb
Nihal
1964
M79
−30°
6h
5h
18

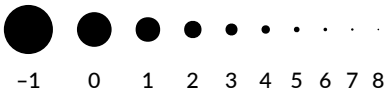

15
4h
3h
TAURUS
0°
1600
6
1535 Cleopatra's Eye
Zaurak
−15°
1407
1400
1300
ERIDANUS
1332
1232
1232B
1395
1187
1385
1371
1360 Robin's Egg
1302
1255
1398
1201
FORNAX
1425
−30°
1537
1344
1097
4h
3h
19


16
6h
5h
ERIDANUS
−30°
Phact
CAELUM
1808
1792
COLUMBA
1851
29
−45°
PUPPIS
1617
Canopus
PICTOR
CARINA
DORADO
1672
7h
30
6h
20
5h


17
4h
3h
1302
1255
1201
1425
1537
1532
1344
FORNAX
1097
−30°
1350
1380
1427
1387
1365 Great Barred Spiral
1326
Fornax A
Fornax Dwarf Galaxy
8
Acamar
1291
986
CAELUM
1512
1448
ERIDANUS
1527
1433
−45°
HOROLOGIUM
DORADO
1617
1566
1549
1553
1546
1533
1261
1574
1543
RETICULUM
4h
3h
2h
20
10


18
19
5h
4h
6h
−60°
30
10
−75°
9h
12h
15h
18h
21h
PICTOR
DORADO
HOROLOGIUM
RETICULUM
HYDRUS
MENSA
CHAMAELEON
OCTANS
South Pole
Large Magellanic Cloud
2070 Tarantula
1672
1559
1947
1866
1763
1760
1945
1932
1818
2030
1871
1955
1934
1968
2014
1770
1850
1910
1918
2048
2122
2018
1313
3195

Legend



Star magnitudes

Double star

Variable star (max. and min.)

Meteor shower radiant

Constellation figure

Ecliptic

Track (1 January)

Galaxy

Open cluster

Globular cluster

Nebula

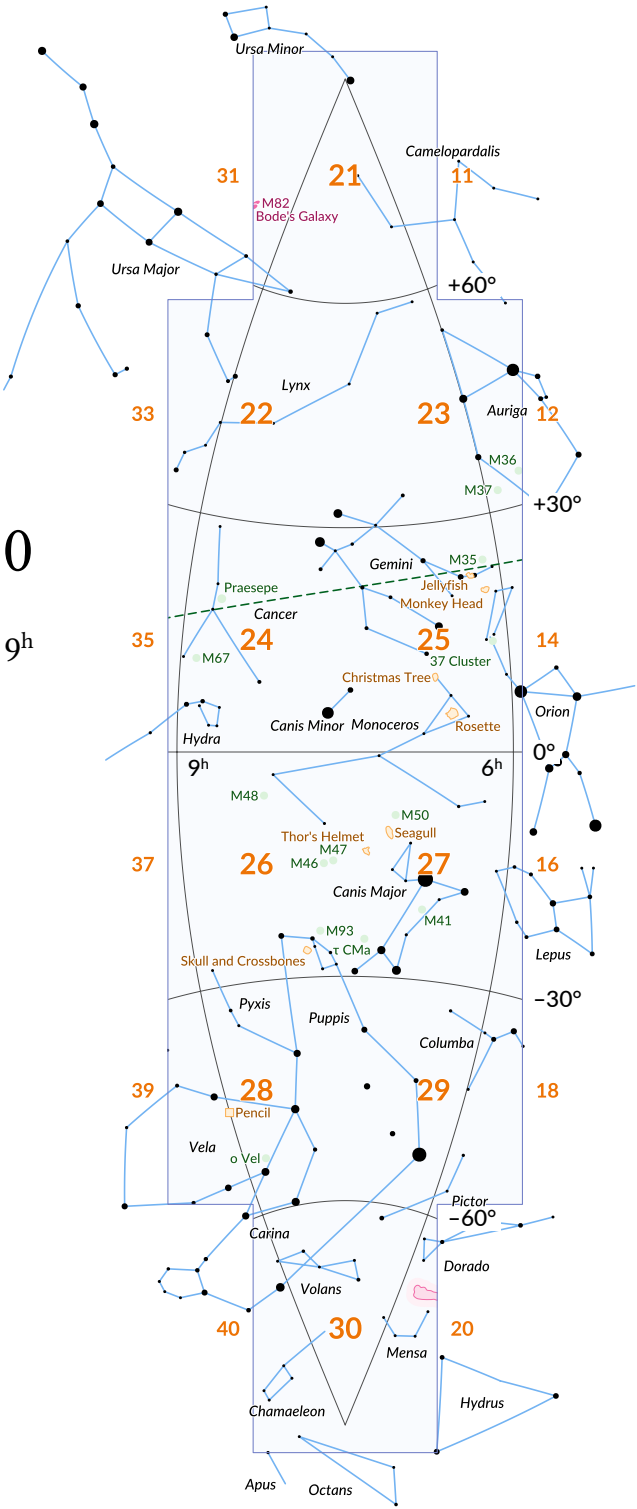
Dark nebula

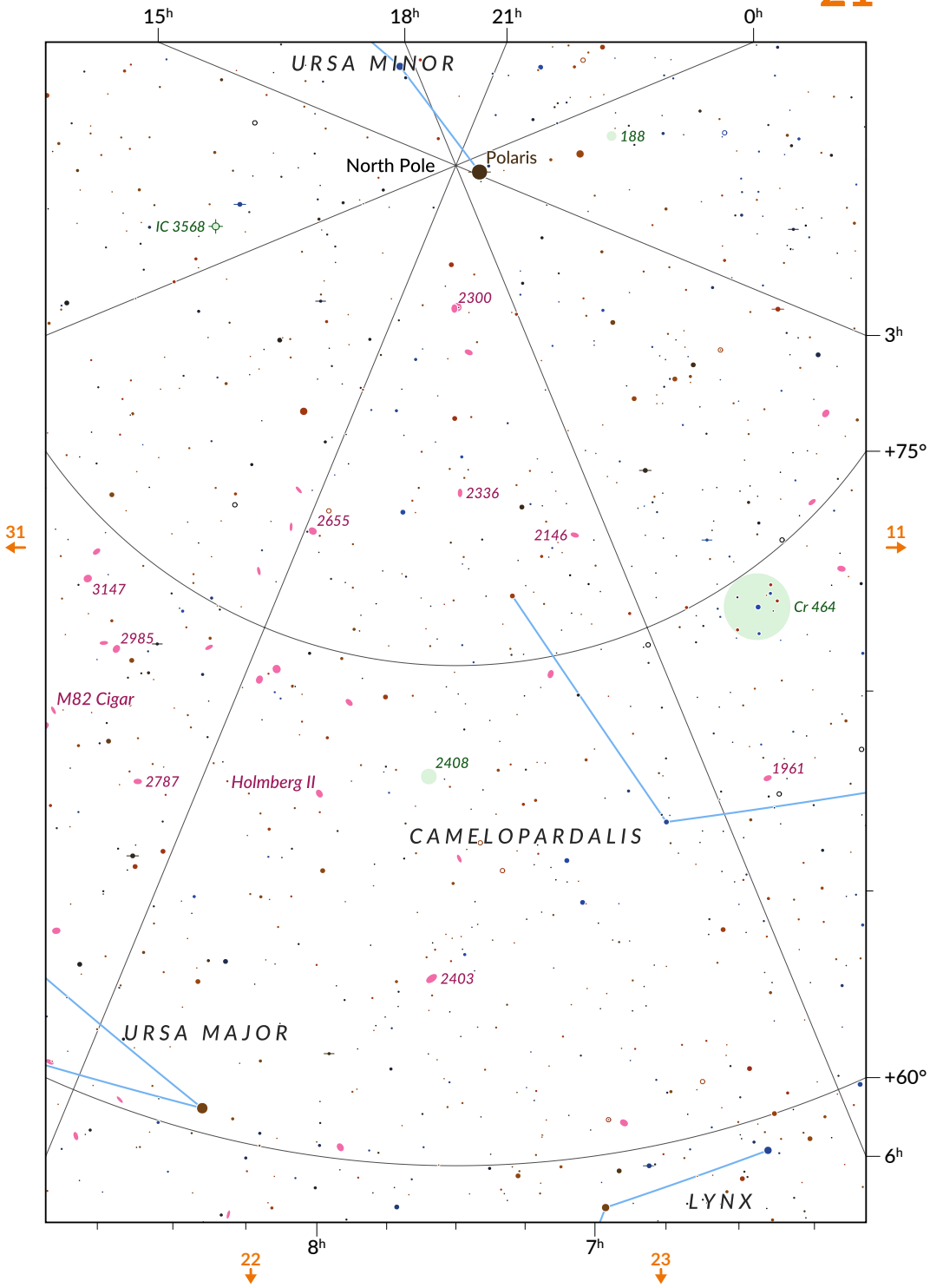
Planetary nebula

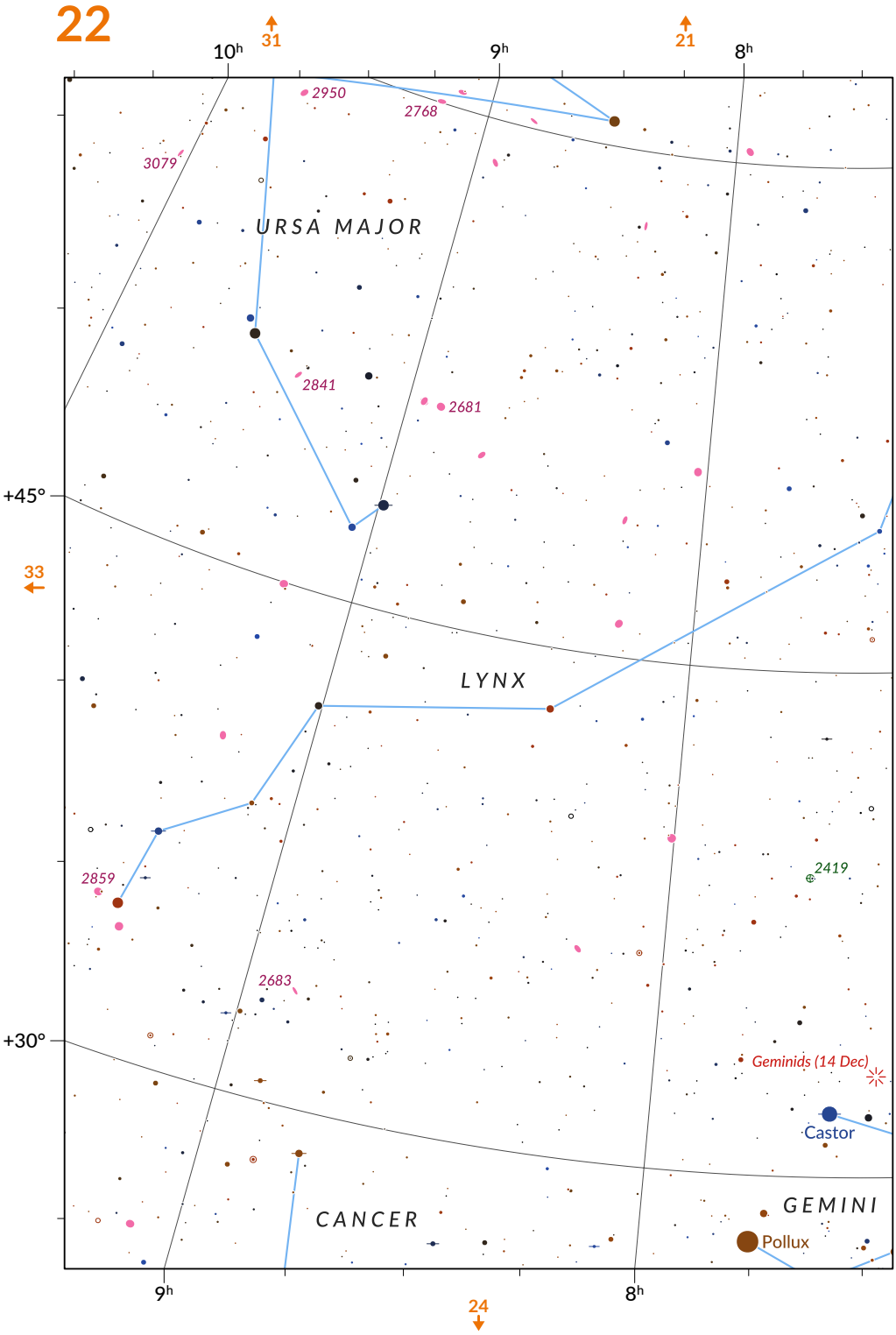
Charts 21–30

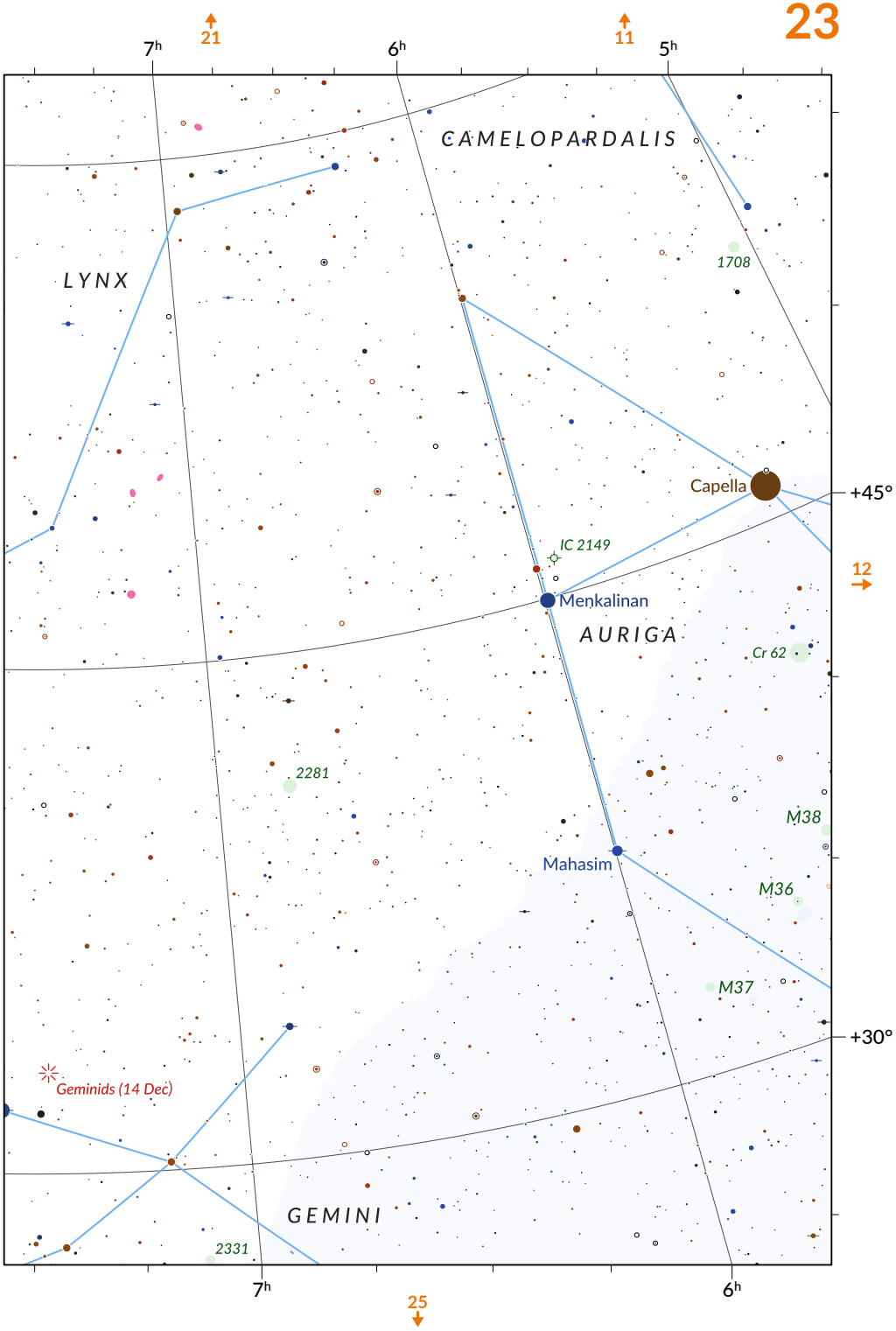
Right ascension 6^h to 9^h

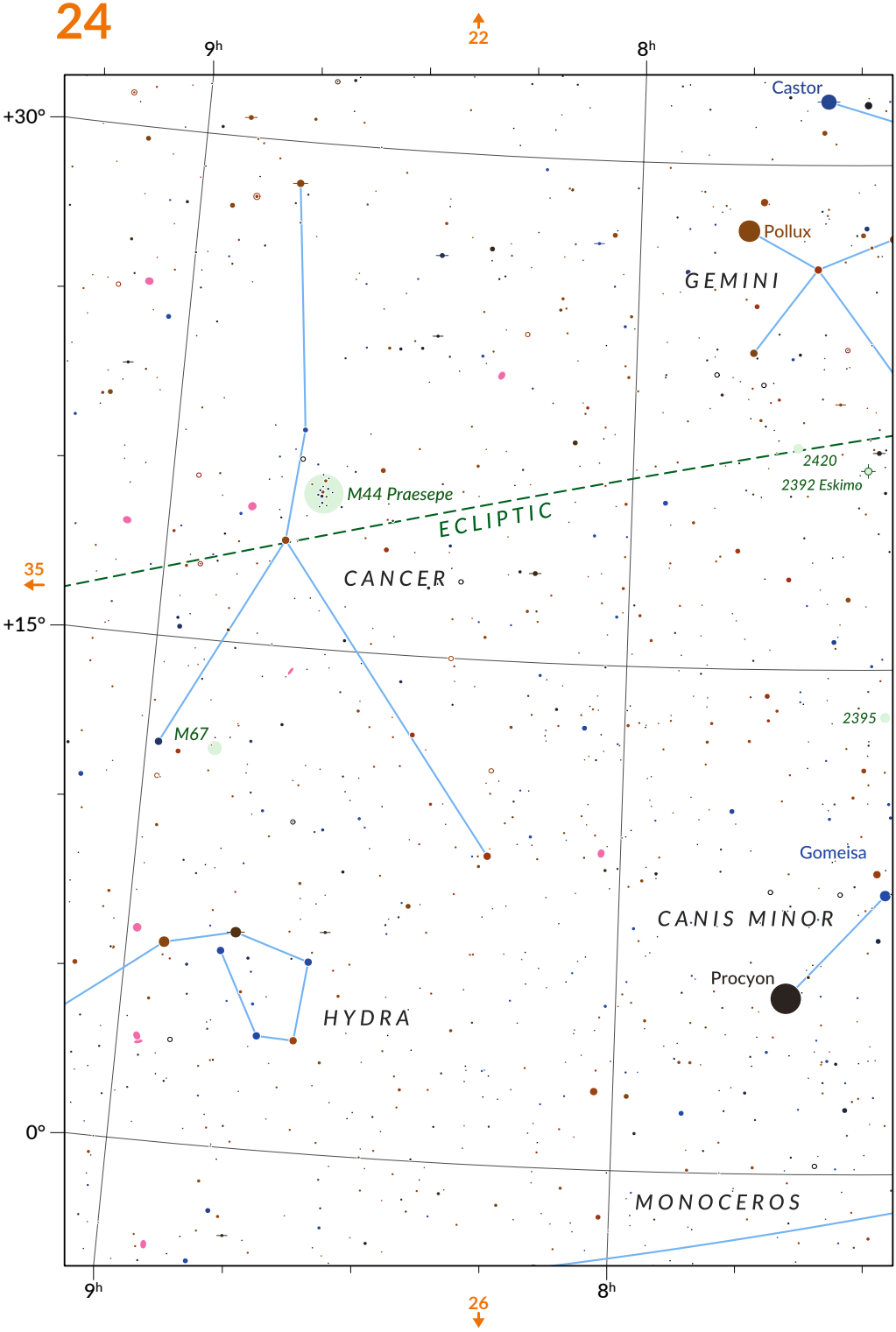
February/March

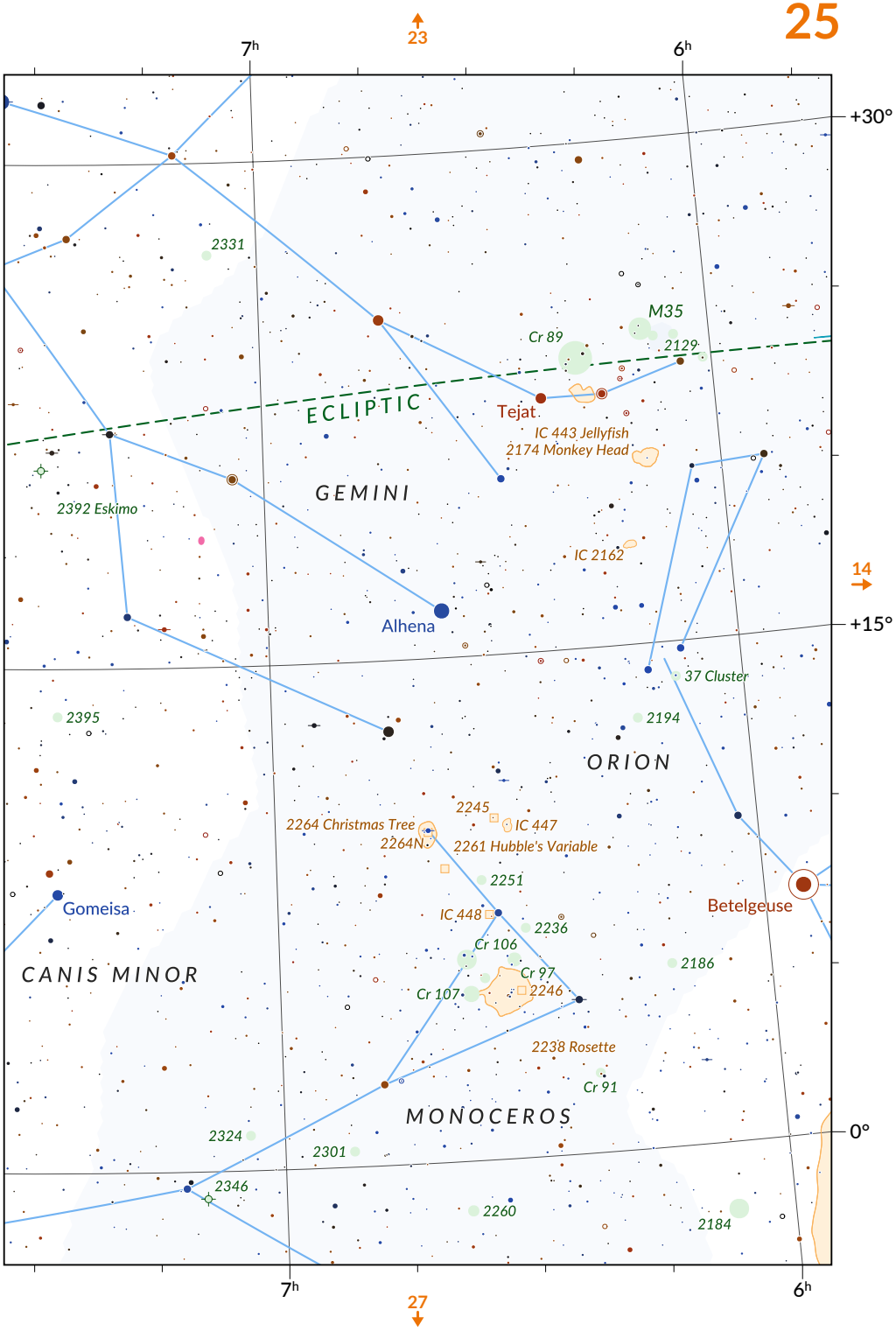


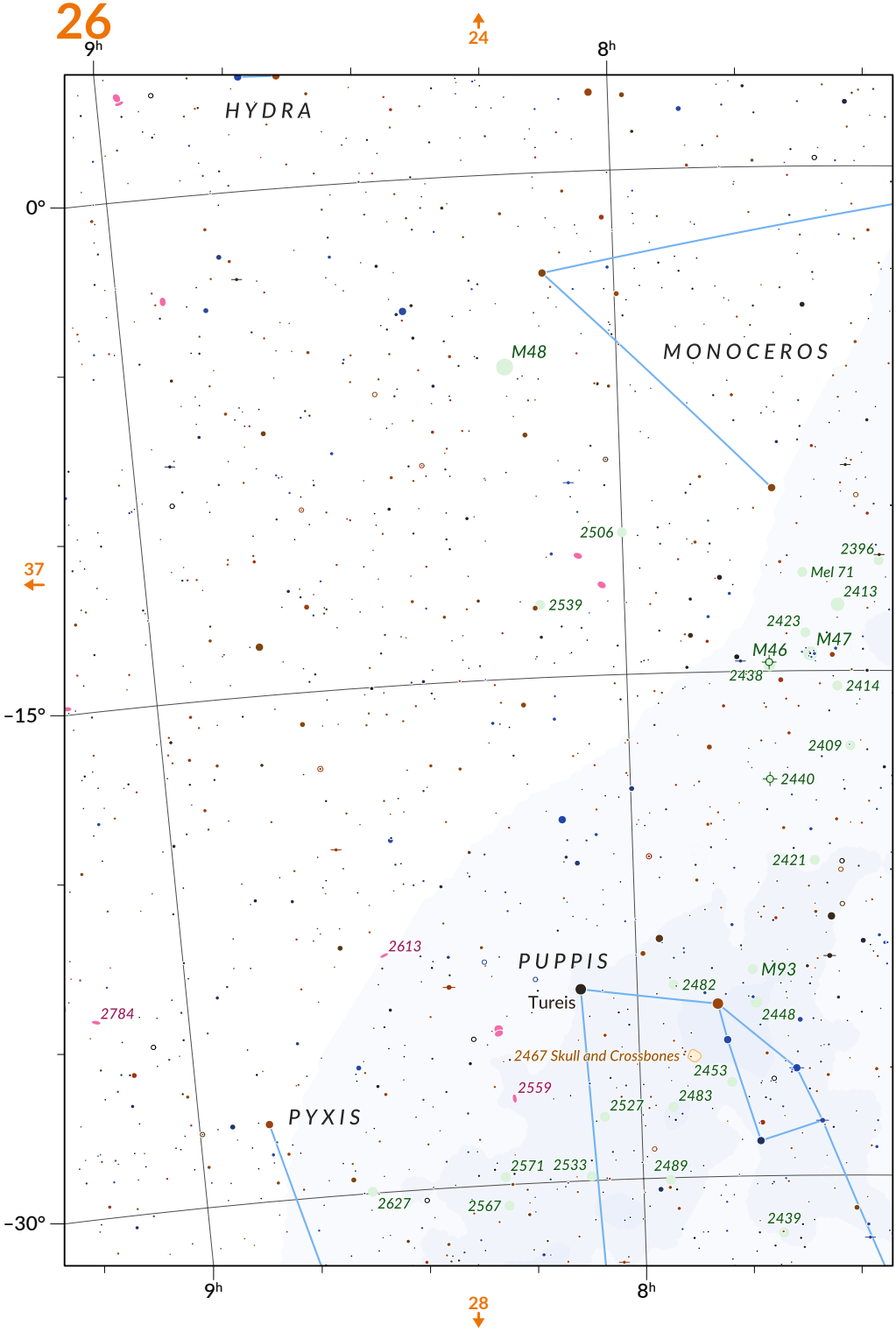

15h
18h
21h
0h
URSA MINOR
North Pole
Polaris
188
IC 3568
2300
3h
+75°
2336
2655
2146
31
11
3147
Cr 464
2985
M82 Cigar
2408
1961
2787
Holmberg II
CAMELOPARDALIS
2403
URSA MAJOR
+60°
6h
LYNX
8h
7h
22
23

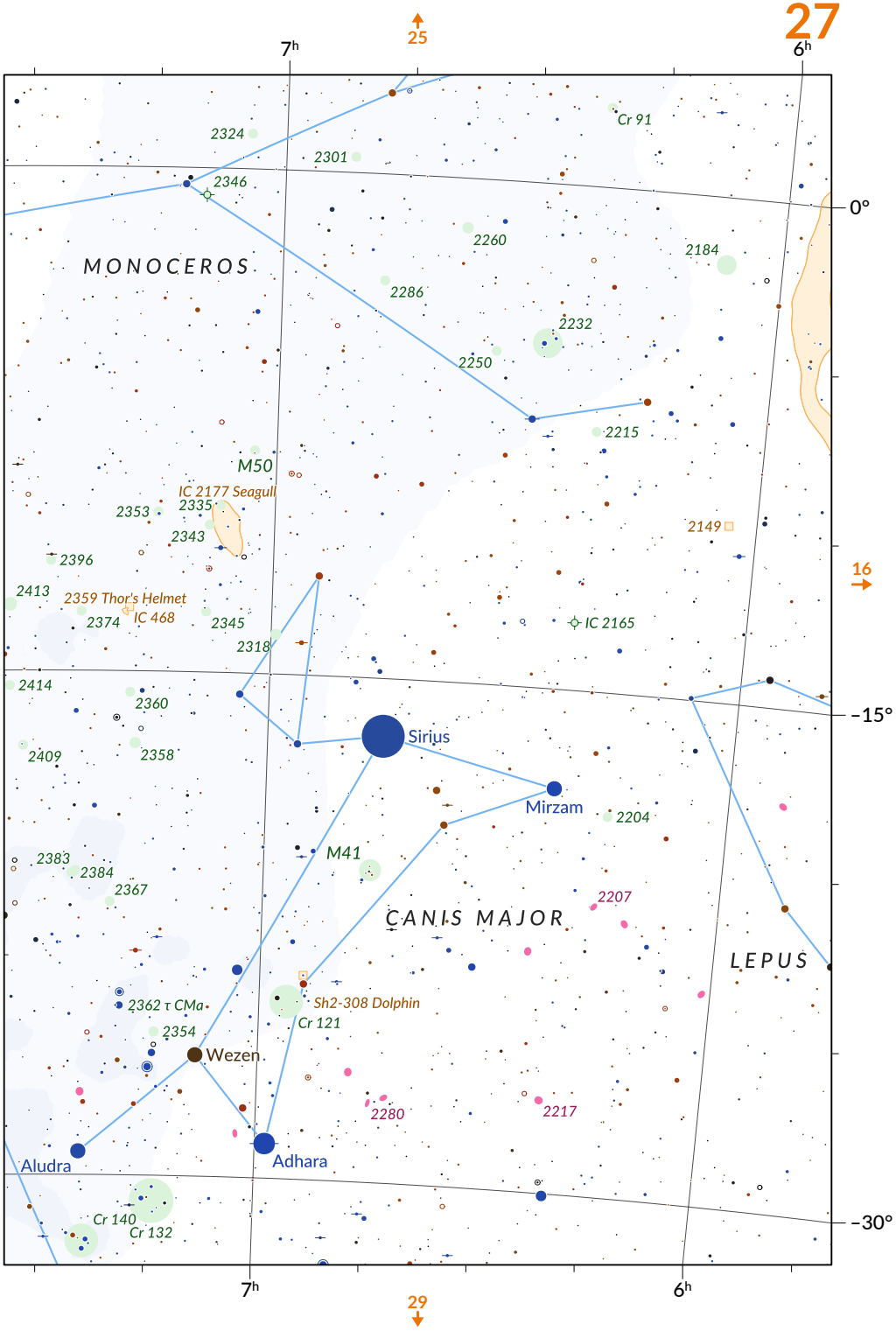

31
21
10h
9h
8h
2950
2768
3079
URSA MAJOR
2841
2681
+45°
33
LYNX
2859
2419
2683
+30°
Geminids (14 Dec)
Castor
GEMINI
CANCER
Pollux
9h
8h
24

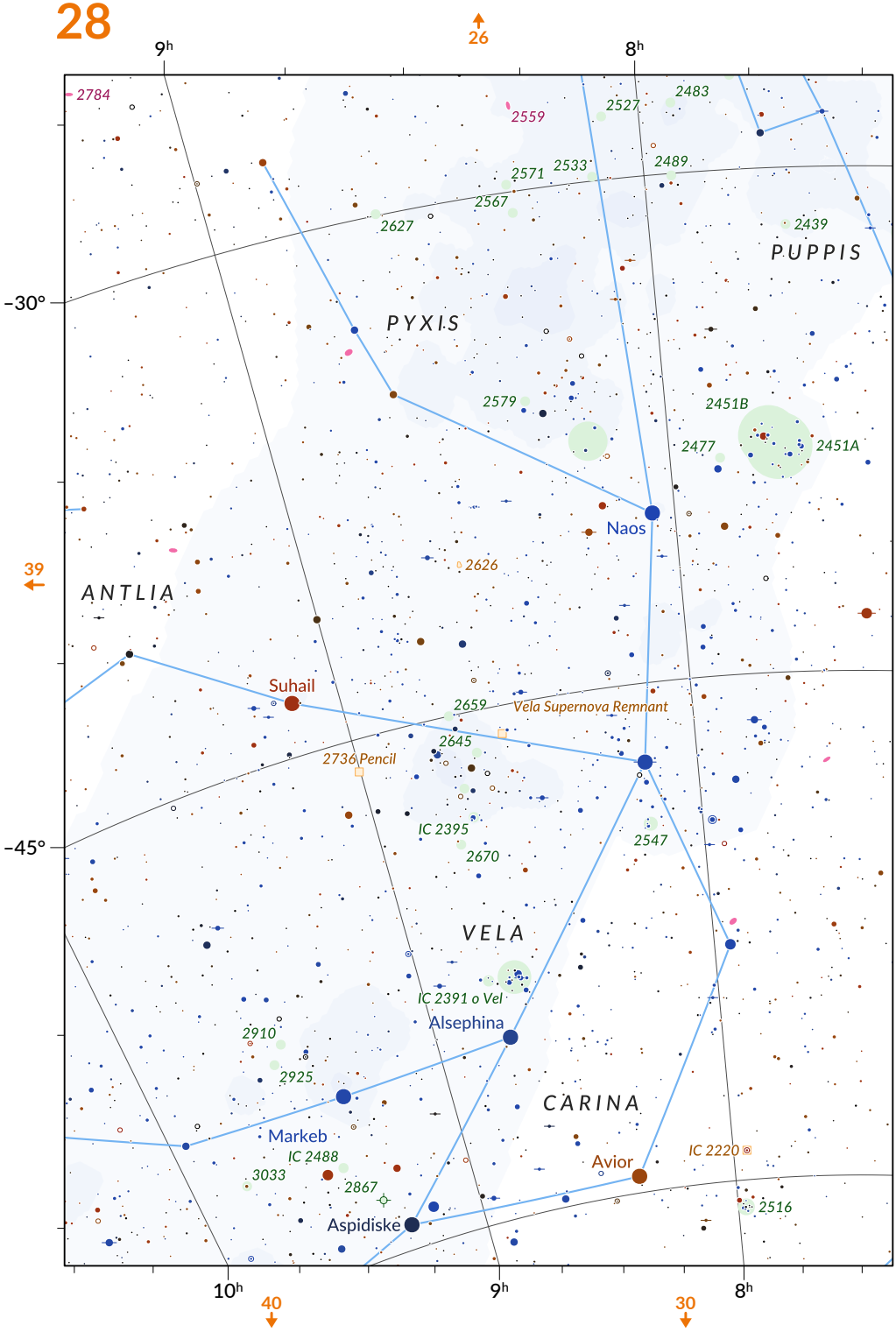

21
11
7h
6h
5h
CAMELOPARDALIS
LYNX
1708
Capella
+45°
IC 2149
12
Menkalinan
AURIGA
Cr 62
2281
M38
Mahasim
M36
M37
+30°
Geminids (14 Dec)
GEMINI
2331
7h
6h
25

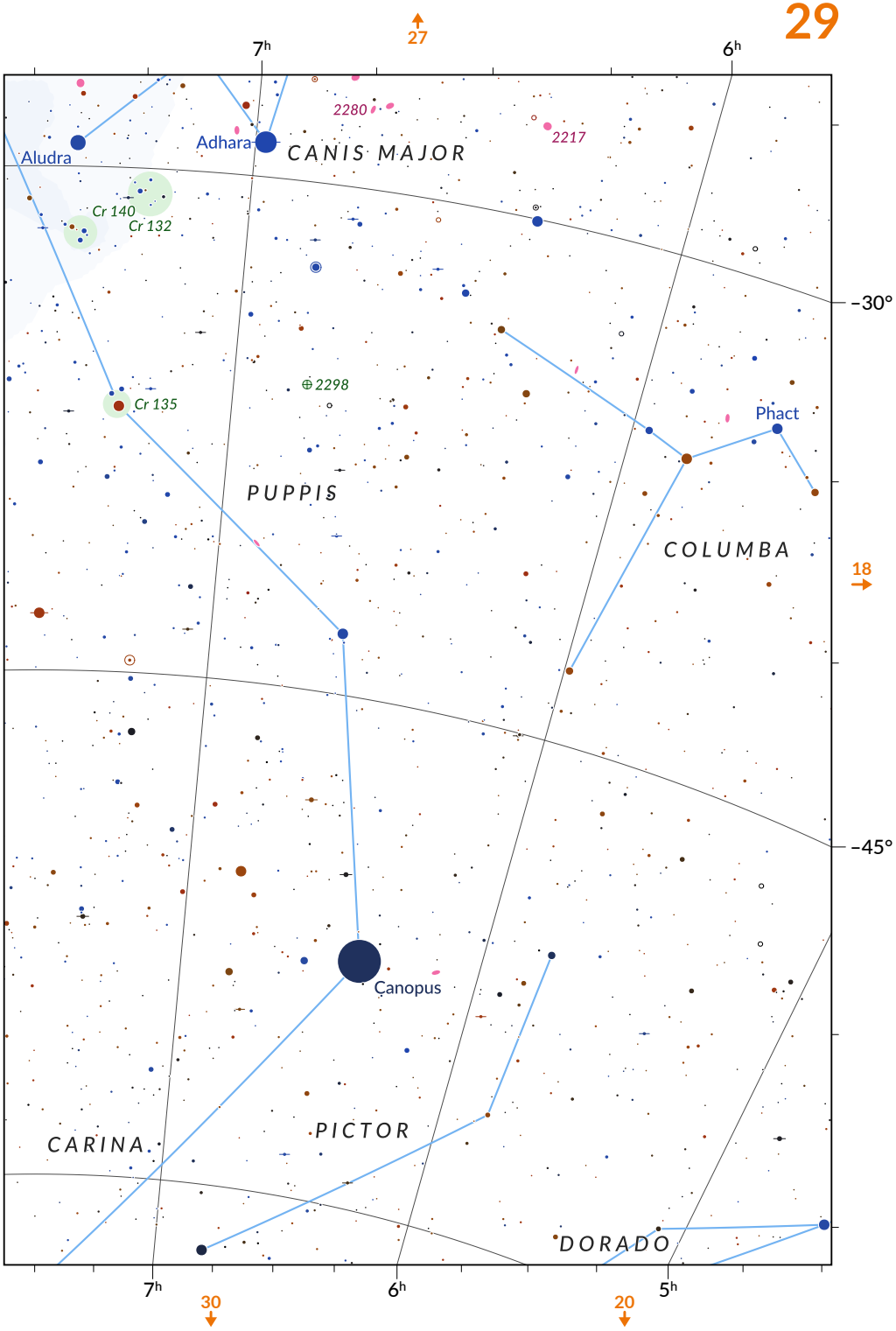

22
9h
8h
+30°
+15°
0°
35
26
Castor
Pollux
GEMINI
2420
2392 Eskimo
M44 Praesepe
ECLIPTIC
CANCER
M67
2395
Gomeisa
CANIS MINOR
Procyon
HYDRA
MONOCEROS

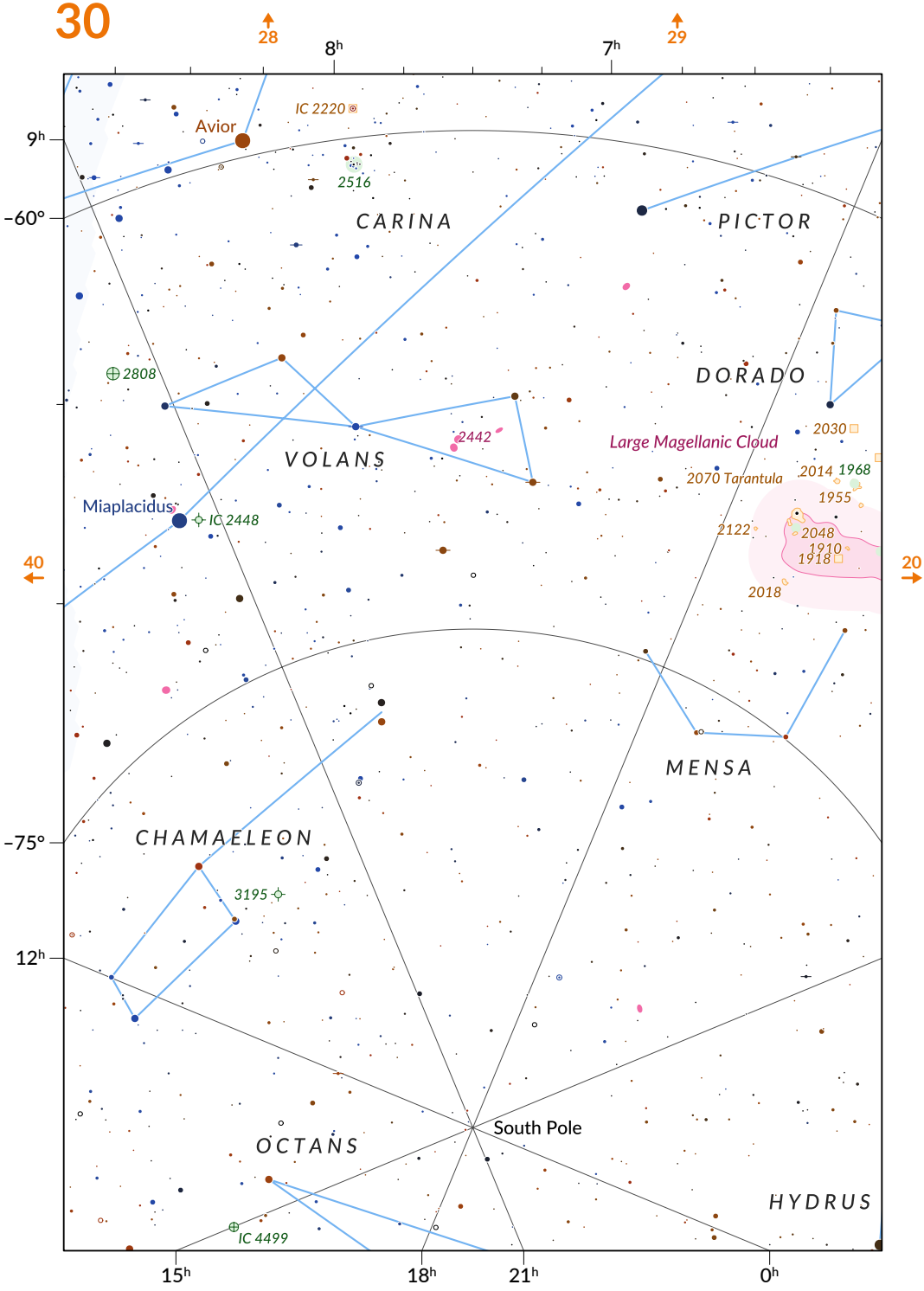

23
7h
6h
+30°
2331
M35
Cr 89
2129
ECLIPTIC
Tejat
IC 443 Jellyfish
2174 Monkey Head
GEMINI
2392 Eskimo
IC 2162
14
Alhena
+15°
37 Cluster
2395
2194
ORION
2245
2264 Christmas Tree
IC 447
2264N
2261 Hubble's Variable
2251
Gomeisa
Betelgeuse
IC 448
2236
Cr 106
2186
CANIS MINOR
Cr 97
2246
Cr 107
2238 Rosette
Cr 91
MONOCEROS
2324
2301
0°
2346
2260
2184
7h
6h
27


24
9h
8h
HYDRA
0°
M48
MONOCEROS
2506
2396
Mel 71
2413
37
2539
2423
M47
M46
2438
2414
−15°
2409
2440
2421
2613
PUPPIS
M93
2482
Tureis
2784
2448
2467 Skull and Crossbones
2453
2559
2483
2527
PYXIS
2571
2533
2489
2627
2567
2439
−30°
9h
8h
28

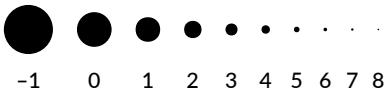

25
7h
6h
Cr 91
2324
2301
2346
0°
2260
2184
MONOCEROS
2286
2232
2250
2215
M50
IC 2177 Seagull
2353
2335
2343
2149
2396
16
2413
2359 Thor's Helmet
2374
IC 468
2345
IC 2165
2318
2414
2360
−15°
Sirius
2409
2358
Mirzam
2204
M41
2383
2384
2367
2207
CANIS MAJOR
LEPUS
2362 τ CMa
Sh2-308 Dolphin
Cr 121
2354
Wezen
2280
2217
Aludra
Adhara
Cr 140
Cr 132
−30°
7h
6h
29


26
9h
8h
2784
2559
2527
2483
2571
2533
2489
2567
2627
2439
PUPPIS
−30°
PYXIS
2579
2451B
2477
2451A
Naos
39
2626
ANTLIA
Suhail
2659
Vela Supernova Remnant
2645
2736 Pencil
IC 2395
2547
−45°
2670
VELA
IC 2391 o Vel
Alsephina
2910
2925
CARINA
Markeb
IC 2488
3033
2867
Avior
IC 2220
2516
Aspidiske
10h
40
9h
30
8h


27
7h
6h
2280
2217
Aludra
Adhara
CANIS MAJOR
Cr 140
Cr 132
−30°
2298
Cr 135
Phact
PUPPIS
COLUMBA
18
−45°
Canopus
PICTOR
CARINA
DORADO
7h
6h
5h
30
20


28
29
8h
7h
9h
−60°
−75°
12h
40
20
15h
18h
21h
0h
Avior
IC 2220
2516
CARINA
PICTOR
2808
DORADO
2442
VOLANS
Large Magellanic Cloud
2030
2070 Tarantula
2014
1968
1955
Miaplacidus
IC 2448
2122
2048
1910
1918
2018
MENSA
CHAMAELEON
3195
South Pole
OCTANS
HYDRUS
IC 4499

Legend



Star magnitudes

Double star

Variable star (max. and min.)

Meteor shower radiant

Constellation figure

Ecliptic

Track (1 January)

Galaxy

Open cluster

Globular cluster

Nebula

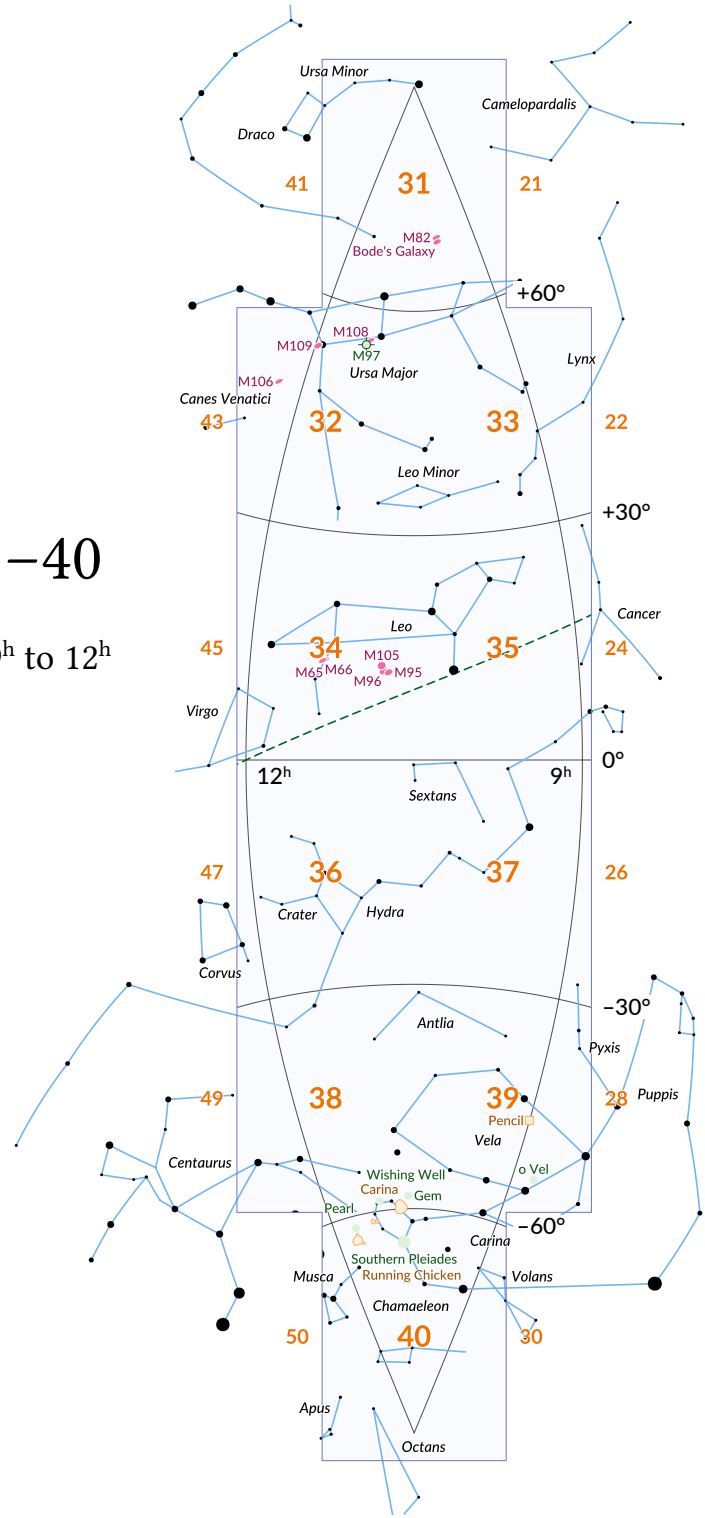
Dark nebula

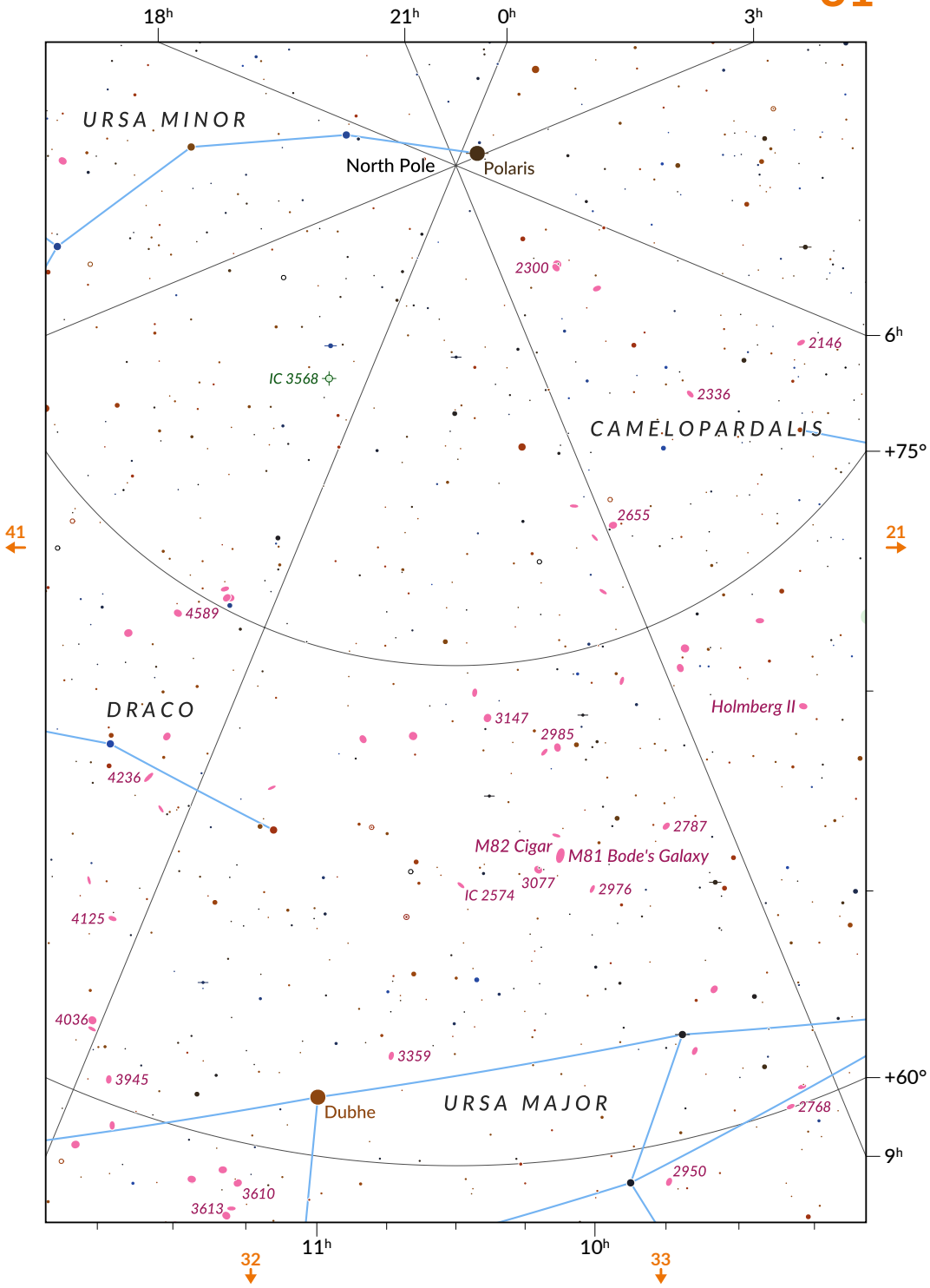
Planetary nebula

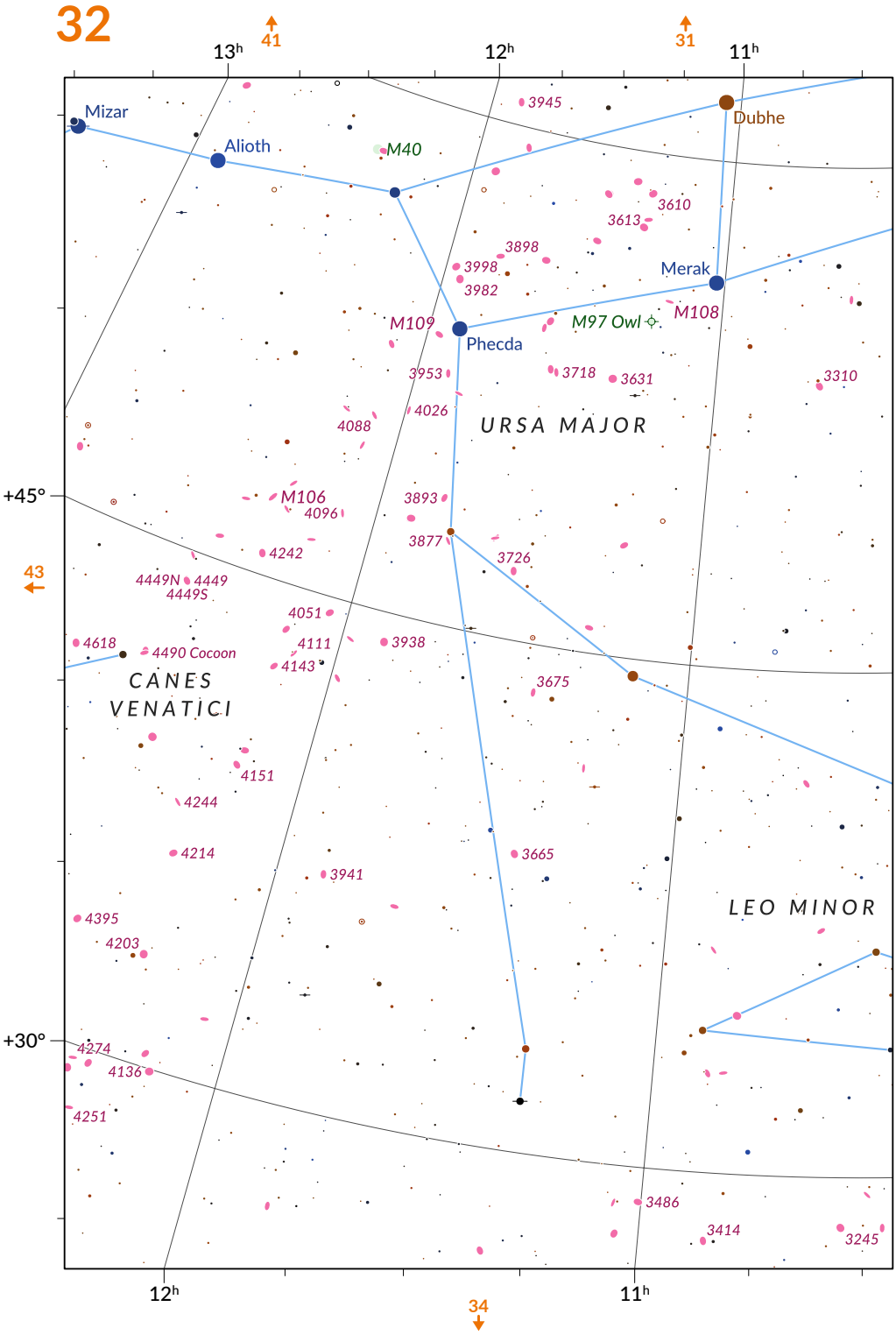
Charts 31–40

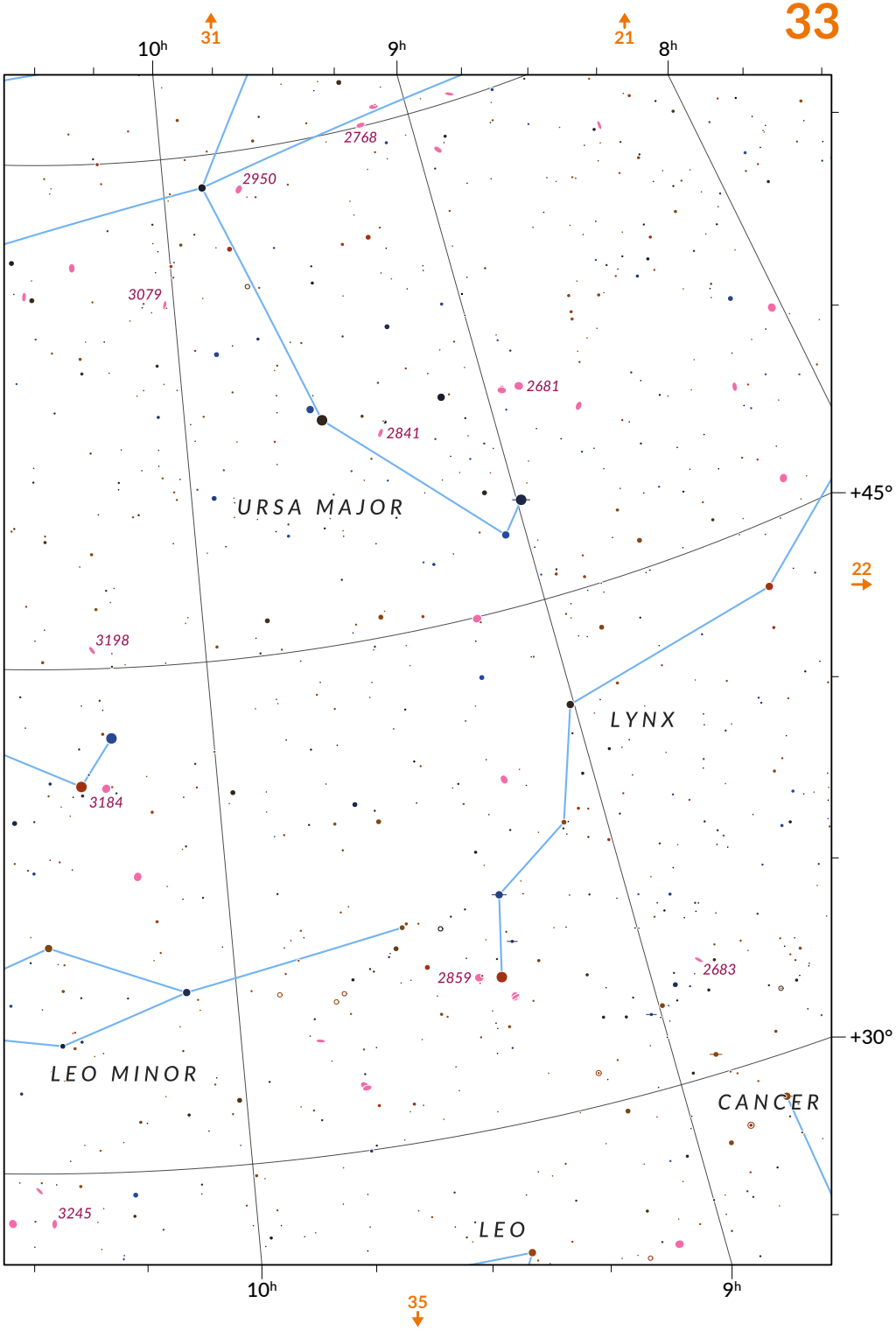
Right ascension 9^h to 12^h

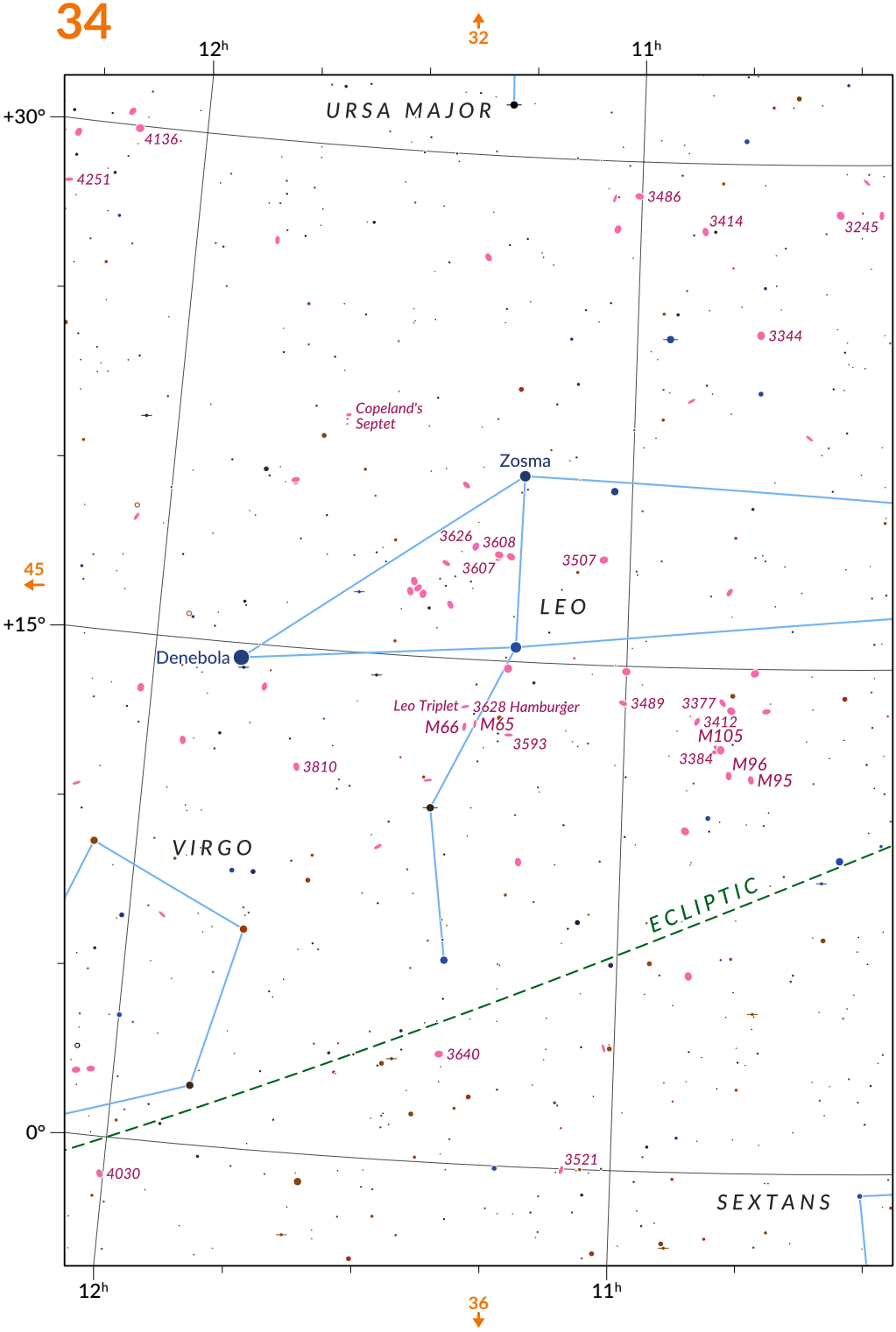
April

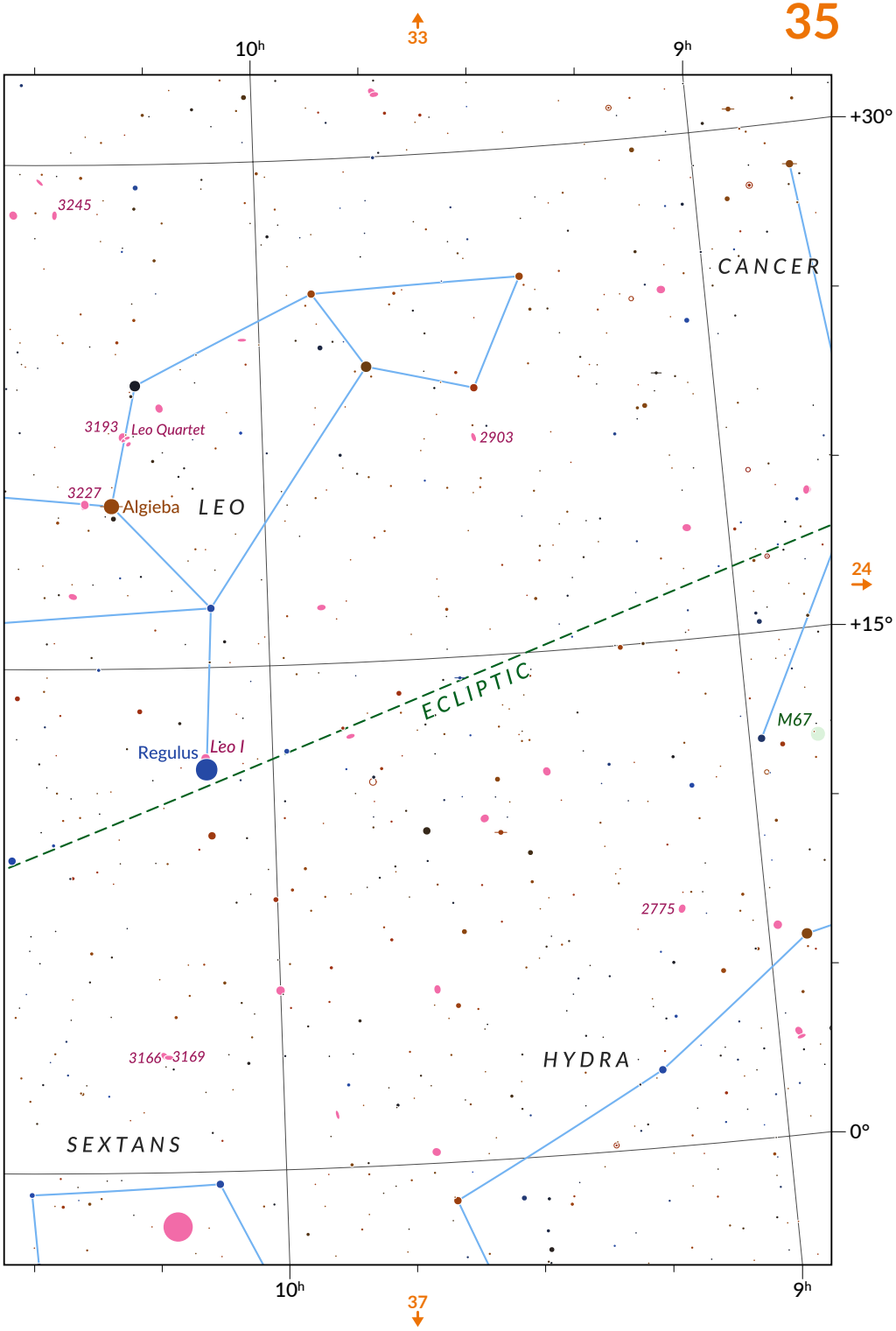


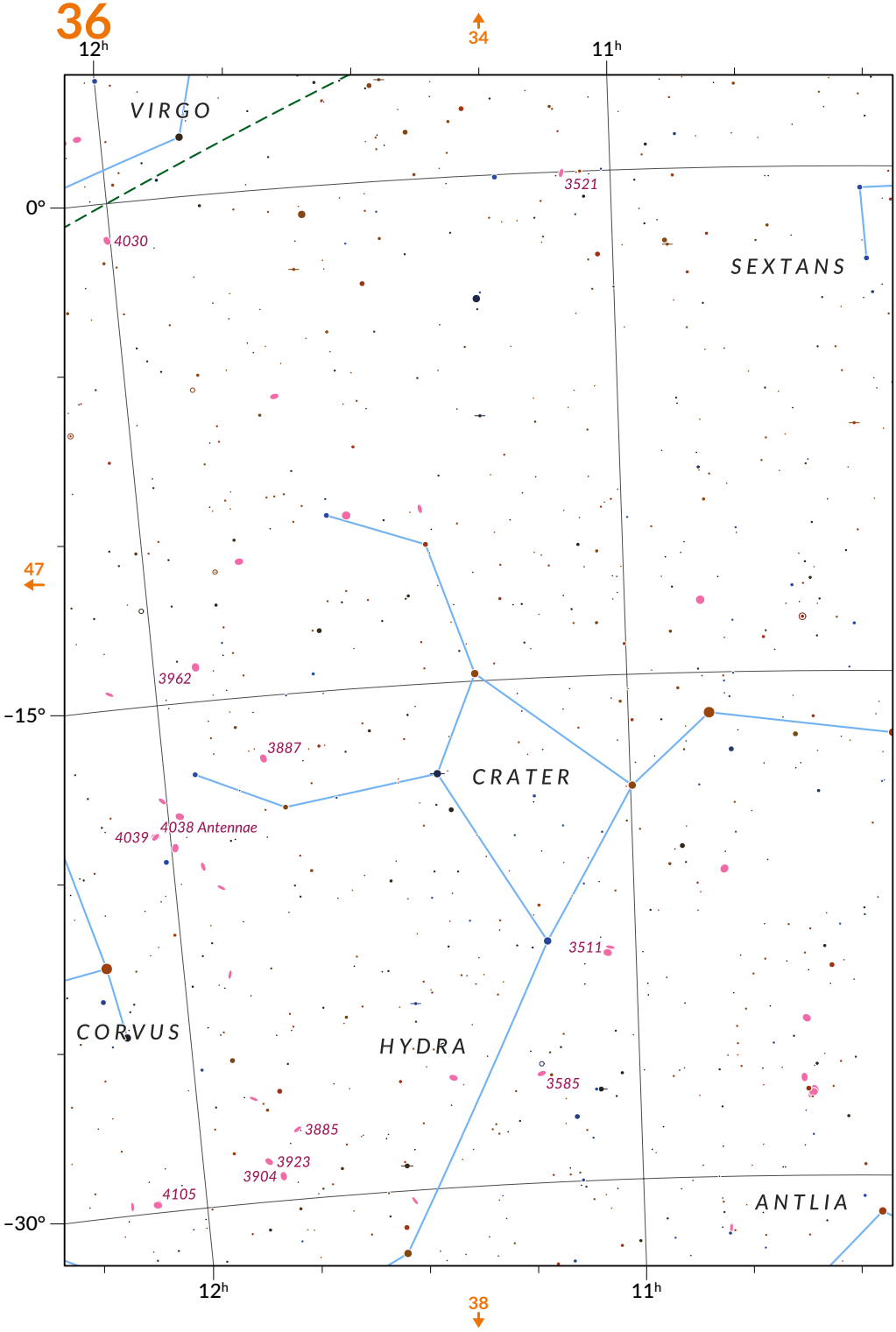

18h
21h
0h
3h
URSA MINOR
North Pole
Polaris
2300
6h
2146
IC 3568
2336
CAMELOPARDALIS
+75°
41
21
2655
4589
DRACO
Holmberg II
3147
2985
4236
2787
M82 Cigar
M81 Bode's Galaxy
3077
IC 2574
2976
4125
4036
3359
3945
+60°
Dubhe
URSA MAJOR
2768
9h
2950
3610
3613
11h
10h
32
33

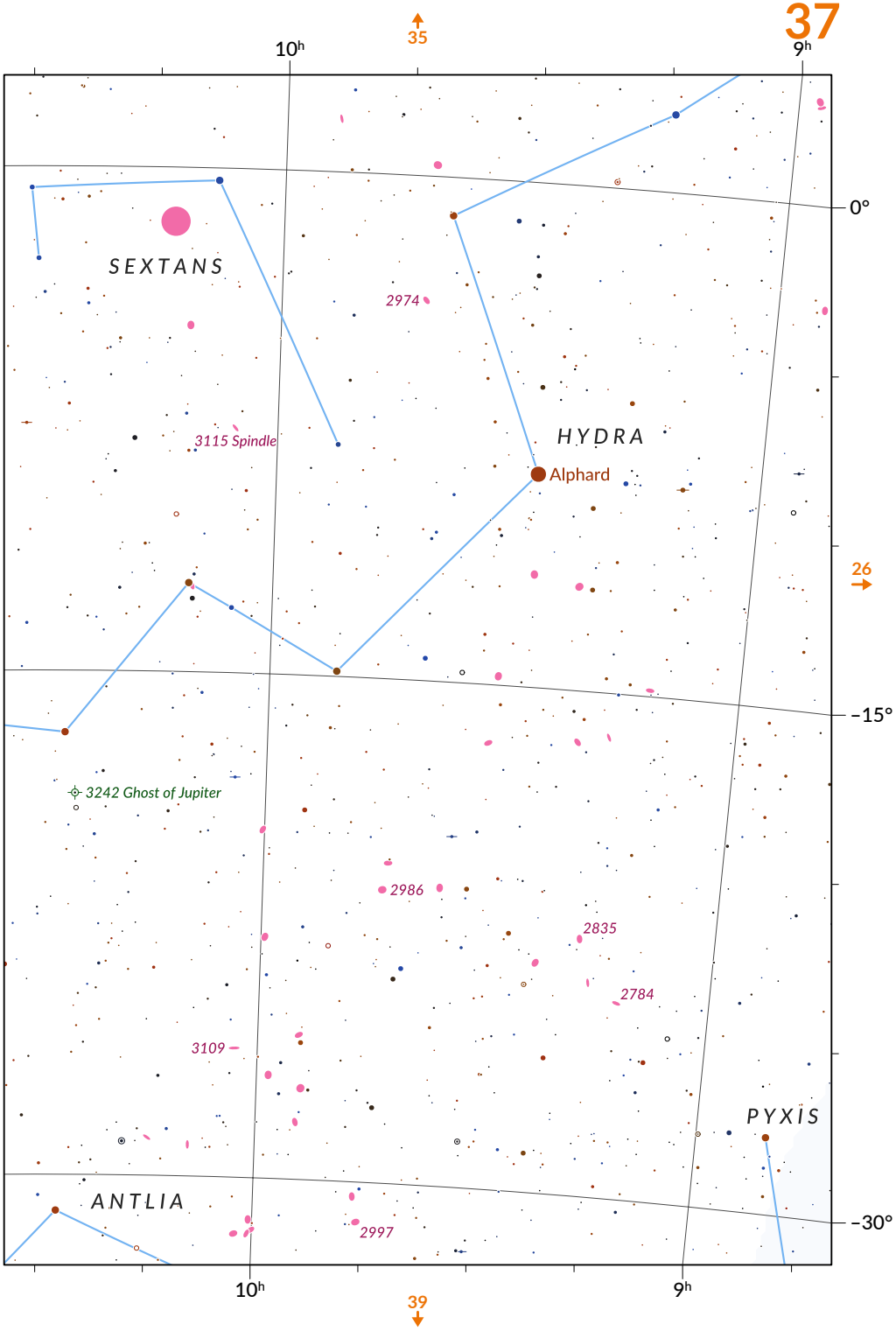

41
31
13h
12h
11h
Mizar
Alioth
M40
Dubhe
Merak
Phecda
M109
M97 Owl
M108
URSA MAJOR
M106
CANES VENATICI
4490 Cocoon
LEO MINOR
+45°
+30°
43
34
12h
11h
3945
3610
3613
3898
3998
3982
3953
3718
3631
3310
4026
4088
3893
4096
3877
3726
4242
4449N
4449
4449S
4051
4618
4111
3938
4143
3675
4151
4244
4214
3665
3941
4395
4203
4274
4136
4251
3486
3414
3245

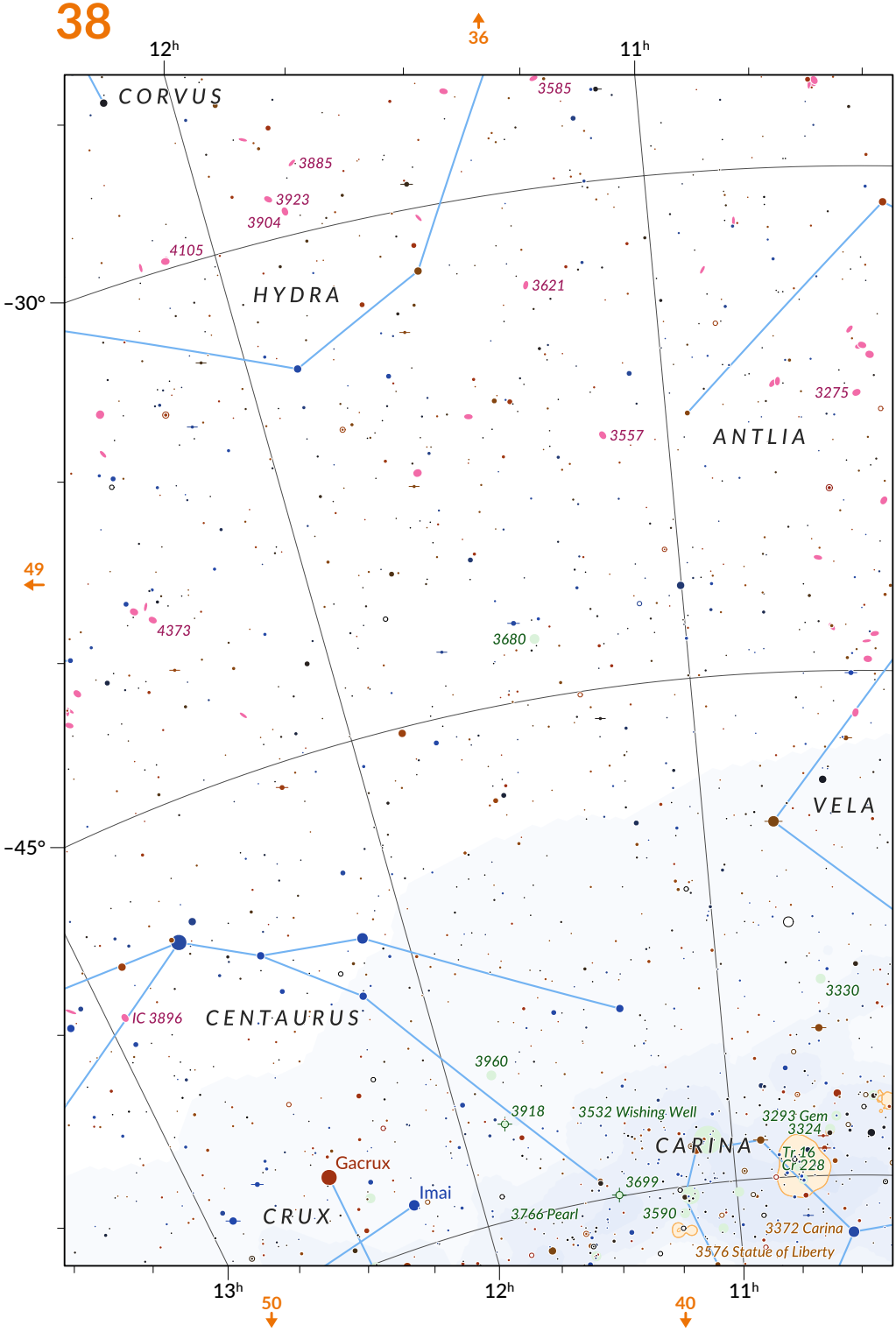

10h
31
9h
21
8h
2768
2950
3079
2681
2841
URSA MAJOR
+45°
22
3198
LYNX
3184
2859
2683
+30°
LEO MINOR
CANCER
3245
LEO
10h
35
9h

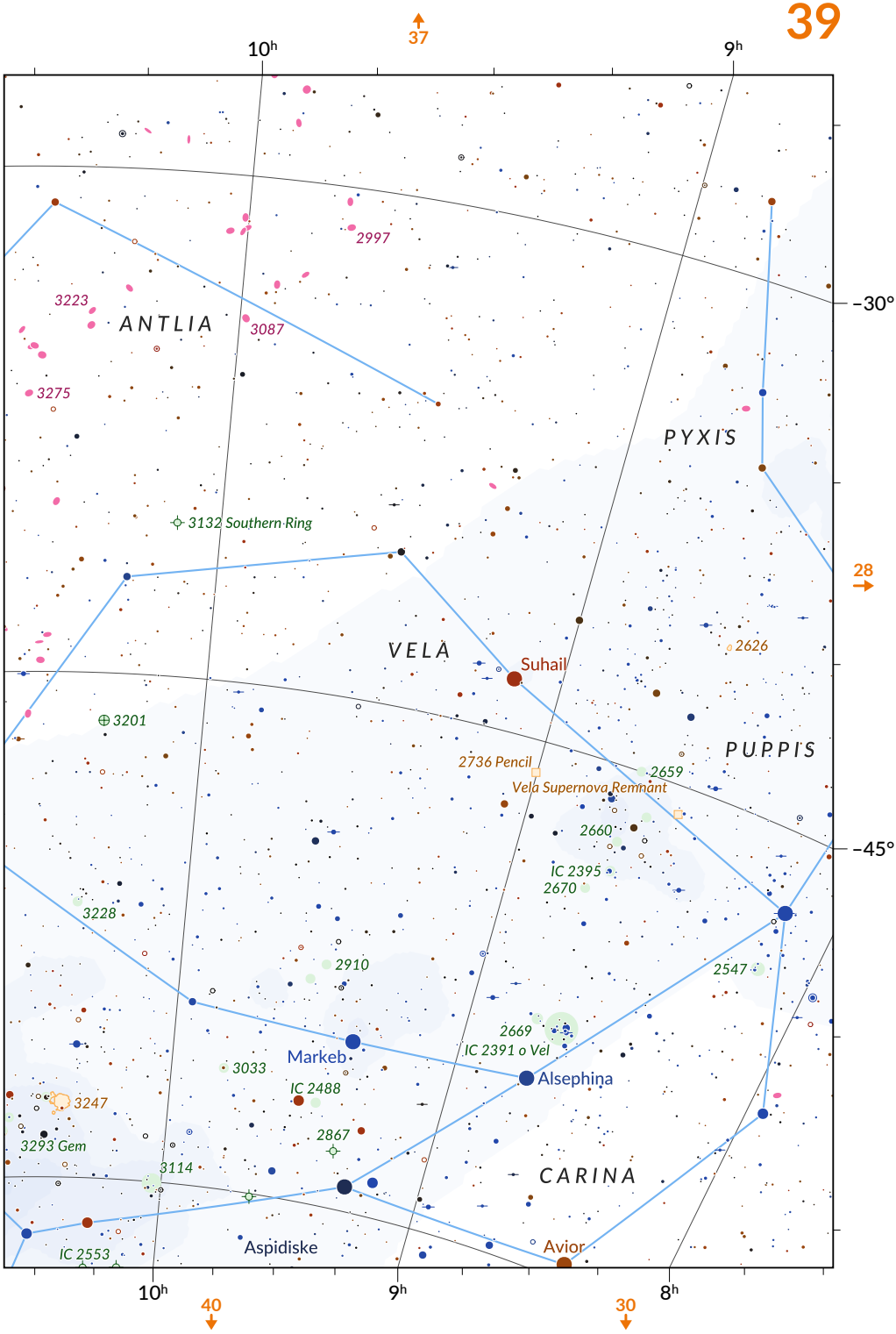

32
12h
11h
+30°
URSA MAJOR
4136
4251
3486
3414
3245
3344
Copeland's Septet
Zosma
3626
3608
3607
3507
45
LEO
+15°
Denebola
Leo Triplet – 3628 Hamburger
M66
M65
3593
3489
3377
3412
M105
3384
M96
M95
3810
VIRGO
ECLIPTIC
3640
0°
4030
3521
SEXTANS
12h
11h
36

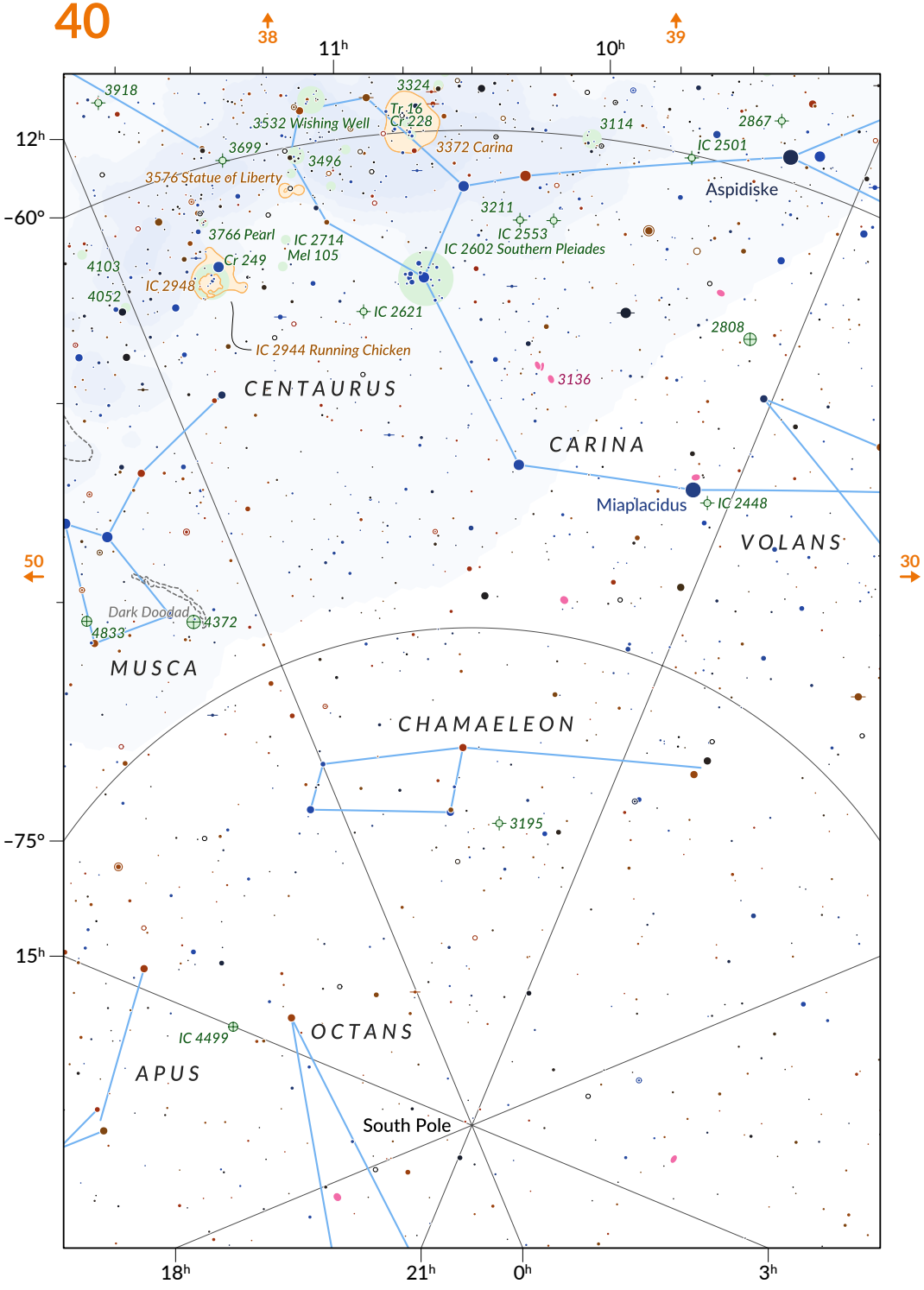

33
10h
9h
+30°
3245
CANCER
3193
Leo Quartet
2903
3227
Algieba
LEO
24
+15°
ECLIPTIC
M67
Regulus
Leo I
2775
3166–3169
HYDRA
SEXTANS
0°
10h
9h
37


34
12h
11h
VIRGO
3521
0°
4030
SEXTANS
47
3962
−15°
3887
CRATER
4039
4038 Antennae
3511
CORVUS
HYDRA
3585
3885
3923
3904
4105
ANTLIA
−30°
12h
11h
38

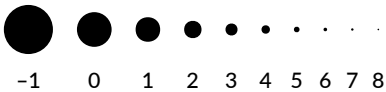

35
10h
9h
0°
SEXTANS
2974
3115 Spindle
HYDRA
Alphard
26
−15°
3242 Ghost of Jupiter
2986
2835
2784
3109
PYXIS
ANTLIA
2997
−30°
10h
9h
39


36
12h
11h
CORVUS
3585
3885
3923
3904
4105
HYDRA
3621
-30°
3275
3557
ANTLIA
49
4373
3680
VELA
-45°
3330
IC 3896
CENTAURUS
3960
3918
3532 Wishing Well
3293 Gem
3324
CARINA
Tr 16
Cr 228
Gacrux
Imai
3699
CRUX
3766 Pearl
3590
3372 Carina
3576 Statue of Liberty
13h
12h
11h
50
40


37
10h
9h
2997
3223
ANTLIA
3087
3275
PYXIS
3132 Southern Ring
28
VELA
Suhail
2626
3201
PUPPIS
2736 Pencil
2659
Vela Supernova Remnant
2660
IC 2395
2670
3228
2910
2547
2669
IC 2391 o Vel
Markeb
3033
Alsephina
IC 2488
3247
2867
3293 Gem
3114
CARINA
IC 2553
Aspidiske
Avior
-30°
-45°
10h
9h
8h
40
30


38
39
11h
10h
12h
−60°
50
30
−75°
15h
18h
21h
0h
3h
3918
3324
Tr 16
Cr 228
3532 Wishing Well
3114
2867
3699
3496
3372 Carina
IC 2501
3576 Statue of Liberty
Aspidiske
3211
IC 2553
IC 2602 Southern Pleiades
3766 Pearl
IC 2714
Mel 105
Cr 249
4103
IC 2948
4052
IC 2621
2808
IC 2944 Running Chicken
3136
CENTAURUS
CARINA
Miaplacidus
IC 2448
VOLANS
Dark Doodad
4372
4833
MUSCA
CHAMAELEON
3195
IC 4499
OCTANS
APUS
South Pole

Legend



Star magnitudes

Double star

Variable star (max. and min.)

Meteor shower radiant

Constellation figure

Ecliptic

Track (1 January)

Galaxy

Open cluster

Globular cluster

Nebula

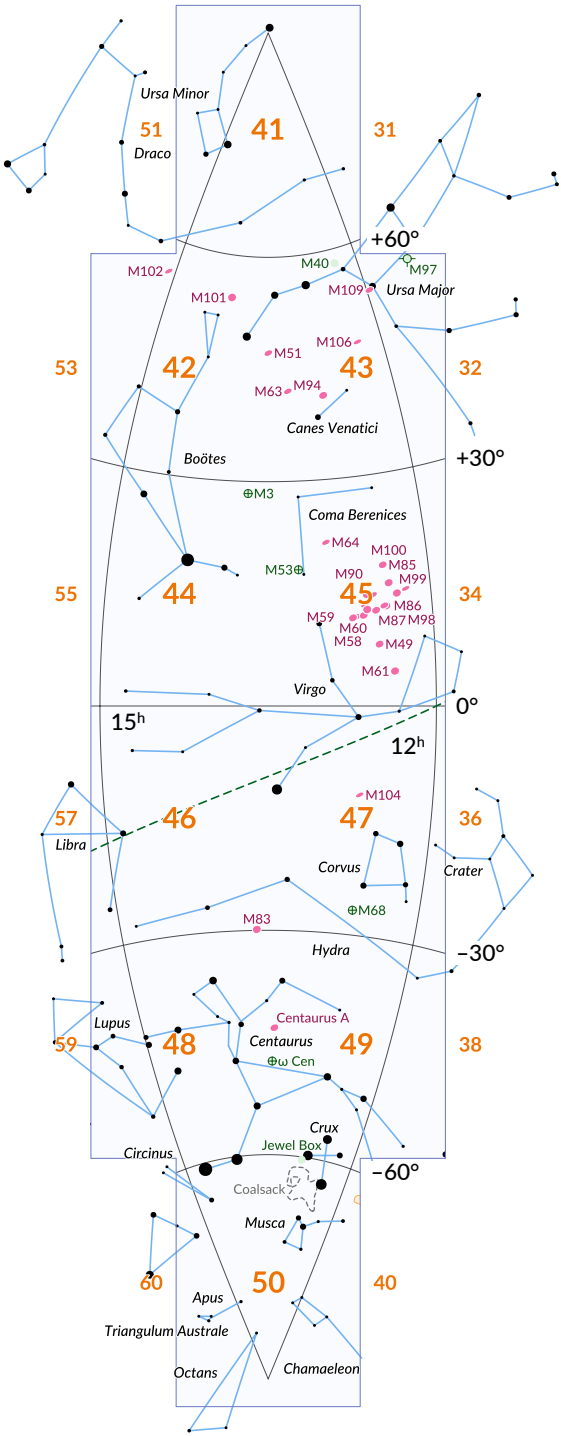
Dark nebula

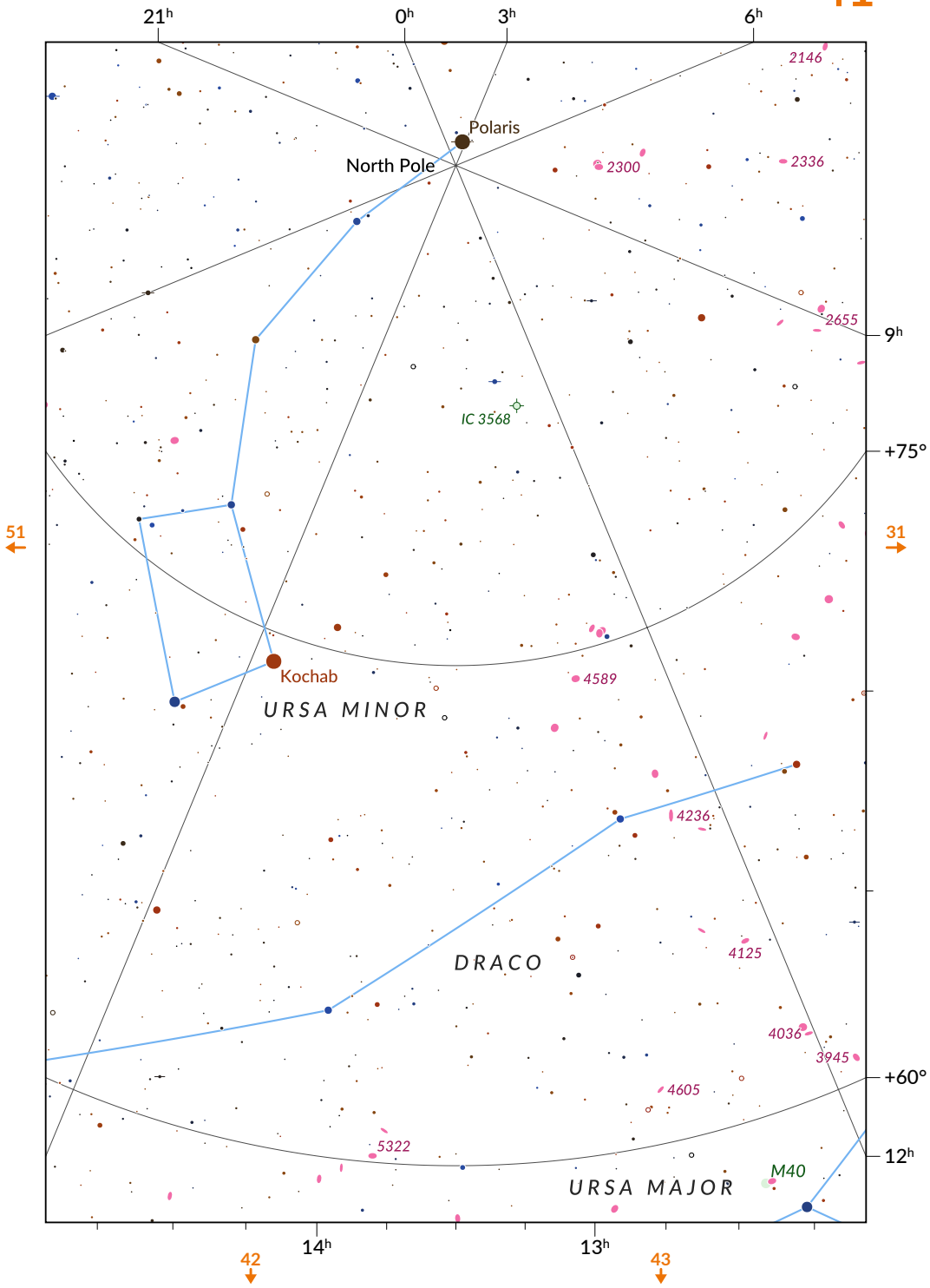
Planetary nebula

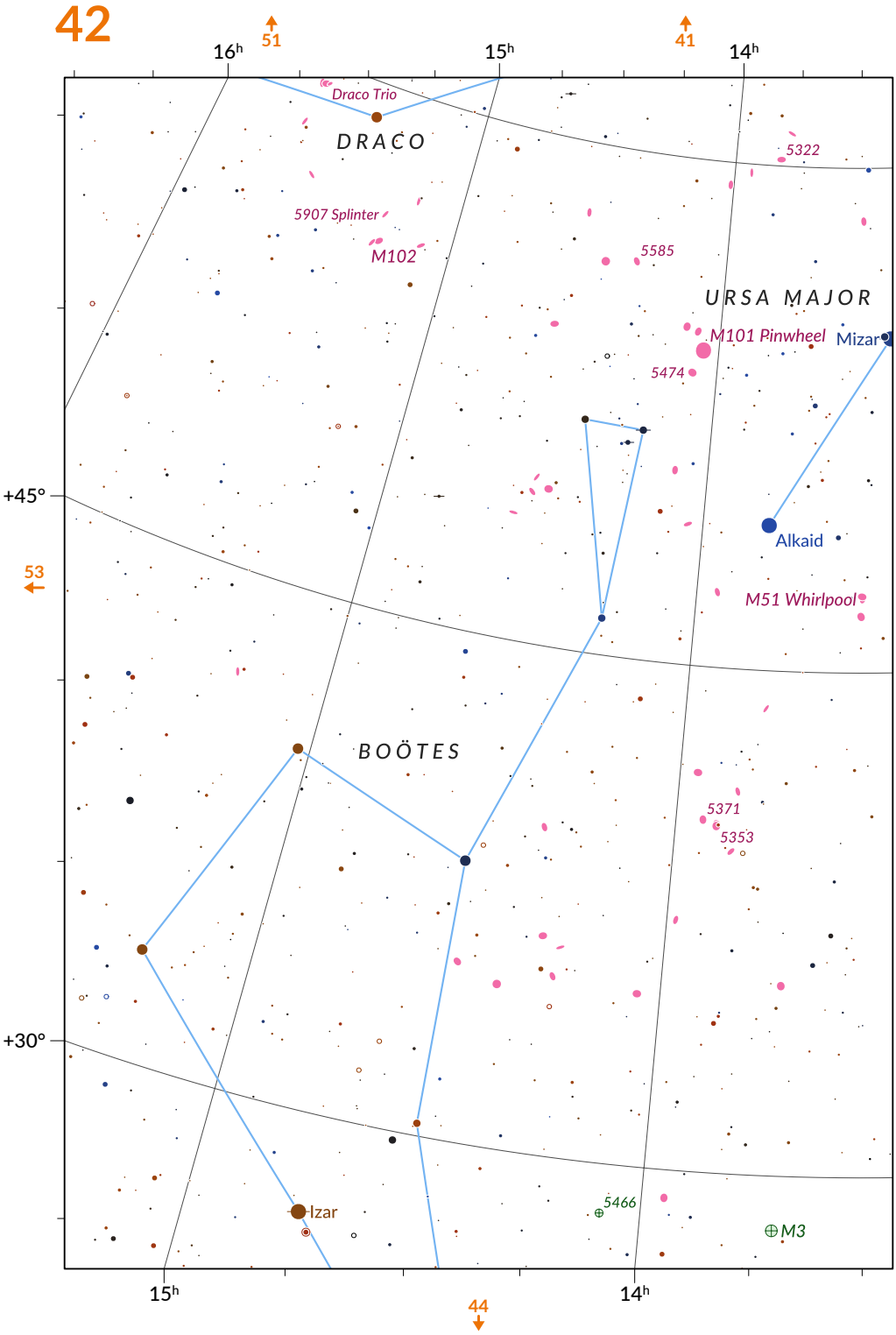
Charts 41–50

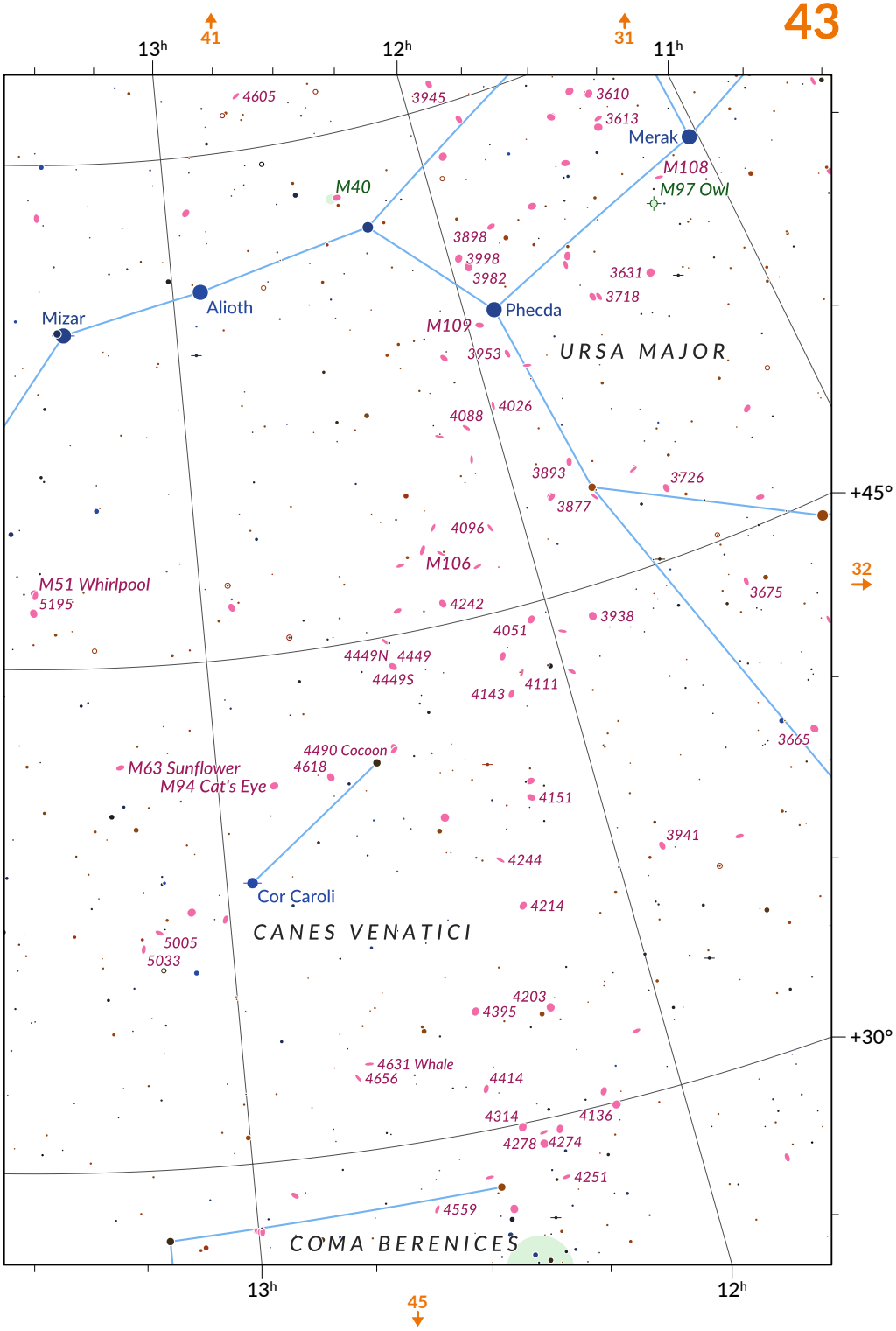
Right ascension 12^h to 15^h

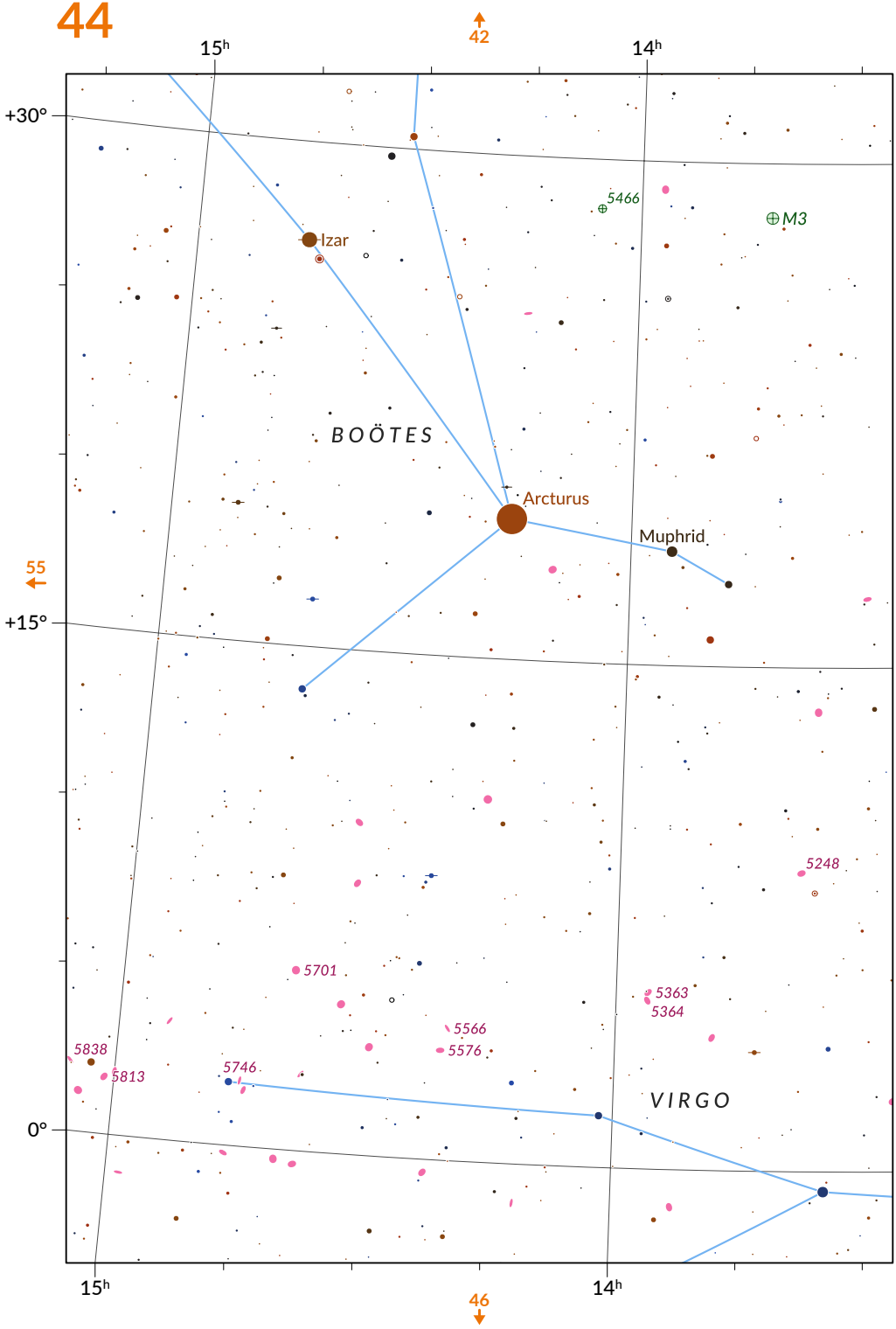
May/June

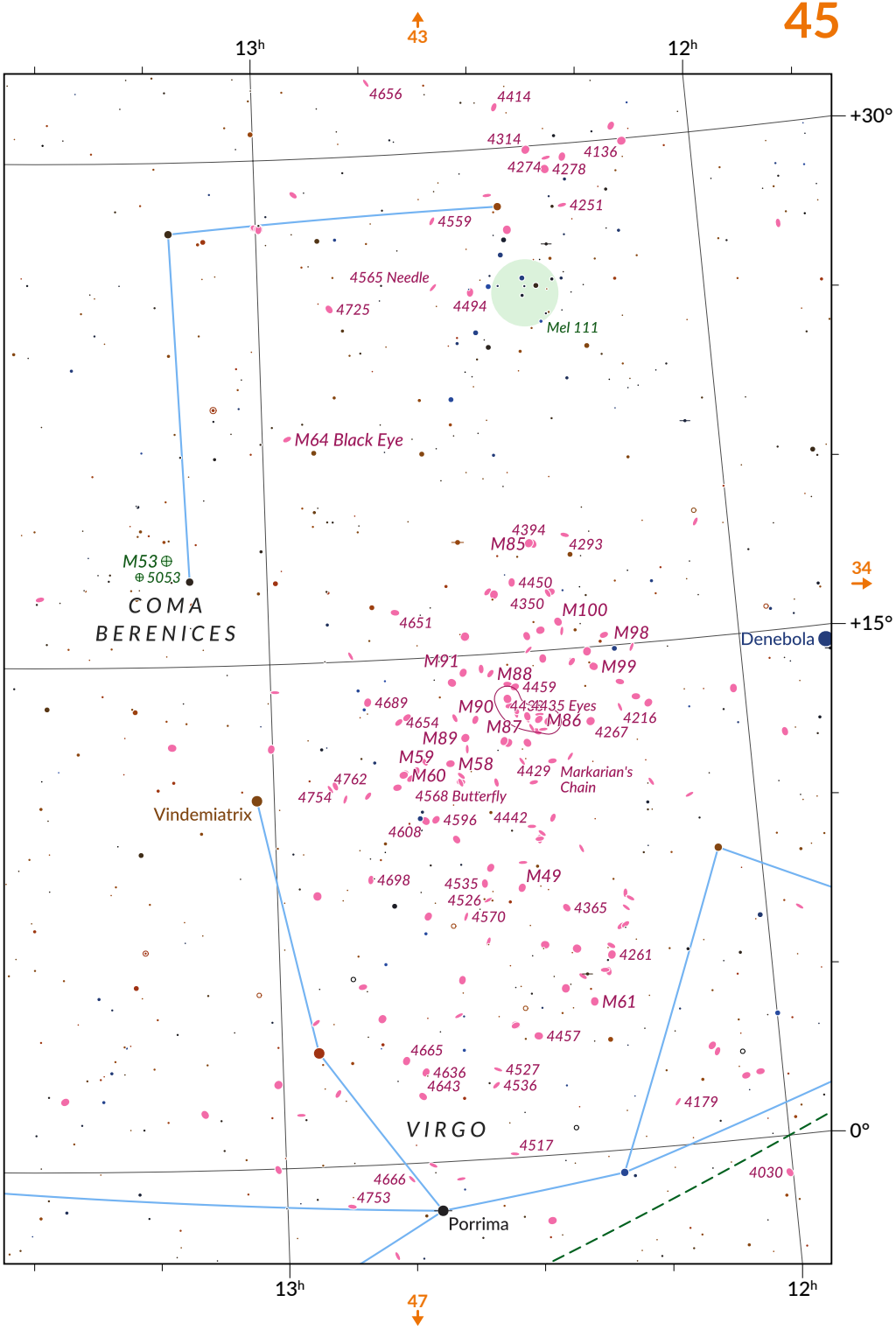


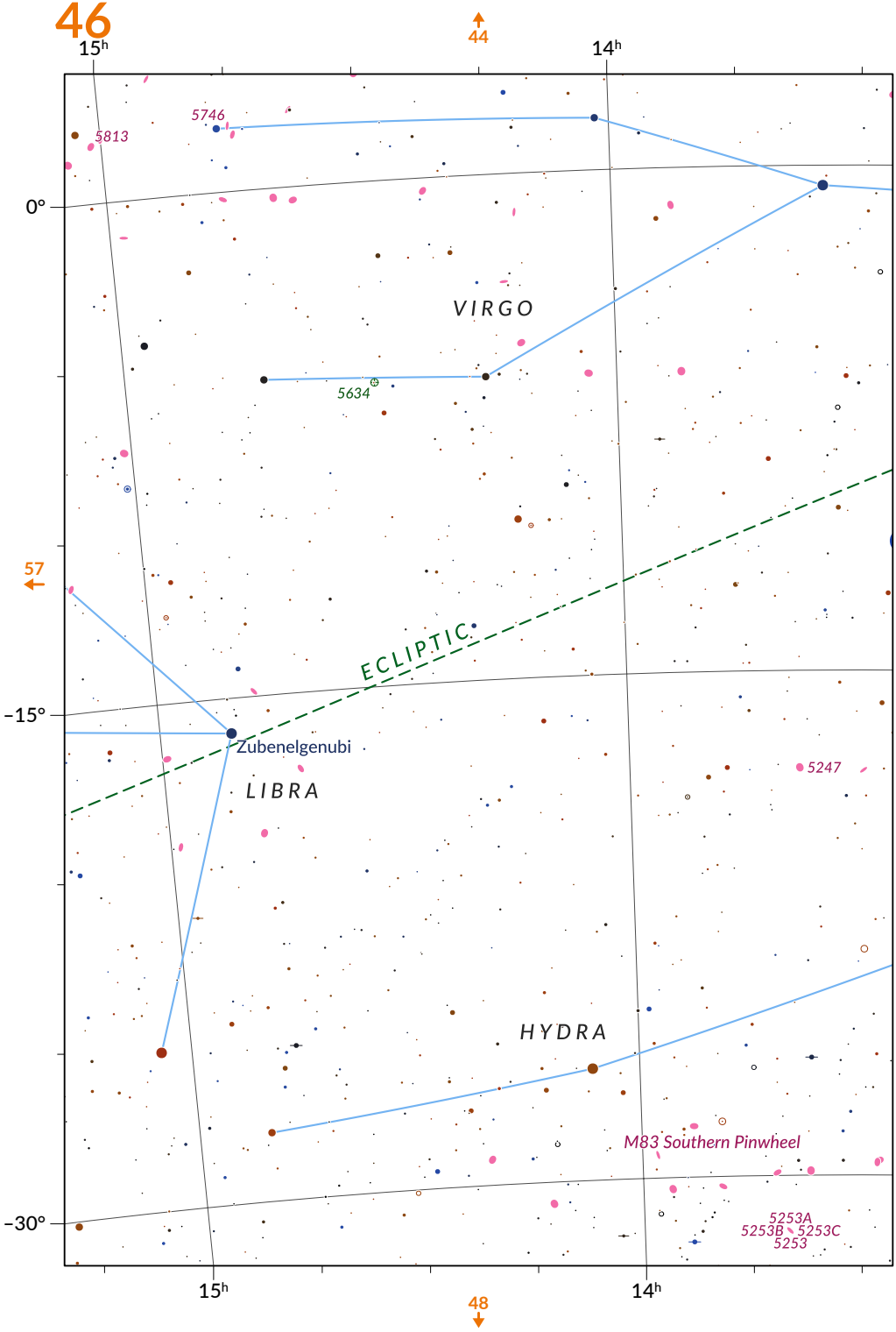

21h
0h
3h
6h
9h
12h
14h
13h
+75°
+60°
Polaris
North Pole
2146
2300
2336
2655
IC 3568
Kochab
URSA MINOR
4589
4236
DRACO
4125
4036
3945
4605
5322
M40
URSA MAJOR
51
31
42
43

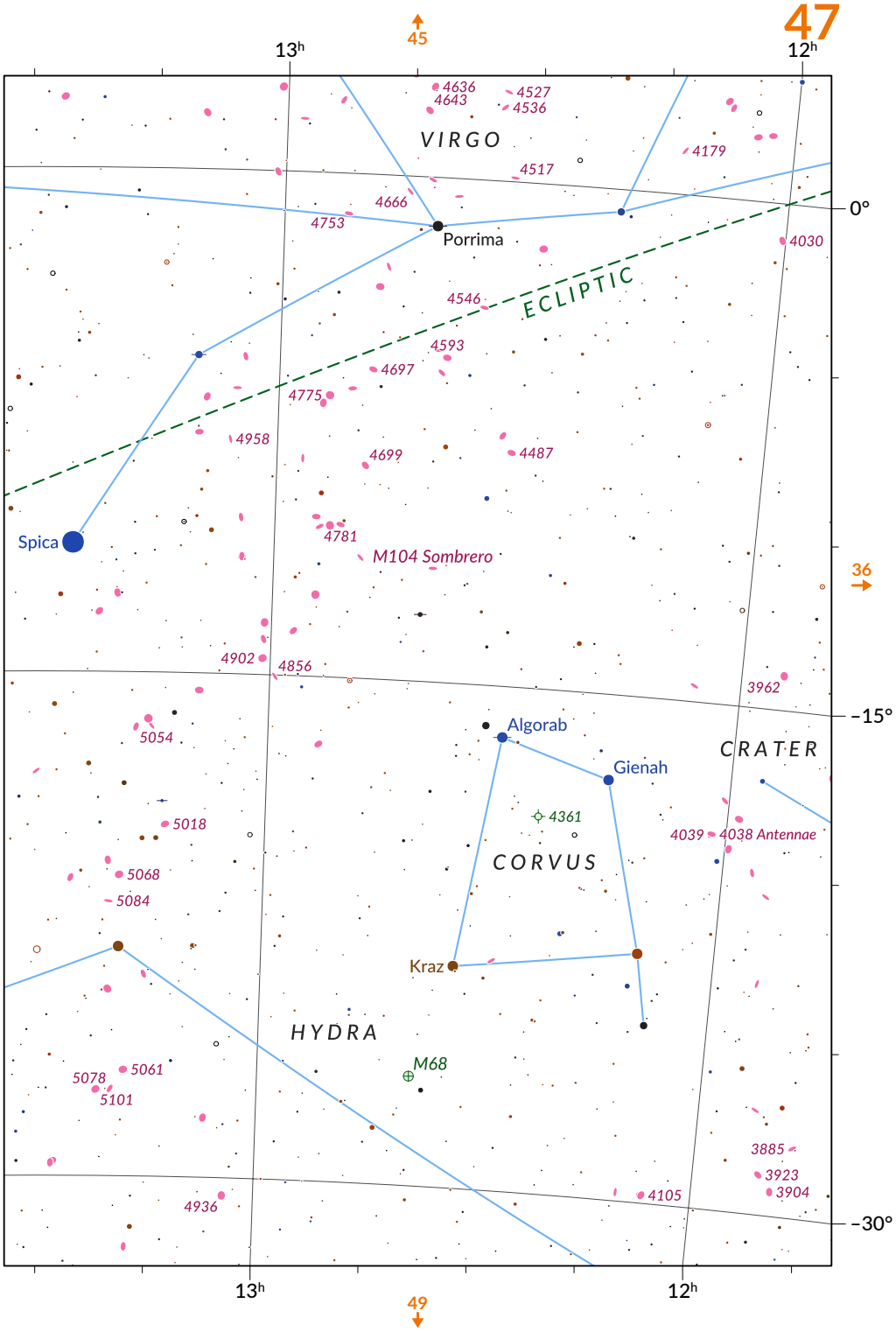

51
41
16h
15h
14h
Draco Trio
DRACO
5322
5907 Splinter
M102
5585
URSA MAJOR
M101 Pinwheel
Mizar
5474
+45°
Alkaid
53
M51 Whirlpool
BOÖTES
5371
5353
+30°
Izar
5466
M3
15h
14h
44

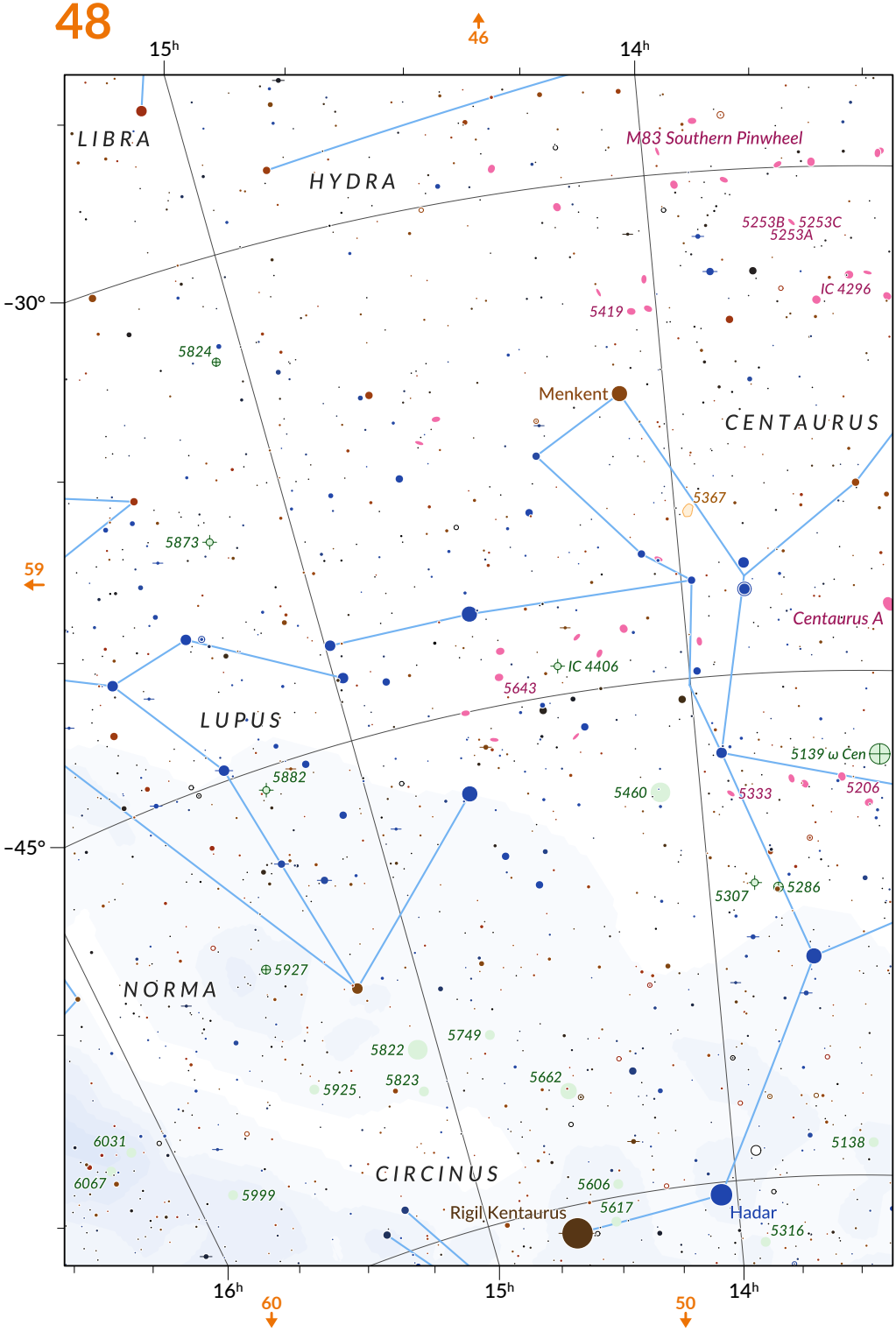

13h
12h
11h
41
31
32
45
+45°
+30°
4605
3945
3610
3613
Merak
M108
M97 Owl
M40
3898
3998
3982
3631
3718
Alioth
Mizar
Phecda
M109
3953
URSA MAJOR
4026
4088
3893
3726
3877
4096
M106
M51 Whirlpool
5195
4242
3675
3938
4051
4449N
4449
4449S
4111
4143
3665
4490 Cocoon
4618
M63 Sunflower
M94 Cat's Eye
4151
3941
4244
Cor Caroli
4214
CANES VENATICI
5005
5033
4203
4395
4631 Whale
4656
4414
4314
4136
4278
4274
4251
4559
COMA BERENICES

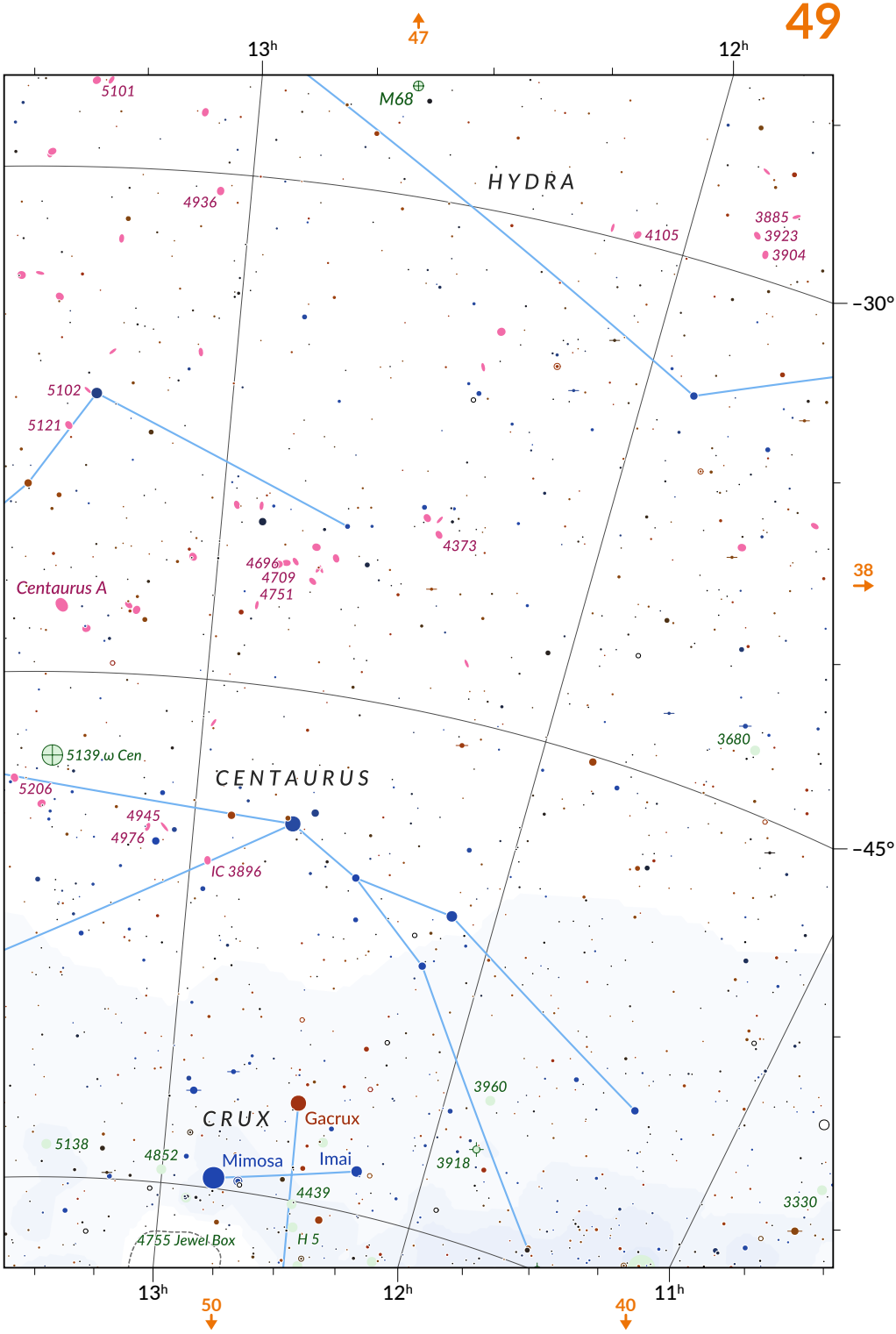

42
15h
14h
+30°
5466
M3
Izar
BOÖTES
Arcturus
Muphrid
55
+15°
5248
5701
5363
5364
5566
5576
5838
5813
5746
VIRGO
0°
15h
14h
46

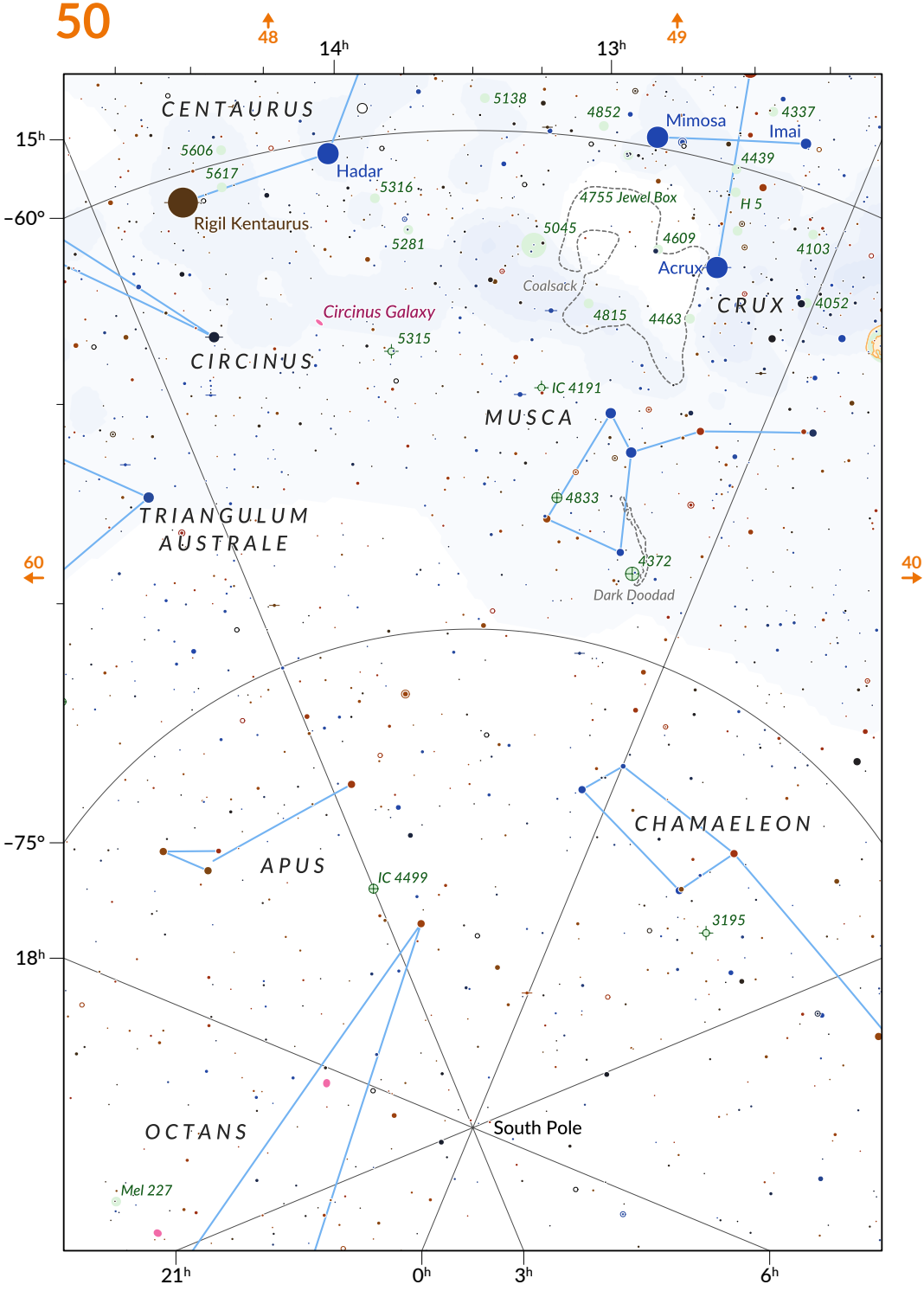

43
13h
12h
+30°
4656
4414
4314
4136
4274
4278
4251
4559
4565 Needle
4725
4494
Mel 111
M64 Black Eye
4394
M85
4293
M53
5053
COMA
BERENICES
4450
4350
M100
4651
M98
34
+15°
Denebola
M91
M88
M99
4459
4689
M90
4435 Eyes
M86
4216
4654
M87
4267
M89
M59
M58
4429
Markarian's
Chain
4762
M60
4754
4568 Butterfly
Vindemiatrix
4596
4442
4608
4698
4535
M49
4526
4365
4570
4261
M61
4457
4665
4636
4527
4643
4536
4179
VIRGO
0°
4517
4666
4030
4753
Porrima
13h
12h
47


44
15h
14h
5746
5813
0°
VIRGO
5634
57
ECLIPTIC
−15°
Zubenelgenubi
LIBRA
5247
HYDRA
M83 Southern Pinwheel
−30°
5253A
5253B
5253C
5253
15h
14h
48

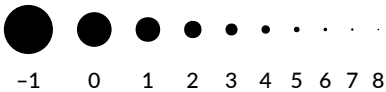

45
13h
12h
4636
4643
4527
4536
VIRGO
4179
4517
4666
4753
Porrima
0°
4030
ECLIPTIC
4546
4593
4697
4775
4958
4699
4487
Spica
4781
M104 Sombrero
36
4902
4856
3962
−15°
5054
Algorab
Gienah
CRATER
4361
5018
4039
4038 Antennae
CORVUS
5068
5084
Kraz
HYDRA
M68
5078
5061
5101
3885
3923
3904
4105
4936
−30°
13h
12h
49


46
15h
14h
LIBRA
HYDRA
M83 Southern Pinwheel
5253B
5253C
5253A
IC 4296
5419
-30°
5824
Menkent
CENTAURUS
5367
5873
59
Centaurus A
IC 4406
5643
LUPUS
5139 ω Cen
5882
5460
5333
5206
-45°
5307
5286
5927
NORMA
5749
5822
5823
5925
5662
6031
5138
6067
CIRCINUS
5999
5606
Rigil Kentaurus
5617
Hadar
5316
16h
60
15h
50
14h


47
13h
12h
5101
M68
HYDRA
4936
4105
3885
3923
3904
−30°
5102
5121
4373
4696
4709
4751
Centaurus A
38
5139.ω Cen
3680
CENTAURUS
5206
4945
4976
IC 3896
−45°
3960
CRUX
Gacrux
5138
4852
Mimosa
Imai
3918
4439
3330
4755 Jewel Box
H 5
13h
12h
11h
50
40


48
49
14h
13h
15h
−60°
60
40
−75°
18h
21h
0h
3h
6h
CENTAURUS
5138
4852
Mimosa
4337
Imai
4439
5606
5617
Hadar
5316
Rigil Kentaurus
4755 Jewel Box
H 5
5045
4609
4103
5281
Acrux
Coalsack
CRUX
4052
Circinus Galaxy
4815
4463
5315
CIRCINUS
IC 4191
MUSCA
4833
TRIANGULUM
AUSTRALE
4372
Dark Doodad
CHAMAELEON
APUS
IC 4499
3195
OCTANS
South Pole
Mel 227

Legend



Star magnitudes

Double star

Variable star (max. and min.)

Meteor shower radiant

Constellation figure

Ecliptic

Track (1 January)

Galaxy

Open cluster

Globular cluster

Nebula

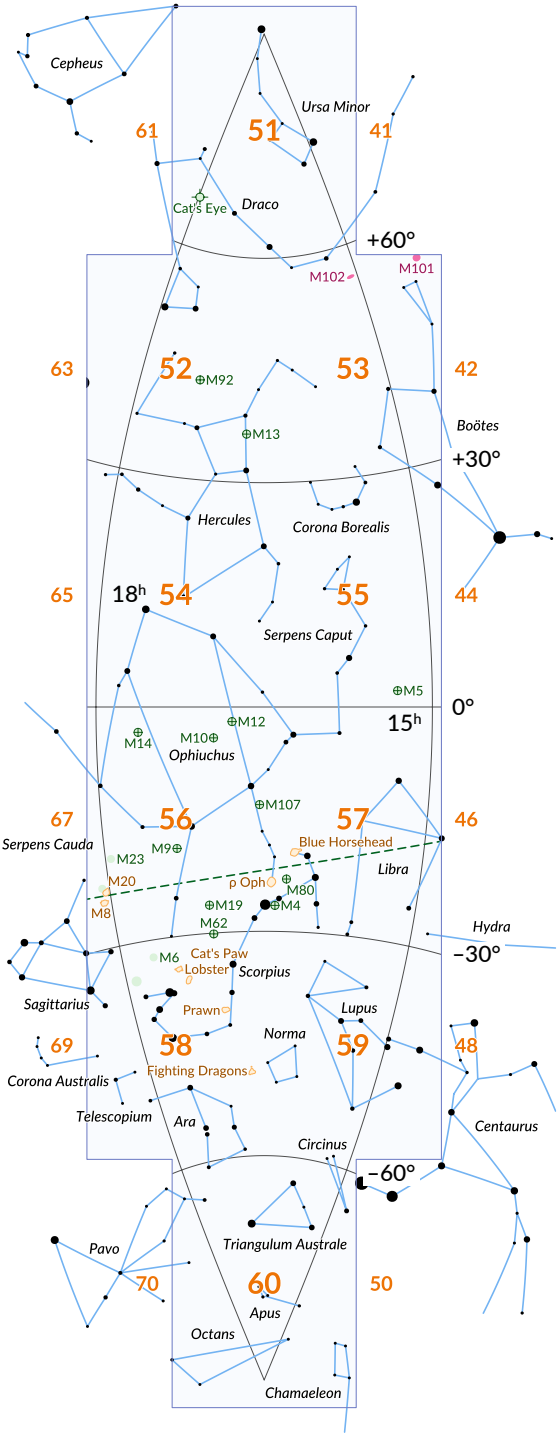
Dark nebula

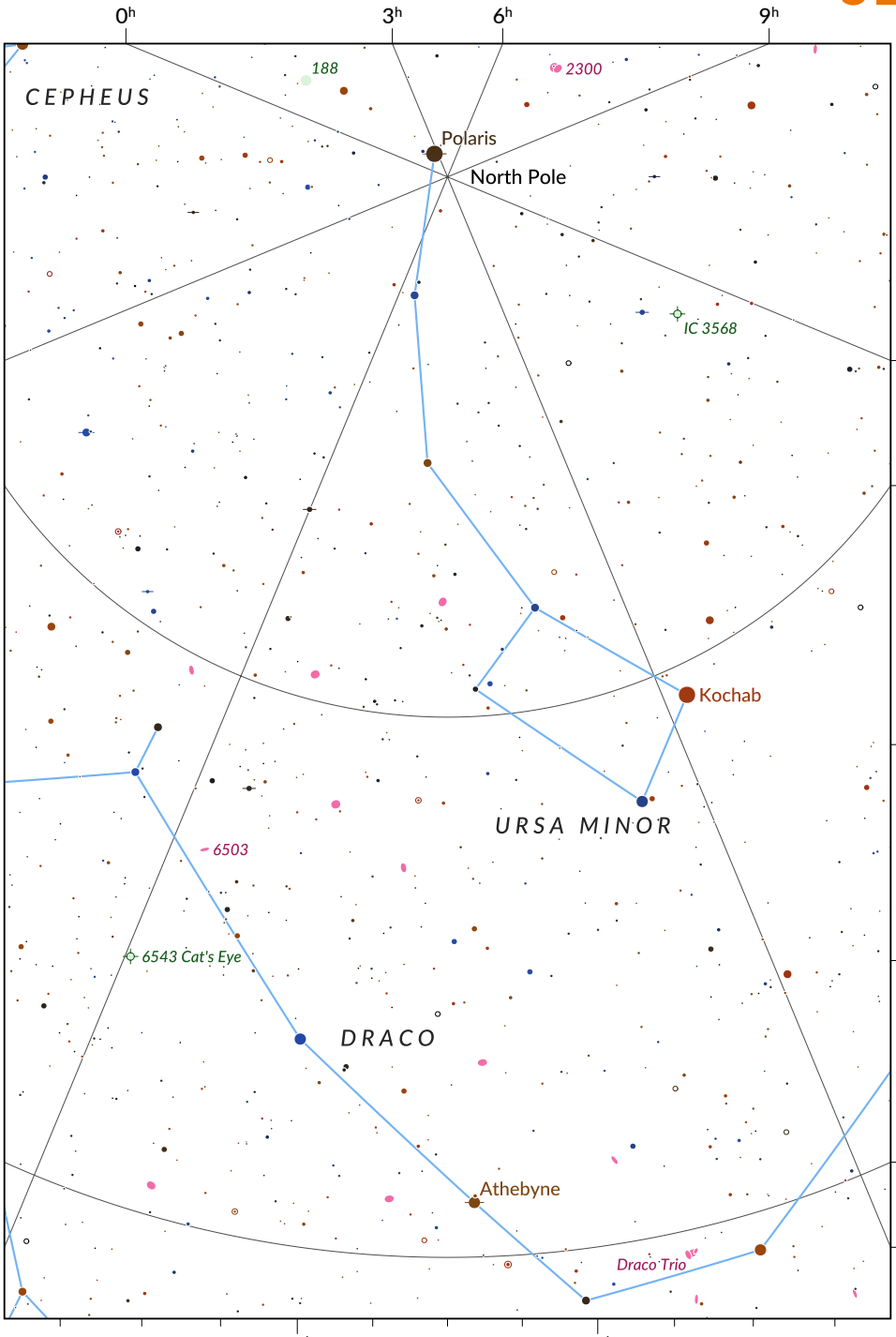
Planetary nebula

Charts 51–60

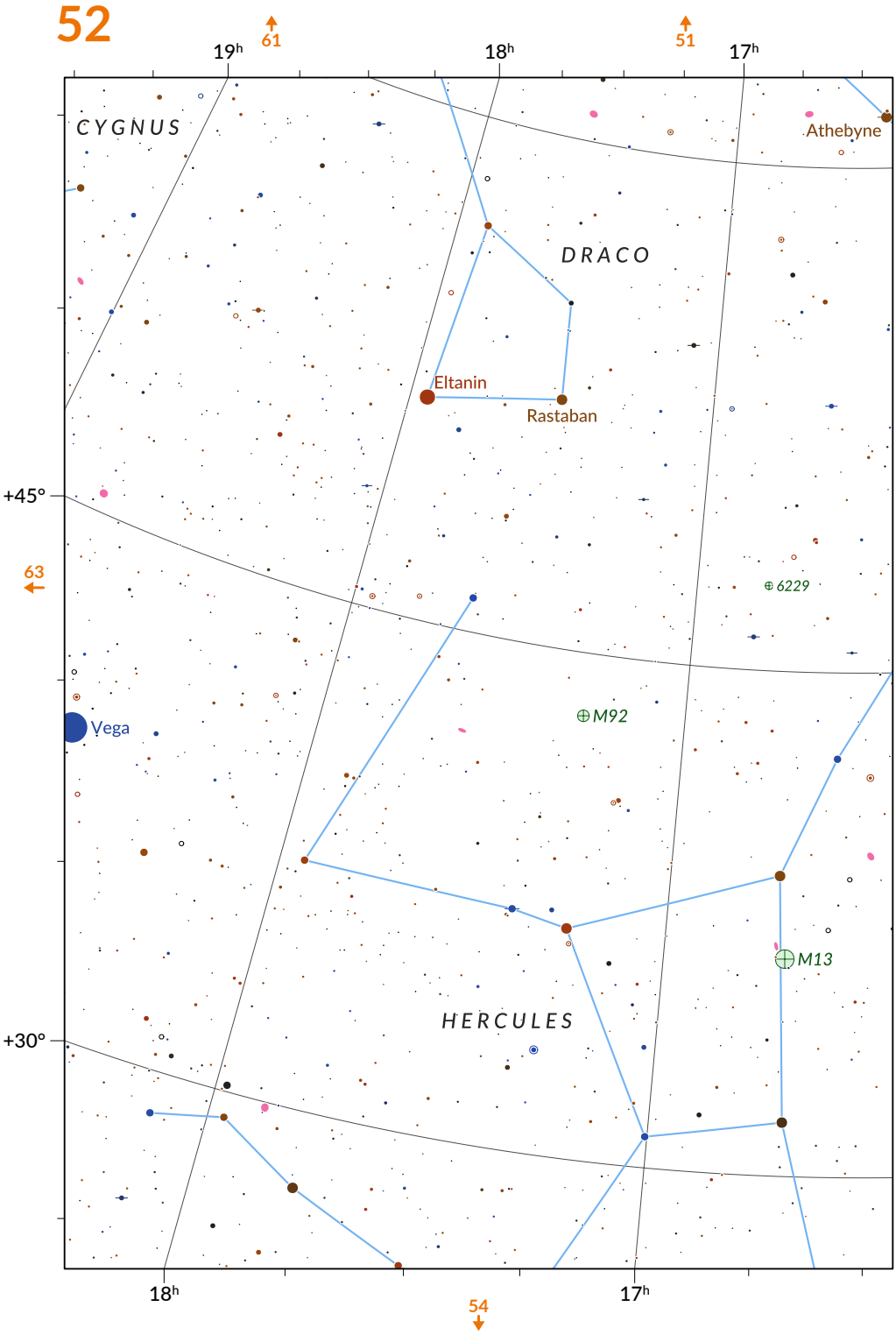
Right ascension 15^h to 18^h

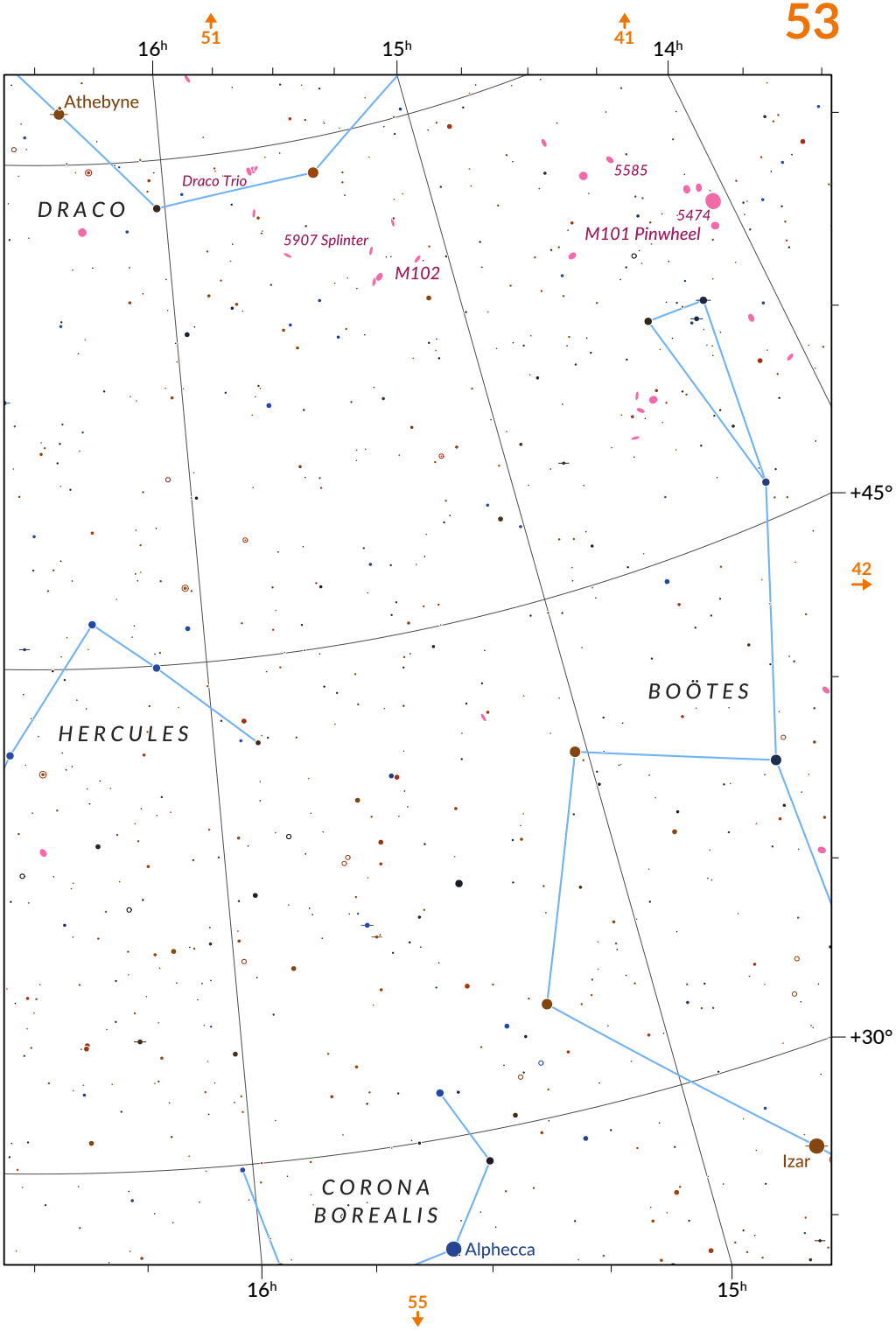
July

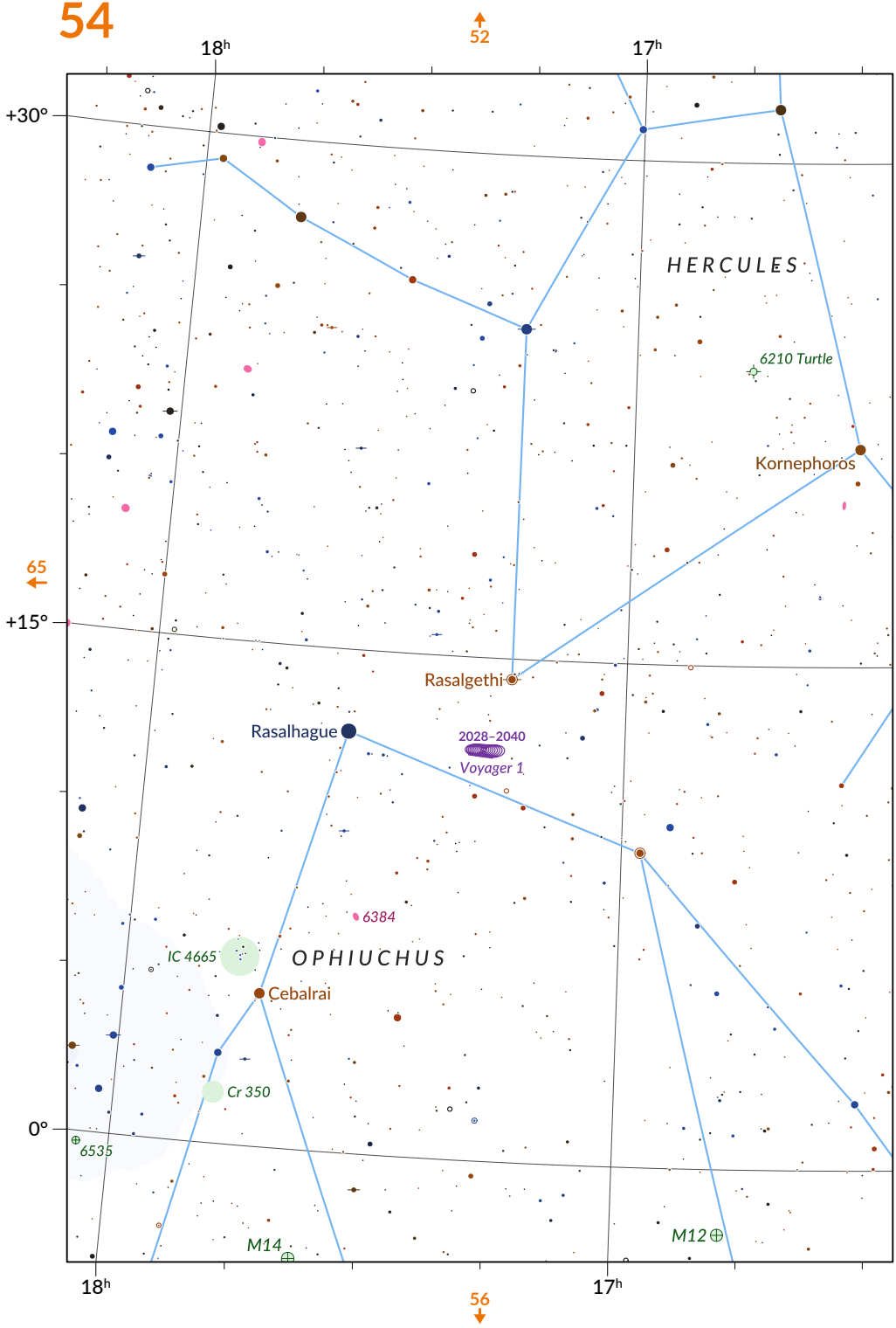


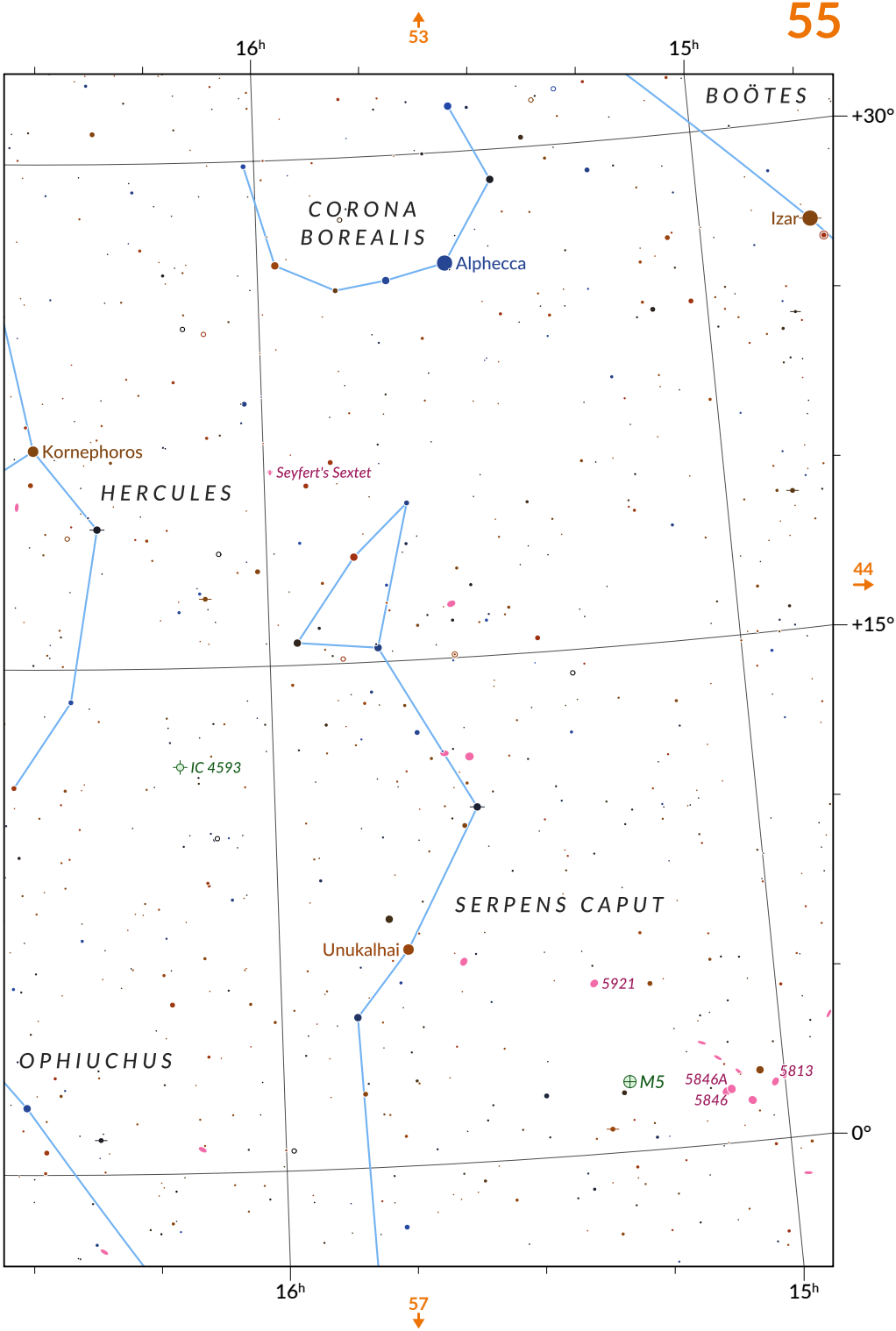

0h
3h
6h
9h
12h
+75°
+60°
15h
17h
16h
CEPHEUS
188
2300
Polaris
North Pole
IC 3568
Kochab
URSA MINOR
6503
6543 Cat's Eye
DRACO
Athebyne
Draco Trio

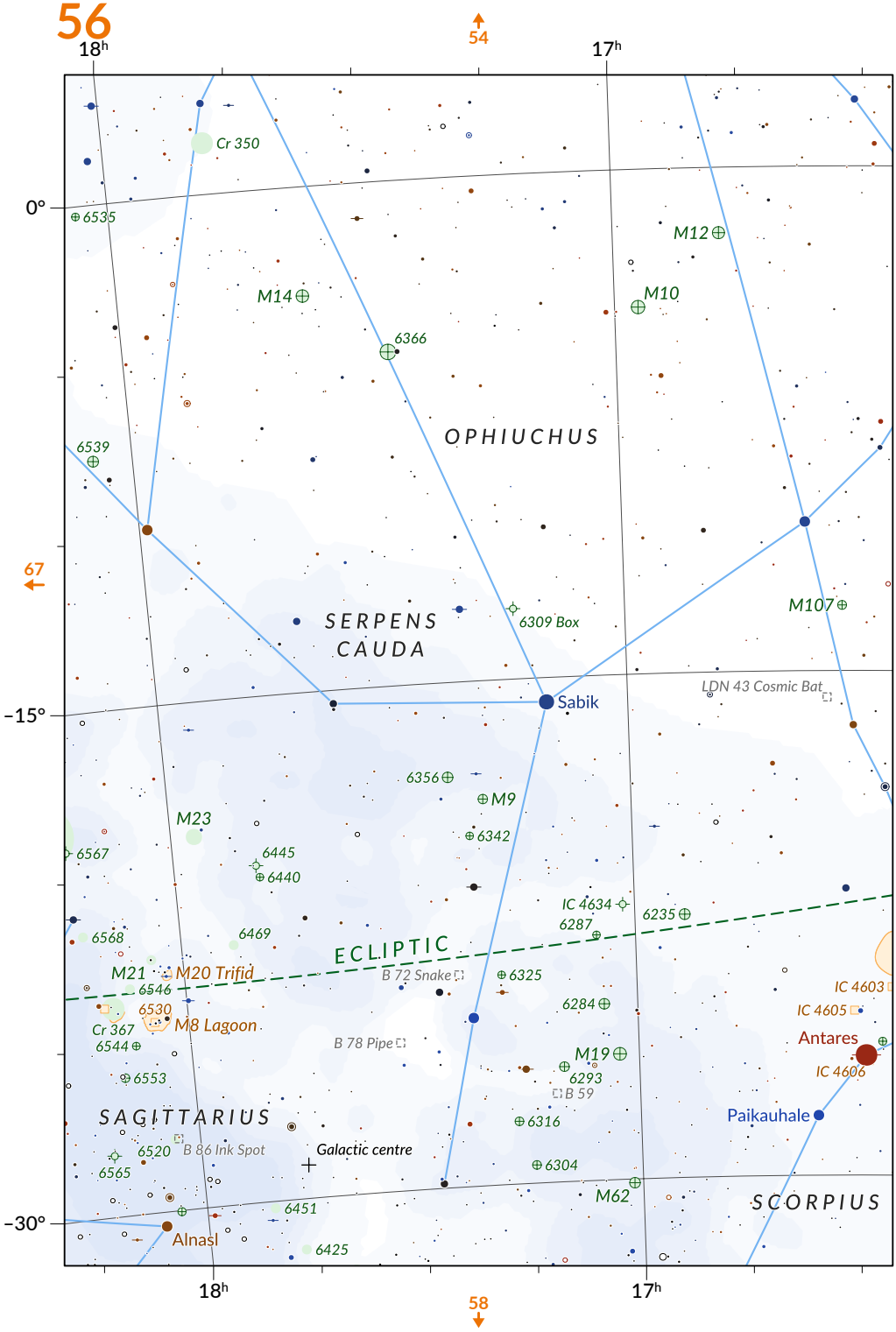
61
41
52
53

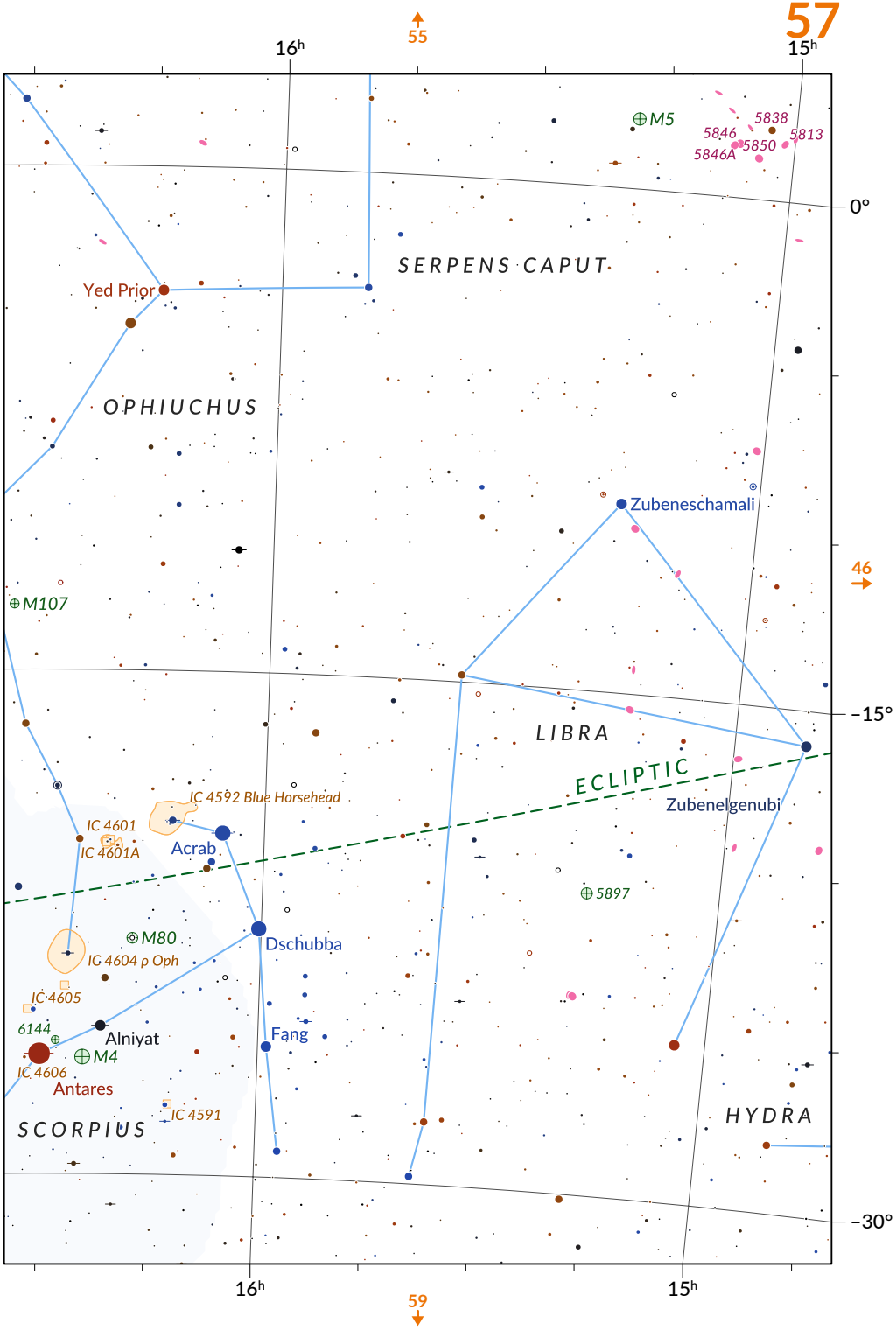

61
51
19h
18h
17h
CYGNUS
Athebyne
DRACO
Eltanin
Rastaban
+45°
63
6229
Vega
M92
M13
HERCULES
+30°
18h
17h
54

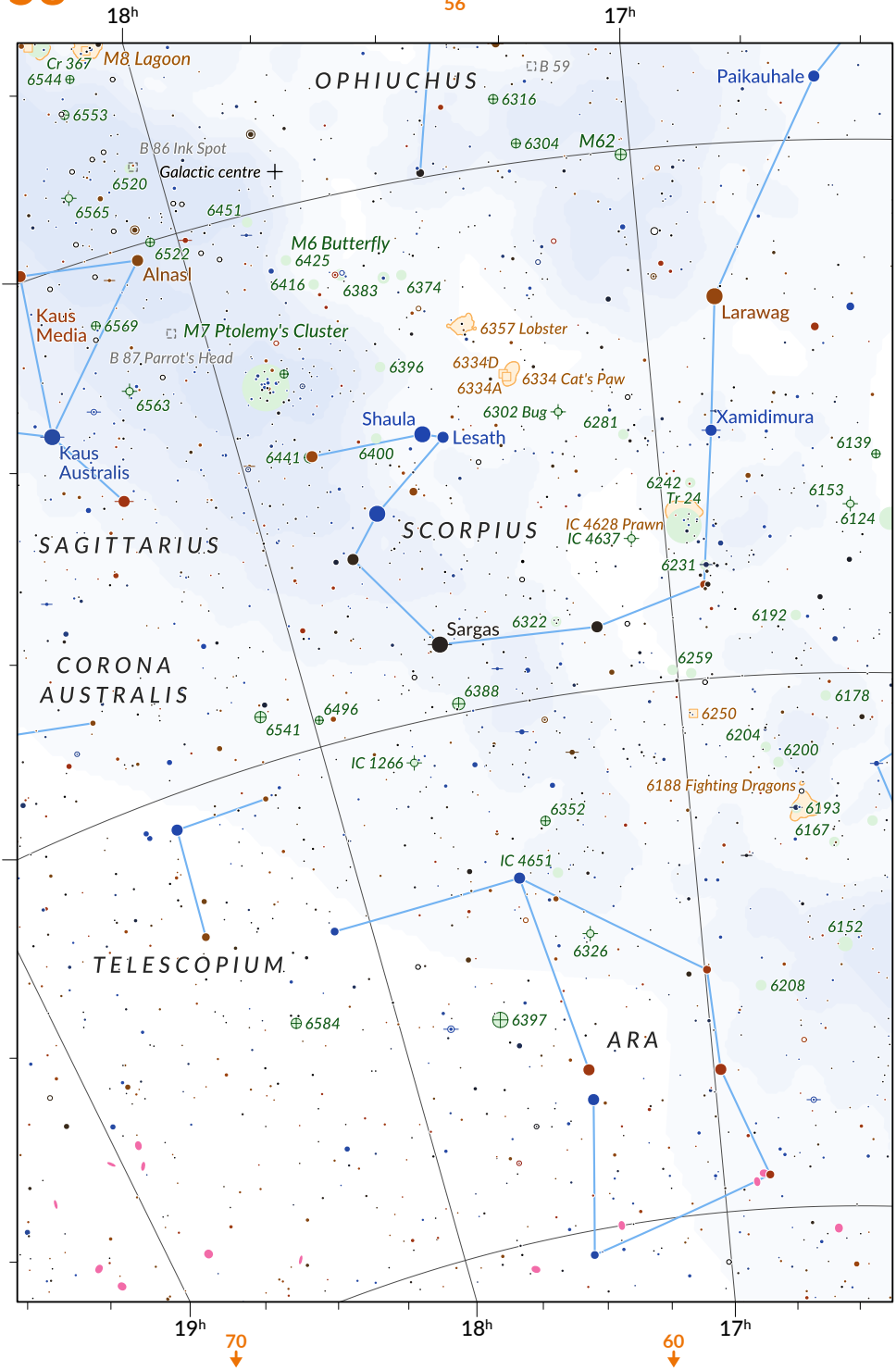

16h
51
15h
41
14h
Athebyne
Draco Trio
DRACO
5907 Splinter
M102
5585
5474
M101 Pinwheel
+45°
42
BOÖTES
HERCULES
+30°
Izar
CORONA
BOREALIS
Alphecca
16h
55
15h

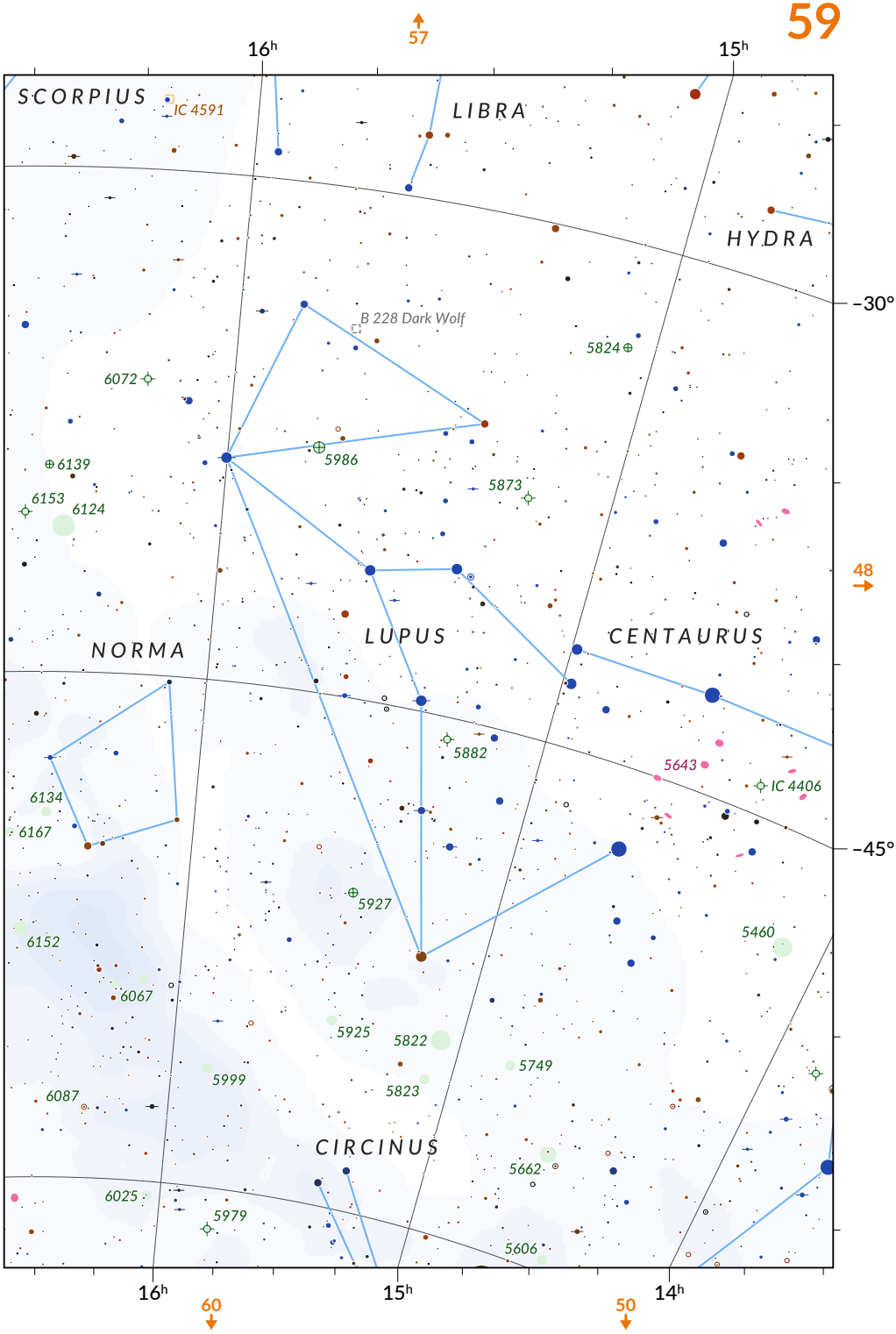

52
18h
17h
+30°
HERCULES
6210 Turtle
Kornephoros
65
+15°
Rasalgethi
Rasalhague
2028–2040
Voyager 1
6384
IC 4665
OPHIUCHUS
Cebalrai
Cr 350
0°
6535
M14
M12
18h
17h
56

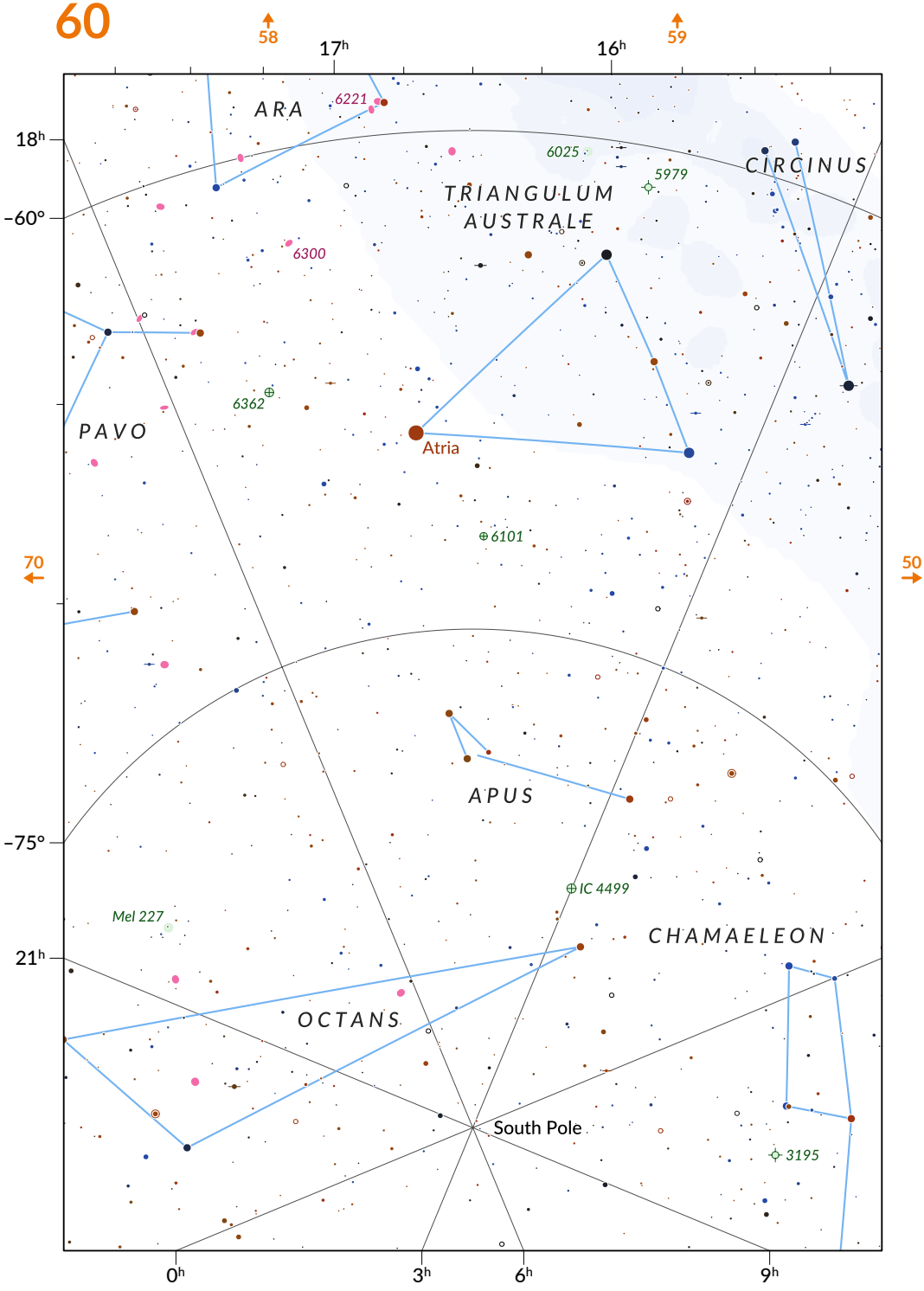

53
16h
15h
BOÖTES
+30°
CORONA
BOREALIS
Izar
Alphecca
Kornephoros
Seyfert's Sextet
HERCULES
44
+15°
IC 4593
SERPENS CAPUT
Unukalhai
5921
OPHIUCHUS
M5
5846A
5846
5813
0°
16h
57
15h


54
18h
17h
Cr 350
0°
6535
M12
M14
M10
6366
OPHIUCHUS
6539
67
SERPENS
CAUDA
6309 Box
M107
LDN 43 Cosmic Bat
Sabik
−15°
6356
M9
M23
6342
6567
6445
6440
IC 4634
6235
6287
6568
6469
ECLIPTIC
M21
M20 Trifid
B 72 Snake
6325
6546
6530
6284
IC 4603
IC 4605
Cr 367
M8 Lagoon
6544
B 78 Pipe
Antares
M19
6293
IC 4606
6553
B 59
SAGITTARIUS
6316
Paikauhale
6520
B 86 Ink Spot
Galactic centre
6565
6304
M62
SCORPIUS
−30°
6451
Alnasl
6425
18h
17h
58

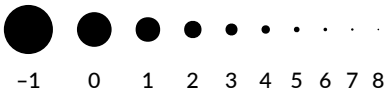

55
16h
15h
M5
5838
5846
5813
5850
5846A
0°
SERPENS CAPUT
Yed Prior
OPHIUCHUS
Zubeneschamali
46
M107
−15°
LIBRA
ECLIPTIC
IC 4592 Blue Horsehead
Zubenelgenubi
IC 4601
IC 4601A
Acrab
5897
M80
Dschubba
IC 4604 ρ Oph
IC 4605
6144
Alniyat
Fang
M4
IC 4606
Antares
IC 4591
SCORPIUS
HYDRA
−30°
16h
15h
59


18h
17h
56
OPHIUCHUS
Cr 367
M8 Lagoon
6544
6553
B 59
6316
Paikauhale
6304
M62
B 86 Ink Spot
Galactic centre
6520
6565
6451
6522
Alnasl
M6 Butterfly
6425
6416
6383
6374
−30°
Kaus Media
6569
M7 Ptolemy's Cluster
6357 Lobster
Larawag
B 87 Parrot's Head
6396
6334D
6334A
6334 Cat's Paw
6563
6302 Bug
6281
Shaula
Lesath
Xamidimura
Kaus Australis
6441
6400
6139
6242
Tr 24
6153
6124
SCORPIUS
IC 4628 Prawn
IC 4637
SAGITTARIUS
69
6231
6192
Sargas
6322
6259
CORONA AUSTRALIS
6388
6178
6496
6541
6250
6204
6200
IC 1266
6188 Fighting Dragons
6193
6167
6352
−45°
IC 4651
6152
6326
TELESCOPIUM
6208
6584
6397
ARA
19h
18h
17h
70
60


57
16h
15h
SCORPIUS
IC 4591
LIBRA
HYDRA
B 228 Dark Wolf
5824
6072
5986
6139
6153
6124
5873
-30°
48
NORMA
LUPUS
CENTAURUS
5882
5643
IC 4406
6134
6167
-45°
5927
6152
5460
6067
5925
5822
5749
5999
6087
5823
CIRCINUS
5662
6025
5979
5606
16h
60
15h
50
14h


58
59
17h
16h
18h
−60°
70
50
−75°
21h
0h
3h
6h
9h
ARA
6221
6025
5979
CIRCINUS
TRIANGULUM
AUSTRALE
6300
6362
PAVO
Atria
6101
APUS
IC 4499
Mel 227
CHAMAELEON
OCTANS
South Pole
3195

Legend



Star magnitudes

Double star

Variable star (max. and min.)

Meteor shower radiant

Constellation figure

Ecliptic

Track (1 January)

Galaxy

Open cluster

Globular cluster

Nebula

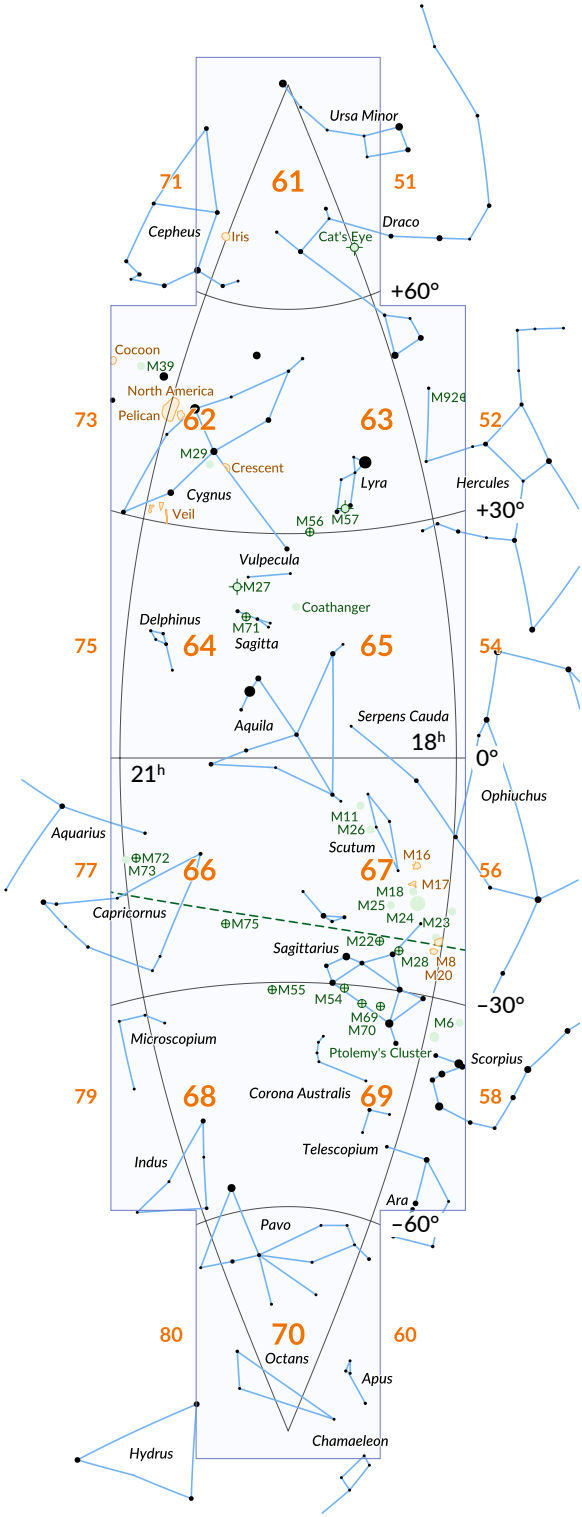
Dark nebula

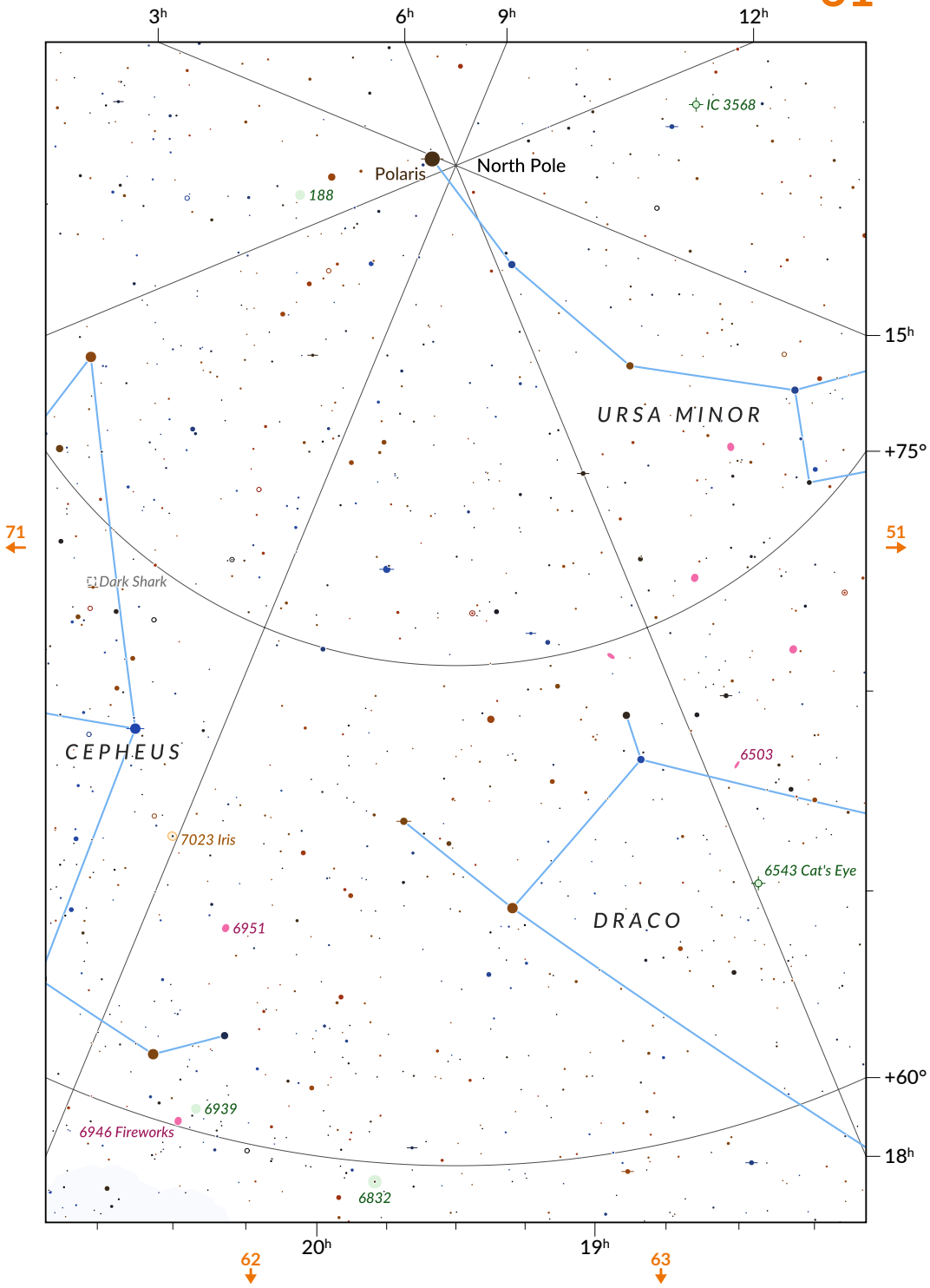
Planetary nebula

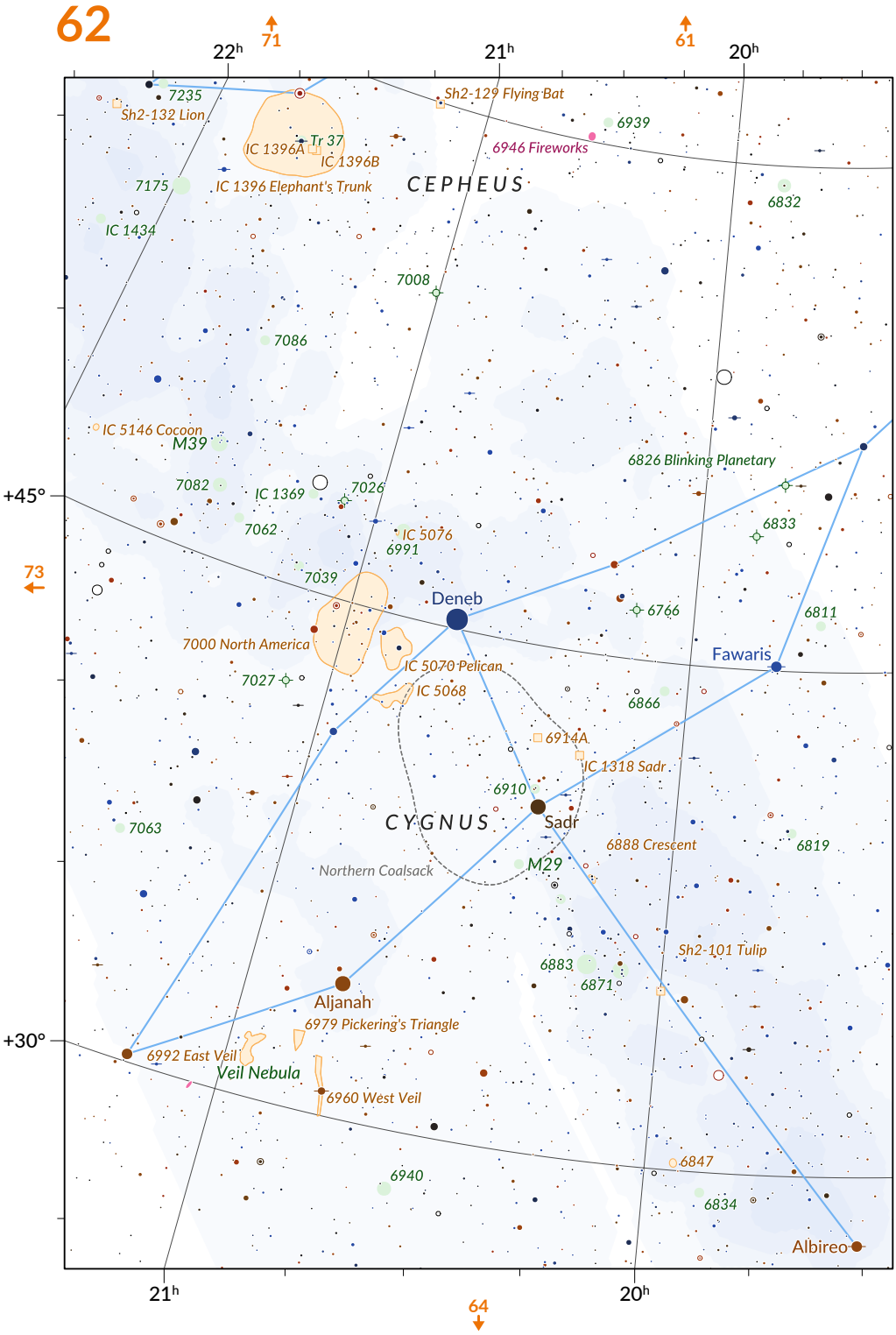
Charts 61–70

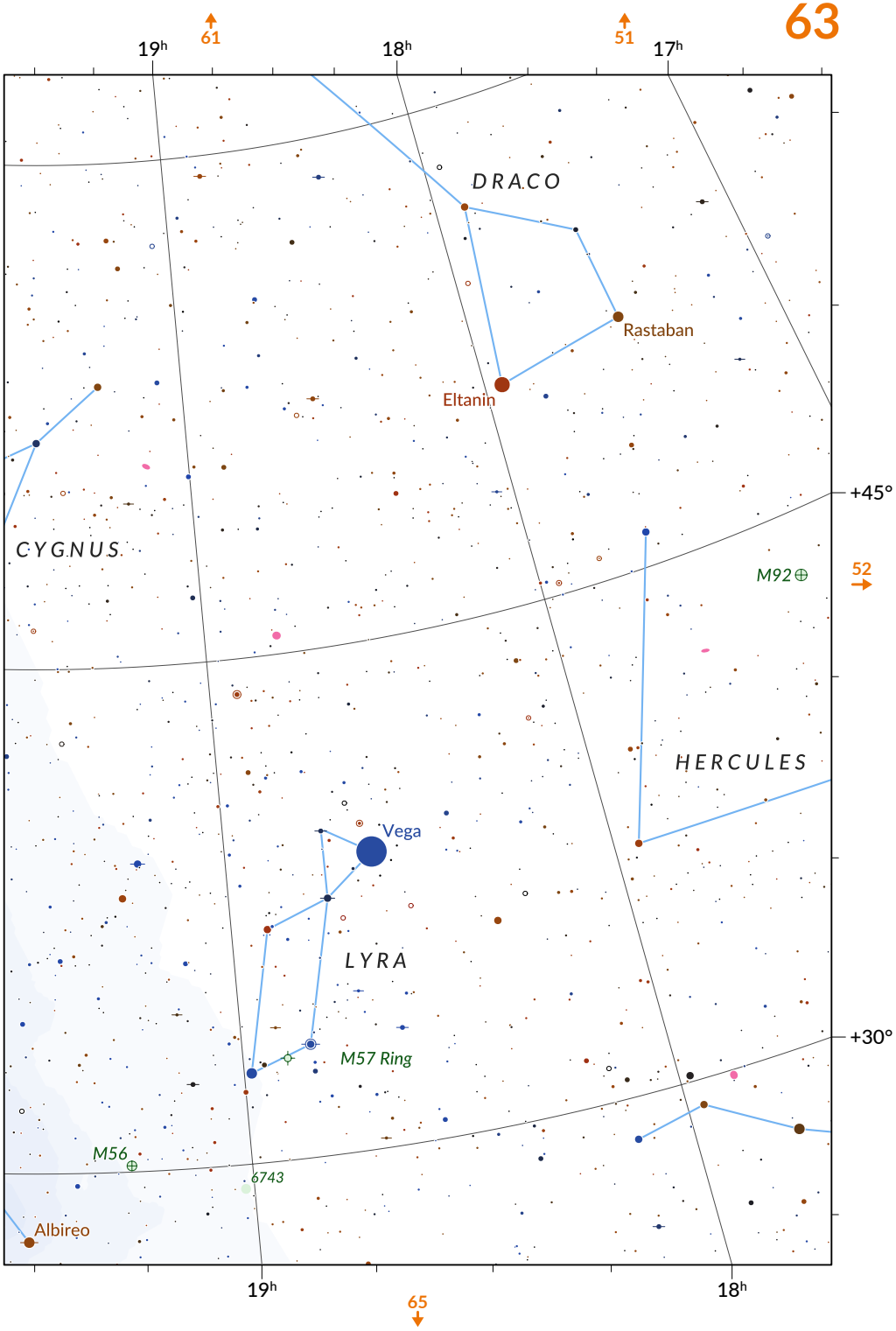
Right ascension 18^h to 21^h

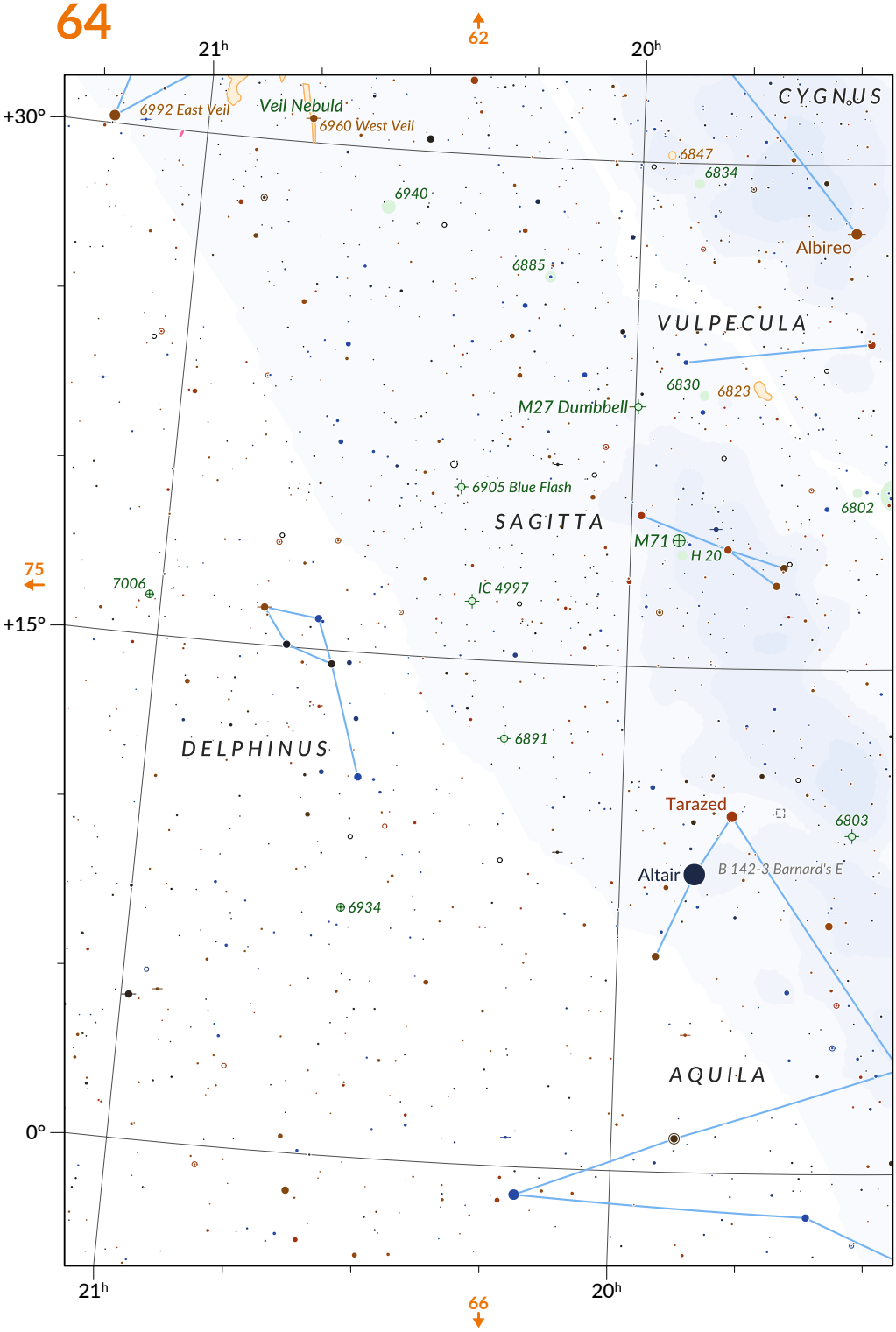
August/September

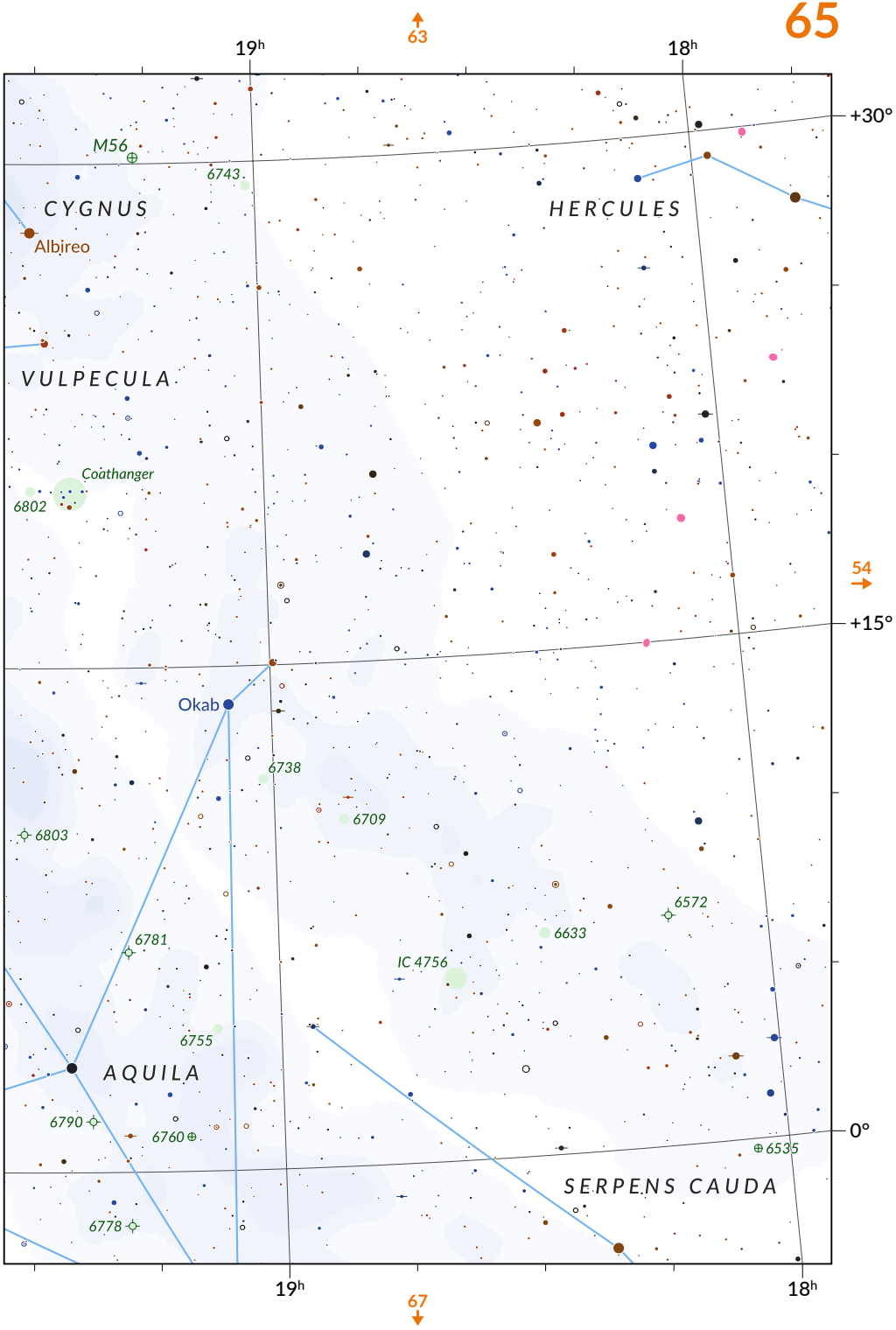


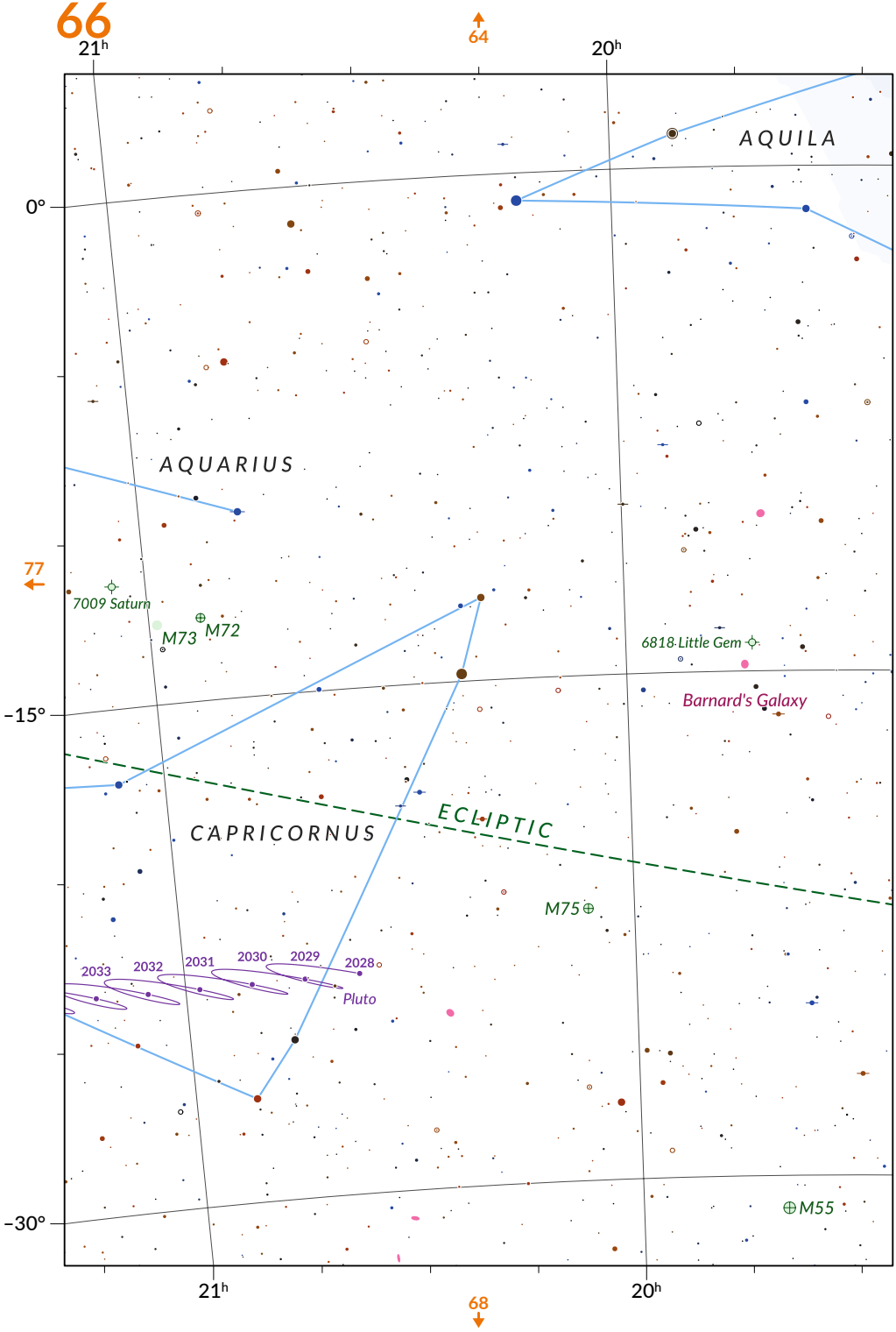

3h
6h
9h
12h
IC 3568
Polaris
North Pole
188
15h
URSA MINOR
+75°
71
51
Dark Shark
CEPHEUS
6503
7023 Iris
6543 Cat's Eye
DRACO
6951
+60°
6939
6946 Fireworks
18h
6832
20h
19h
62
63

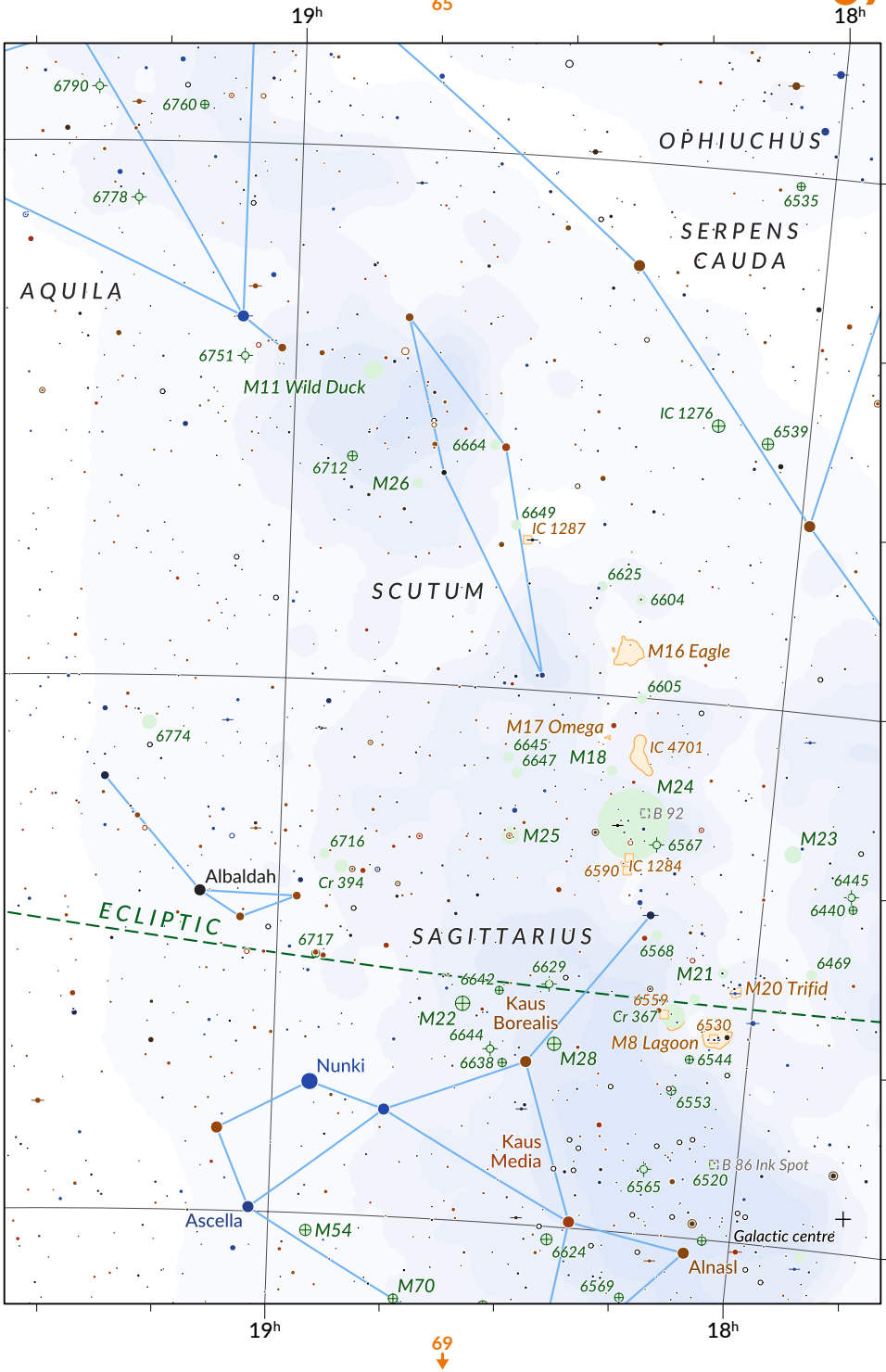

71
61
22h
21h
20h
7235
Sh2-132 Lion
Sh2-129 Flying Bat
6939
IC 1396A
Tr 37
IC 1396B
6946 Fireworks
7175
IC 1396 Elephant's Trunk
CEPHEUS
6832
IC 1434
7008
7086
IC 5146 Cocoon
M39
6826 Blinking Planetary
+45°
7082
IC 1369
7026
7062
IC 5076
6991
6833
73
7039
Deneb
6766
6811
7000 North America
Fawaris
IC 5070 Pelican
7027
IC 5068
6866
6914A
IC 1318 Sadr
6910
CYGNUS
Sadr
7063
6888 Crescent
6819
Northern Coalsack
M29
Sh2-101 Tulip
6883
6871
Aljanah
6979 Pickering's Triangle
+30°
6992 East Veil
Veil Nebula
6960 West Veil
6847
6940
6834
Albireo
21h
20h
64

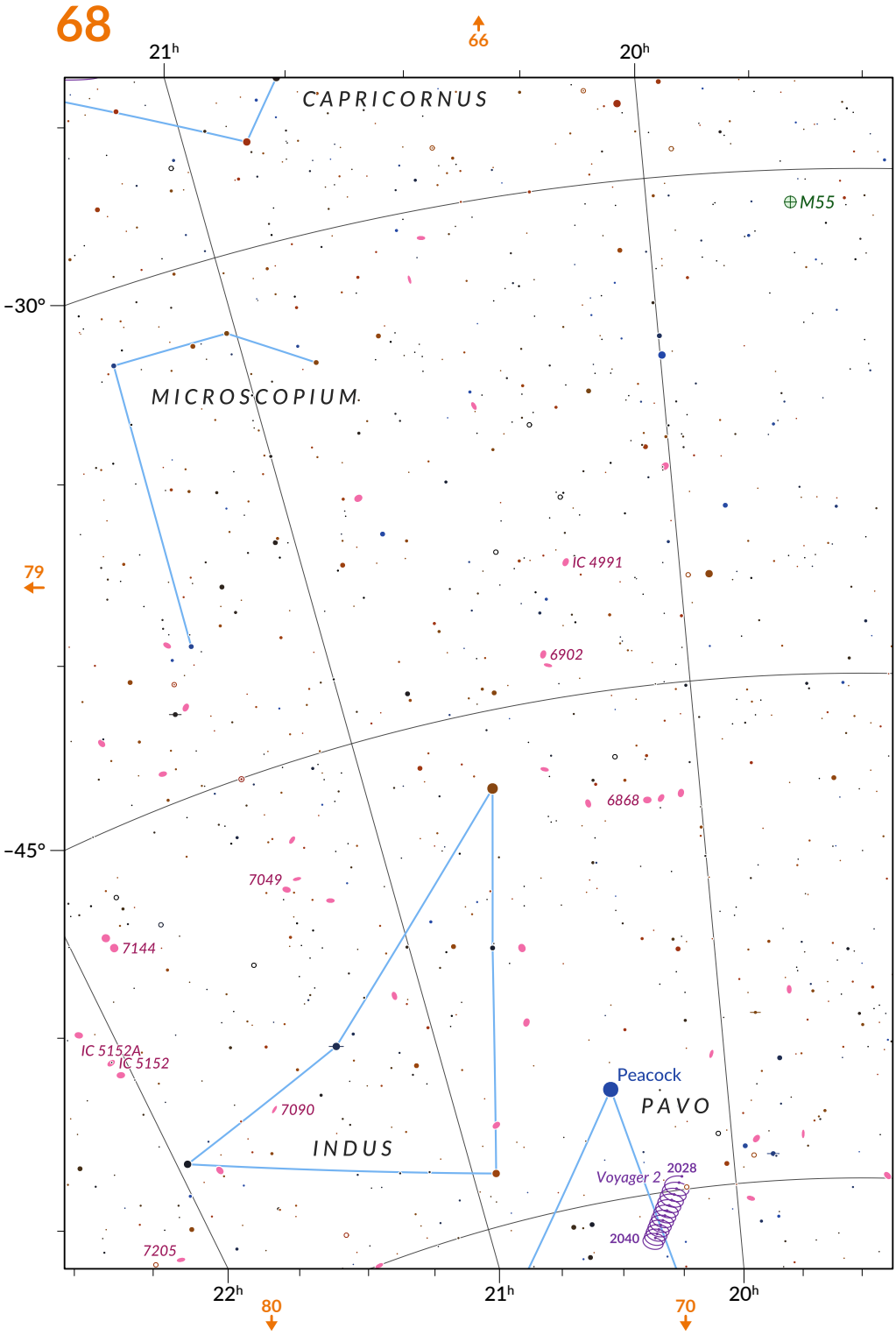

19h
61
18h
51
17h
DRACO
Rastaban
Eltanin
+45°
CYGNUS
M92
52
HERCULES
Vega
LYRA
+30°
M57 Ring
M56
6743
Albireo
19h
65
18h

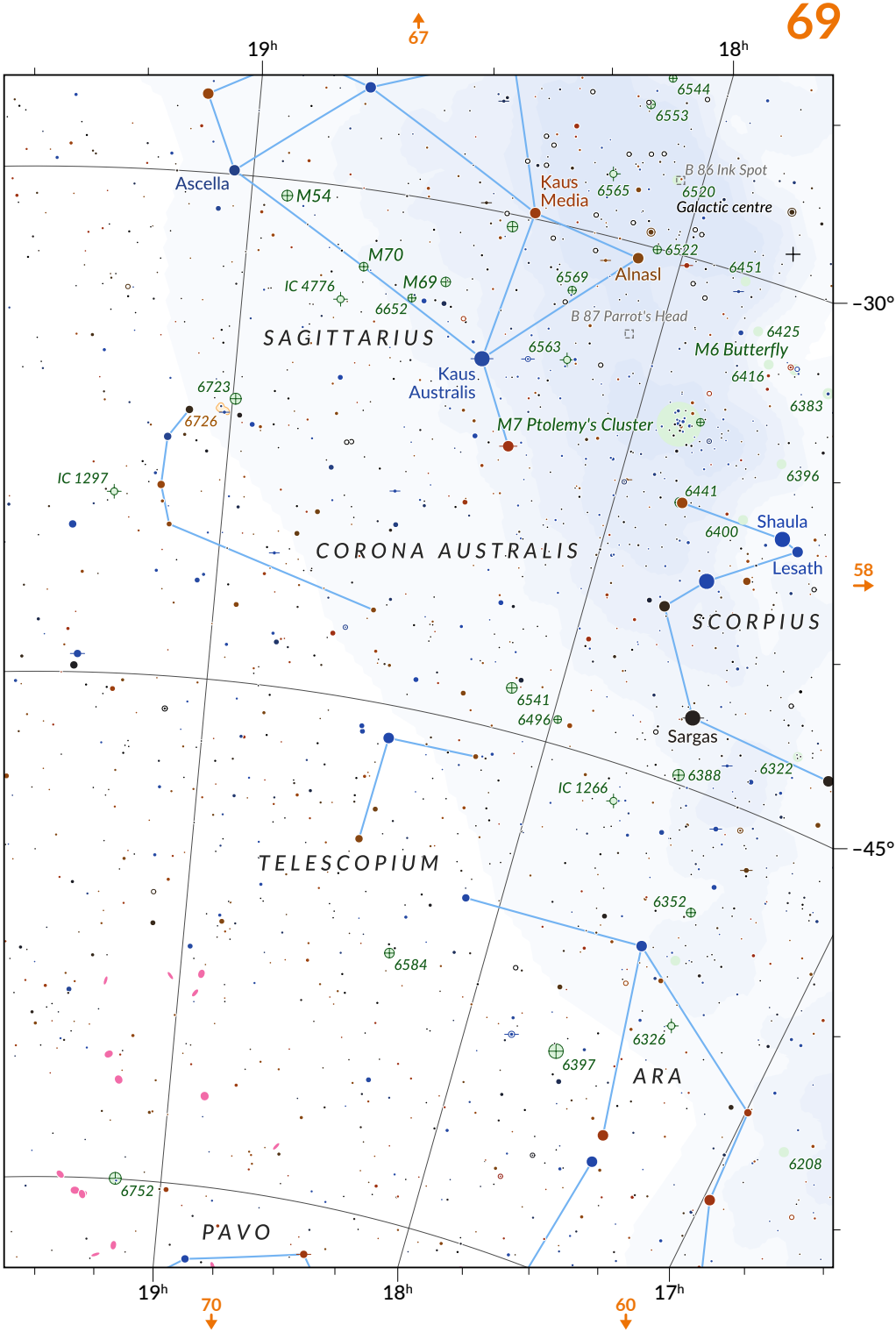

62
21h
20h
+30°
+15°
0°
75
66
CYGNUS
6992 East Veil
Veil Nebula
6960 West Veil
6847
6834
6940
Albireo
6885
VULPECULA
6830
6823
M27 Dumbbell
6905 Blue Flash
6802
SAGITTA
M71
H 20
7006
IC 4997
DELPHINUS
6891
Tarazed
6803
Altair
B 142-3 Barnard's E
6934
AQUILA

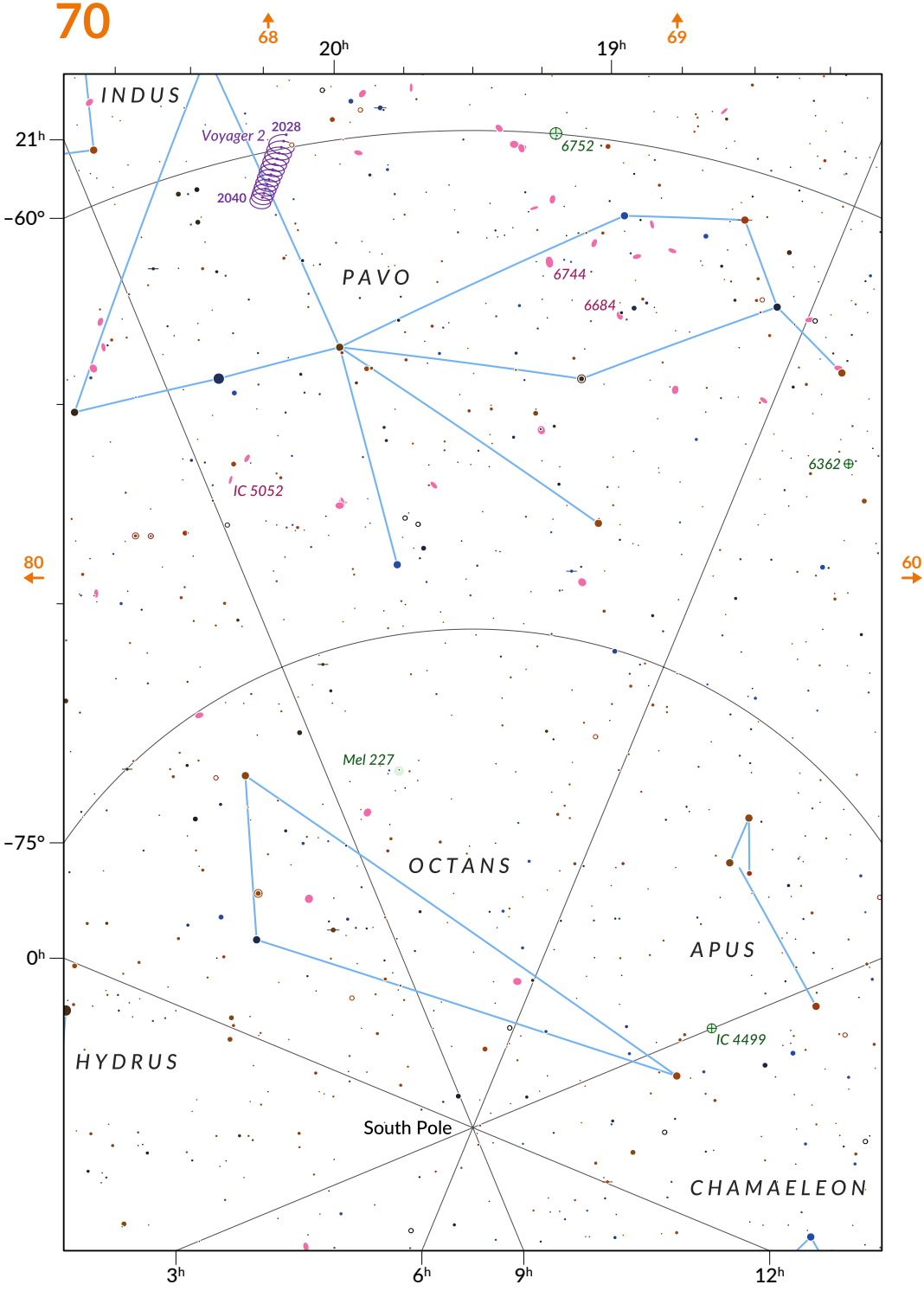

63
19h
18h
+30°
M56
6743
CYGNUS
HERCULES
Albireo
VULPECULA
Coathanger
6802
54
+15°
Okab
6738
6709
6803
6572
6633
6781
IC 4756
6755
AQUILA
6790
6760
0°
6535
SERPENS CAUDA
6778
19h
18h
67


64
21h
20h
AQUILA
0°
AQUARIUS
77
7009 Saturn
M73
M72
6818 Little Gem
Barnard's Galaxy
−15°
ECLIPTIC
CAPRICORNUS
M75
2033
2032
2031
2030
2029
2028
Pluto
M55
−30°
21h
20h
68

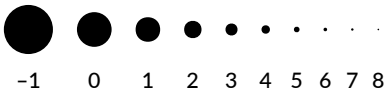

65
19h
18h
0°
56
−15°
−30°
69
OPHIUCHUS
SERPENS CAUDA
AQUILA
SCUTUM
SAGITTARIUS
ECLIPTIC
6790
6760
6778
6751
M11 Wild Duck
6712
M26
6664
6649
IC 1287
6625
6604
M16 Eagle
6605
IC 1276
6539
6535
6774
M17 Omega
6645
6647
M18
IC 4701
M24
B 92
M25
6567
6716
6590
IC 1284
M23
6445
6440
Albaldah
Cr 394
6717
6568
6469
M21
M20 Trifid
6642
6629
6559
Cr 367
6530
M8 Lagoon
6544
Kaus Borealis
M22
6644
6638
M28
Nunki
6553
Kaus Media
B 86 Ink Spot
6565
6520
Ascella
M54
6624
Galactic centre
Alnasl
M70
6569


66
21h
20h
CAPRICORNUS
M55
−30°
MICROSCOPIUM
79
IC 4991
6902
6868
−45°
7049
7144
IC 5152A
IC 5152
7090
INDUS
Peacock
PAVO
Voyager 2
2028
2040
7205
22h
21h
20h
80
70


19h
18h
17h
67
70
60
58
-30°
-45°
Ascella
M54
Kaus Media
6565
6544
6553
B 86 Ink Spot
6520
Galactic centre
6522
6451
Alnasl
M70
M69
IC 4776
6652
6569
B 87 Parrot's Head
6425
M6 Butterfly
6416
SAGITTARIUS
6563
Kaus Australis
6723
6726
M7 Ptolemy's Cluster
6383
IC 1297
6396
6441
Shaula
6400
Lesath
CORONA AUSTRALIS
SCORPIUS
6541
6496
Sargas
6388
6322
IC 1266
TELESCOPIUM
6352
6584
6326
6397
ARA
6208
6752
PAVO


68
69
20h
19h
21h
−60°
80
60
−75°
0h
3h
6h
9h
12h
INDUS
Voyager 2
2028
2040
6752
PAVO
6744
6684
6362
IC 5052
Mel 227
OCTANS
APUS
IC 4499
HYDRUS
South Pole
CHAMAELEON

Legend



Star magnitudes

Double star

Variable star (max. and min.)

Meteor shower radiant

Constellation figure

Ecliptic

Track (1 January)

Galaxy

Open cluster

Globular cluster

Nebula

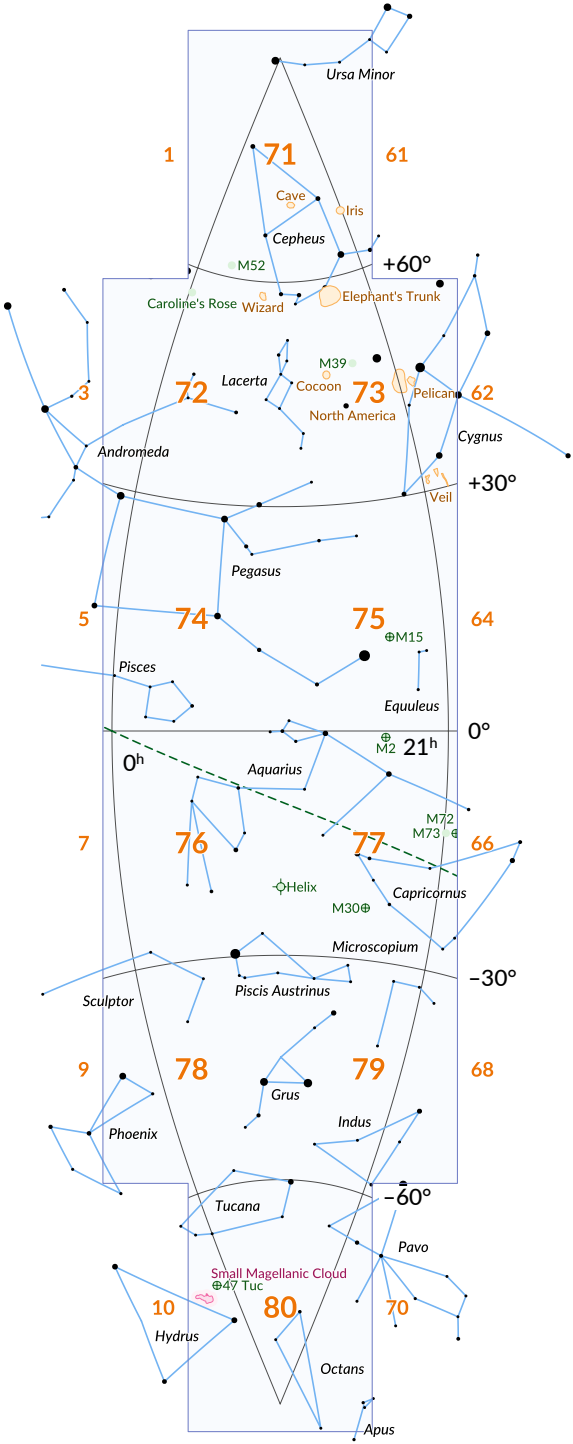
Dark nebula

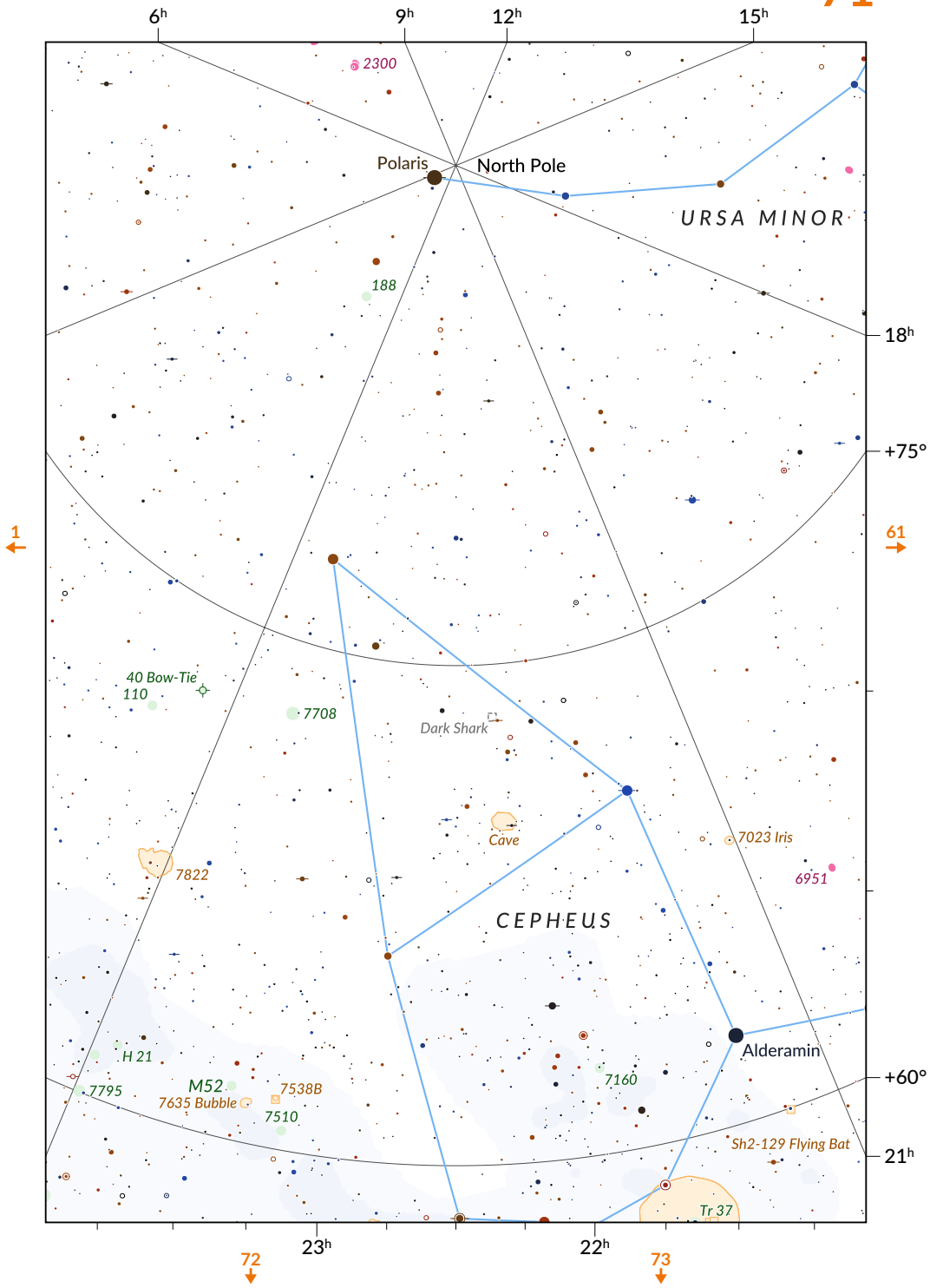
Planetary nebula

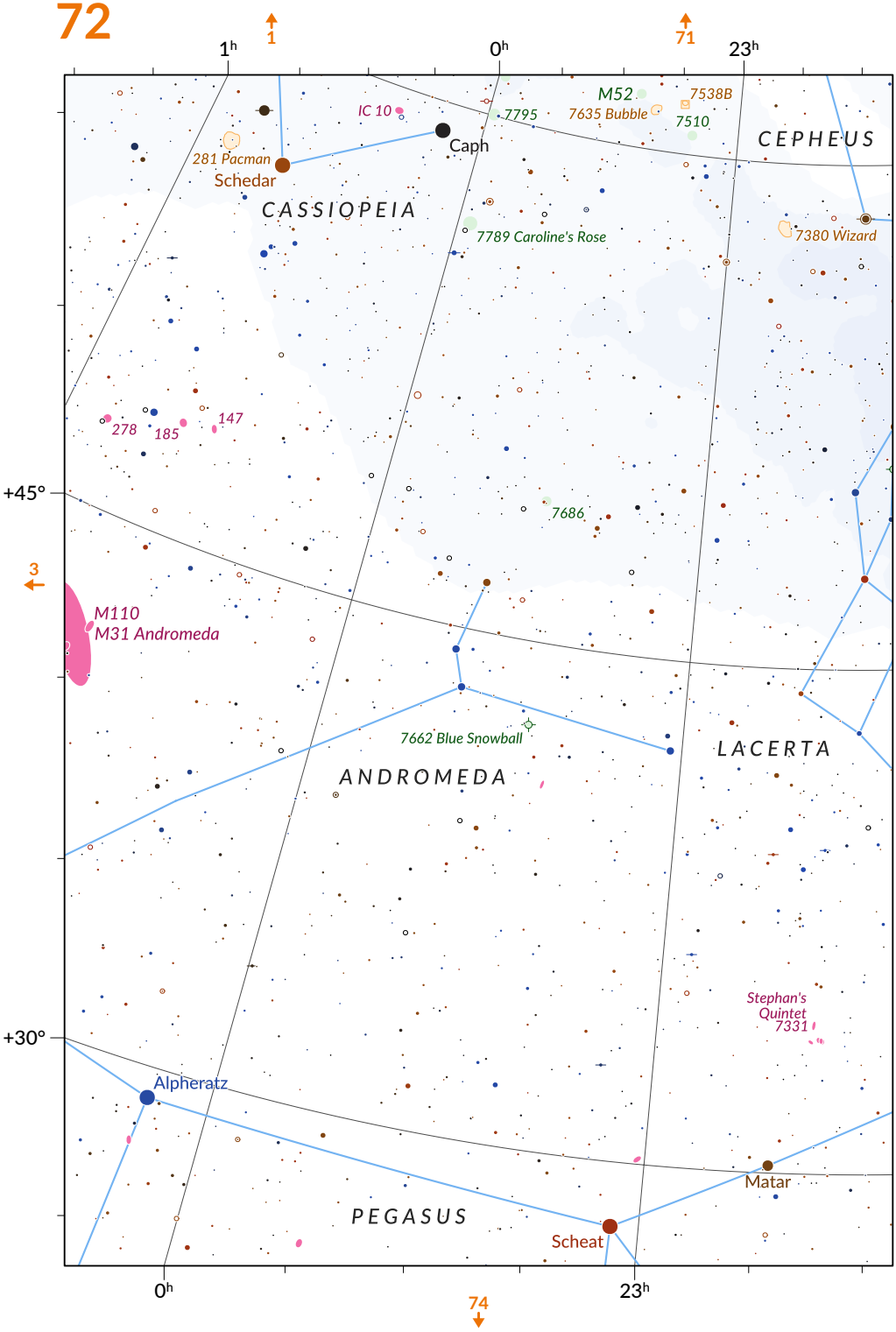
Charts 71–80

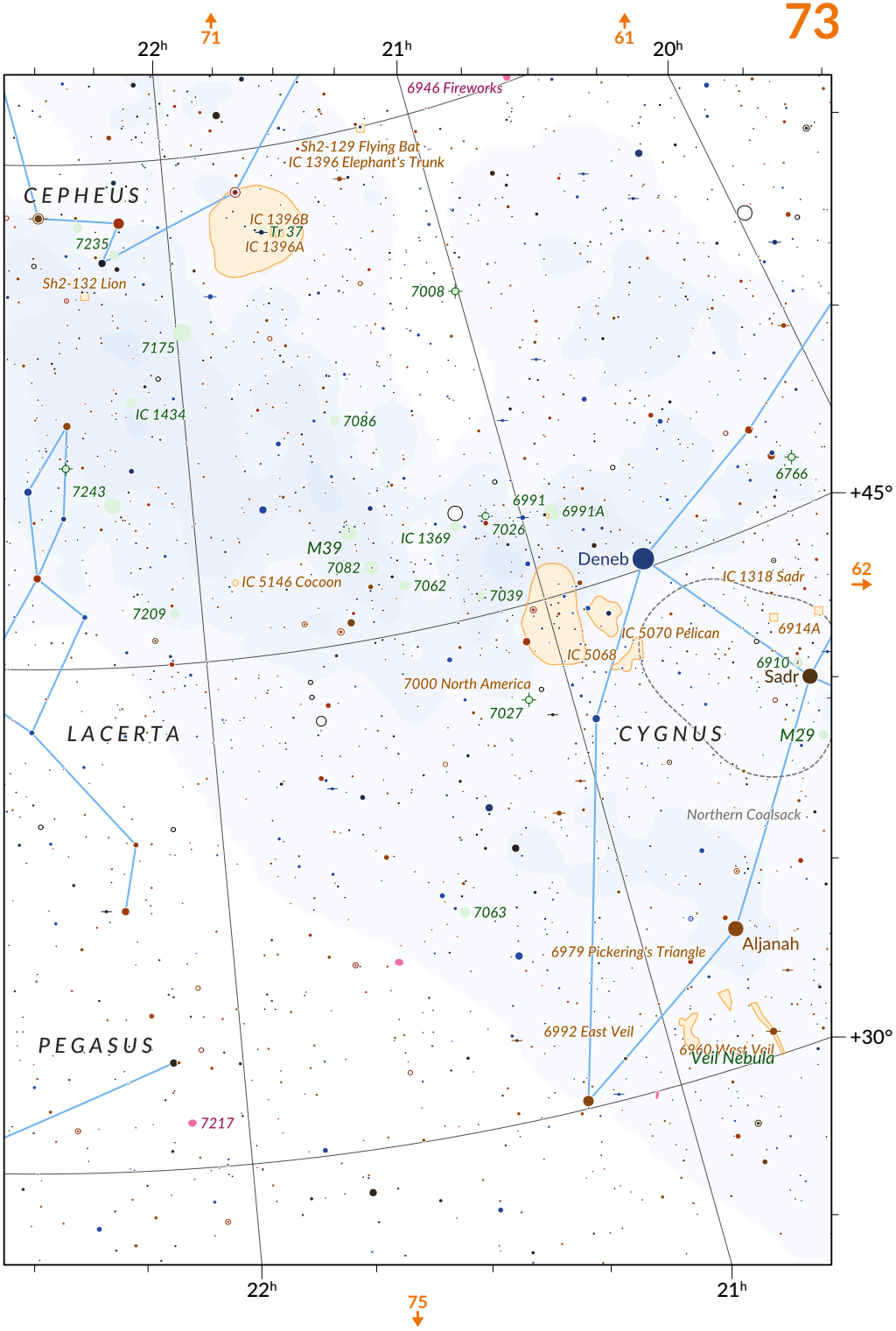
Right ascension 21^h to 24^h

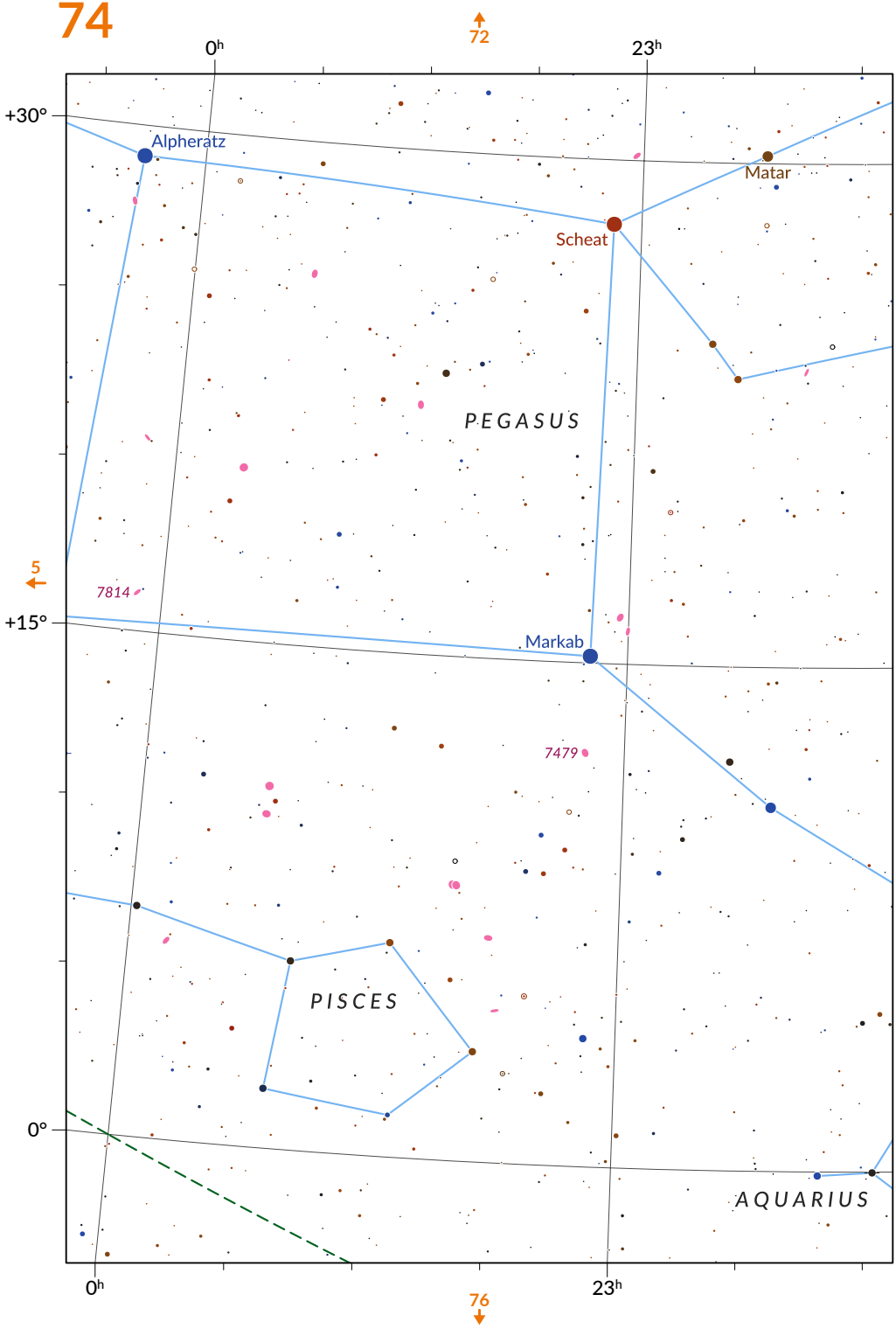
October

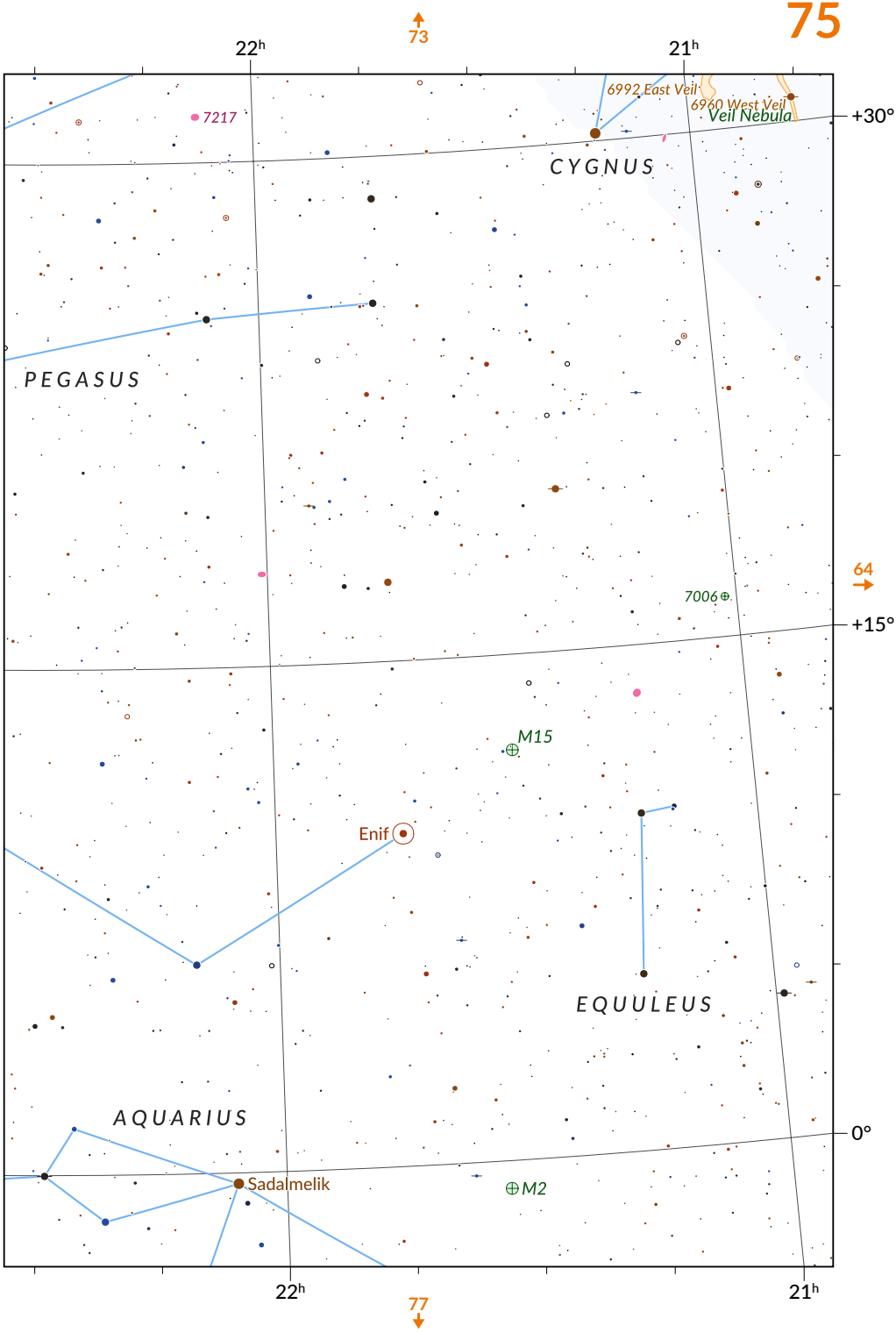


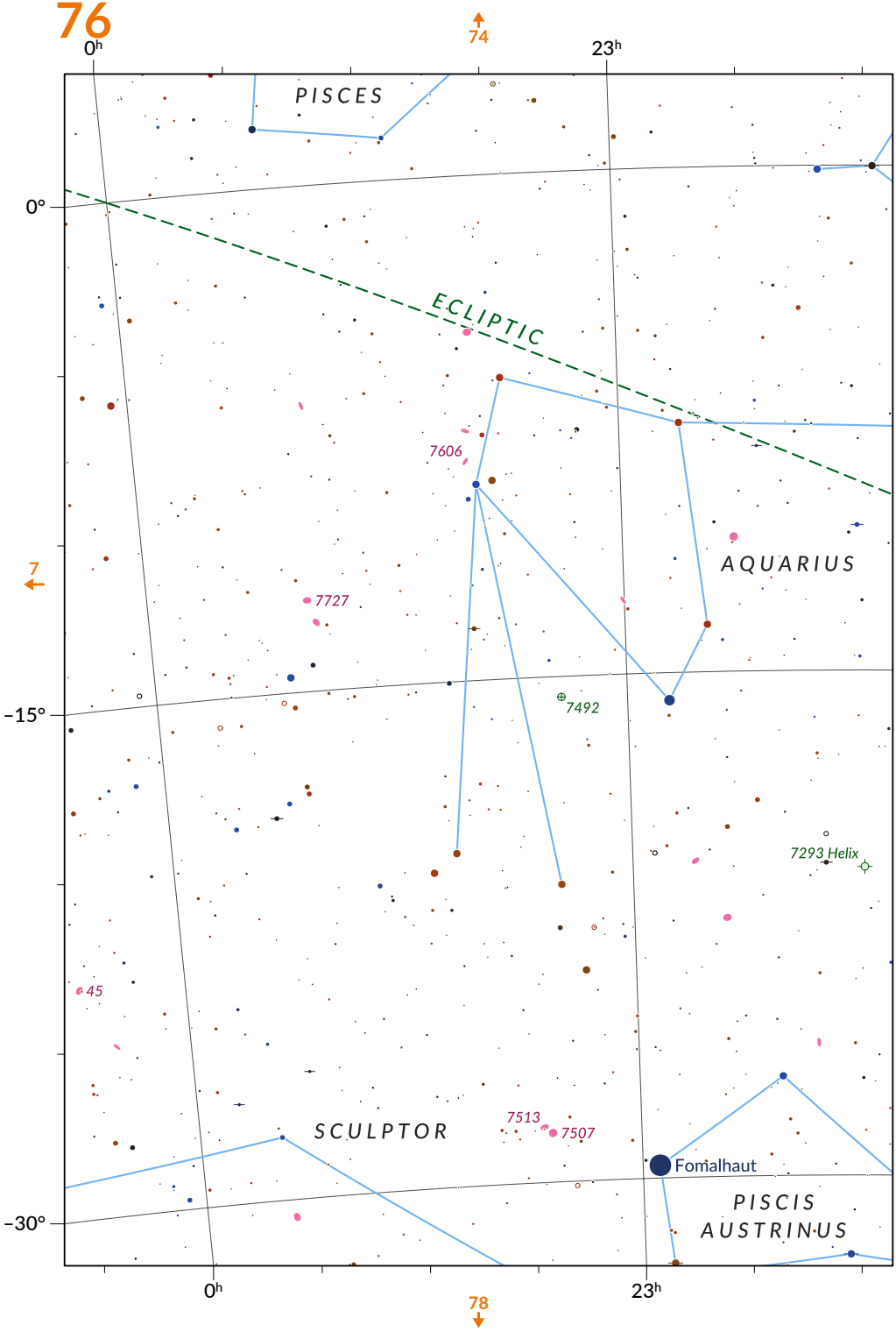

6h
9h
12h
15h
18h
+75°
+60°
21h
22h
23h
1
61
72
73
2300
Polaris
North Pole
URSA MINOR
188
40 Bow-Tie
110
7708
Dark Shark
Cave
7023 Iris
6951
7822
CEPHEUS
Alderamin
H 21
7795
M52
7635 Bubble
7538B
7510
7160
Sh2-129 Flying Bat
Tr 37

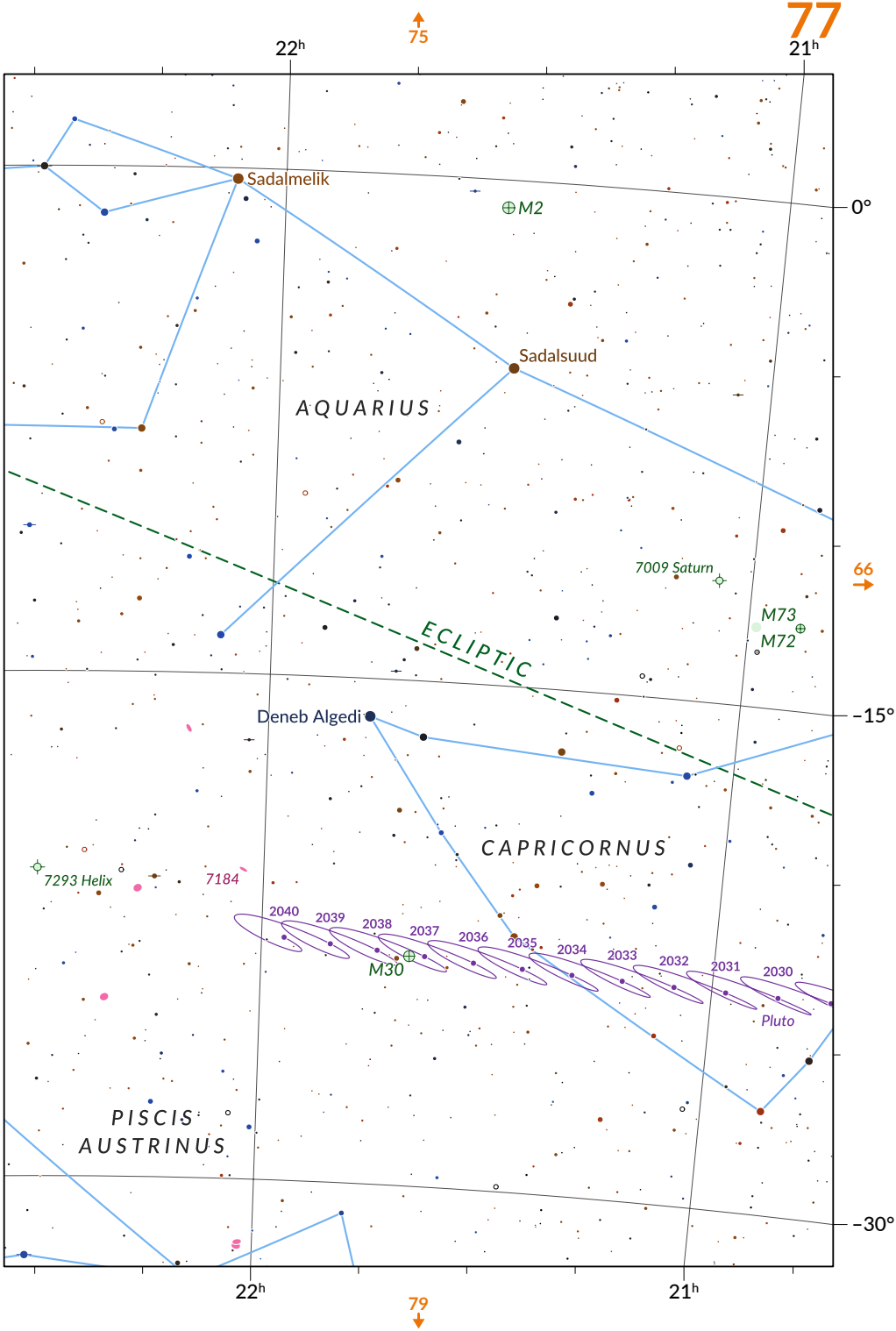

1
71
1h
0h
23h
M52
7538B
IC 10
7795
7635 Bubble
7510
Caph
CEPHEUS
281 Pacman
Schedar
CASSIOPEIA
7789 Caroline's Rose
7380 Wizard
278
185
147
+45°
7686
3
M110
M31 Andromeda
7662 Blue Snowball
LACERTA
ANDROMEDA
Stephan's
Quintet
7331
+30°
Alpheratz
Matar
PEGASUS
Scheat
0h
23h
74

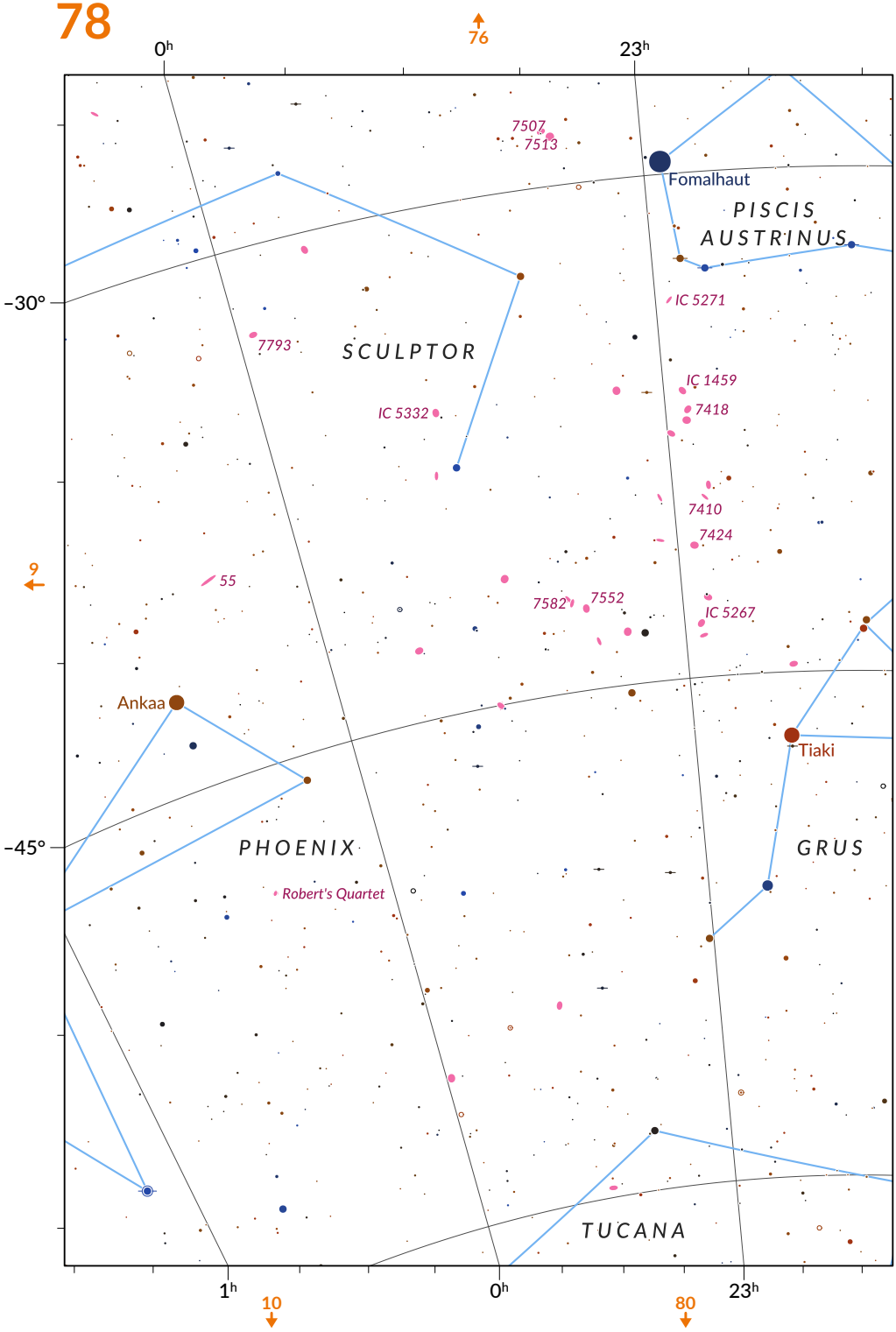

22h
71
21h
61
20h
6946 Fireworks
Sh2-129 Flying Bat
IC 1396 Elephant's Trunk
CEPHEUS
IC 1396B
Tr 37
IC 1396A
7235
Sh2-132 Lion
7008
7175
IC 1434
7086
7243
6766
+45°
6991
6991A
7026
IC 1369
M39
7082
Deneb
IC 5146 Cocoon
7062
7039
IC 1318 Sadr
62
7209
IC 5070 Pelican
6914A
IC 5068
6910
Sadr
7000 North America
7027
LACERTA
CYGNUS
M29
Northern Coalsack
7063
Aljanah
6979 Pickering's Triangle
6992 East Veil
6960 West Veil
Veil Nebula
+30°
PEGASUS
7217
22h
75
21h

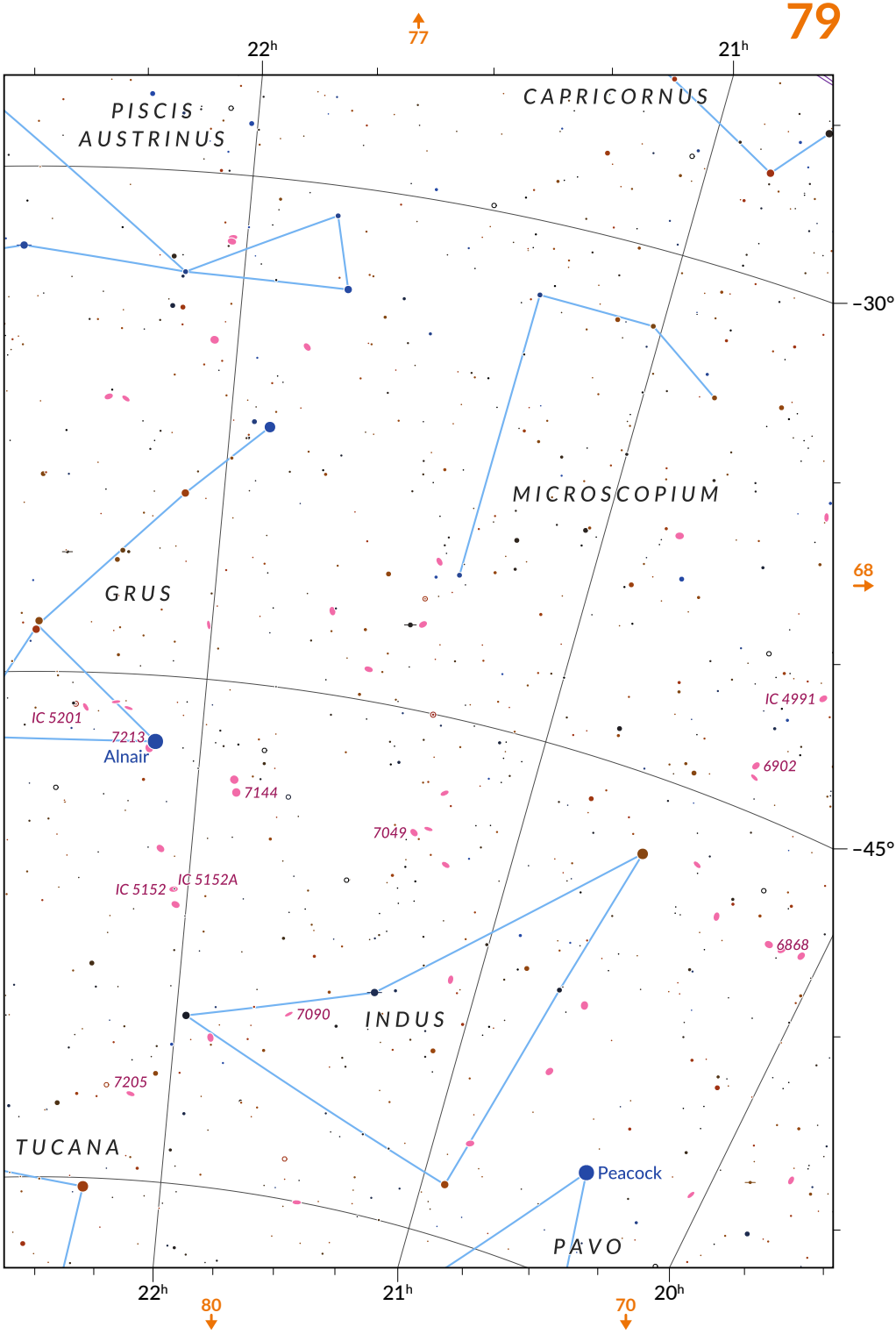

72
0h
23h
+30°
Alpheratz
Matar
Scheat
PEGASUS
5
7814
+15°
Markab
7479
PISCES
0°
AQUARIUS
0h
23h
76

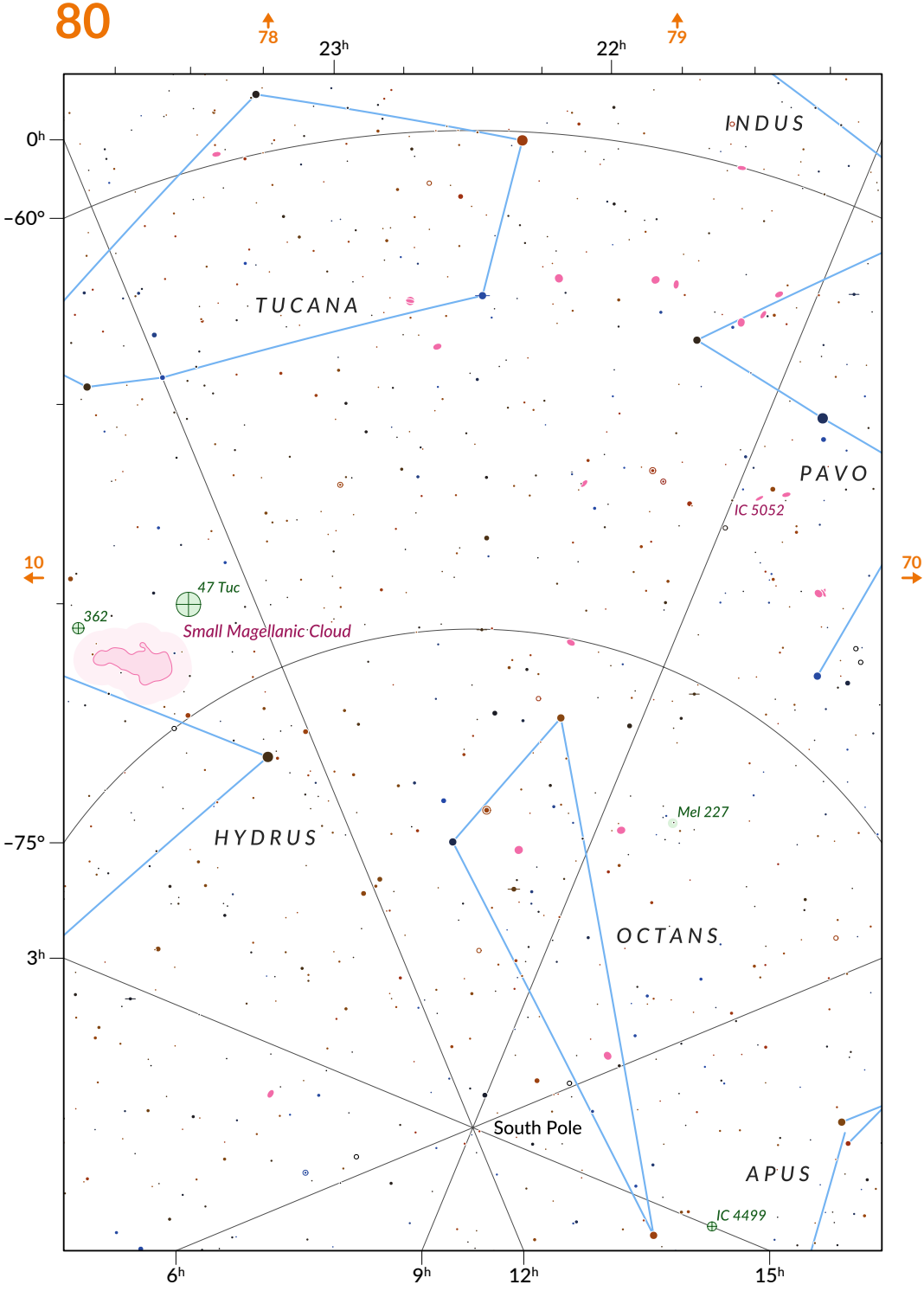

73
22h
21h
6992 East Veil
6960 West Veil
Veil Nebula
7217
+30°
CYGNUS
PEGASUS
64
7006
+15°
M15
Enif
EQUULEUS
AQUARIUS
0°
Sadalmelik
M2
22h
21h
77


74
0h
23h
PISCES
0°
ECLIPTIC
7606
AQUARIUS
7
7727
7492
−15°
7293 Helix
45
SCULPTOR
7513
7507
Fomalhaut
PISCIS
AUSTRINUS
−30°
0h
23h
78


75
22h
21h
Sadalmelik
M2
0°
Sadalsuud
AQUARIUS
7009 Saturn
66
M73
M72
ECLIPTIC
Deneb Algedi
−15°
CAPRICORNUS
7293 Helix
7184
2040
2039
2038
2037
2036
2035
2034
2033
2032
2031
2030
M30
Pluto
PISCIS
AUSTRINUS
−30°
22h
21h
79


76
0h
23h
7507
7513
Fomalhaut
PISCIS
AUSTRINUS
-30°
IC 5271
7793
SCULPTOR
IC 1459
7418
IC 5332
7410
7424
9
55
7582
7552
IC 5267
Ankaa
Tiaki
-45°
PHOENIX
GRUS
Robert's Quartet
TUCANA
1h
0h
23h
10
80


77
22h
21h
PISCIS AUSTRINUS
CAPRICORNUS
−30°
MICROSCOPIUM
68
GRUS
IC 4991
IC 5201
7213
Alnair
6902
7144
7049
−45°
IC 5152
IC 5152A
6868
7090
INDUS
7205
TUCANA
Peacock
PAVO
22h
21h
20h
80
70


78
79
23h
22h
0h
−60°
10
70
−75°
3h
6h
9h
12h
15h
INDUS
TUCANA
PAVO
IC 5052
47 Tuc
362
Small Magellanic Cloud
HYDRUS
Mel 227
OCTANS
South Pole
APUS
IC 4499