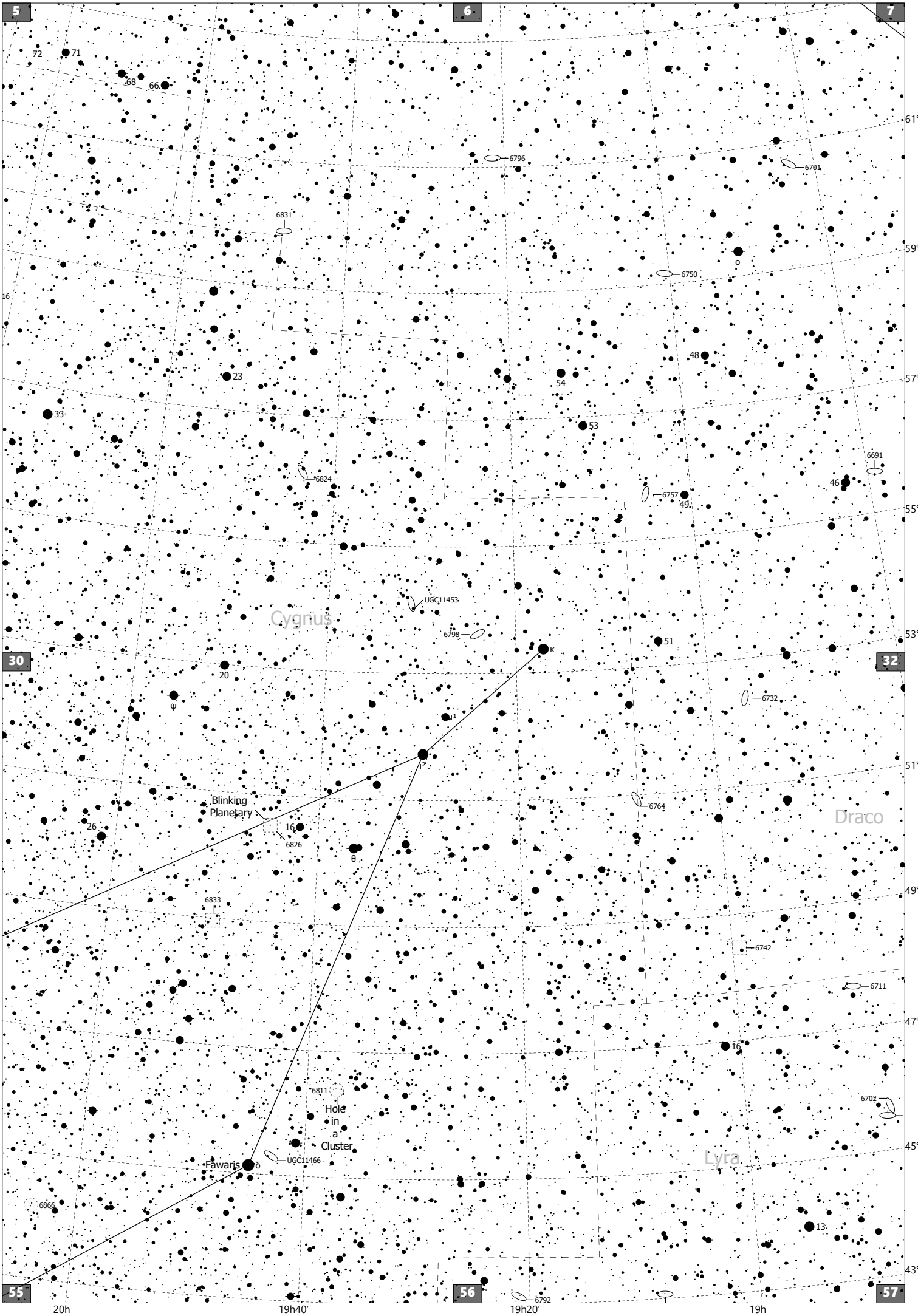
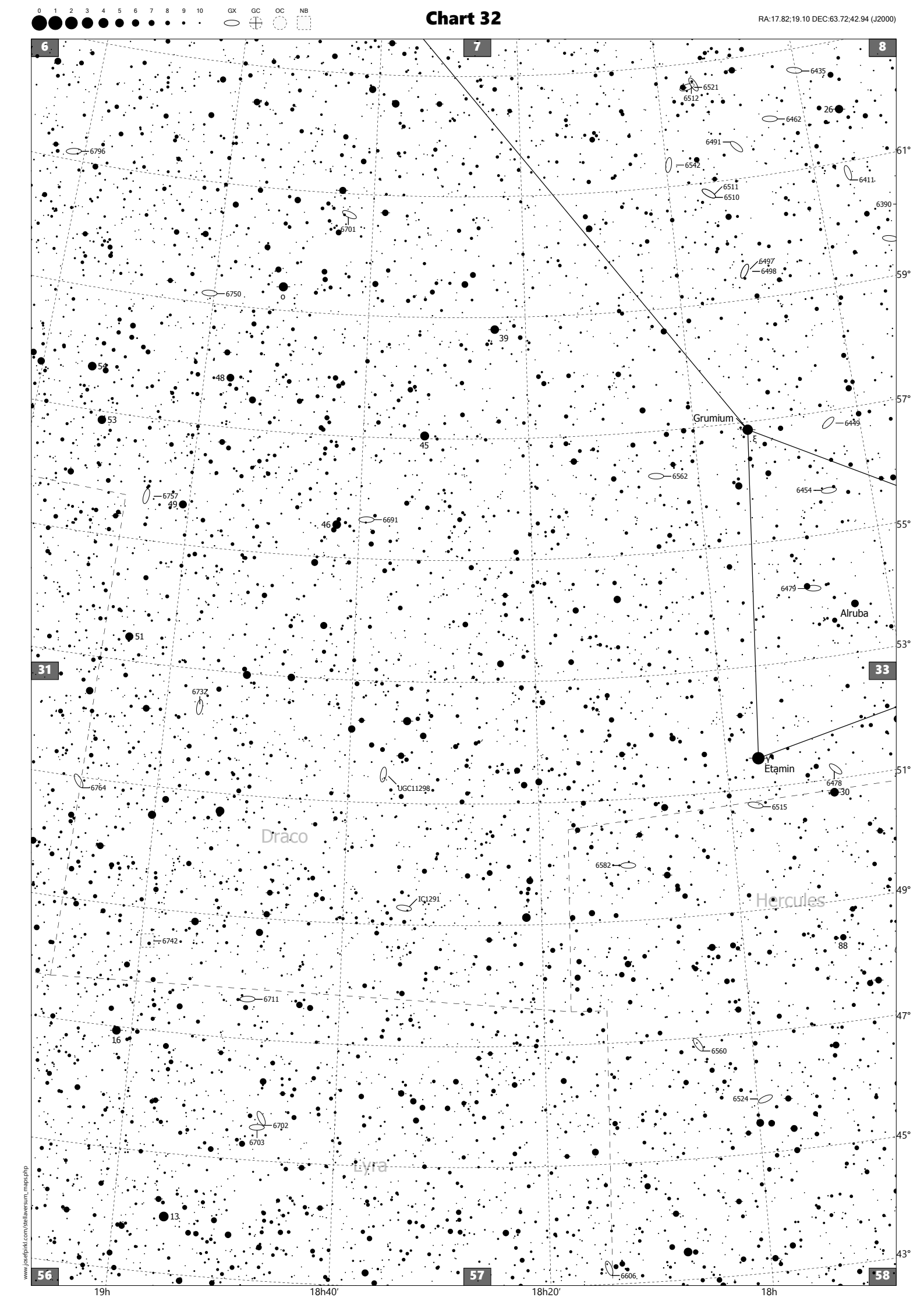
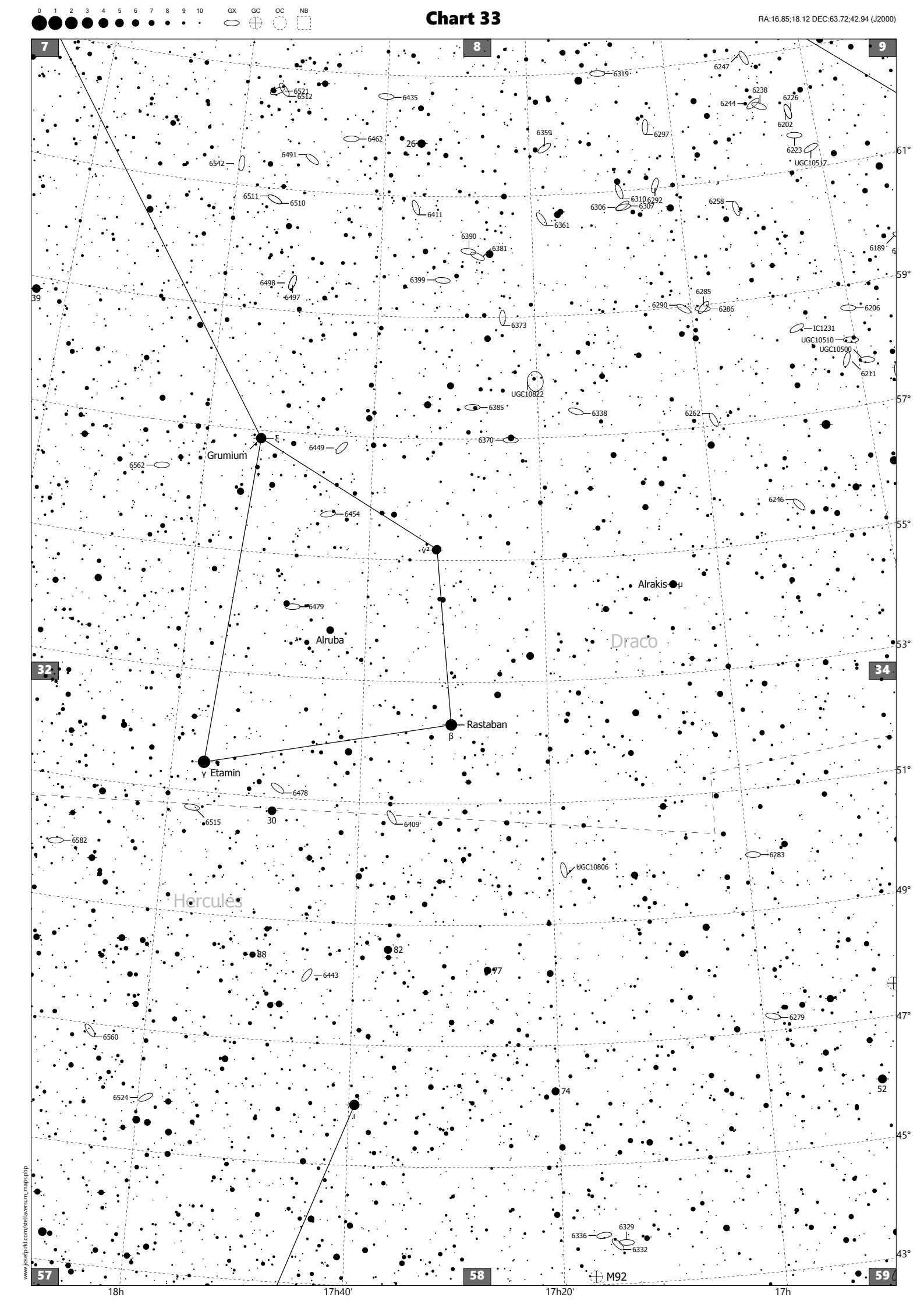
Chart 31

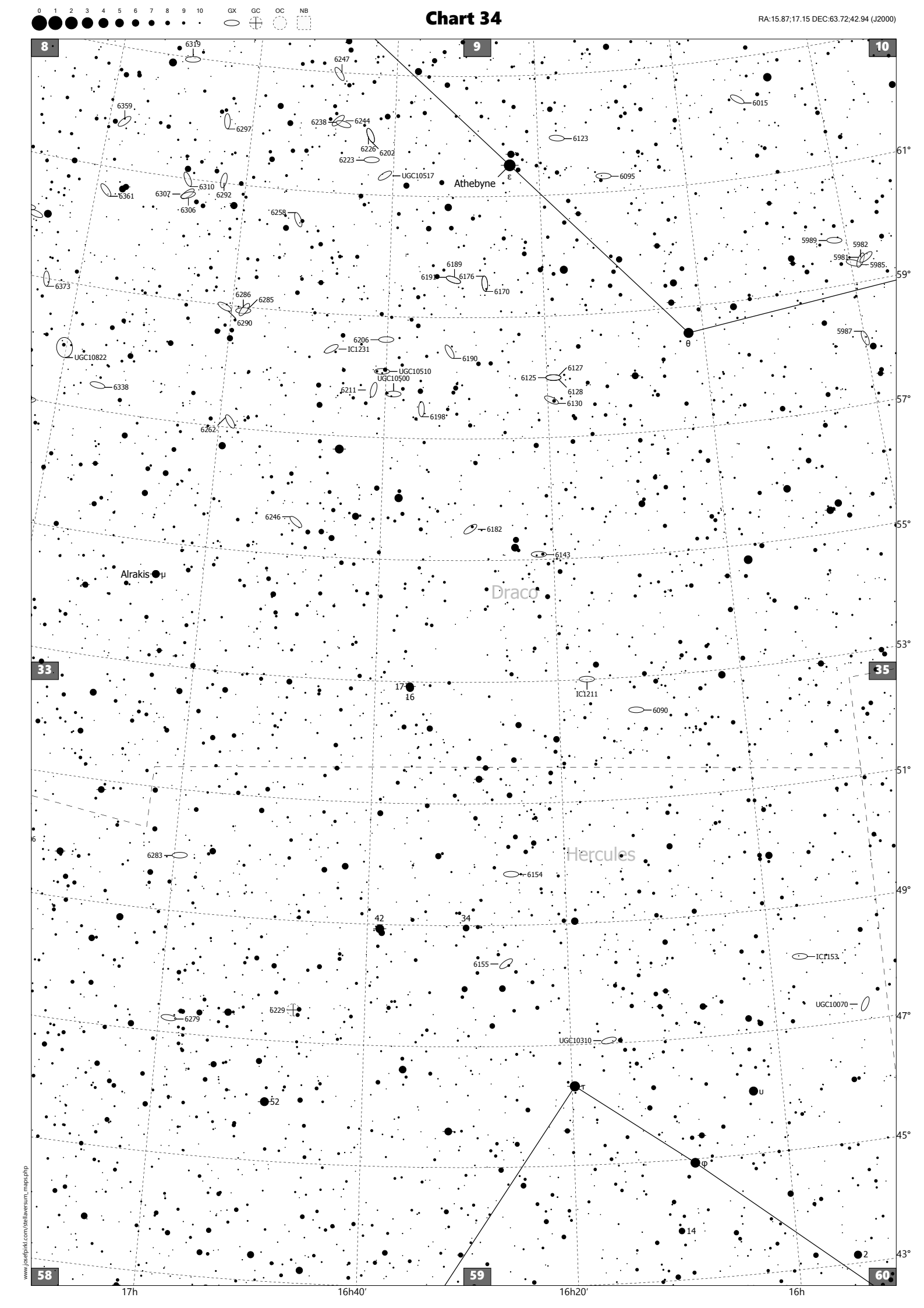
RA:18.80;20.08 DEC:63.72;42.94 (J2000)



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0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 32
RA:17.82;19.10 DEC:63.72;42.94 (J2000)
6
7
8
31
33
56
57
58
6435
6521
6512
6462
26
6491
6796
6542
6411
6511
6510
6390
6701
6497
6498
6750
o
39
54
48
53
Grumium
ξ
6449
45
6562
6757
49
6454
46
6691
55°
6479
Alruba
51
53°
6737
Etamin
51°
6764
UGC11298
6478
30
6515
Draco
6582
49°
IC1291
Hercules
6742
88
6711
47°
16
6560
6524
6702
6703
45°
Lyra
13
43°
6606
19h
18h40'
18h20'
18h
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Chart 33
RA:16.85;18.12 DEC:63.72;42.94 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
7
8
9
32
34
57
58
59
61°
59°
57°
55°
53°
51°
49°
47°
45°
43°
18h
17h40′
17h20′
17h
Grumium
Alruba
Alrakis
Rastaban
γ Etamin
Draco
Hercules
M92
UGC10822
UGC10806
UGC10517
UGC10510
UGC10500
IC1231
6562
6449
6454
6479
6478
6515
6582
6560
6524
6443
6409
6283
6279
6246
6262
6211
6206
6189
6247
6238
6244
6226
6202
6223
6319
6359
6297
6462
6491
6542
6511
6510
6435
6521
6512
6411
6361
6310
6292
6306
6307
6258
6390
6381
6399
6498
6497
6373
6285
6290
6286
6385
6338
6370
6454
6479
6478
6515
6409
6283
6279
6246
6262
6211
6206
6189
6247
6238
6244
6226
6202
6223
6319
6359
6297
6462
6491
6542
6511
6510
6435
6521
6512
6411
6361
6310
6292
6306
6307
6258
6390
6381
6399
6498
6497
6373
6285
6290
6286
6385
6338
6370
6336
6329
6332
88
82
77
74
52
30
26
39
www.josefpirkl.com/stellaversum_maps.php


Chart 34
RA:15.87;17.15 DEC:63.72;42.94 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
8
9
10
33
35
58
59
60
61°
59°
57°
55°
53°
51°
49°
47°
45°
43°
17h
16h40'
16h20'
16h
Athebyne
ε
θ
Alrakis
μ
Draco
Hercules
UGC10517
UGC10822
UGC10510
UGC10500
UGC10310
UGC10070
IC1231
IC1211
IC1153
6319
6247
6359
6297
6238
6244
6226
6202
6223
6123
6015
6095
6361
6307
6310
6292
6306
6258
5989
5982
5981
5985
6189
6191
6176
6170
6373
6286
6285
6290
5987
6206
6190
6127
6125
6128
6130
6338
6211
6198
6262
6246
6182
6143
17
16
6090
6283
6154
42
34
6155
6279
6229
52
14
2
www.josefpirkl.com/stellaversum_maps.php

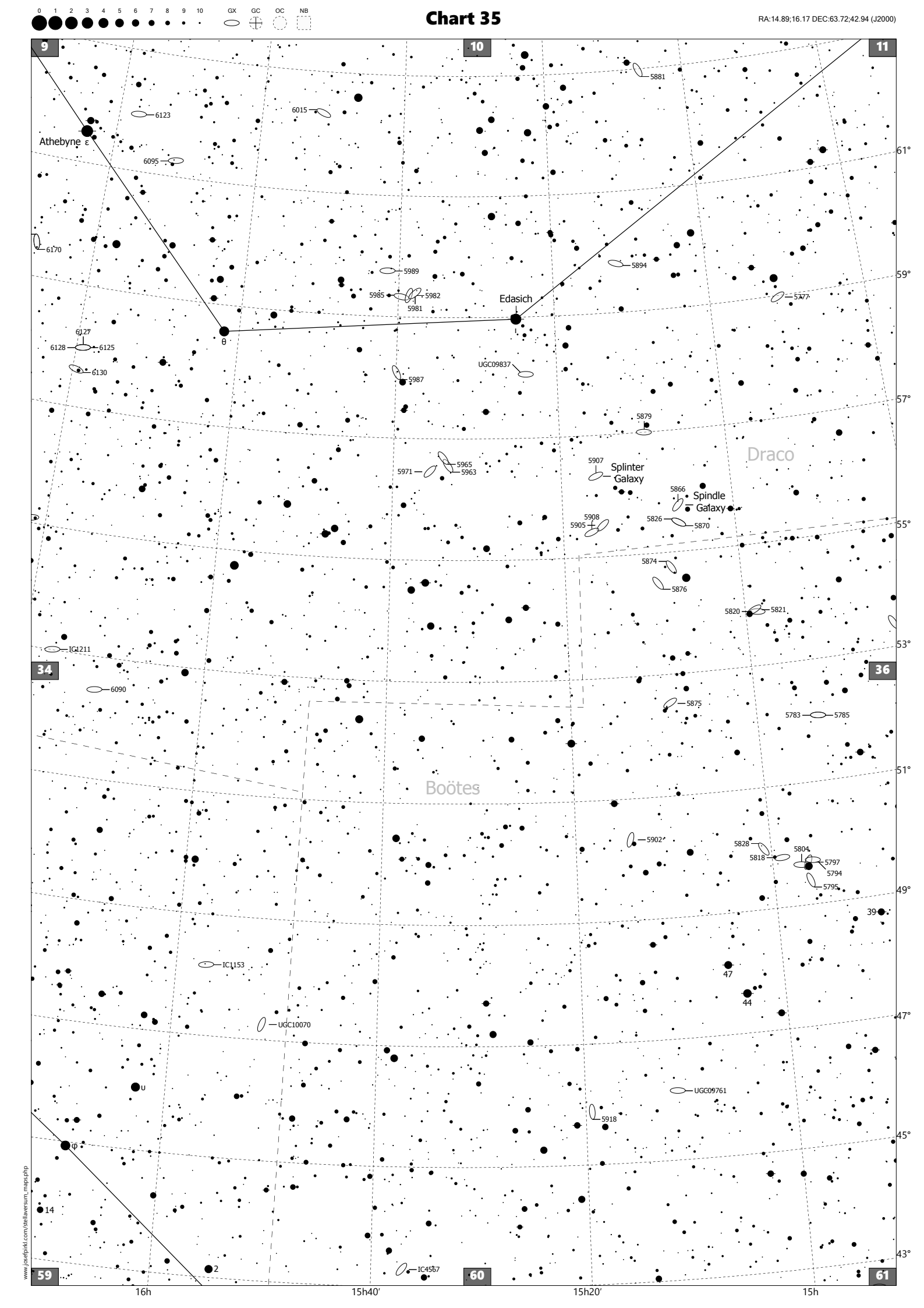
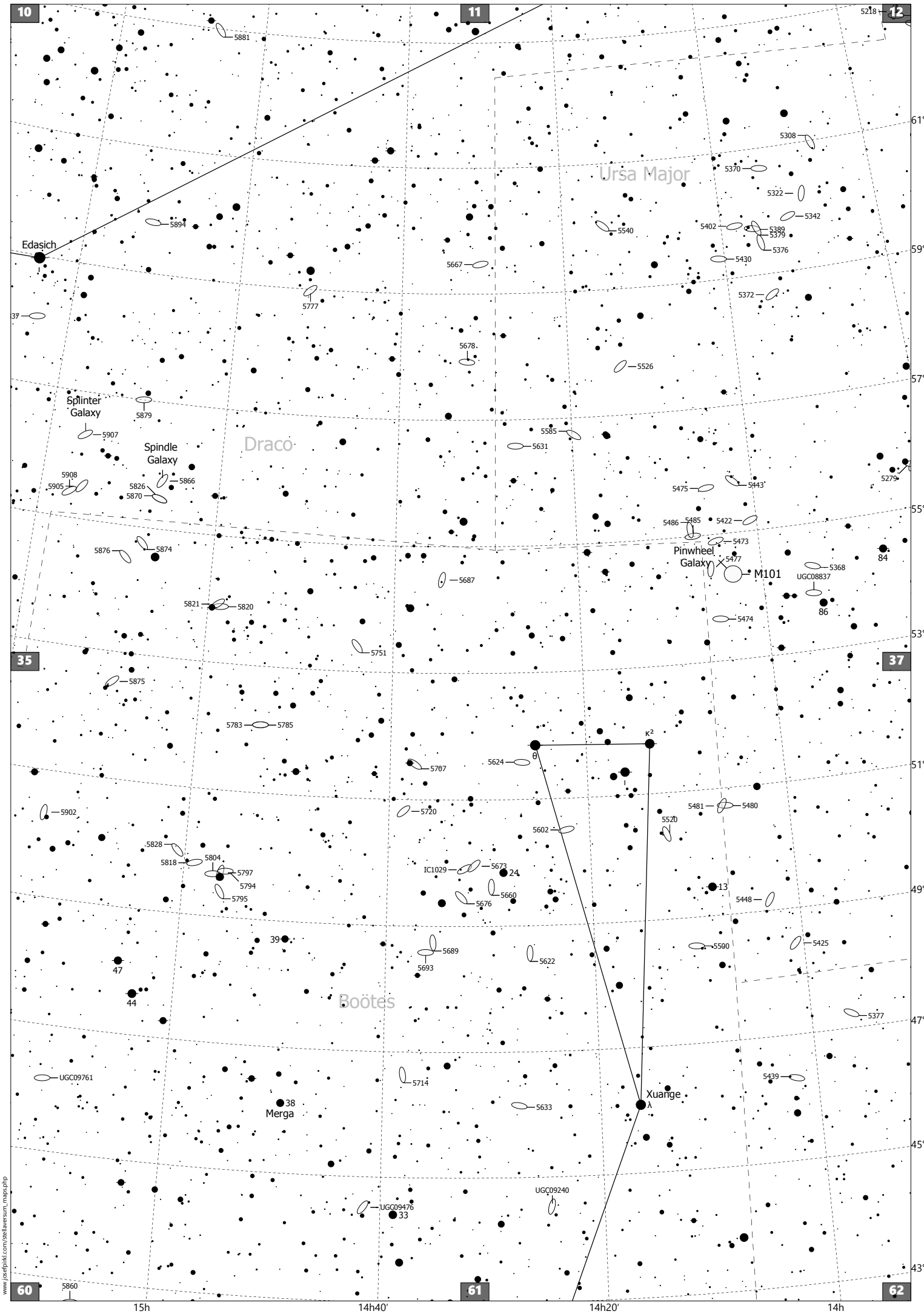
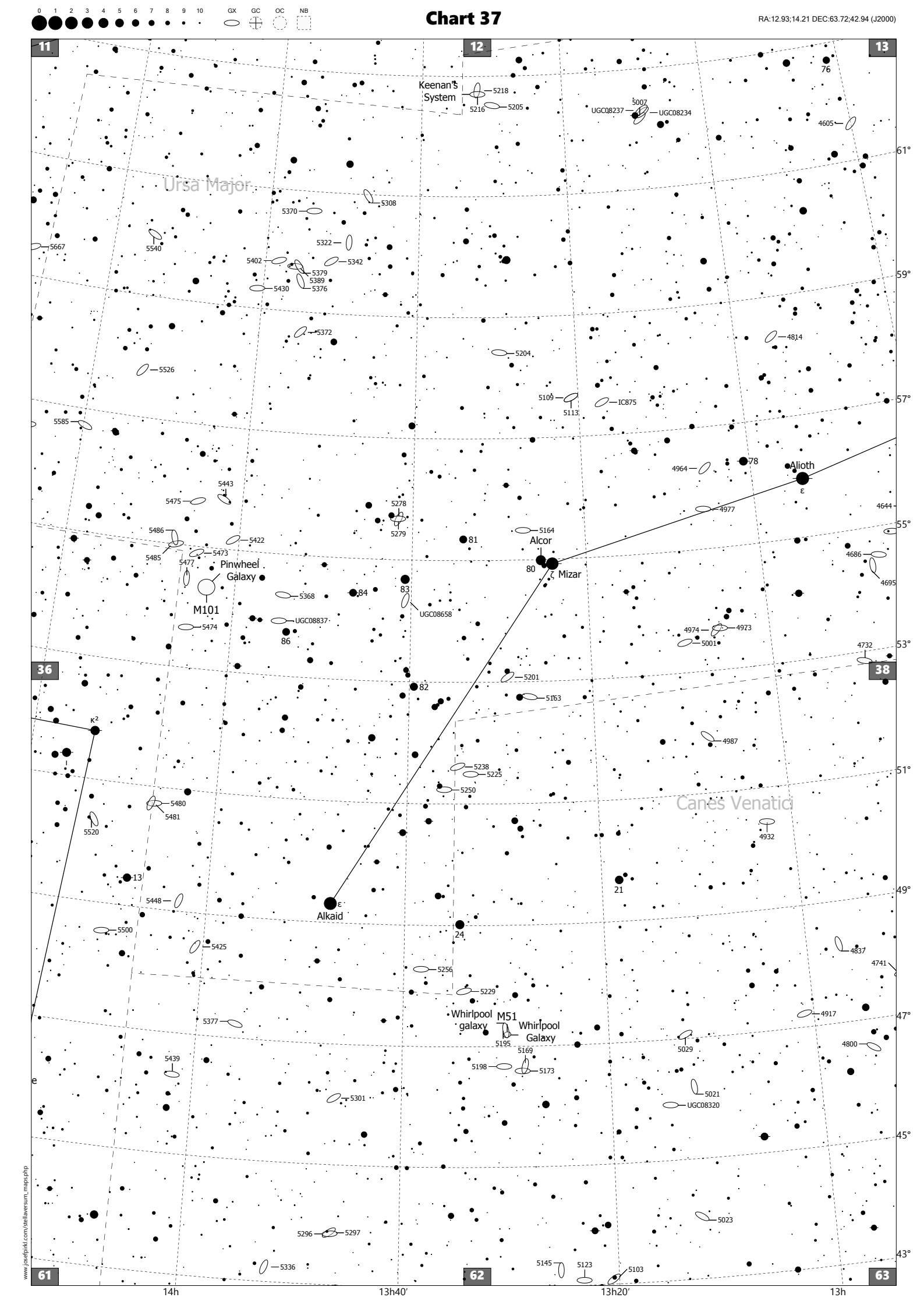
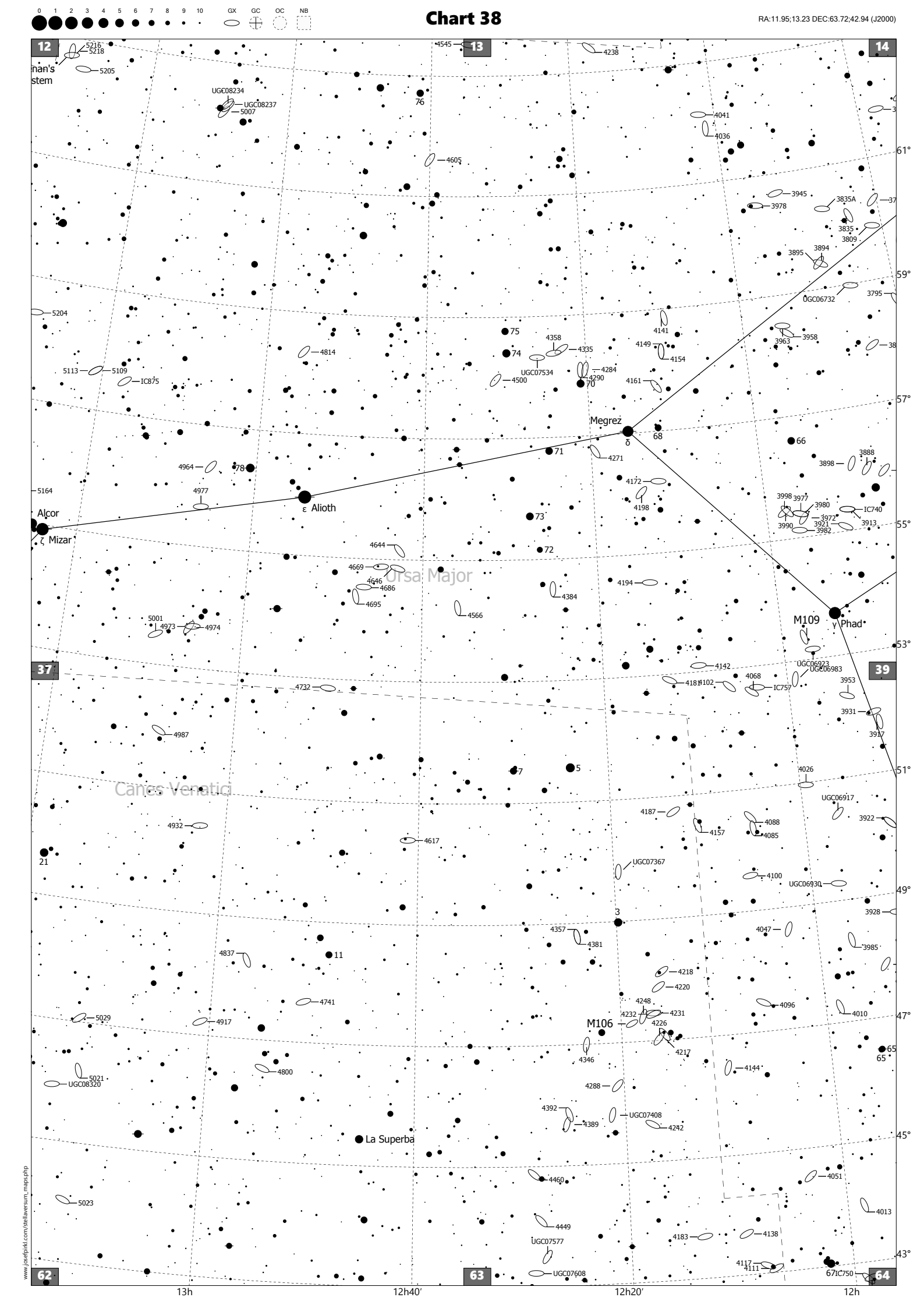

Chart 35
RA:14.89;16.17 DEC:63.72;42.94 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
9
10
11
34
36
59
60
61
Athebyne ε
Edasich
θ
Φ
Draco
Boötes
Splinter Galaxy
Spindle Galaxy
UGC09837
UGC10070
UGC09761
IC1211
IC1153
IC4557
6123
6015
6095
6170
6127
6128
6125
6130
6090
5881
5989
5985
5982
5981
5987
5894
5777
5879
5971
5965
5963
5907
5866
5908
5905
5826
5870
5874
5876
5820
5821
5875
5783
5785
5902
5828
5818
5804
5797
5794
5795
5918
47
44
39
14
2
61°
59°
57°
55°
53°
51°
49°
47°
45°
43°
16h
15h40'
15h20'
15h
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Chart 36

RA:13.91;15.19 DEC:63.72;42.94 (J2000)


10
11
12
35
37
60
61
62
Ursa Major
Draco
Boötes
Edasich
Splinter Galaxy
Spindle Galaxy
Pinwheel Galaxy
M101
Xuange
Merga
5881
5894
5777
5907
5879
5908
5905
5826
5870
5866
5876
5874
5821
5820
5751
5875
5783
5785
5902
5828
5818
5804
5797
5794
5795
5707
5624
5720
5602
5673
5660
5676
5689
5693
5622
5714
5633
5687
5678
5526
5585
5631
5475
5443
5486
5485
5422
5473
5477
5474
5368
UGC08837
86
84
5279
5218
5308
5370
5322
5342
5540
5402
5389
5379
5376
5430
5372
5667
37
39
47
44
UGC09761
38
UGC09476
33
UGC09240
5860
5481
5480
5520
5448
13
24
5590
5425
5377
5439
5341
5341
5341


0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 37
RA:12.93;14.21 DEC:63.72;42.94 (J2000)
11
12
13
36
38
61
62
63
Keenan's System
5218
5216
5205
UGC08237
5007
UGC08234
4605
76
Ursa Major
5308
5370
5322
5667
5540
5402
5342
5379
5389
5376
5430
5372
4814
5204
5526
5109
IC875
5113
5585
4964
78
Alioth
ε
5443
5475
4977
4644
5278
5279
5486
5422
5164
Alcor
81
5485
5473
5477
Pinwheel Galaxy
80
ζ Mizar
4686
4695
M101
5368
84
83
UGC08658
5474
UGC08837
86
4974
4973
5001
4732
5201
82
5163
κ2
4987
5238
5225
5250
Canes Venatici
5480
5481
5520
4932
13
21
5448
ε
Alkaid
5500
24
5425
4837
4741
5256
5229
Whirlpool galaxy
M51
Whirlpool Galaxy
5195
5169
5198
5173
5377
4917
5029
4800
5439
5301
5021
UGC08320
5023
5296
5297
5336
5145
5123
5103
61°
59°
57°
55°
53°
51°
49°
47°
45°
43°
14h
13h40'
13h20'
13h
www.jsefpirkl.com/stellaversum_maps.php


Chart 38
RA:11.95;13.23 DEC:63.72;42.94 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
12
13
14
37
39
62
63
64
61°
59°
57°
55°
53°
51°
49°
47°
45°
43°
13h
12h40'
12h20'
12h
Megrez
δ
Alioth
ε
Alcor
ζ Mizar
Phad
γ
M109
M106
La Superba
Ursa Major
Canes Venatici
UGC08234
UGC08237
5007
5216
5218
5205
4545
4238
4605
4041
4036
3945
3978
3835A
3835
3809
3894
3895
UGC06732
3795
5204
4141
3963
3958
4358
4335
4149
4154
UGC07534
4284
4290
4500
4161
5113
5109
IC875
4814
4964
4977
5164
4271
4172
4198
3888
3898
3998
3977
3980
IC740
3972
3921
3913
3990
3982
4644
4669
4646
4686
4695
4566
4384
4194
5001
4973
4974
4987
4732
4142
4181
4102
4068
IC757
UGC06923
UGC06983
3953
3931
3917
4026
UGC06917
4187
4157
4088
4085
3922
4932
4617
21
UGC07367
4100
UGC06930
3928
4357
4381
4047
3985
4837
4218
4220
4248
4232
4231
4226
4217
4096
4010
4741
5029
4917
4346
4144
65
5021
UGC08320
4800
4288
4392
4389
UGC07408
4242
4460
4051
5023
4449
4013
UGC07577
4183
4138
4117
4111
IC750
UGC07608
www.josefpirkl.com/stellaversum_maps.php

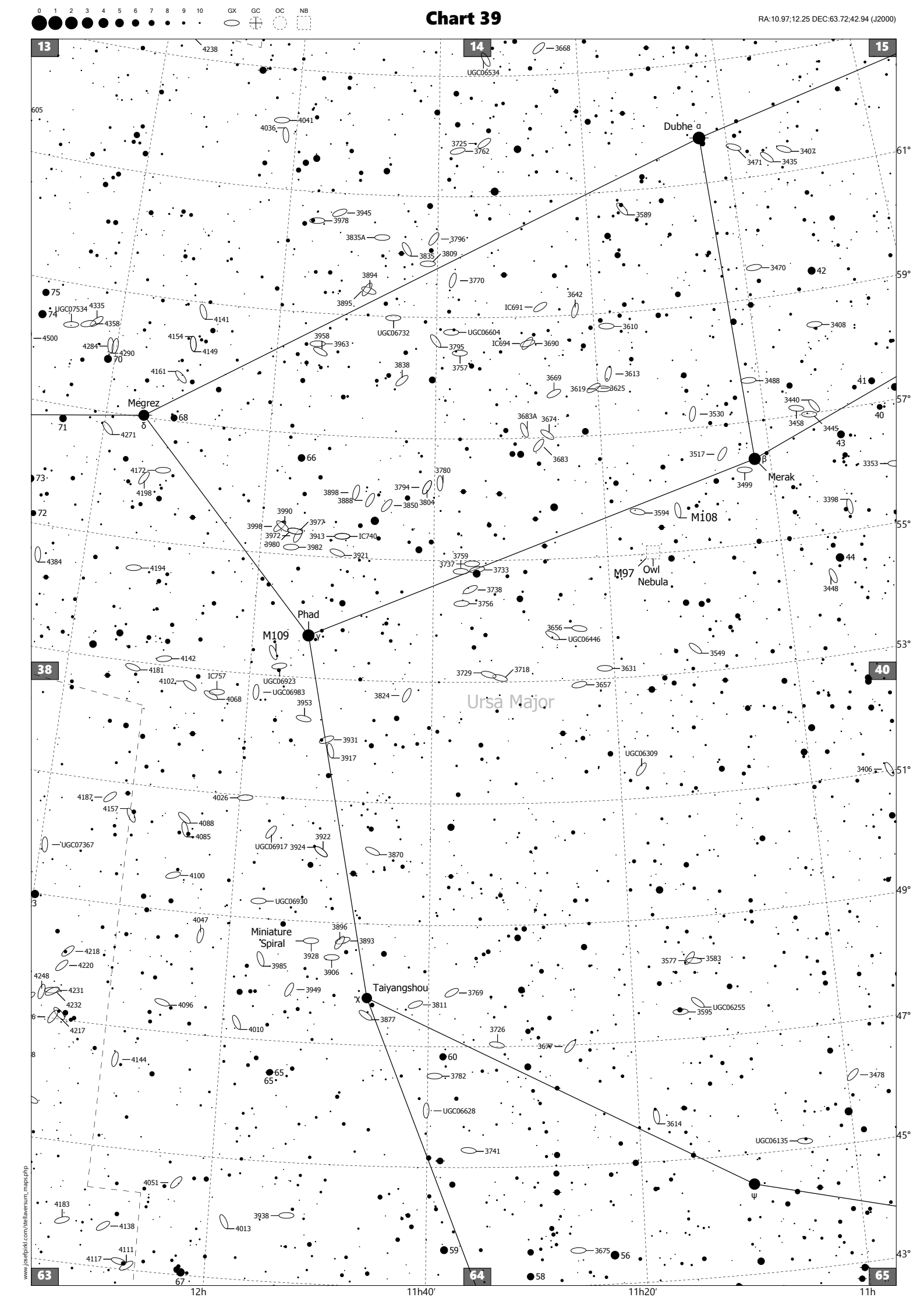
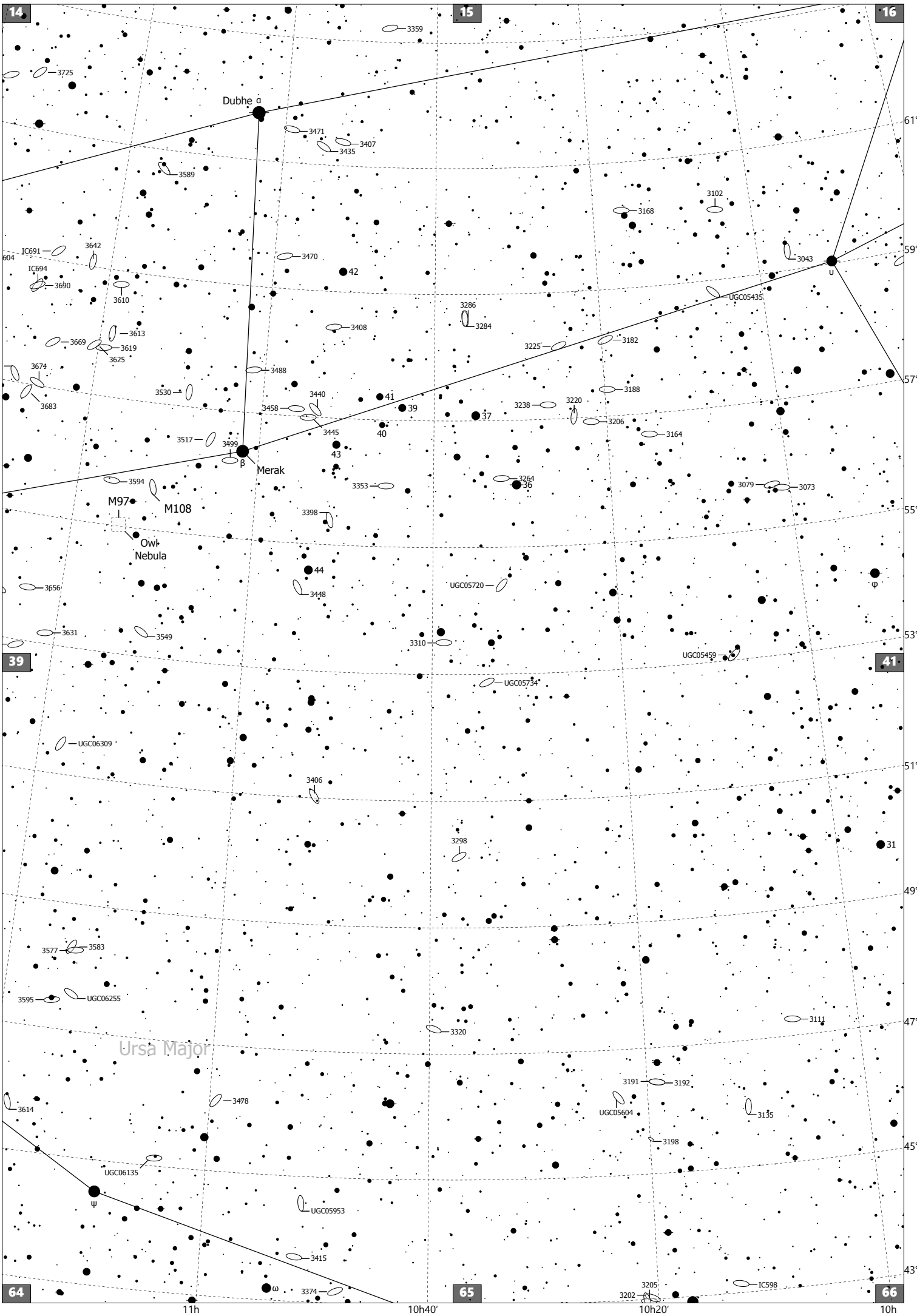
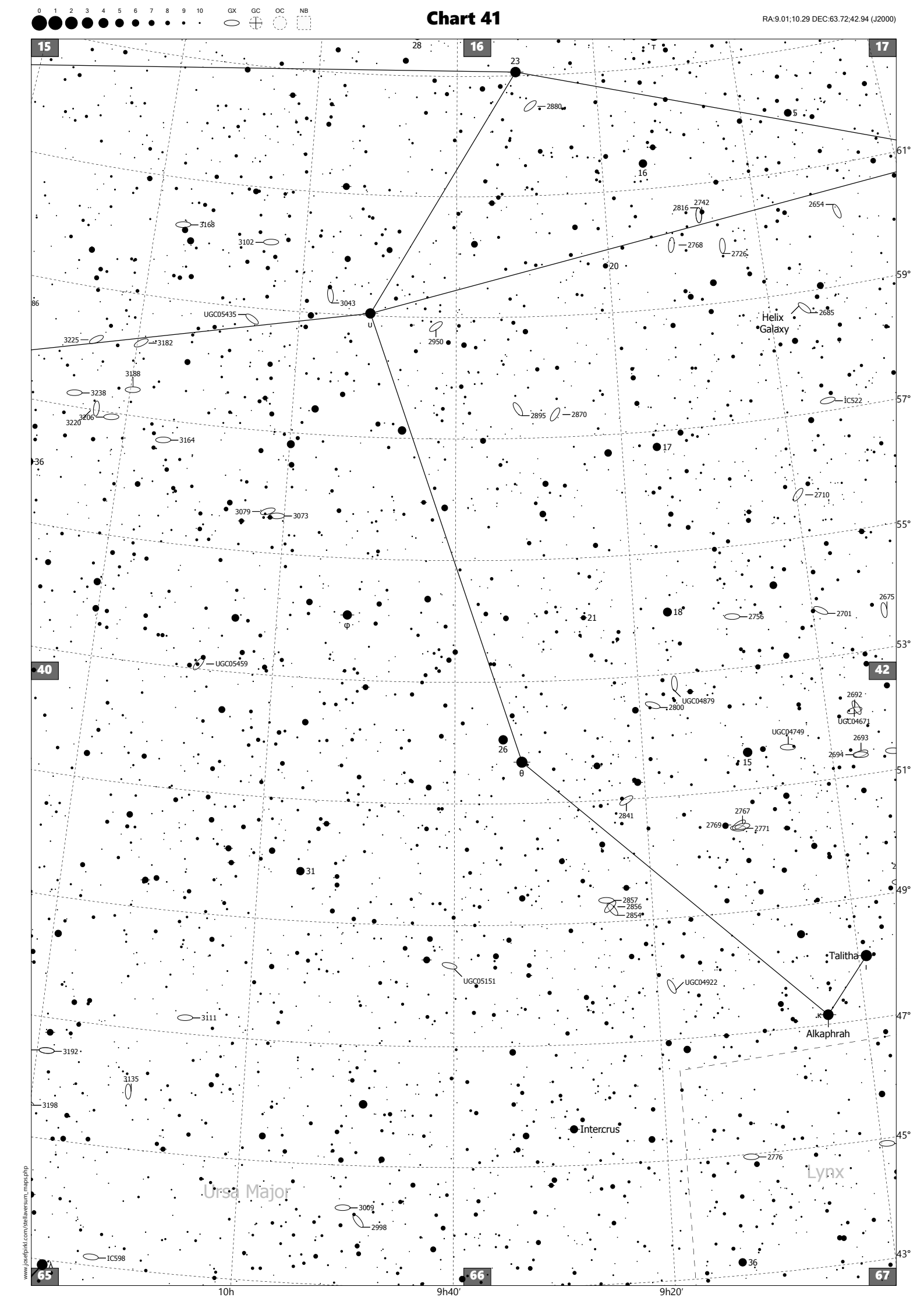

Chart 39
RA:10.97;12.25 DEC:63.72;42.94 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
13
14
15
38
40
63
64
65
Dubhe α
Merak β
Megrez δ
Phad γ
Taiyangshou χ
Ψ
M108
M97
Owl Nebula
M109
Miniature Spiral
Ursa Major
UGC06534
UGC07534
UGC06732
UGC06604
UGC06446
UGC06309
UGC06255
UGC06135
UGC06628
UGC06930
UGC06917
UGC06983
UGC06923
UGC07367
IC691
IC694
IC740
IC757
12h
11h40′
11h20′
11h
61°
59°
57°
55°
53°
51°
49°
47°
45°
43°
www.jsefipirkl.com/stellaversum_maps.php

Chart 40

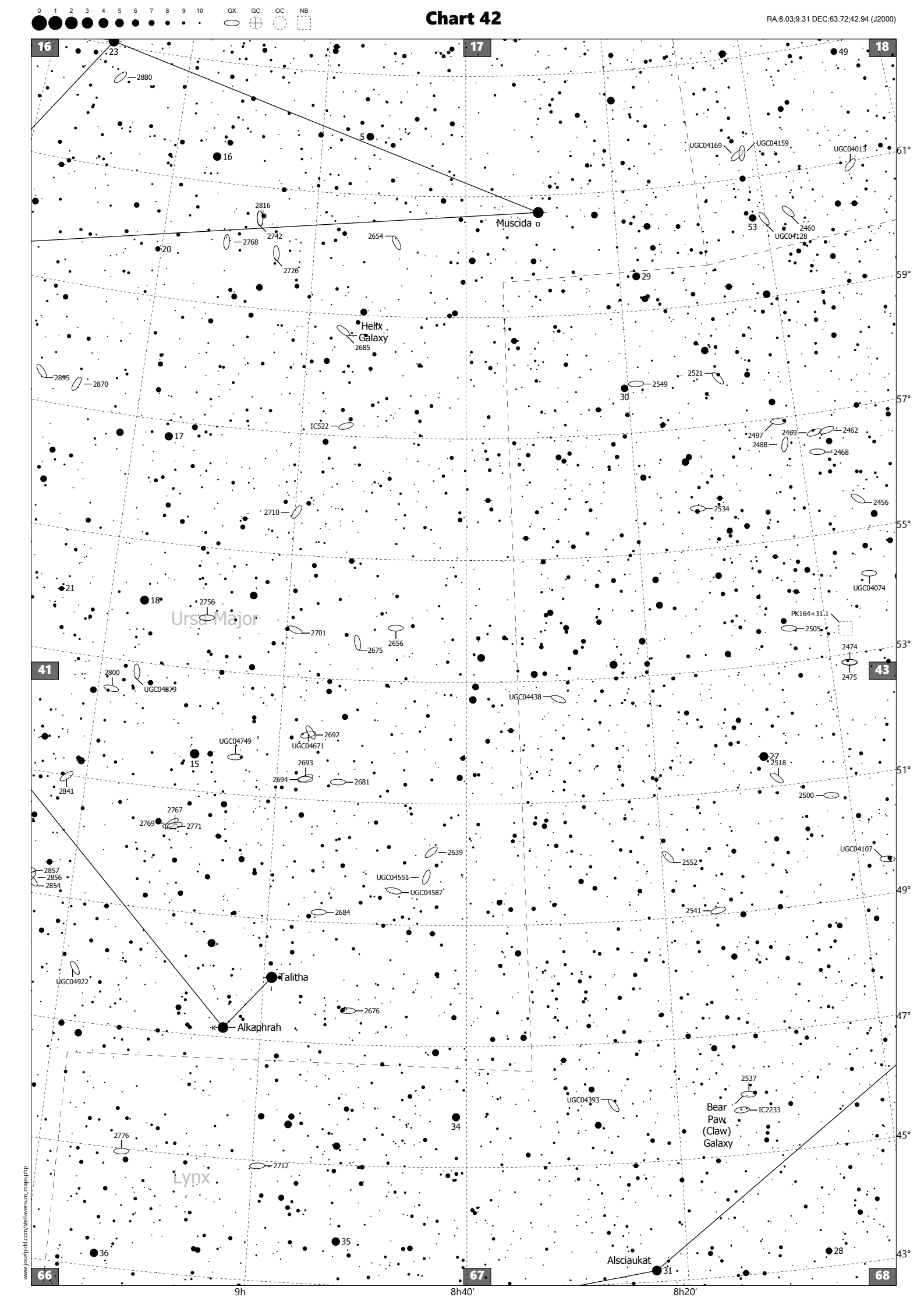
RA:9.99;11.27 DEC:63.72;42.94 (J2000)



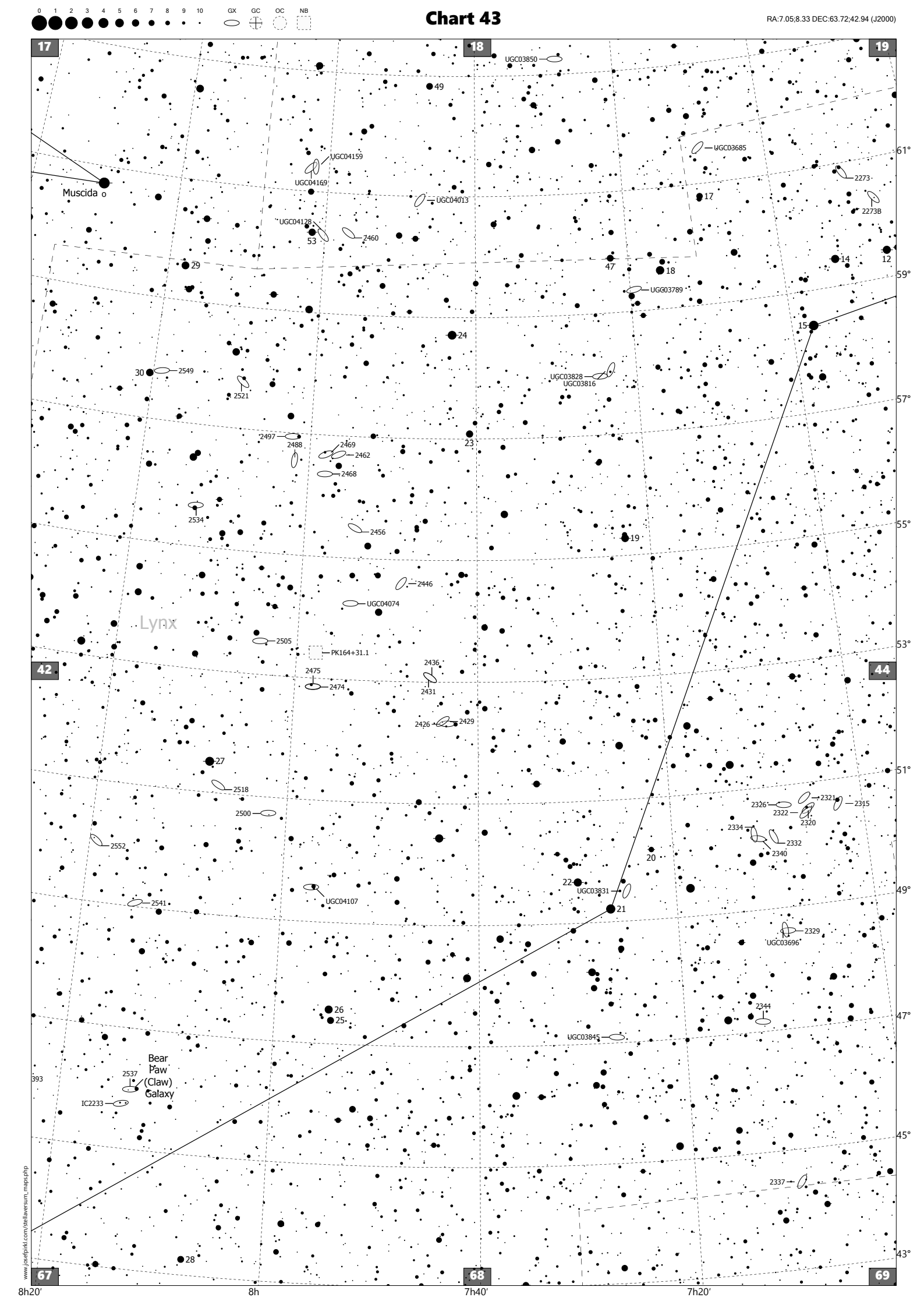
www.josefpirkl.com/stellaversum_maps.php

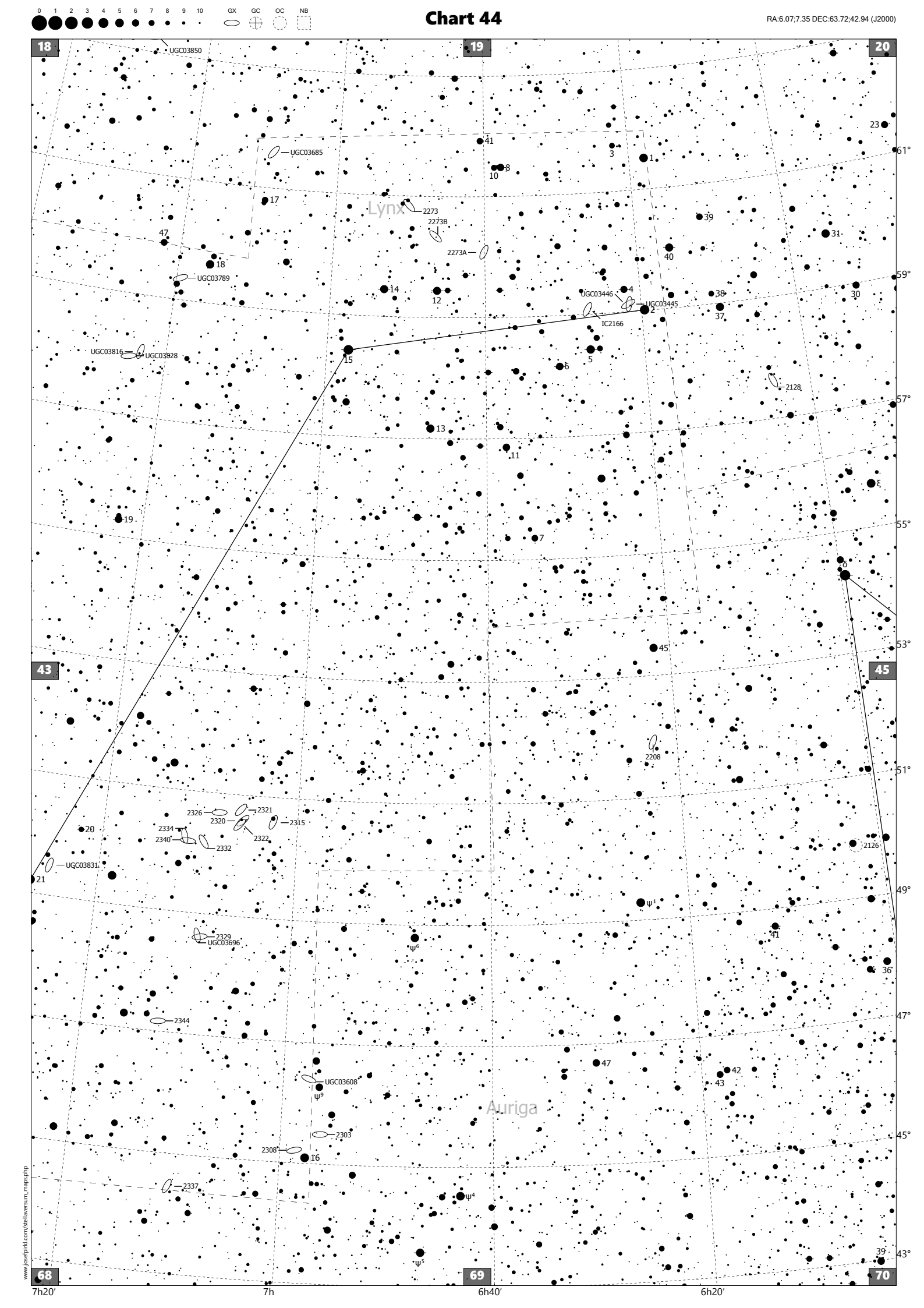


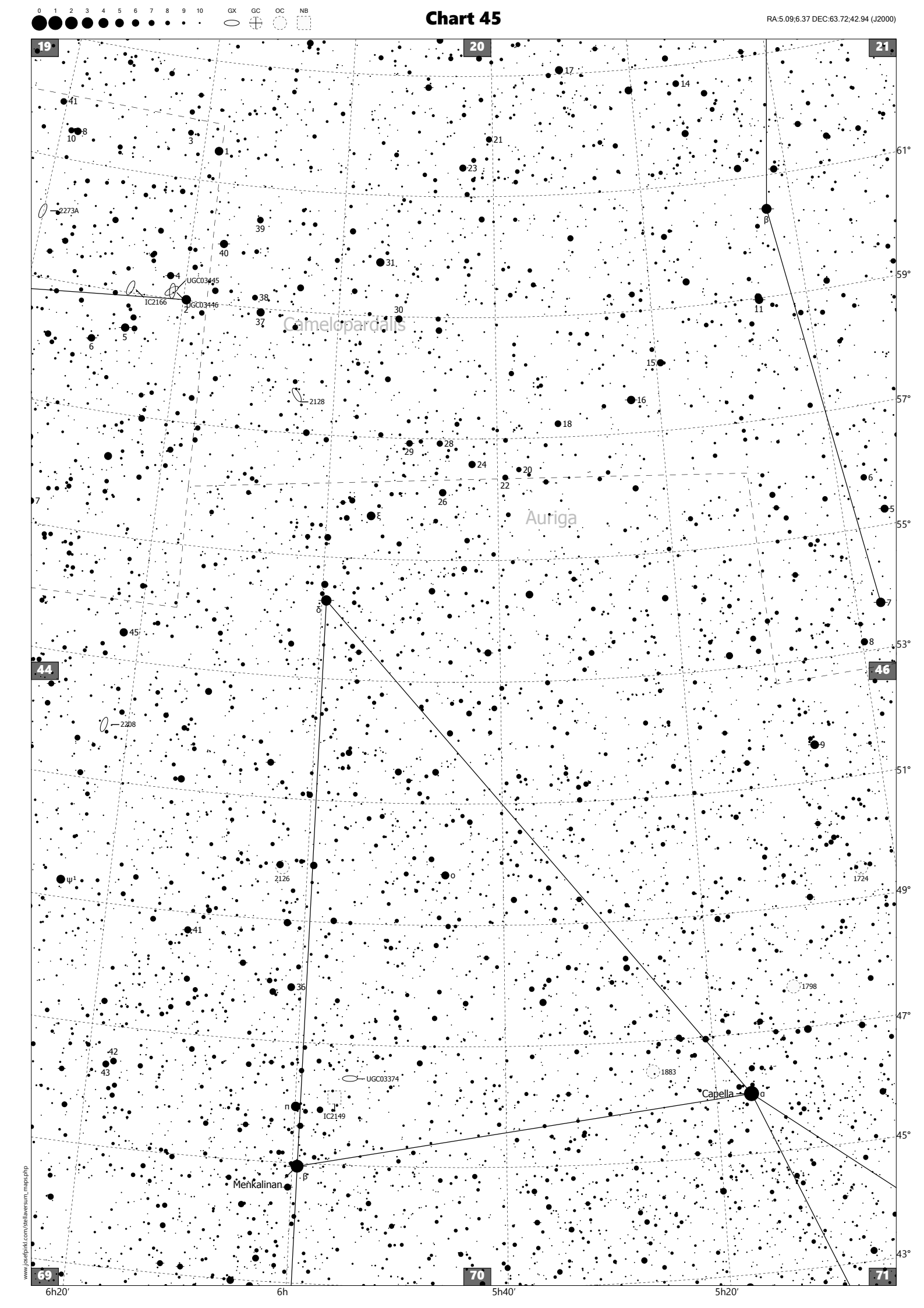
www.josefpirkl.com/stellaversum_maps.php

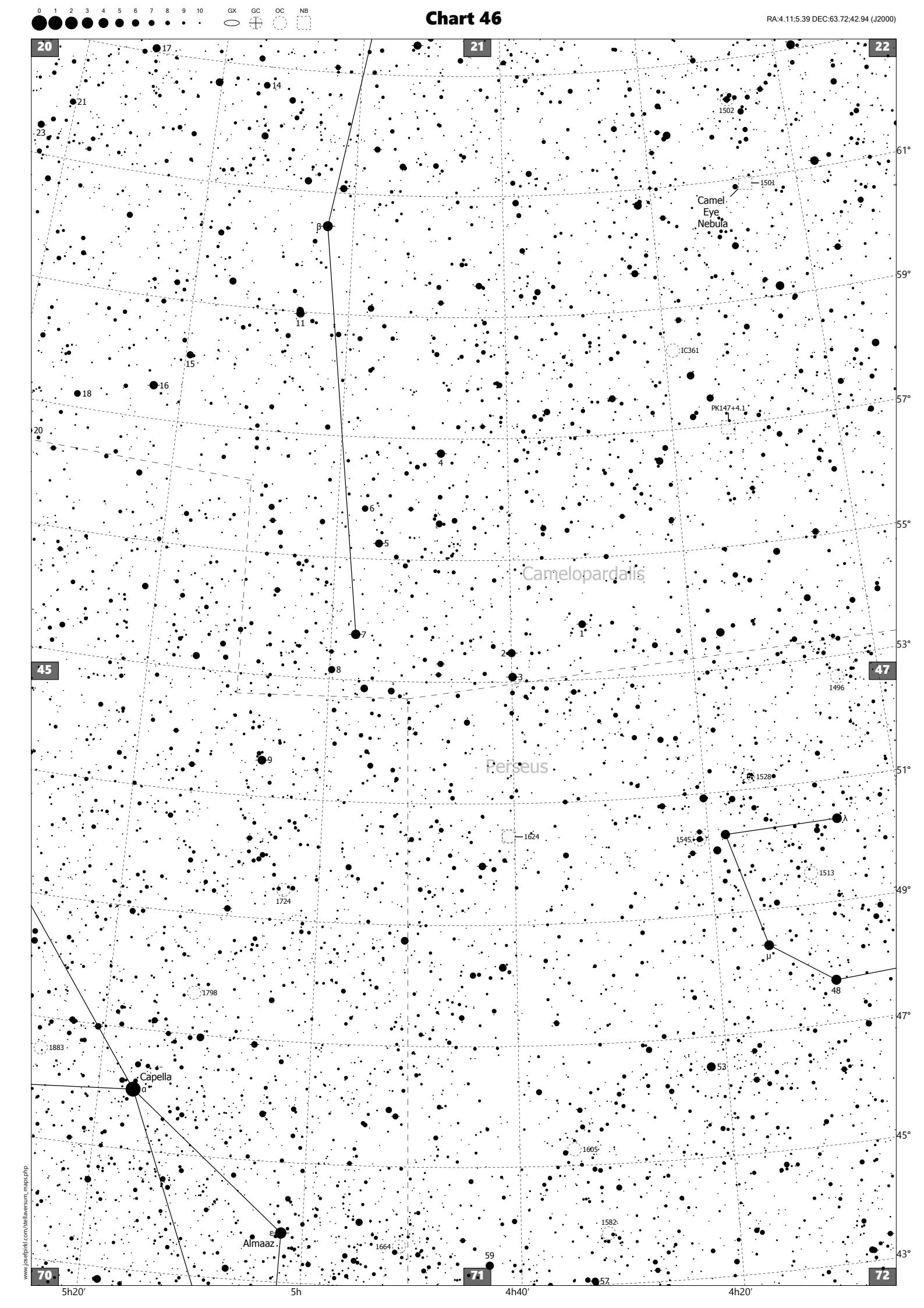


www.jsfdpinkl.com/stellaversum_maps.php


0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 43
RA:7.05;8.33 DEC:63.72;42.94 (J2000)
17
18
19
42
44
67
68
69
Muscida o
UGC03850
UGC04159
UGC04169
UGC04013
UGC04128
UGC03685
2273
2273B
2460
2549
2521
2497
2488
2469
2462
2468
2534
2456
2446
UGC04074
Lynx
2505
PK164+31.1
2475
2474
2436
2431
2426
2429
2518
2500
2552
2541
UGC04107
UGC03789
UGC03828
UGC03816
UGC03831
2326
2322
2321
2315
2320
2334
2332
2340
2329
UGC03696
2344
UGC03845
Bear Paw (Claw) Galaxy
2537
IC2233
2337
61°
59°
57°
55°
53°
51°
49°
47°
45°
43°
8h20′
8h
7h40′
7h20′
www.josefpirkl.com/stellaversum_maps.php


Chart 44
RA:6.07;7.35 DEC:63.72;42.94 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
18
19
20
43
45
68
69
70
Lynx
Auriga
UGC03850
UGC03685
UGC03789
UGC03816
UGC03828
UGC03831
UGC03446
UGC03445
UGC03696
UGC03608
IC2166
2273
2273B
2273A
2128
2208
2126
2326
2321
2320
2315
2334
2340
2322
2332
2329
2344
2303
2308
2337
ψ1
ψ6
ψ9
ψ4
ψ5
61°
59°
57°
55°
53°
51°
49°
47°
45°
43°
7h20′
7h
6h40′
6h20′
www.jsdfprkl.com/stellaversum_maps.php


Chart 45
RA:5.09;6.37 DEC:63.72;42.94 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
19
20
21
44
46
69
70
71
Camelopardalis
Auriga
Capella
Menkalinan
UGC03445
UGC03446
IC2166
UGC03374
IC2149
2273A
2128
2208
2126
1724
1798
1883
61°
59°
57°
55°
53°
51°
49°
47°
45°
43°
6h20′
6h
5h40′
5h20′
www.jsefpirkl.com/stellaversum_maps.php


Chart 46
RA:4.11;5.39 DEC:63.72;42.94 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
20
21
22
45
47
70
71
72
Camelopardalis
Perseus
Camel Eye Nebula
IC361
PK147+4.1
Capella
Almaaz
1502
1501
1496
1528
1624
1545
1513
1724
1798
1883
1605
1582
1664
61°
59°
57°
55°
53°
51°
49°
47°
45°
43°
5h20′
5h
4h40′
4h20′
www.jsfdpinkl.com/stellaversun_maps.php

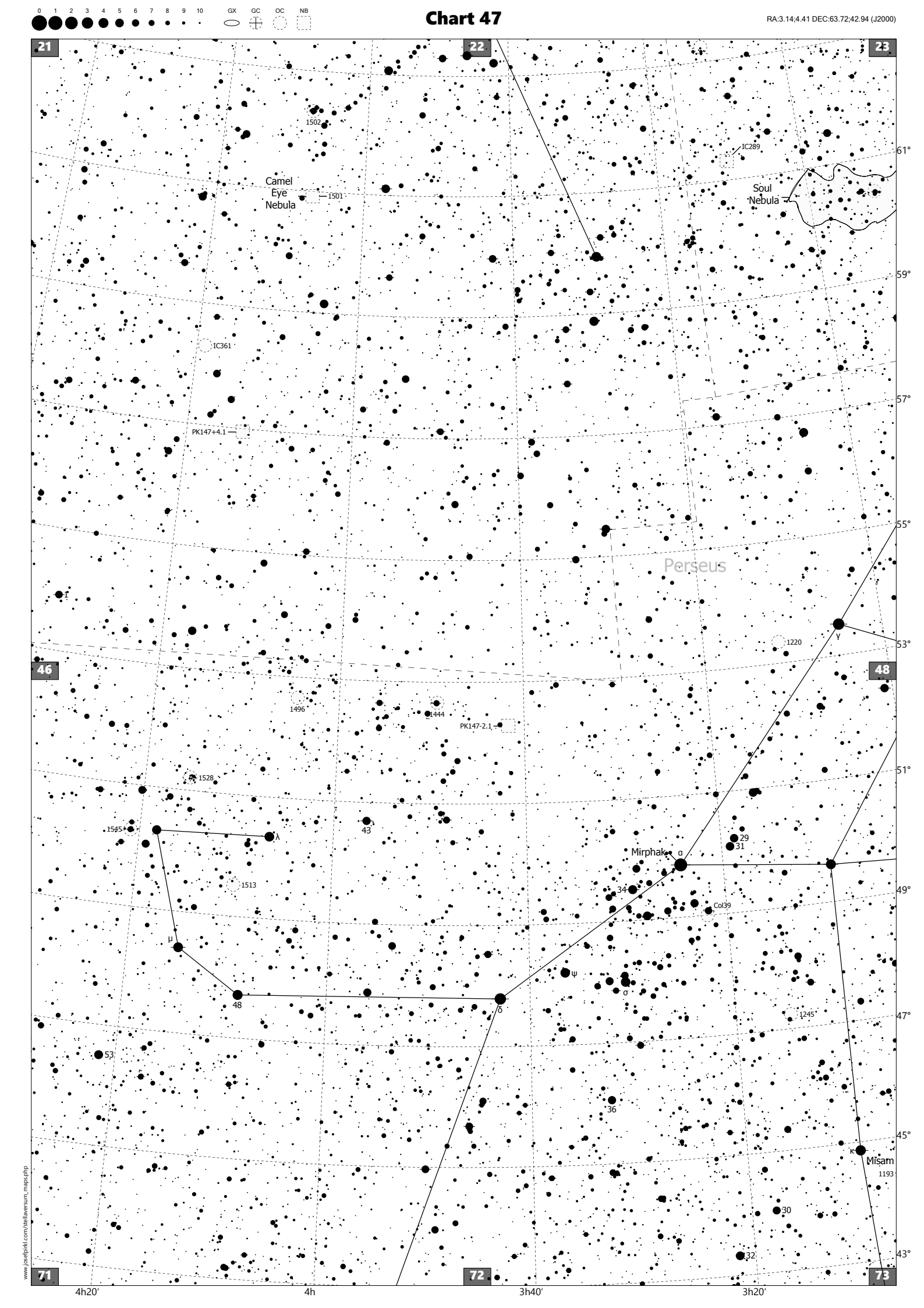
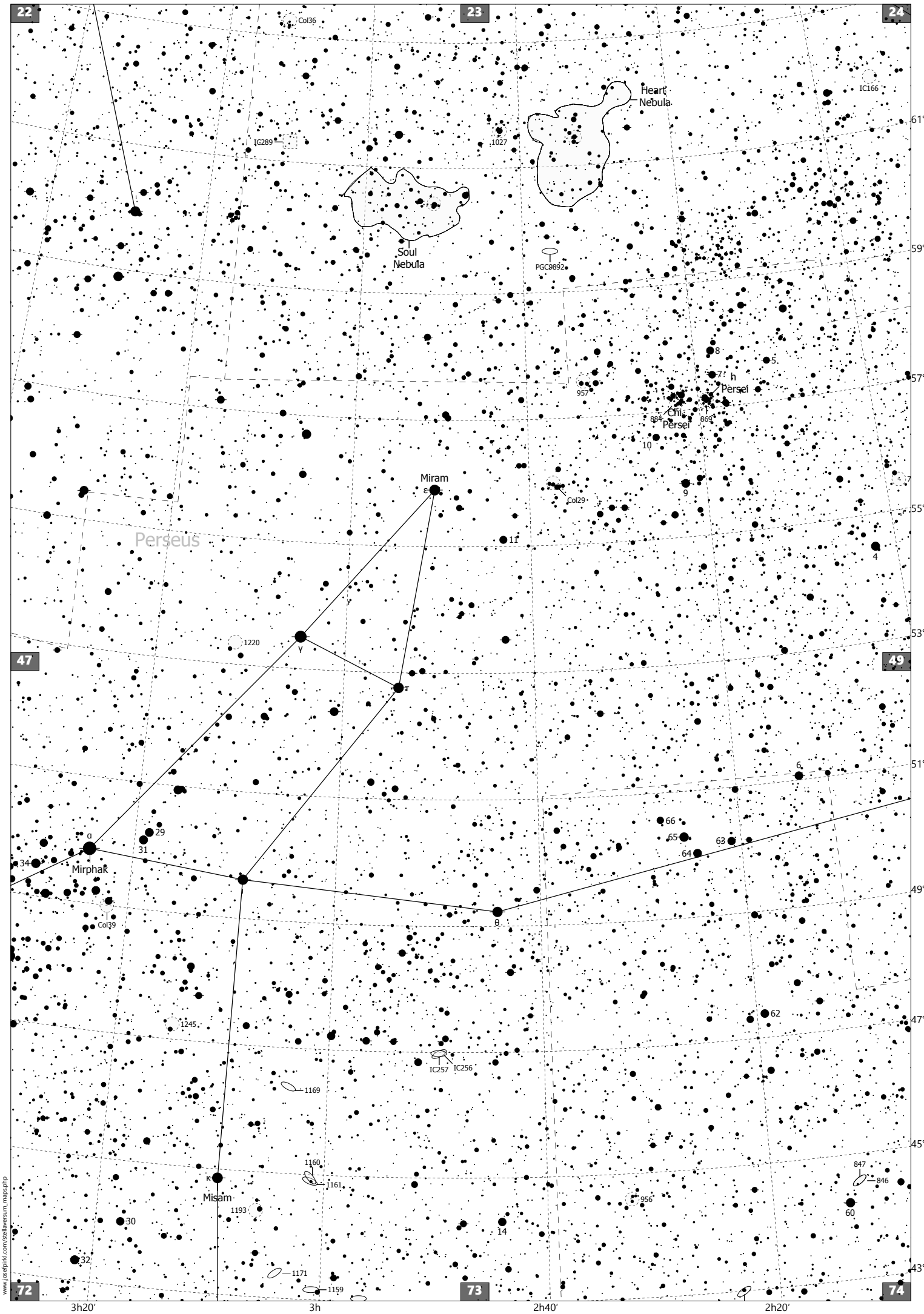

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 47
RA:3.14;4.41 DEC:63.72;42.94 (J2000)
21
22
23
46
48
71
72
73
1502
IC289
Camel Eye Nebula
1501
Soul Nebula
61°
59°
IC361
57°
PK147+4.1
55°
Perseus
γ
1220
53°
1496
1444
PK147-2.1
1528
51°
1545
λ
43
29
31
Mirphak
α
1513
34
49°
Col39
μ
ψ
σ
48
δ
1245
47°
53
36
45°
κ
Misam
1193
30
32
43°
4h20′
4h
3h40′
3h20′
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Chart 48

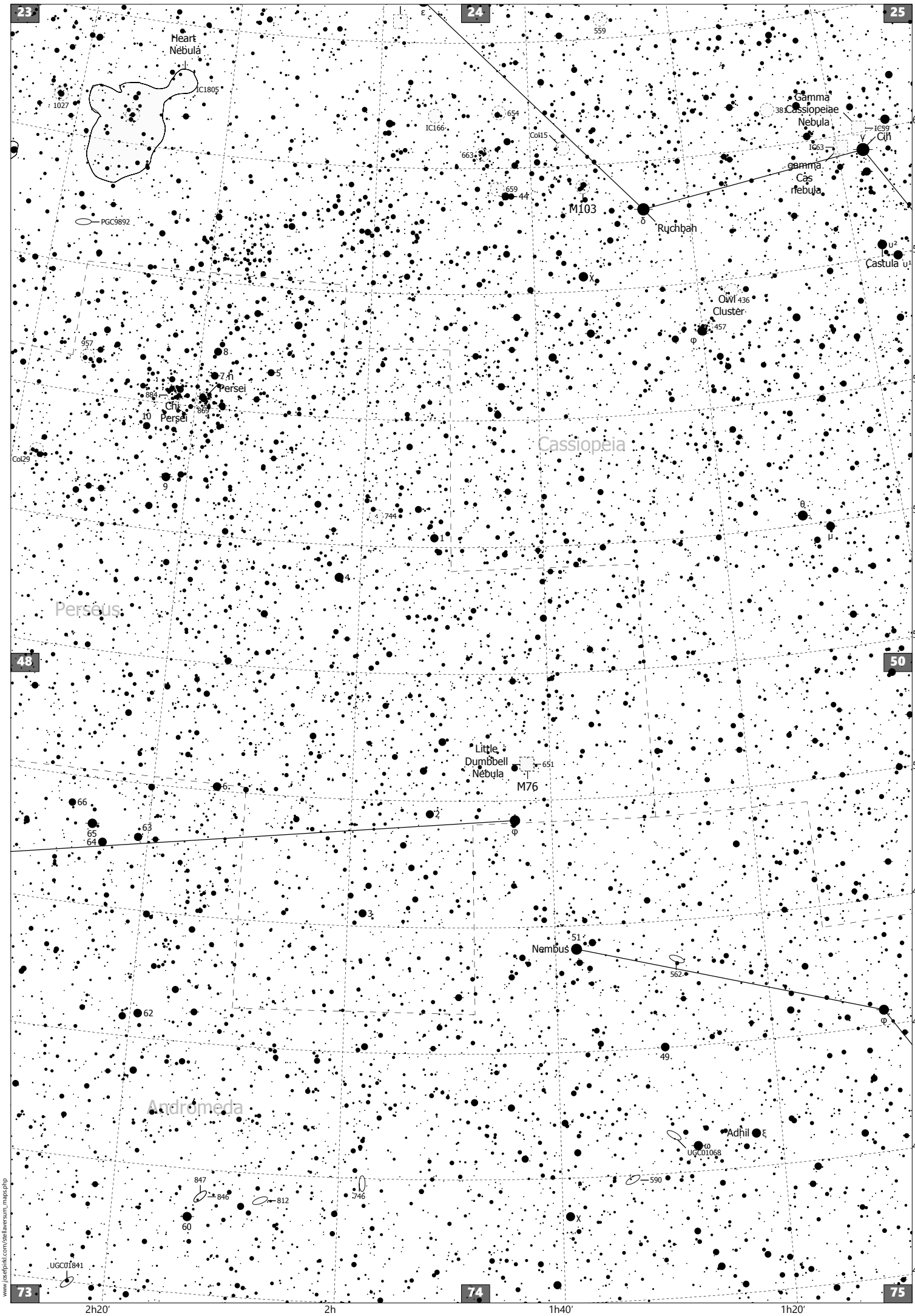
RA:2.16;3.44 DEC:63.72;42.94 (J2000)



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Chart 49

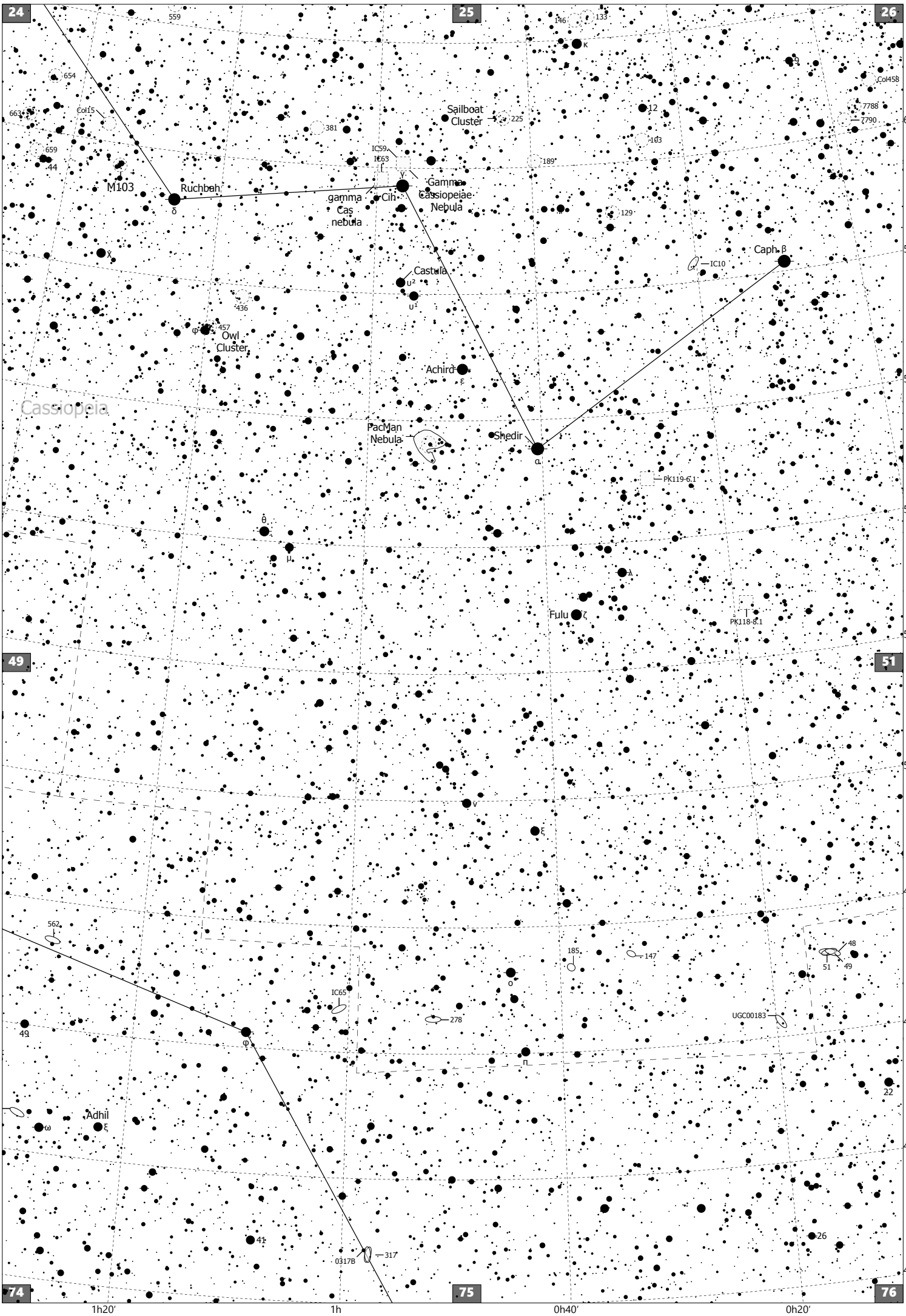
RA:1.18;2.46 DEC:63.72;42.94 (J2000)



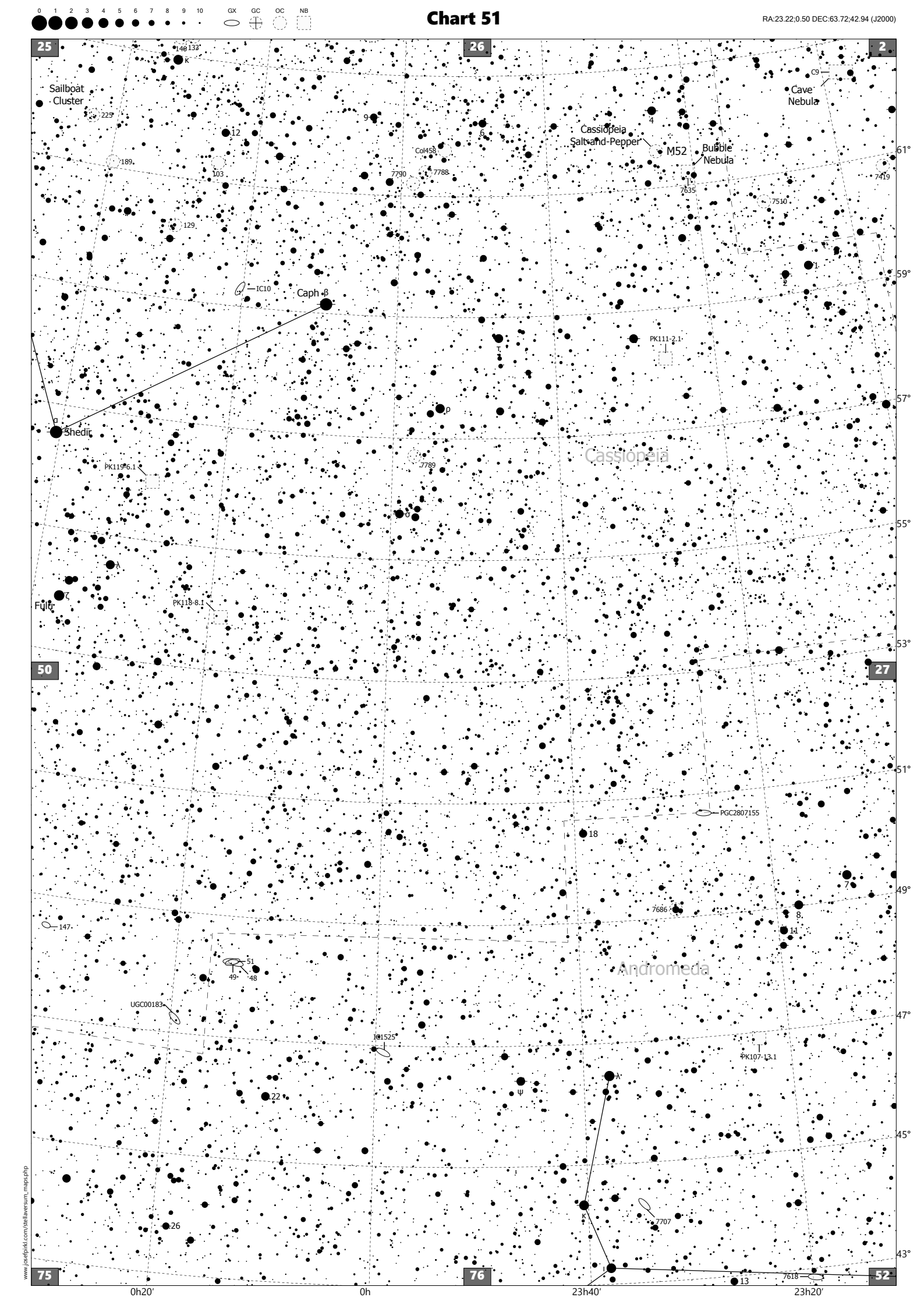
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Chart 50

RA:0.20;1.48 DEC:63.72;42.94 (J2000)



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Chart 51
RA:23.22;0.50 DEC:63.72;42.94 (J2000)
0 1 2 3 4 5 6 7 8 9 10 GX GC OC NB
25
26
2
50
27
75
76
52
Sailboat Cluster
Cave Nebula
Cassiopeia Salt-and-Pepper
M52
Bubble Nebula
Caph β
Shedir
Fulu
IC10
PK111-2.1
PK119-6.1
PK118-8.1
PGC2807155
UGC00183
IC1525
PK107-13.1
Cassiopeia
Andromeda
61°
59°
57°
55°
53°
51°
49°
47°
45°
43°
0h20′
0h
23h40′
23h20′
www.josefpirkl.com/stellaversum_maps.php

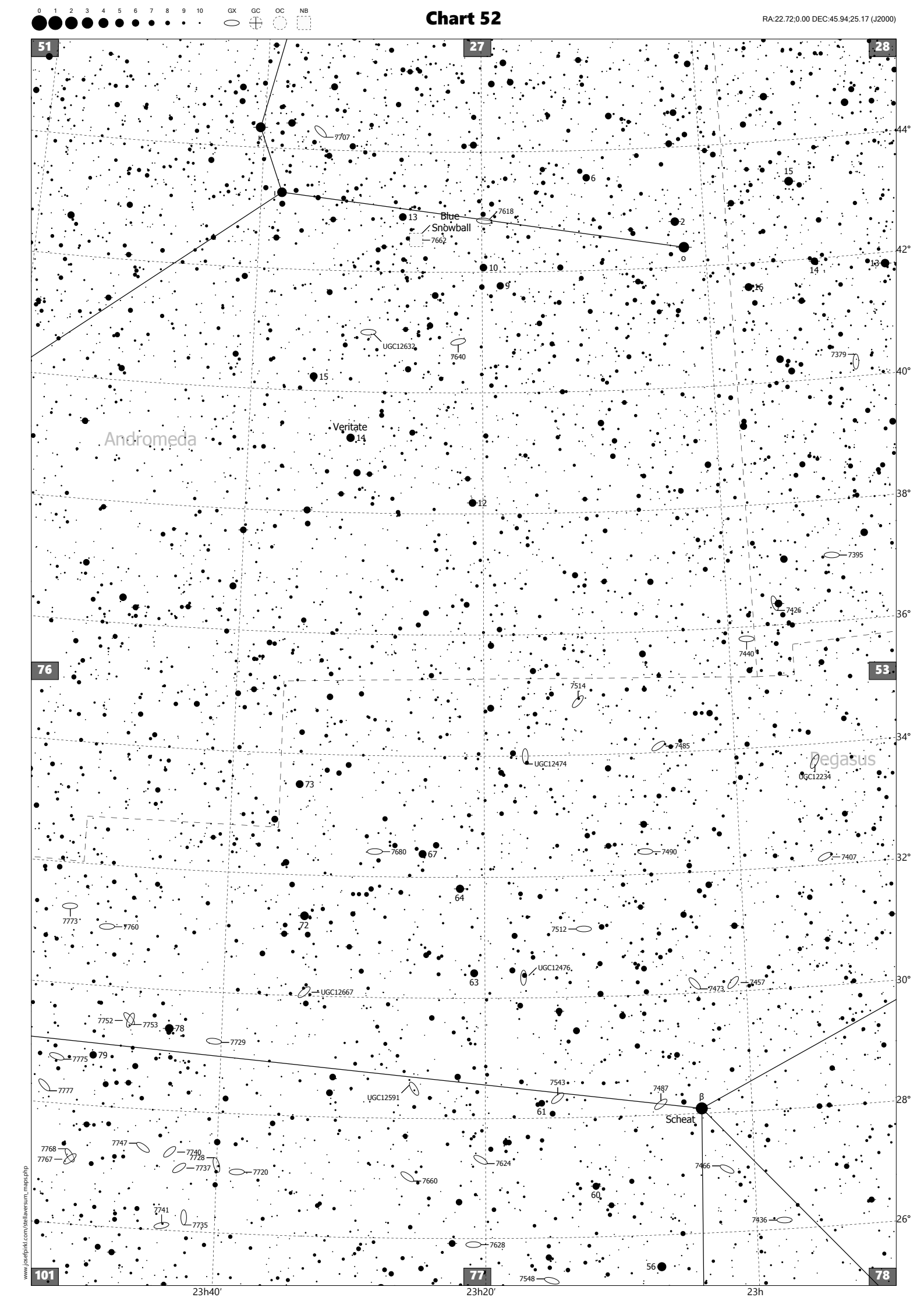
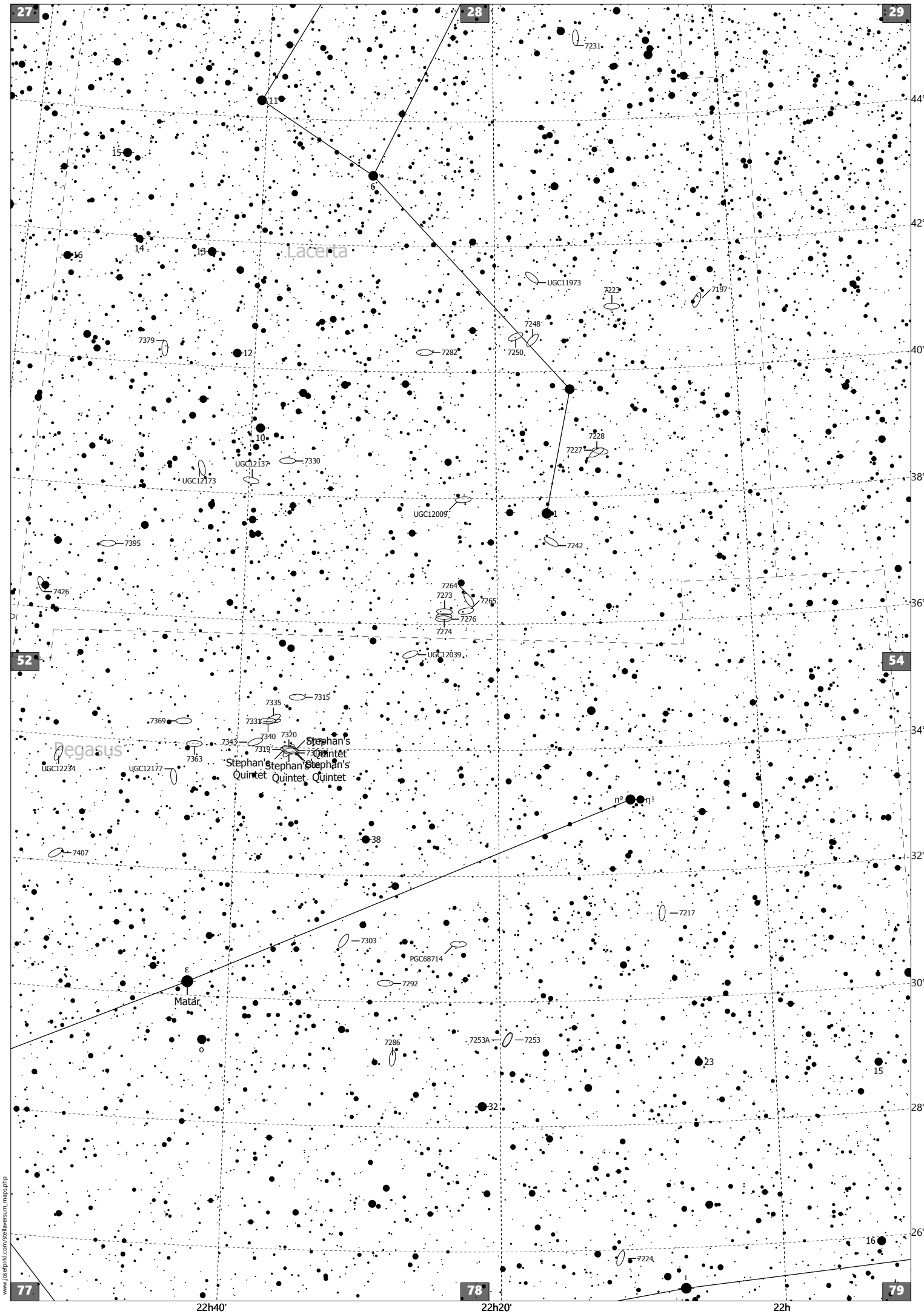
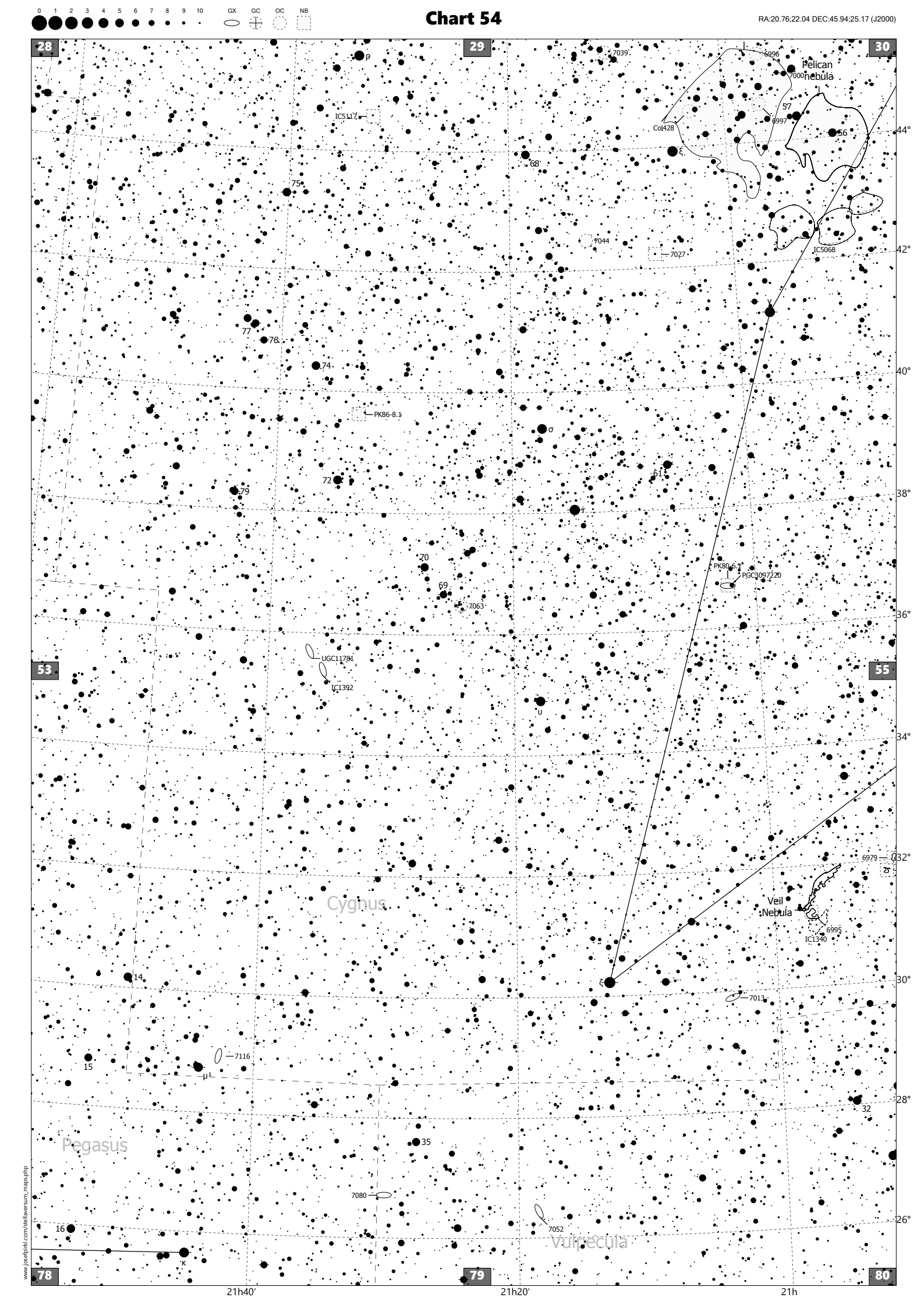

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 52
RA:22.72;0.00 DEC:45.94;25.17 (J2000)
51
27
28
76
53
101
77
78
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
Andromeda
Pegasus
Veritate
14
Blue
Snowball
7662
7618
7707
UGC12632
7640
7379
7395
7426
7440
7514
7485
UGC12474
UGC12234
7680
7490
7407
7773
7760
7512
UGC12476
7473
7457
UGC12667
7752
7753
7729
7775
7777
UGC12591
7543
7487
β
Scheat
7768
7767
7747
7740
7728
7737
7720
7624
7660
7466
7741
7735
7436
7628
7548
23h40′
23h20′
23h
www.josefpirkl.com/stellaversum_maps.php

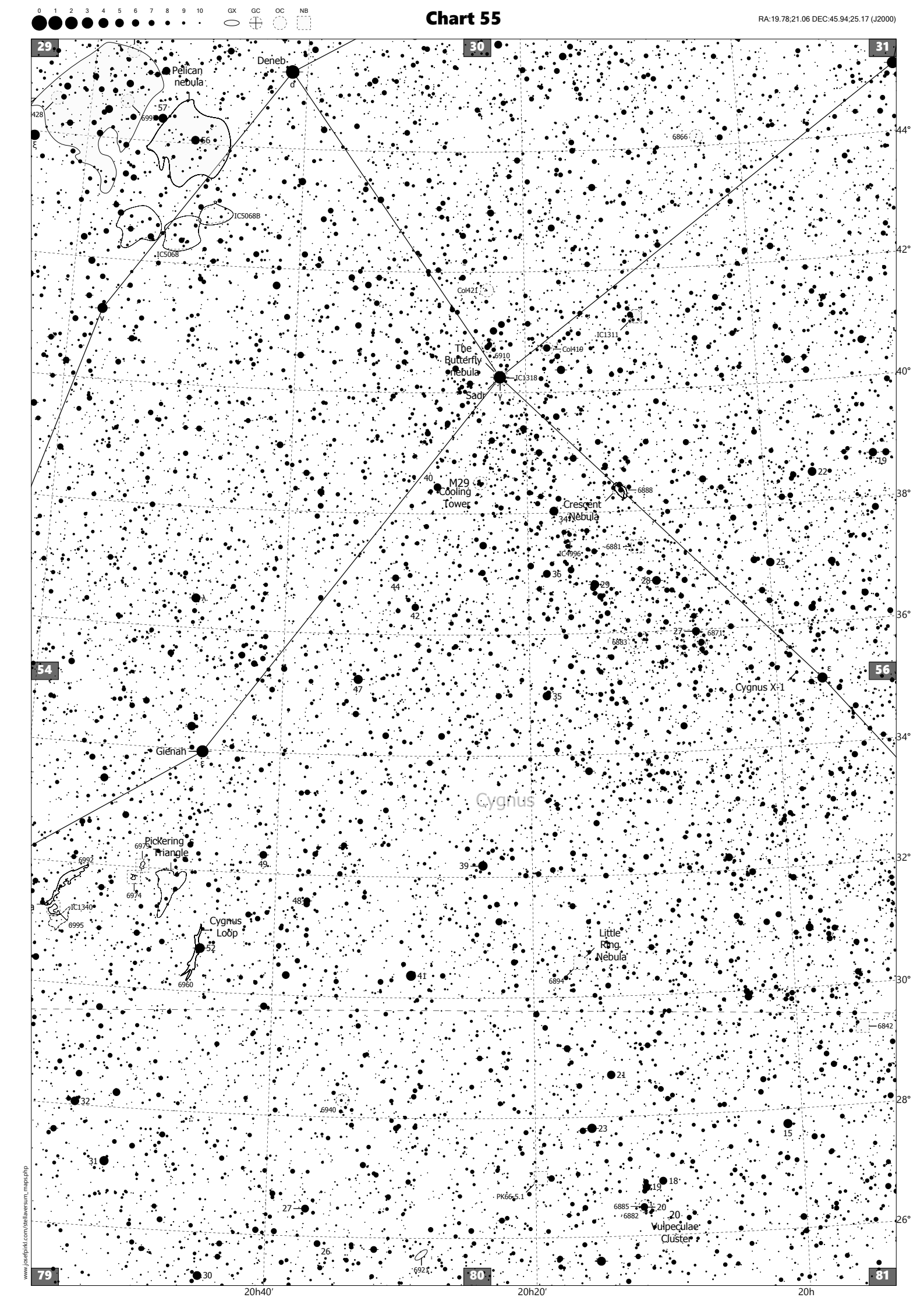
Chart 53

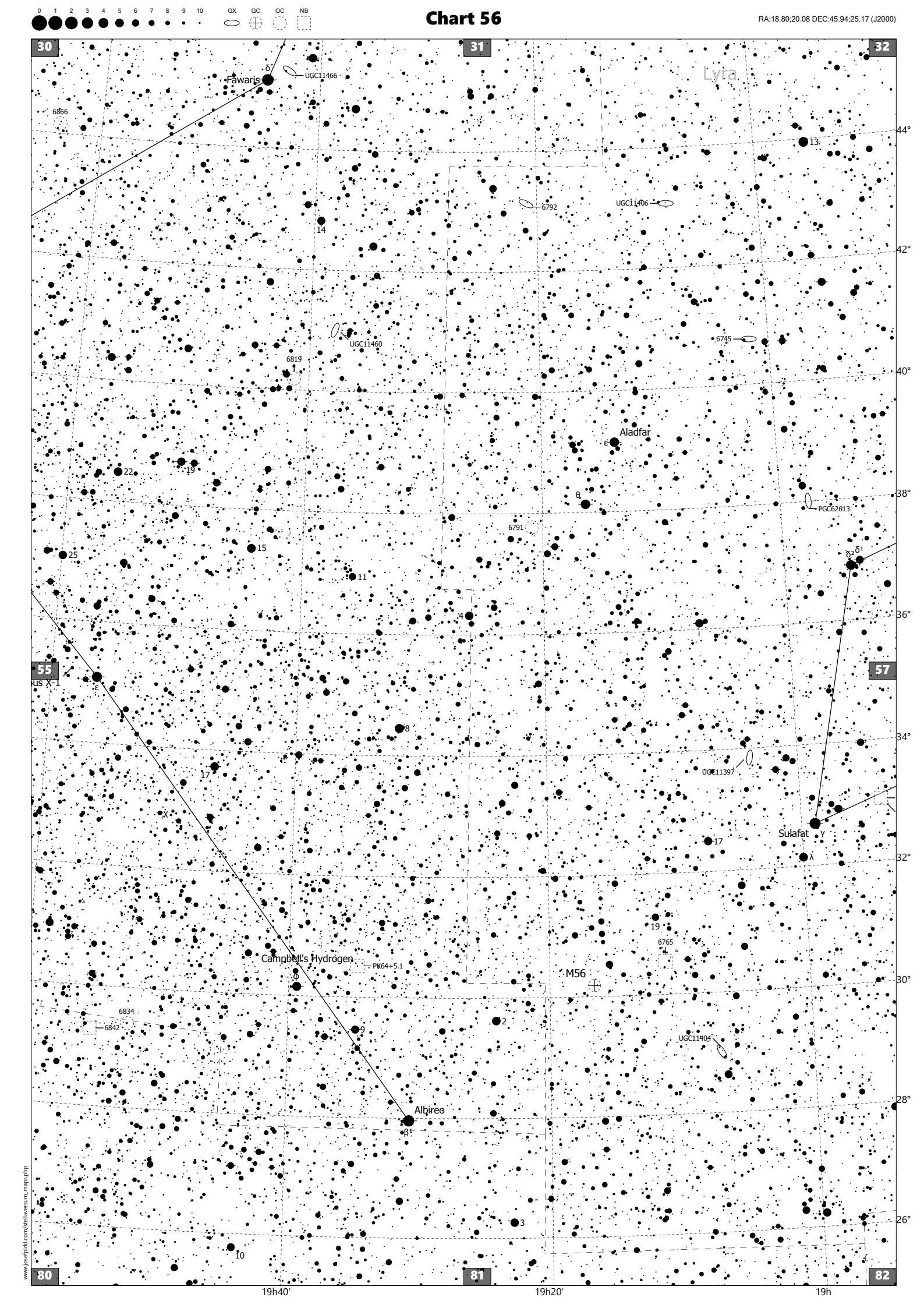
RA:21.74;23.02 DEC:45.94;25.17 (J2000)

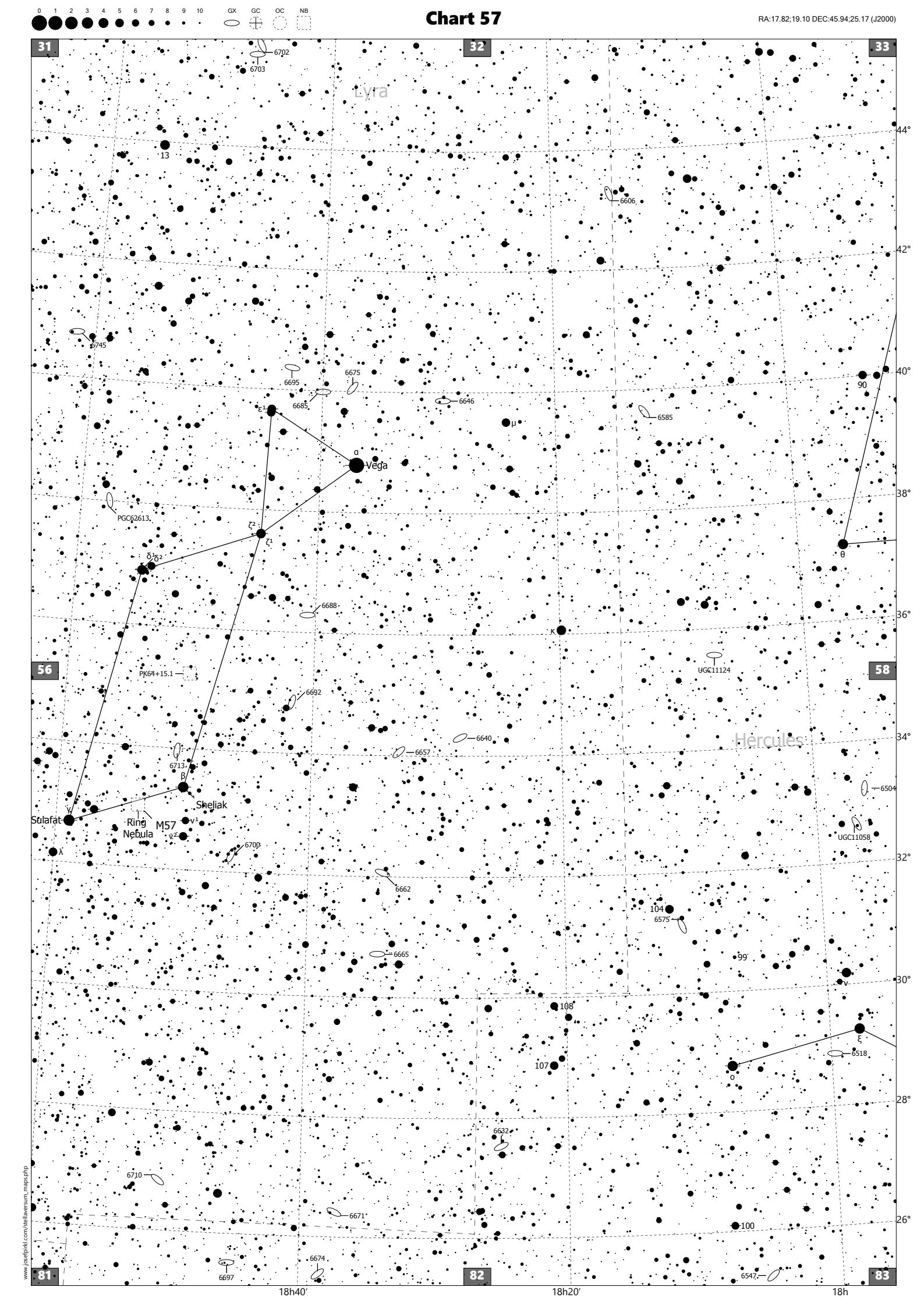


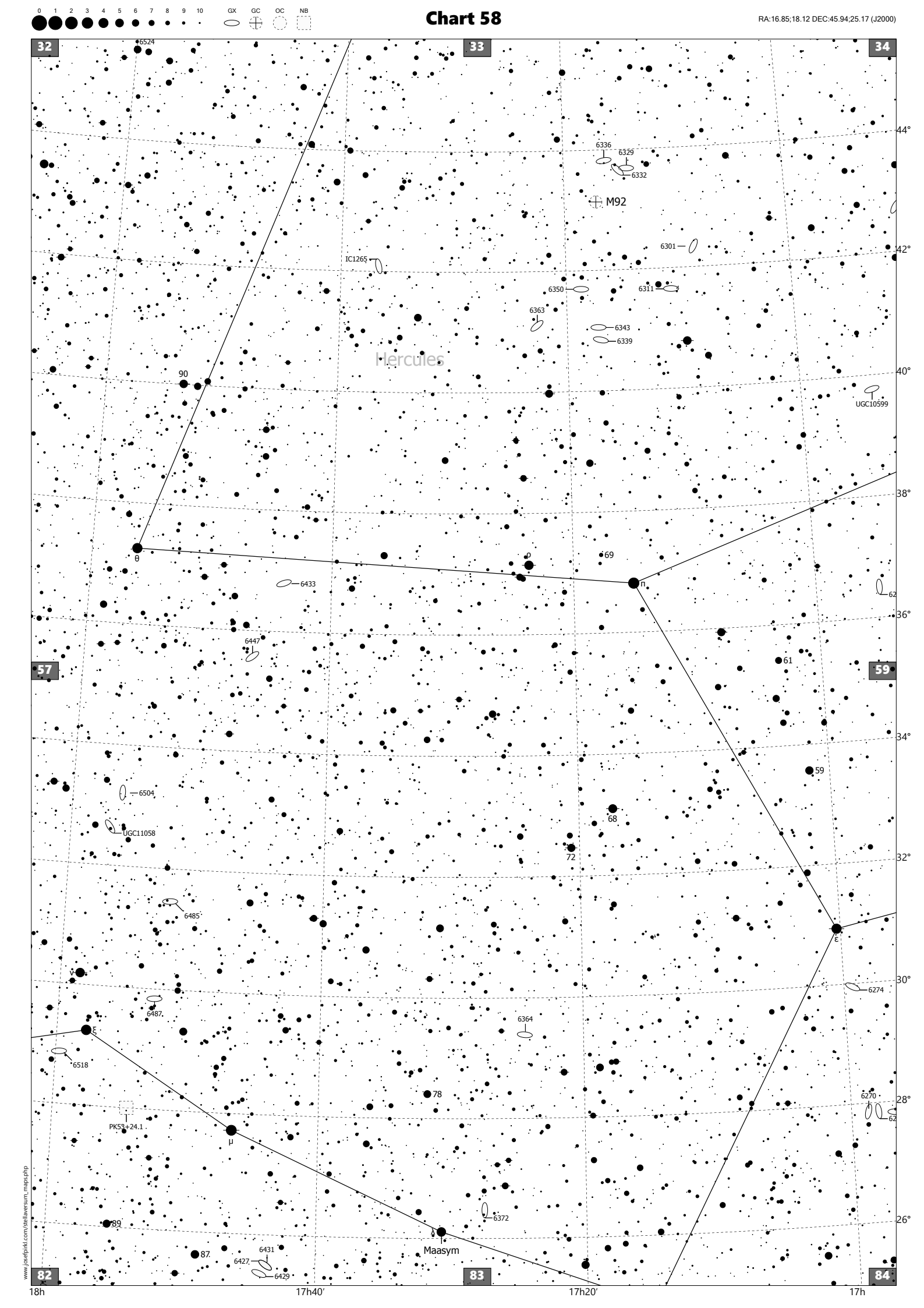
www.josefpirkl.com/stellaversum_maps.php

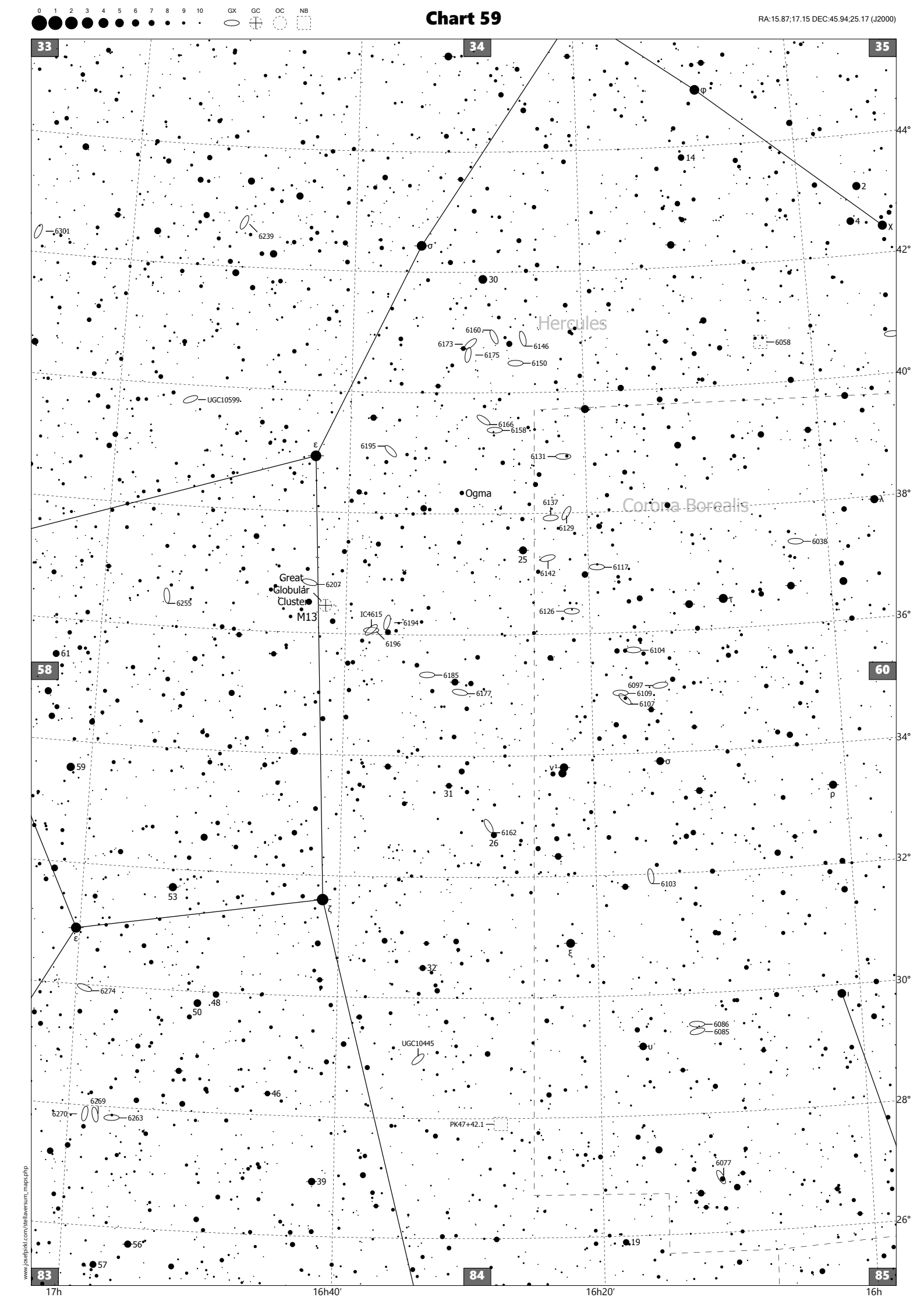

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 54
RA:20.76;22.04 DEC:45.94;25.17 (J2000)
28
29
30
53
55
78
79
80
Pelican nebula
Veil Nebula
Cygnus
Pegasus
Vulpecula
IC5117
Col428
IC5068
PK86-8.1
PK80-6.1
PGC3097220
UGC11781
IC1392
IC1340
7039
6996
7000
6997
7044
7027
7063
6979
6995
7013
7116
7080
7052
57
56
68
75
77
76
74
72
79
70
69
61
σ
τ
υ
ν
ζ
μ1
14
15
16
35
32
K
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
21h40′
21h20′
21h
www.joseforkl.com/stellaversum_maps.php

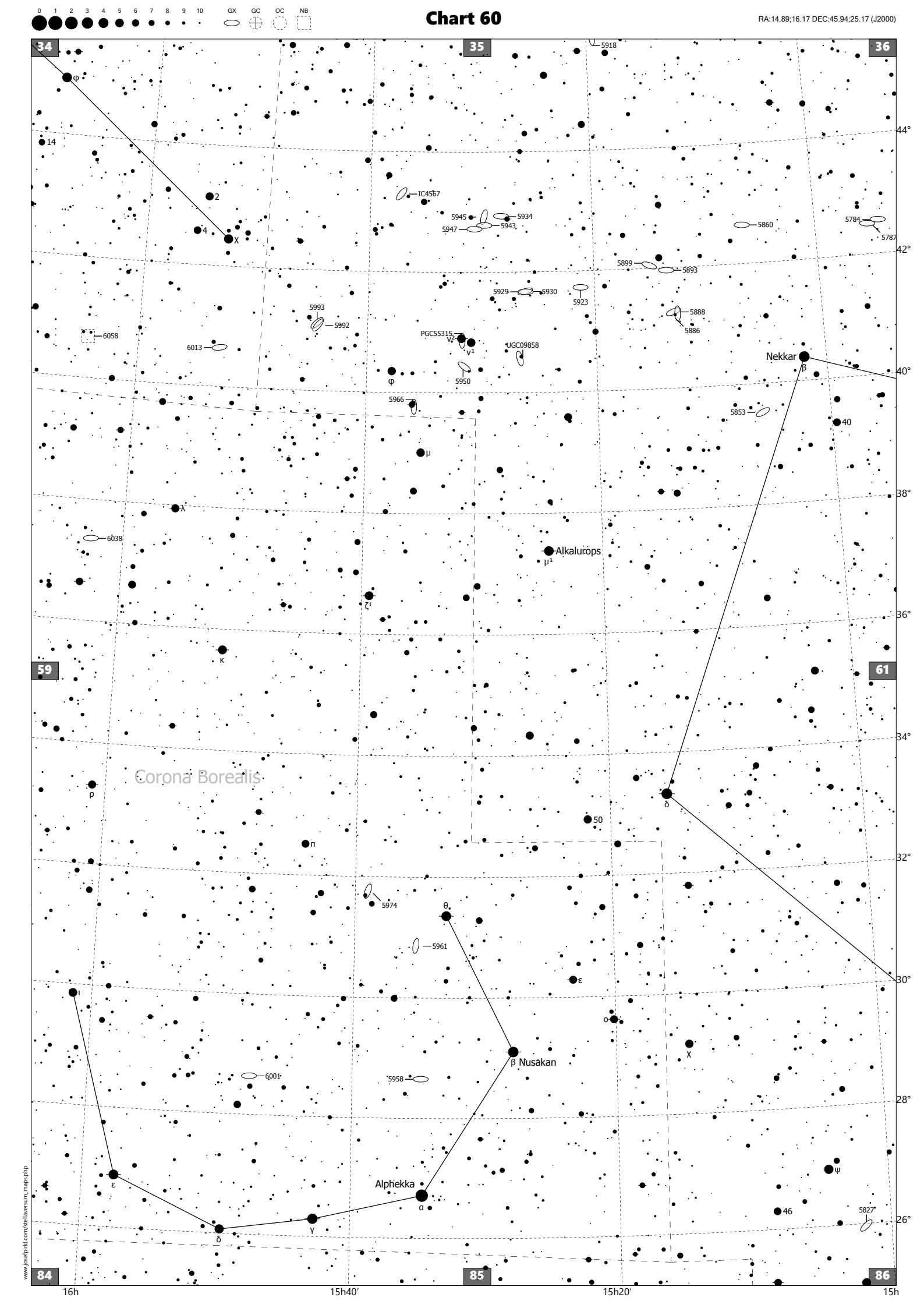

Chart 55
RA:19.78;21.06 DEC:45.94;25.17 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
29
30
31
54
56
79
80
81
Deneb
Pelican nebula
IC5068B
IC5068
Col421
IC1311
Col419
The Butterfly Nebula
6910
IC1318
Sadr
M29 Cooling Tower
6888
Crescent Nebula
IC4996
6881
6883
6871
Cygnus X-1
Cygnus
Gienah
Pickering Triangle
6992
6974
IC1340
6995
Cygnus Loop
6960
Little Ring Nebula
6894
6842
6940
PK66 5.1
6885
6882
20 Vulpeculae Cluster
6934
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
20h40′
20h20′
20h
www.jsfdpinkl.com/stellaversum_maps.php


0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 56
RA:18.80;20.08 DEC:45.94;25.17 (J2000)
30
31
32
55
57
80
81
82
Lyra
Sawaris
UGC11466
6866
6792
UGC11406
13
14
UGC11460
6819
6745
Aladfar
ε
22
19
θ
PGC62613
6791
25
15
11
52
δ1
4
8
17
UGC11397
Sulafat
γ
λ
17
19
6765
Campbell's Hydrogen
PK64+5.1
M56
6834
6842
9
2
UGC11404
Albireo
β1
3
10
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
19h40′
19h20′
19h
www.josefpirkl.com/stellaversum_maps.php


Chart 57
RA:17.82;19.10 DEC:45.94;25.17 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
31
32
33
56
58
81
82
83
Lyra
Hercules
Vega
Sheliak
Sulafat
Ring Nebula
M57
PGC62613
PK64+15.1
UGC11124
UGC11058
6702
6703
6606
6745
6695
6675
6685
6646
6585
6688
6692
6640
6657
6713
6504
6700
6662
6575
6665
6518
6632
6710
6671
6697
6674
6547
13
90
104
99
108
107
100
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
18h40′
18h20′
18h
www.jsefpirkl.com/stellaversum_maps.php


0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 58
RA:16.85;18.12 DEC:45.94;25.17 (J2000)
32
33
34
57
59
82
83
84
6524
6336
6329
6332
M92
6301
IC1265
6350
6311
6363
6343
6339
Hercules
90
UGC10599
θ
69
η
6433
6447
61
6504
UGC11058
68
72
59
6485
ε
ν
6274
6487
6364
ξ
6518
78
PK53+24.1
μ
6270
89
6372
87
6431
6427
6429
Maasym
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
18h
17h40′
17h20′
17h
www.jsefpirkl.com/stellaversum_maps.php


0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 59
RA:15.87;17.15 DEC:45.94;25.17 (J2000)
33
34
35
58
60
83
84
85
Hercules
Ogma
Corona Borealis
Great Globular Cluster
M13
IC4615
UGC10599
UGC10445
PK47+42.1
6301
6239
6160
6173
6175
6146
6150
6058
6166
6158
6195
6131
6137
6129
6038
6142
6117
6255
6207
6126
6194
6196
6104
6185
6177
6097
6109
6107
6162
6103
6086
6085
6274
6269
6270
6263
6077
14
2
4
χ
30
25
τ
61
59
31
σ
ρ
26
53
ζ
ε
32'
48
50
υ
46
39
56
57
19
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
17h
16h40'
16h20'
16h
www.josefpirkl.com/stellaversum_maps.php


Chart 60
RA:14.89;16.17 DEC:45.94;25.17 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
34
35
36
59
61
84
85
86
Corona Borealis
Nekkar
Alkalurops
Alphekka
β Nusakan
IC4567
5945
5934
5947
5943
5918
5860
5784
5787
5899
5893
5929
5930
5923
5888
5886
5993
5992
6058
6013
PGC55315
UGC09858
5950
5966
5853
6038
5974
5961
6001
5958
5827
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
16h
15h40'
15h20'
15h
www.josefpirkl.com/stellaversum_maps.php