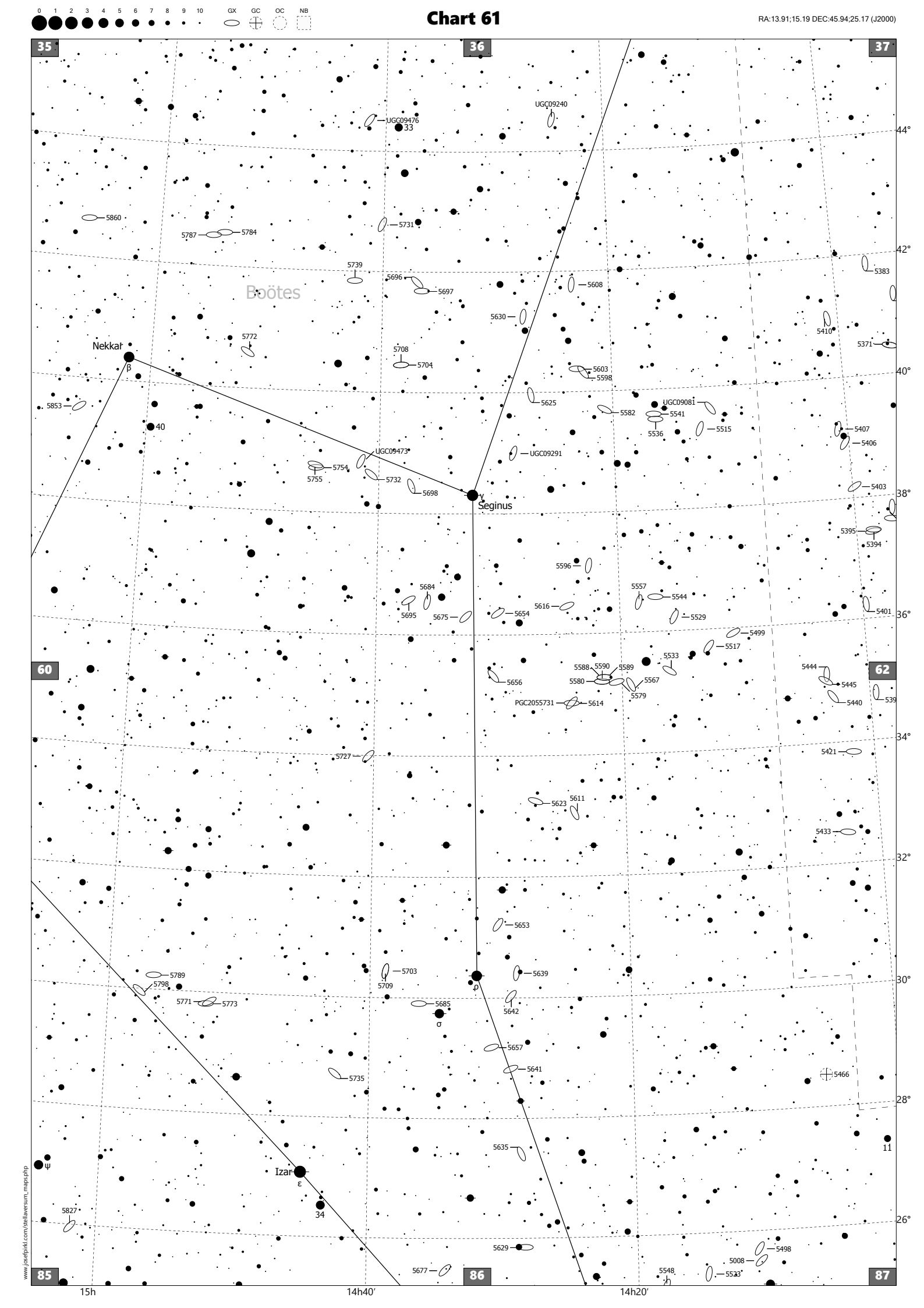
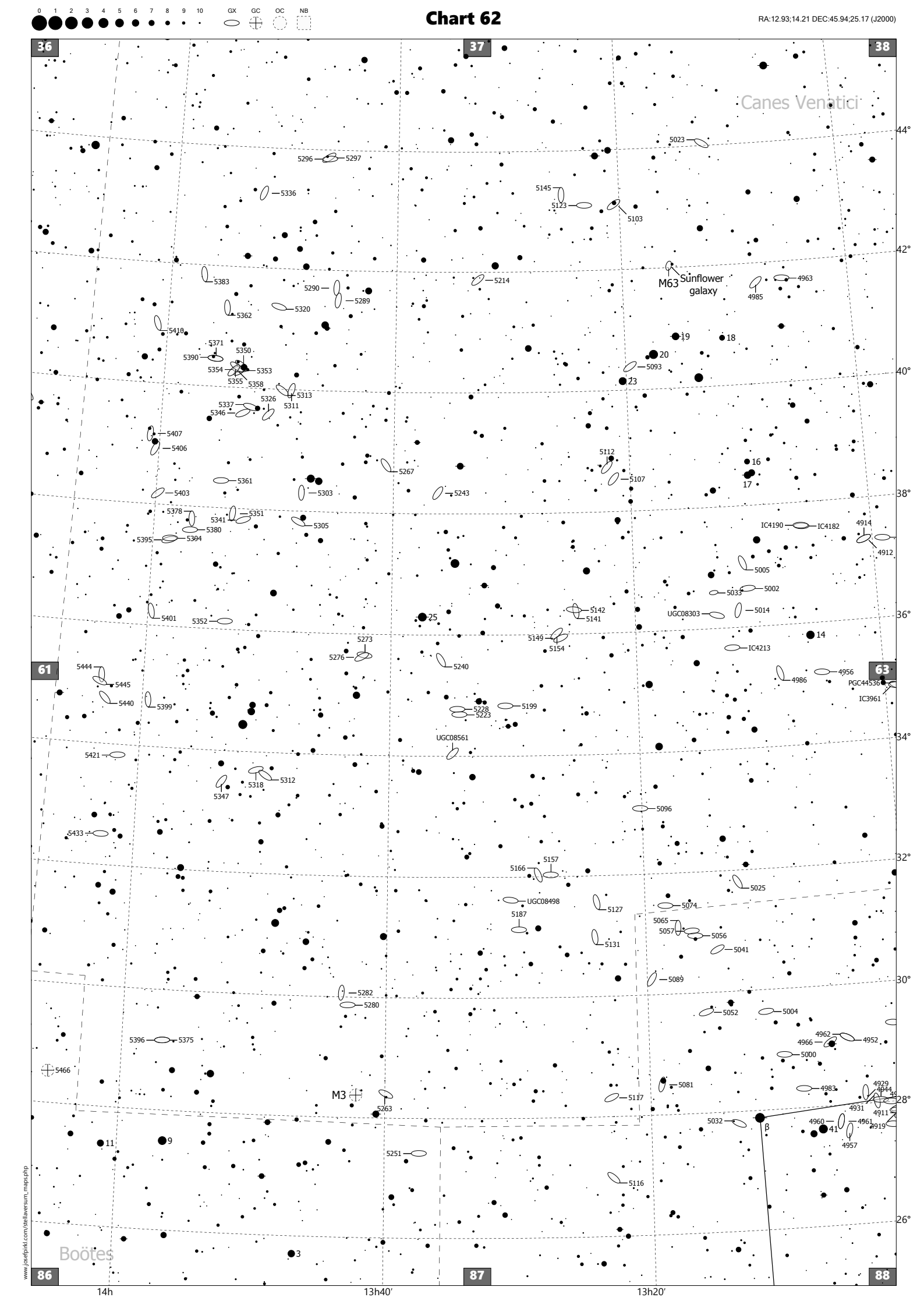
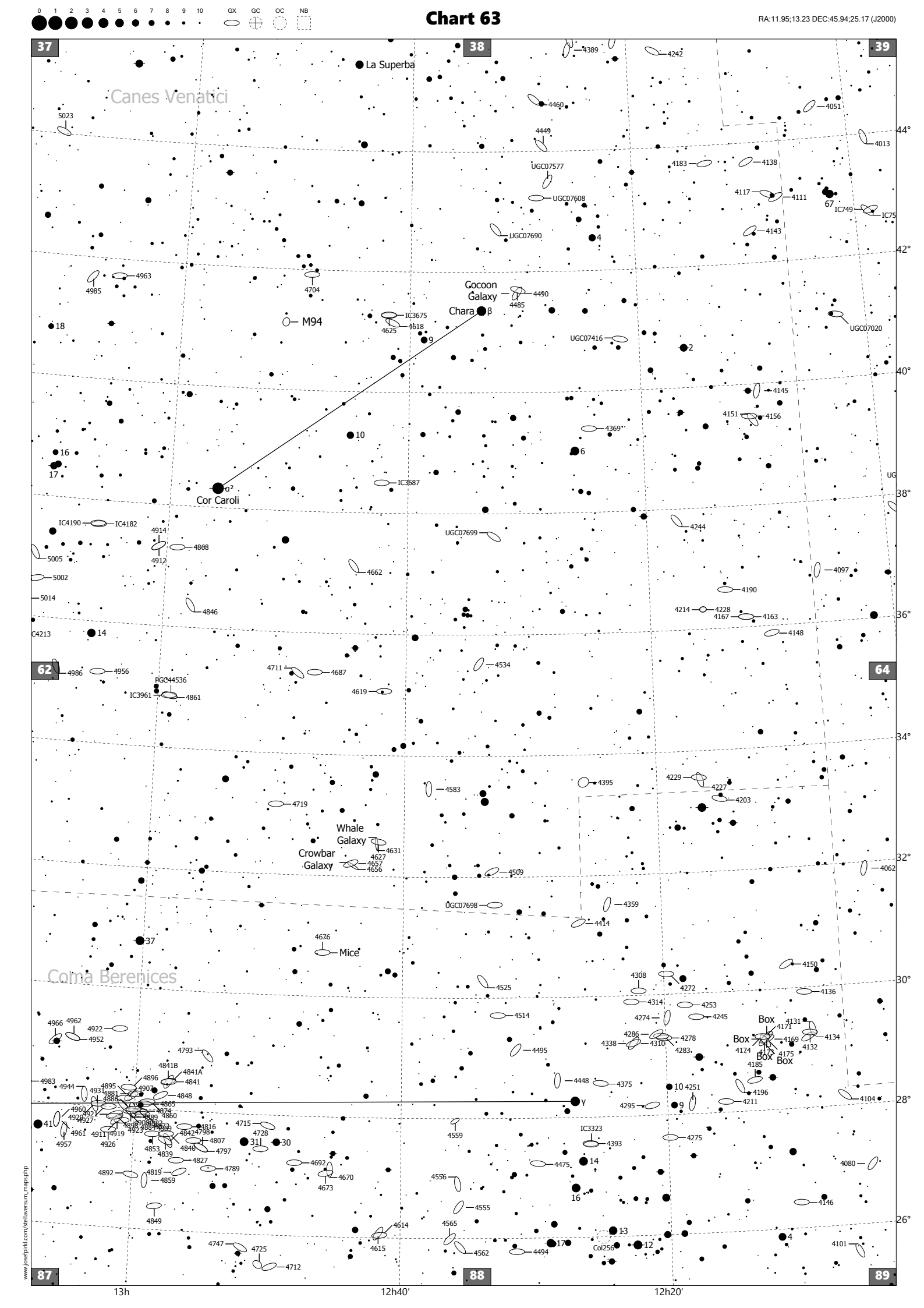
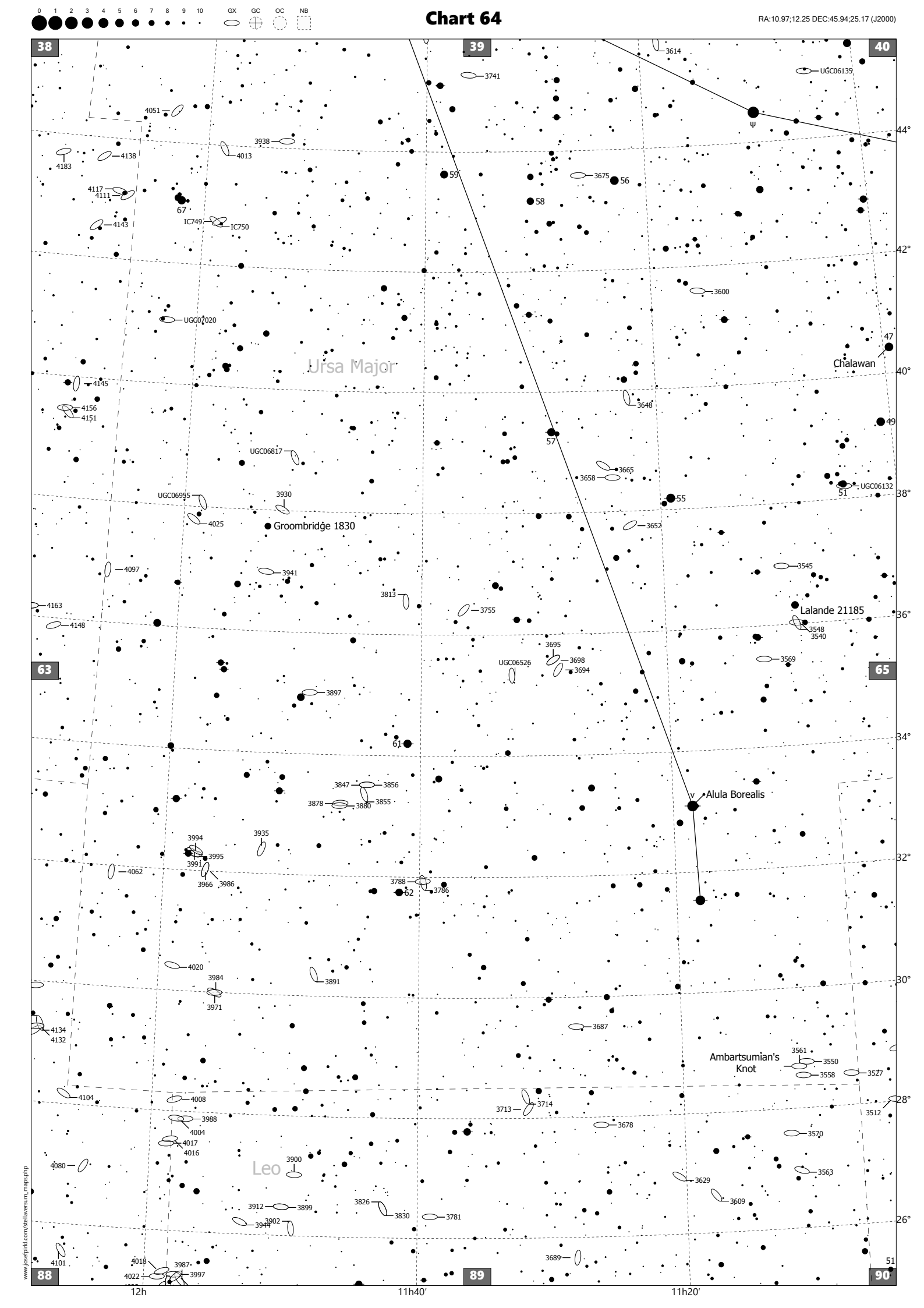


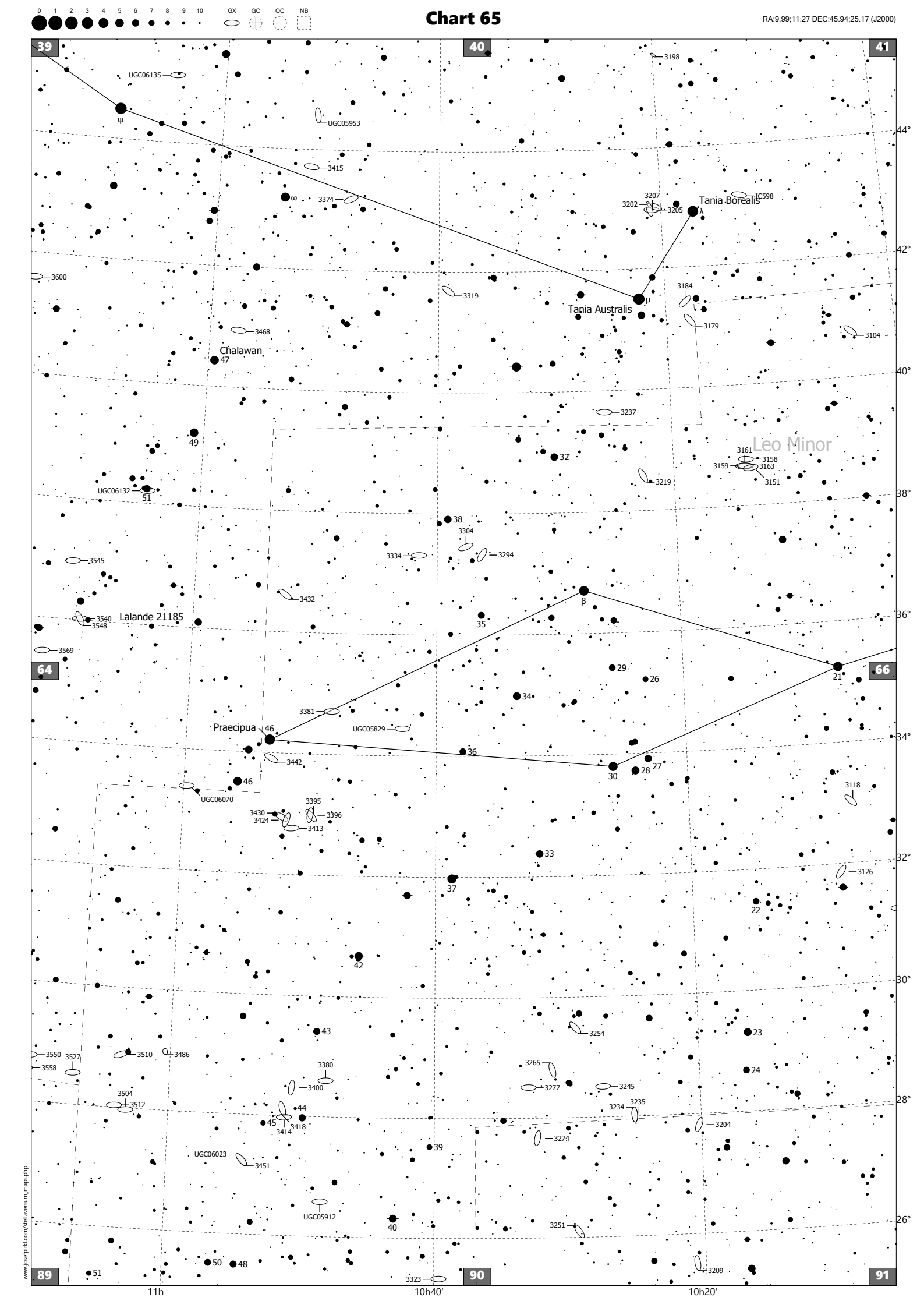
www.jsefpirkl.com/stellaversum_maps.php

15h 14h40' 14h20'


Chart 62
RA:12.93;14.21 DEC:45.94;25.17 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
36
37
38
61
63
86
87
88
Canes Venatici
Boötes
M63
Sunflower
galaxy
M3
5023
5296
5297
5336
5145
5123
5103
5214
5383
5290
5289
5320
5362
5410
4963
4985
5371
5350
5390
5354
5353
5355
5358
5313
5326
5311
5337
5346
19
18
20
5093
23
40°
5407
5406
5112
5267
5107
16
17
5361
5303
5243
5403
38°
5378
5341
5351
5380
5305
5395
5394
IC4190
IC4182
4914
4912
5005
5033
5002
5401
5352
5142
5141
UGC08303
5014
36°
25
5273
5276
5149
5154
14
IC4213
5444
5445
5440
5399
5240
4986
4956
PGC44536
IC3961
5228
5223
5199
UGC08561
34°
5421
5318
5312
5347
5096
5433
32°
5157
5166
5025
UGC08498
5187
5127
5074
5065
5057
5056
5131
5041
5089
30°
5282
5280
5052
5004
5396
5375
4962
4966
4952
5000
5466
5081
4983
4929
4044
5117
28°
5263
5032
β
4960
41
4961
4931
4911
4919
4957
11
9
5251
5116
3
26°
14h
13h40′
13h20′
www.josefpirkl.com/stellaversum_maps.php


Chart 63
RA:11.95;13.23 DEC:45.94;25.17 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
37
38
39
62
64
87
88
89
Canes Venatici
Coma Berenices
La Superba
Gocoon Galaxy
Chara
M94
Cor Caroli
Whale Galaxy
Crowbar Galaxy
Mice
Box
PGC44536
UGC07577
UGC07608
UGC07690
UGC07416
UGC07699
UGC07698
IC3675
IC3687
IC4190
IC4182
IC3961
IC749
IC3323
Col256
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
13h
12h40'
12h20'
www.josefpirkl.com/stellaversum_maps.php


Chart 64
RA:10.97;12.25 DEC:45.94;25.17 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
38
39
40
63
65
88
89
90
Ursa Major
Leo
Chalawan
Groombridge 1830
Lalande 21185
Alula Borealis
Ambartsumian's Knot
Ψ
ν
59
58
56
67
57
55
47
49
51
61
62
IC749
IC750
UGC07020
UGC06817
UGC06955
UGC06526
UGC06135
UGC06132
3614
3741
4051
3938
4013
4183
4138
4117
4111
4143
3675
3600
4145
4156
4151
3648
3665
3658
3930
4025
3652
4097
3941
3545
3813
3755
4163
4148
3548
3540
3695
3698
3694
3569
3897
3847
3856
3878
3880
3855
3994
3995
3991
3935
4062
3966
3986
3788
3786
4020
3984
3971
3891
4134
4132
3687
3561
3550
3558
3527
4104
4008
3988
4004
4017
4016
3713
3714
3678
3512
3570
4080
3900
3563
3629
3912
3899
3826
3830
3781
3609
3902
3944
4101
4018
3987
4022
3997
3689
12h
11h40′
11h20′
www.josefpirkl.com/stellaversum_maps.php


0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 65
RA:9.99;11.27 DEC:45.94;25.17 (J2000)
39
40
41
64
66
89
90
91
UGC06135
UGC05953
3198
3415
3374
ω
3207
3202
3205
Tania Borealis
IC598
λ
3600
3319
μ
Tania Australis
3184
3179
3104
3468
Chalawan
47
3237
49
Leo Minor
3161
3158
3159
3163
3151
3219
UGC06132
51
38
3304
3334
3294
3545
3432
β
3540
3548
Lalande 21185
35
3569
29
26
21
34
3381
Praecipua
46
UGC05829
36
3442
30
28
27
46
UGC06070
3118
3395
3430
3424
3396
3413
33
3126
37
22
42
43
3254
23
3550
3527
3510
3486
3558
3380
3265
24
3400
3277
3245
3504
3512
3234
3235
44
45
3414
3418
3204
3274
UGC06023
3451
39
UGC05912
40
3251
50
48
51
3323
3209
11h
10h40′
10h20′
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
www.josefpirkl.com/stellaversum_maps.php

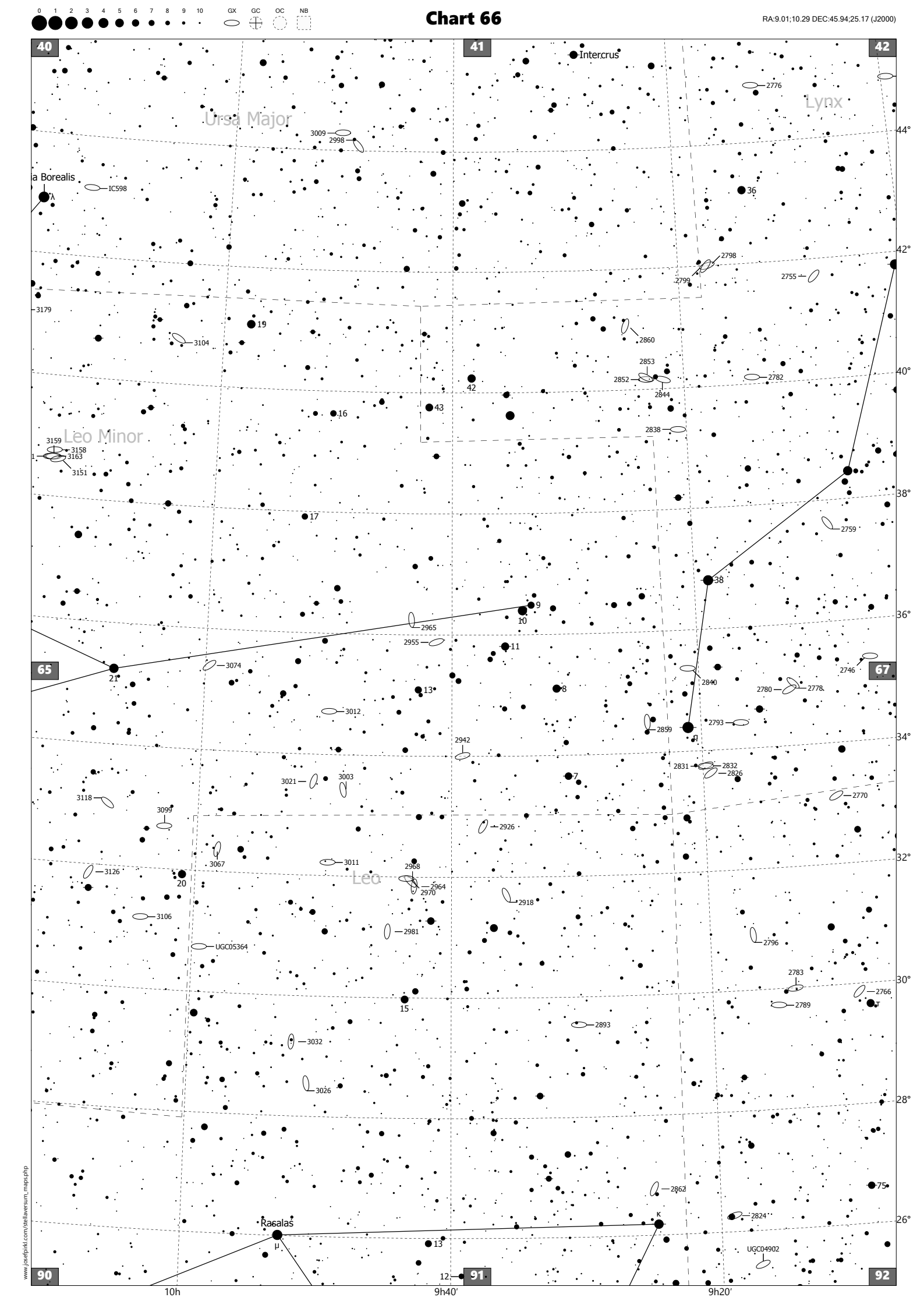
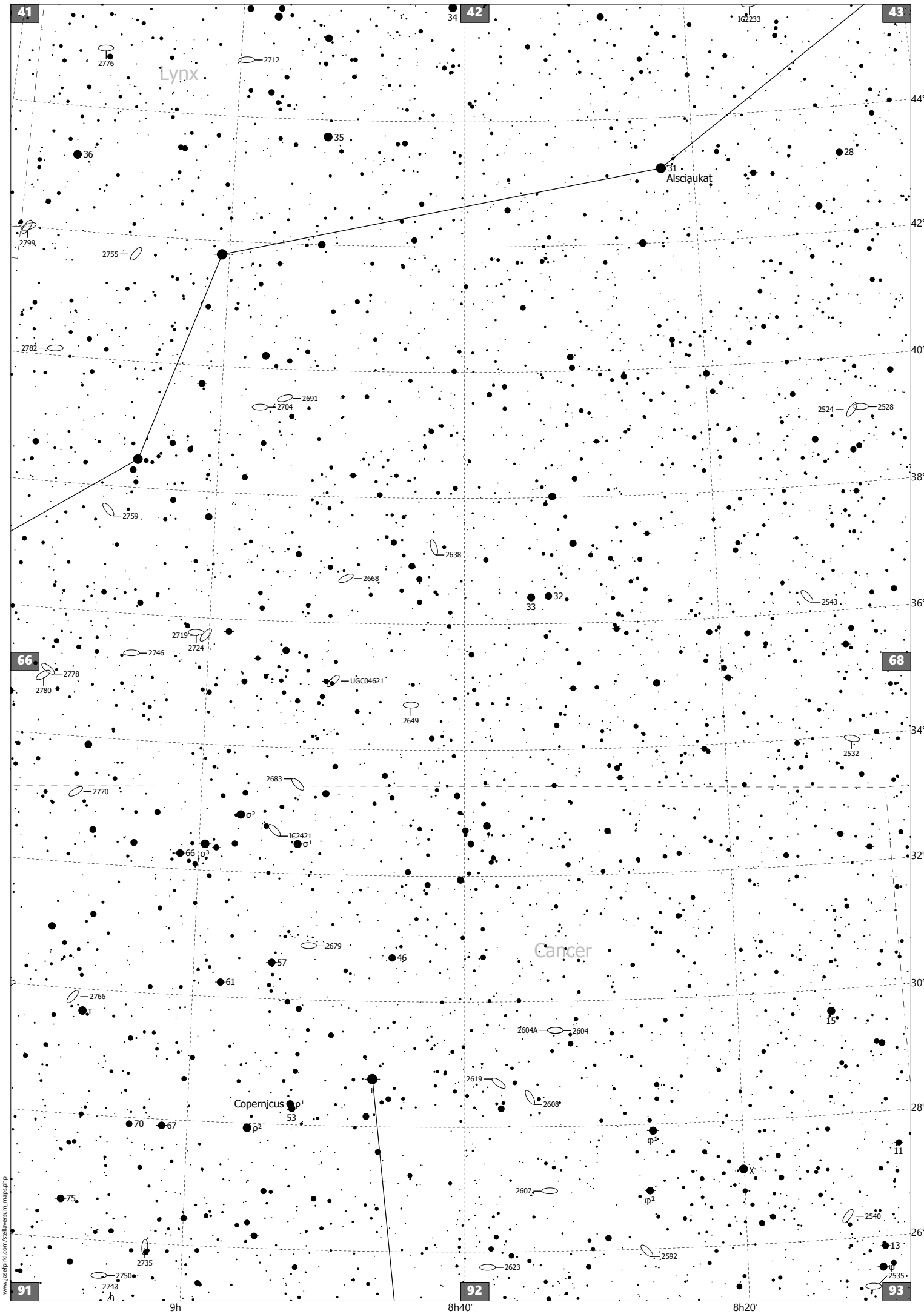
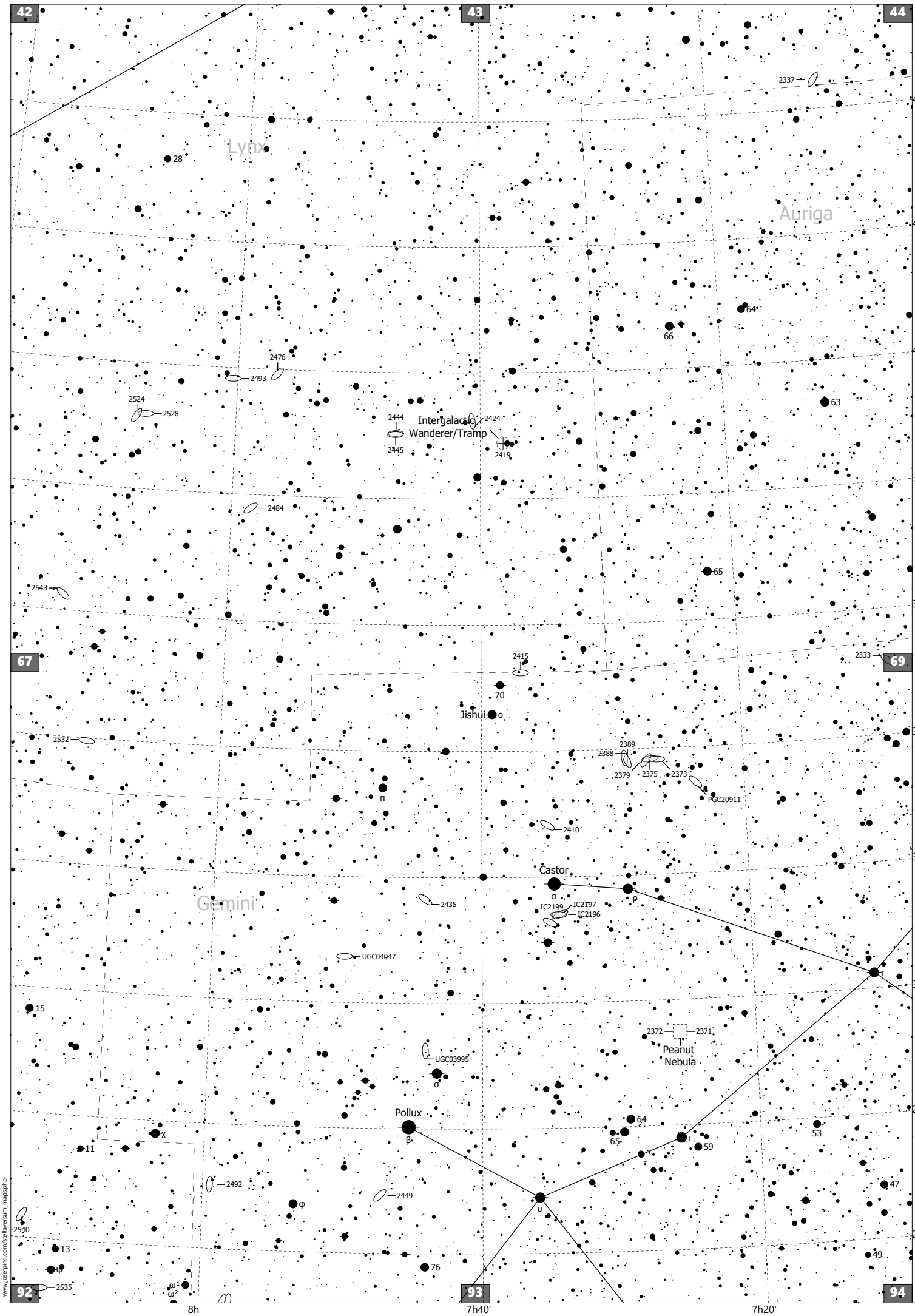

Chart 66
RA:9.01;10.29 DEC:45.94;25.17 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
40
41
42
65
67
90
91
92
Intercrus
Ursa Major
Lynx
Leo Minor
Leo
a Borealis
IC598
Rasalas
UGC05364
UGC04902
10h
9h40'
9h20'
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
www.josefpirkl.com/stellaversum_maps.php

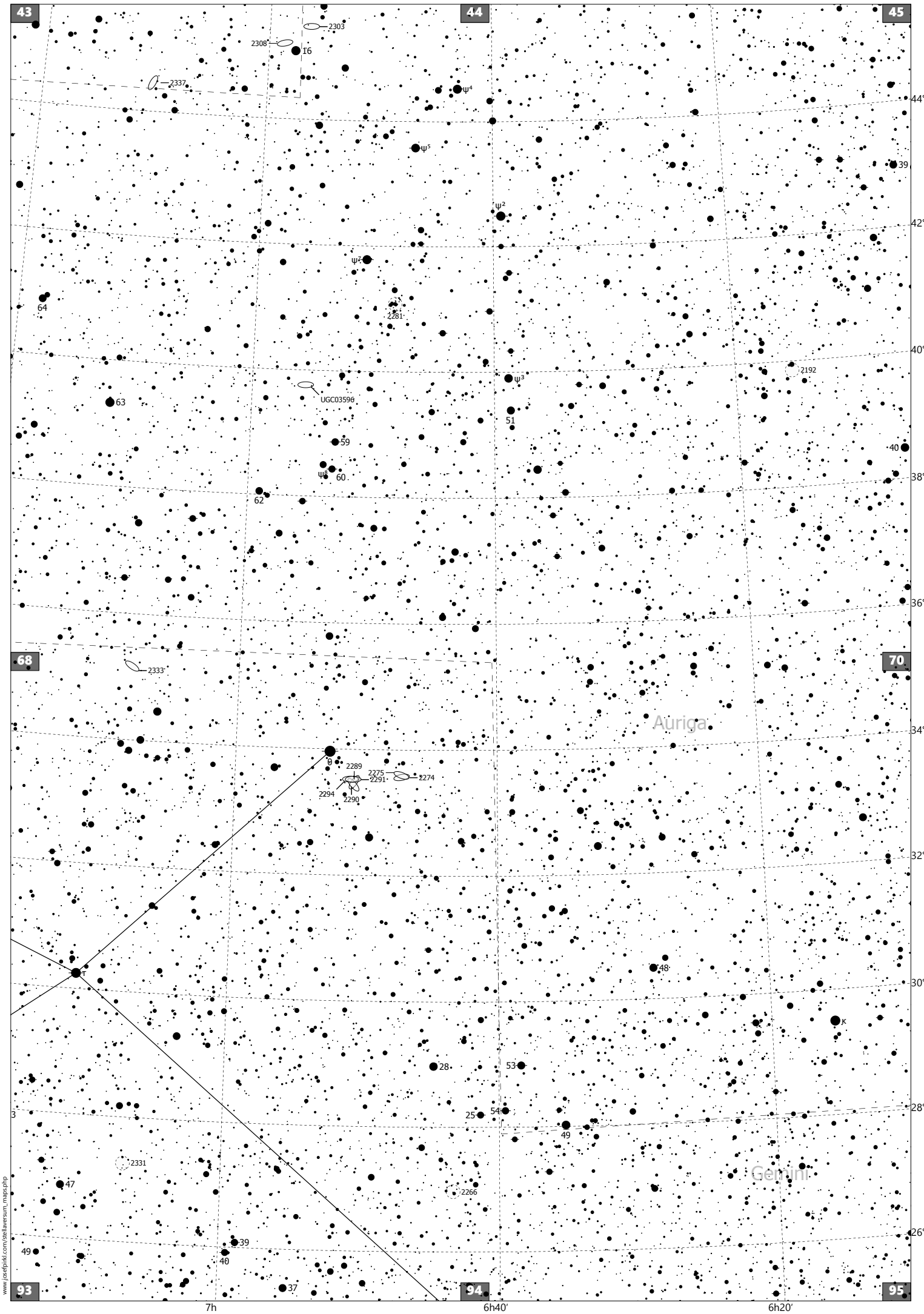
Chart 67

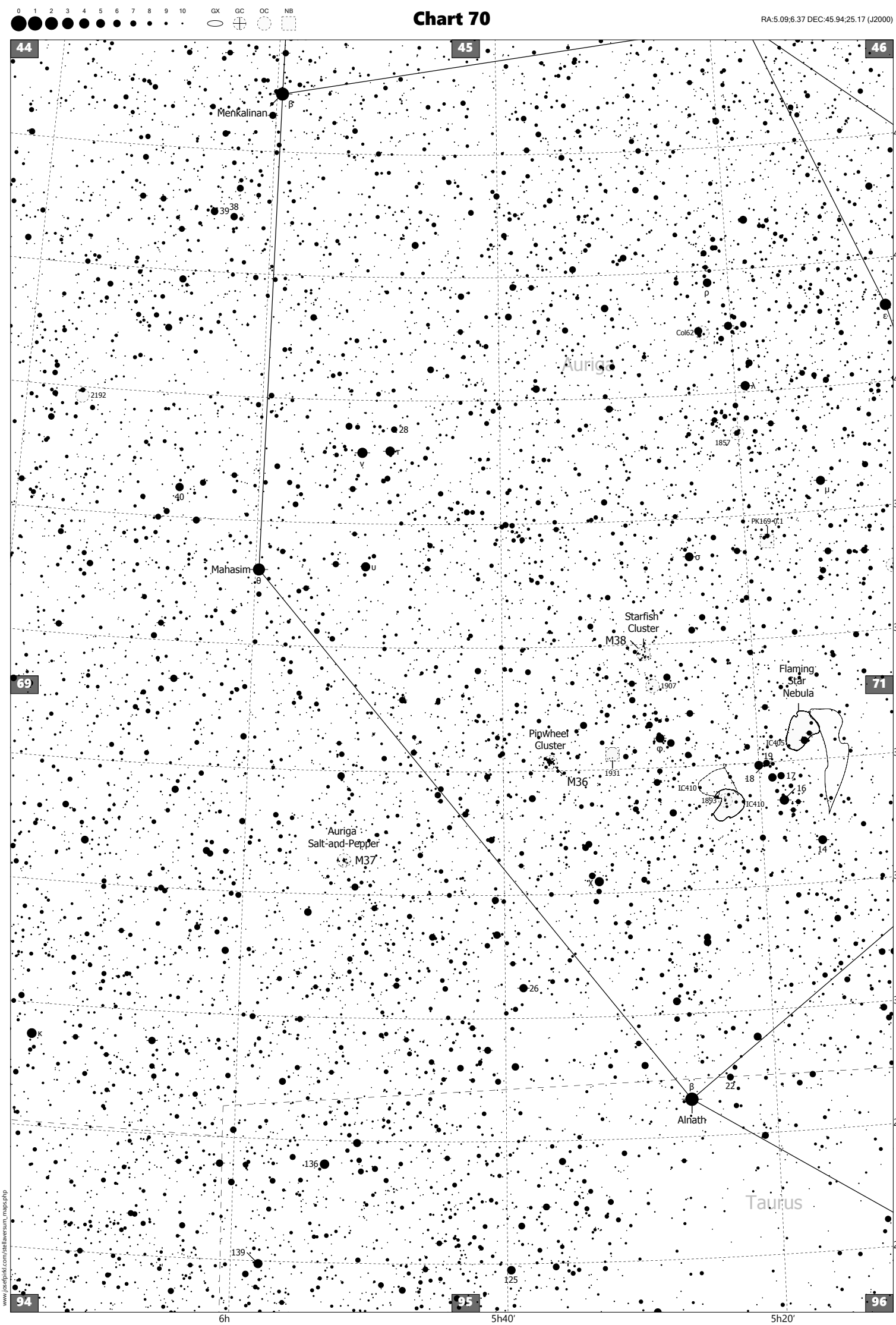
RA:8.03;9.31 DEC:45.94;25.17 (J2000)

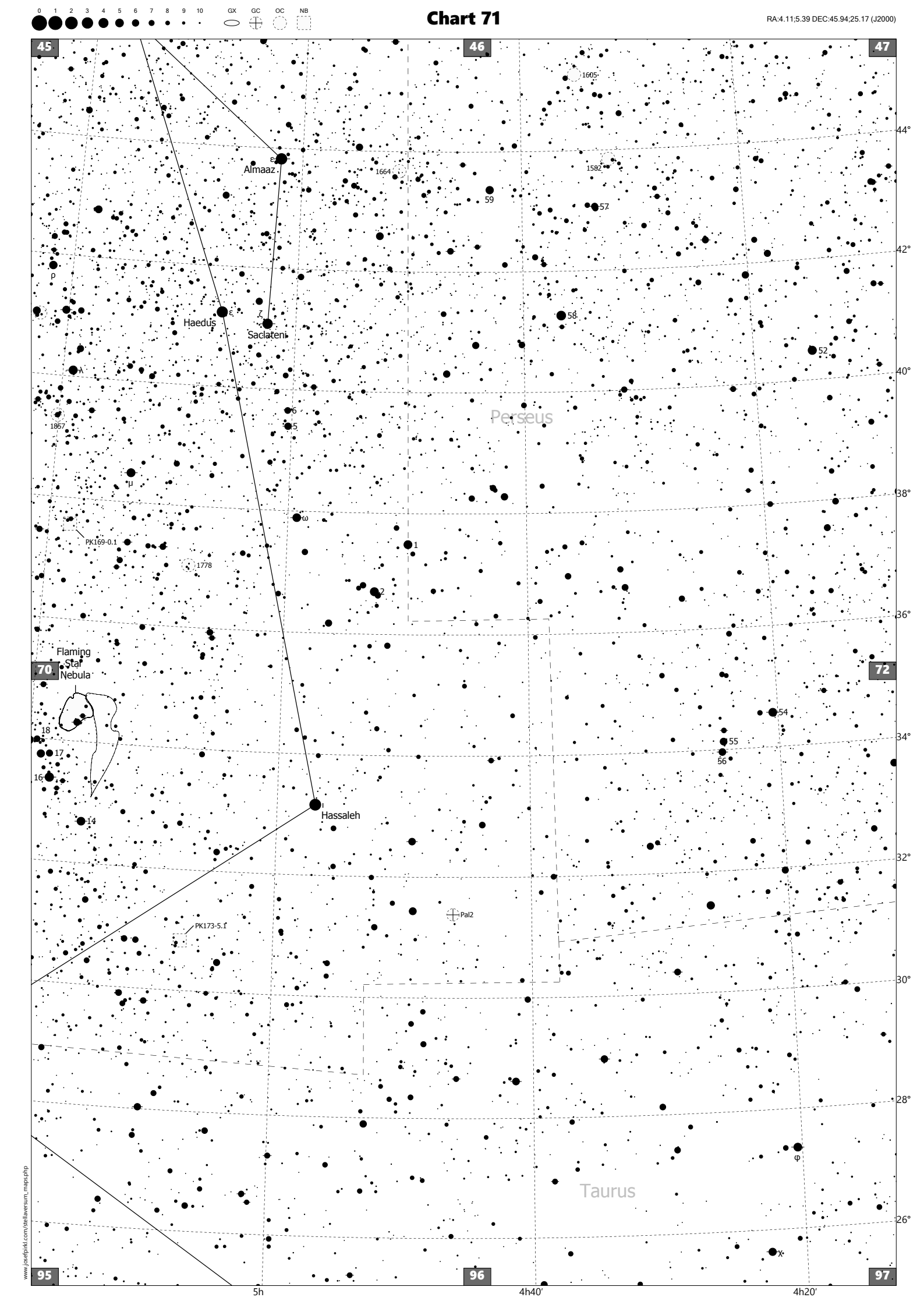


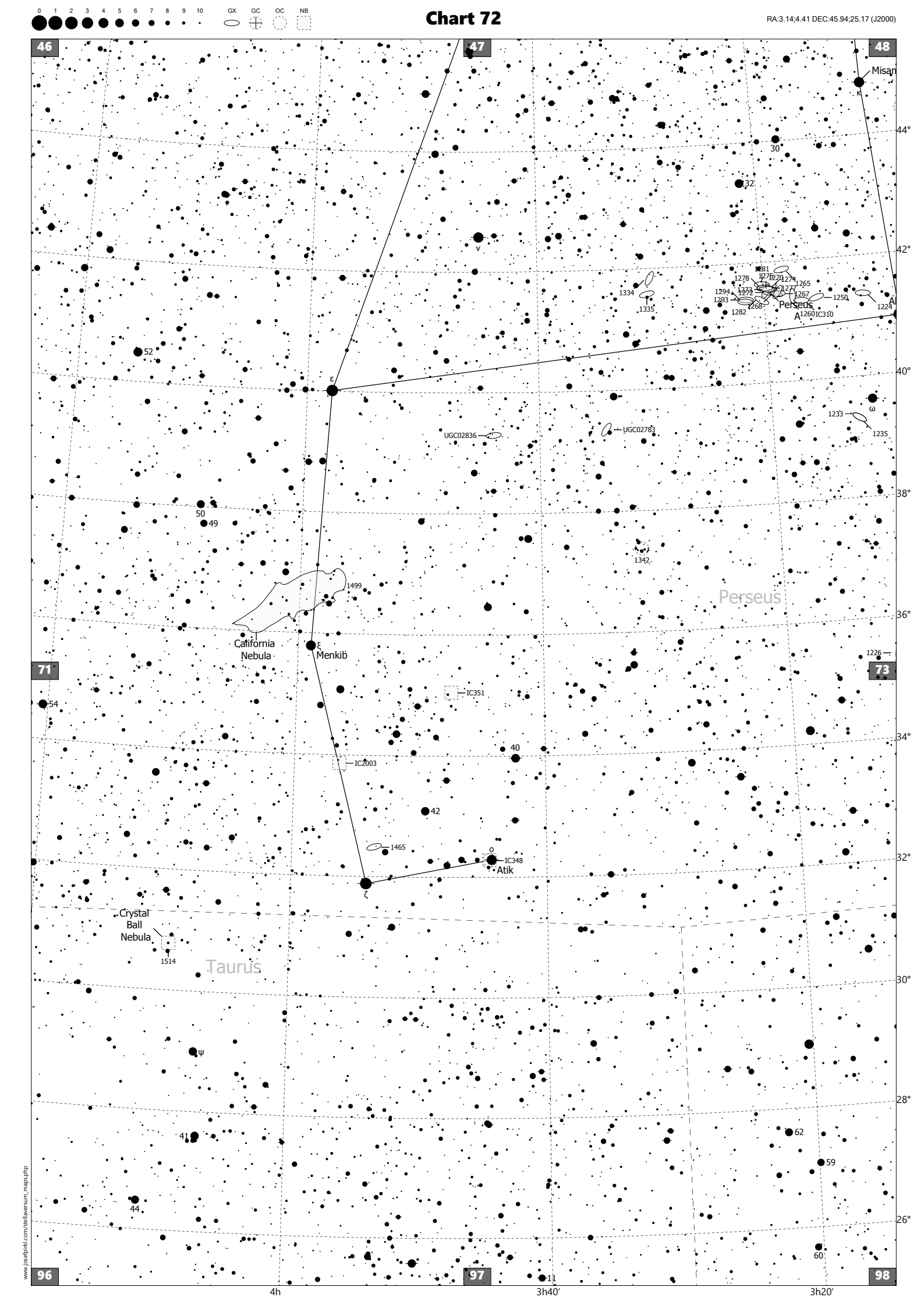
www.jsefpirkl.com/stellaversum_maps.php


Chart 68
RA:7.05;8.33 DEC:45.94;25.17 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
42
43
44
67
69
92
93
94
Lynx
Auriga
Gemini
Intergalactic
Wanderer/Tramp
Jishui
Castor
Pollux
Peanut
Nebula
PGC20911
UGC04047
UGC03995
IC2199
IC2197
IC2196
2337
2476
2493
2524
2528
2444
2445
2424
2419
2484
2543
2415
2333
2532
2389
2388
2379
2375
2373
2410
2435
2372
2371
2492
2449
2540
2535
28
66
64
63
70
65
15
11
13
76
53
59
47
49
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
8h
7h40′
7h20′
www.josefpirkl.com/stellaversum_maps.php


Chart 69
RA:6.07;7.35 DEC:45.94;25.17 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
43
44
45
68
70
93
94
95
Auriga
Gemini
2303
2308
16
2337
ψ4
ψ5
39
ψ2
42°
ψ1
64
2281
40°
2192
ψ3
UGC03596
63
51
59
40
ψ6
60
38°
62
36°
2333
34°
θ
2289
2275
2291
2274
2294
2290
32°
48
30°
κ
28
53
28°
25
54
49
2331
47
2266
26°
49
39
40
37
3
7h
6h40′
6h20′


0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 70
RA:5.09;6.37 DEC:45.94;25.17 (J2000)
44
45
46
69
71
94
95
96
Menkalinan
β
Mahasim
θ
Auriga
Starfish Cluster
M38
Flaming Star Nebula
Pinwheel Cluster
M36
Auriga Salt-and-Pepper
M37
Alnath
β
Taurus
Col62
IC405
IC410
IC410
PK169-0.1
2192
1857
1907
1931
1893
39
38
28
40
26
22
19
18
17
16
14
136
139
125
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
6h
5h40′
5h20′
www.jsfdpinkl.com/stellaversum_maps.php


0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 71
RA:4.11;5.39 DEC:45.94;25.17 (J2000)
45
46
47
70
72
95
96
97
Almaaz
Haedus
Saclateni
Hassaleh
Flaming Star Nebula
Perseus
Taurus
Pal2
PK169-0.1
PK173-5.1
1605
1664
1582
1857
1778
59
57
58
52
54
55
56
18
17
16
14
1
2
6
5
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
5h
4h40′
4h20′
www.jsdfprkl.com/stellaversum_maps.php


0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 72
RA:3.14;4.41 DEC:45.94;25.17 (J2000)
46
47
48
71
73
96
97
98
Misan
κ
30
32
ν
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
1334
1335
1281
1278
1276
1270
1274
1265
1294
1273
1277
1293
1267
1250
1268
1282
Perseus A
1260
IC310
1224
52
ε
UGC02836
UGC02783
1233
ω
1235
50
49
1342
Perseus
1499
California Nebula
ξ
Menkib
1226
IC351
54
40
IC2003
42
1465
ο
IC348
Atik
ζ
Crystal Ball Nebula
1514
Taurus
ψ
41
62
59
44
60
11
4h
3h40′
3h20′
www.jsfdpinkl.com/stellaversum_maps.php

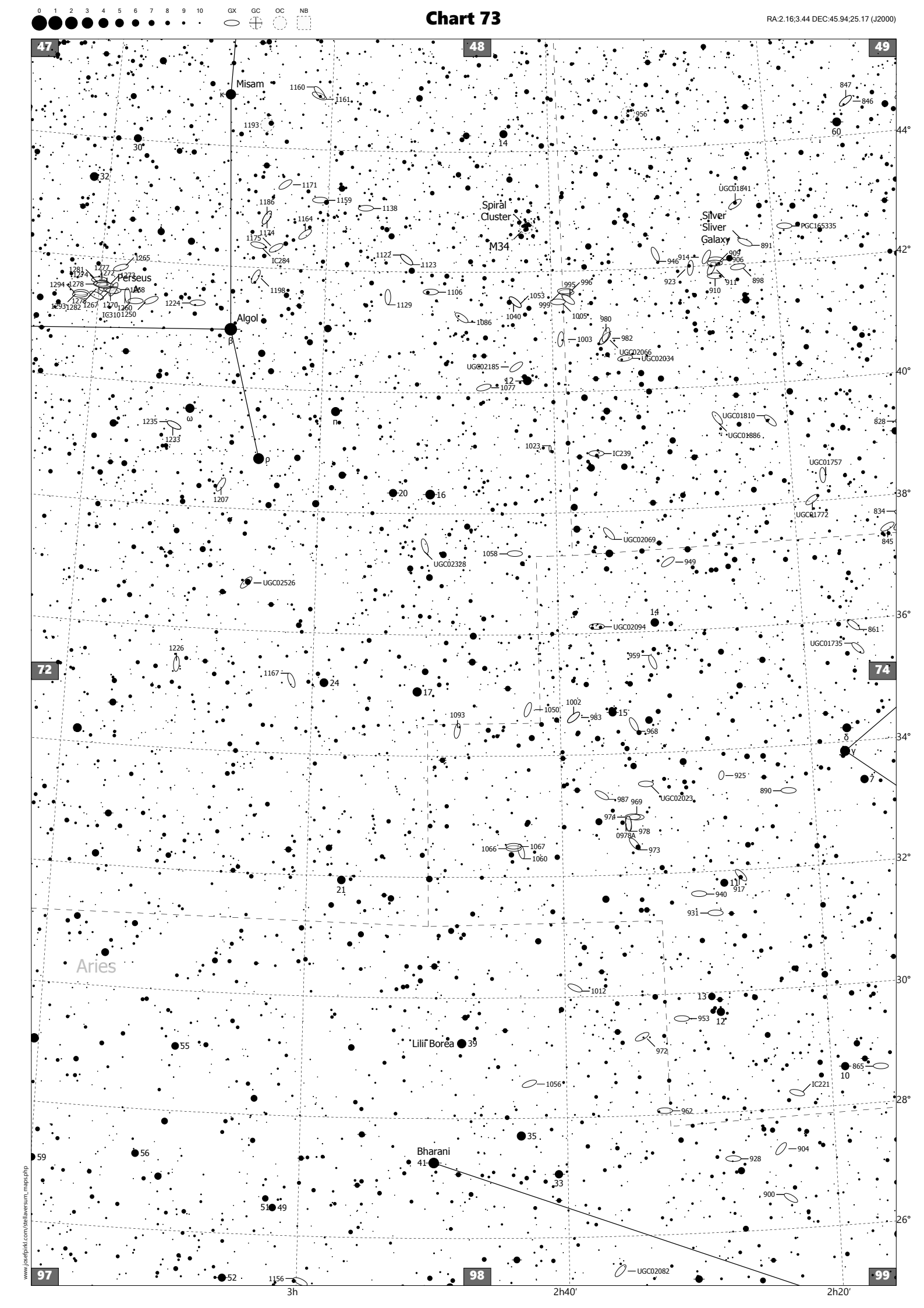
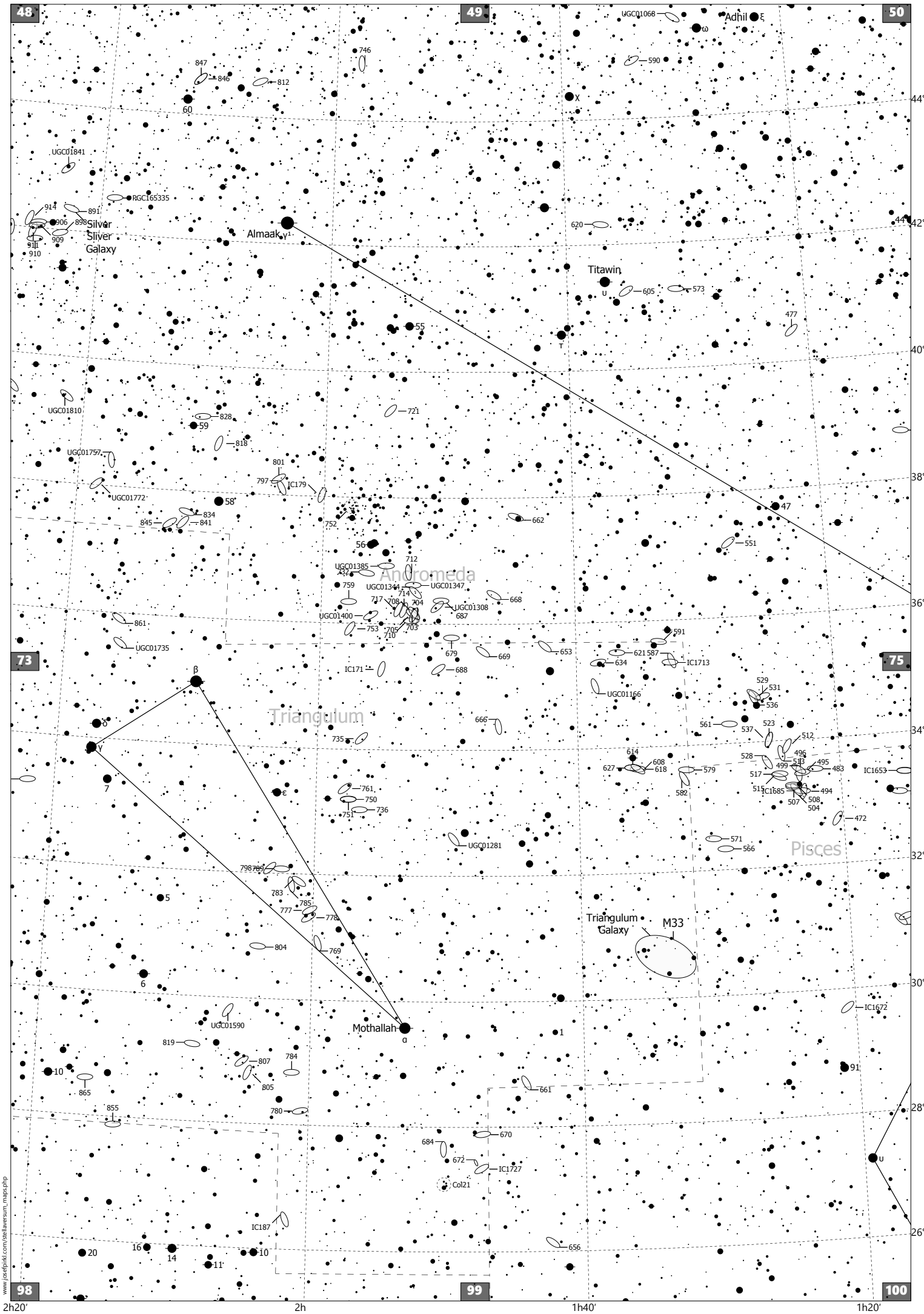

Chart 73
RA:2.16;3.44 DEC:45.94;25.17 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
47
48
49
72
74
97
98
99
Misam
Algol
Perseus
Spiral Cluster
M34
Silver Sliver Galaxy
PGC165335
UGC01841
IC284
IC239
UGC01810
UGC01886
UGC01757
UGC01772
UGC02066
UGC02034
UGC02185
UGC02069
UGC02328
UGC02526
UGC02094
UGC01735
UGC02023
UGC02082
Aries
Lilii Borea
Bharani
IG310
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
3h
2h40'
2h20'
www.jsfelpirkl.com/stellaversum_maps.php

Chart 74

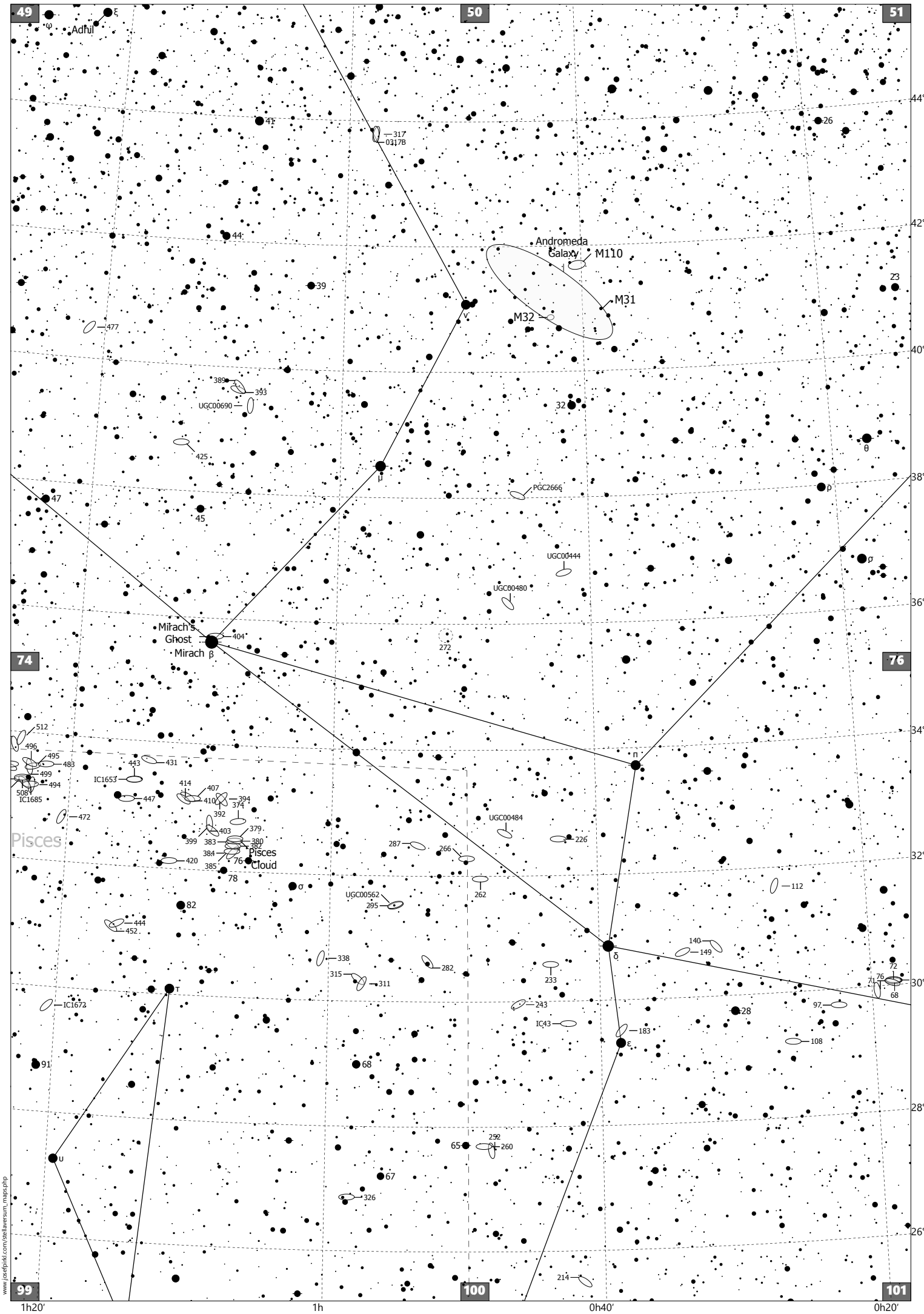
RA:1.18;2.46 DEC:45.94;25.17 (J2000)



www.josfpirkl.com/stellaversum_maps.php

Chart 75

RA:0.20;1.48 DEC:45.94;25.17 (J2000)



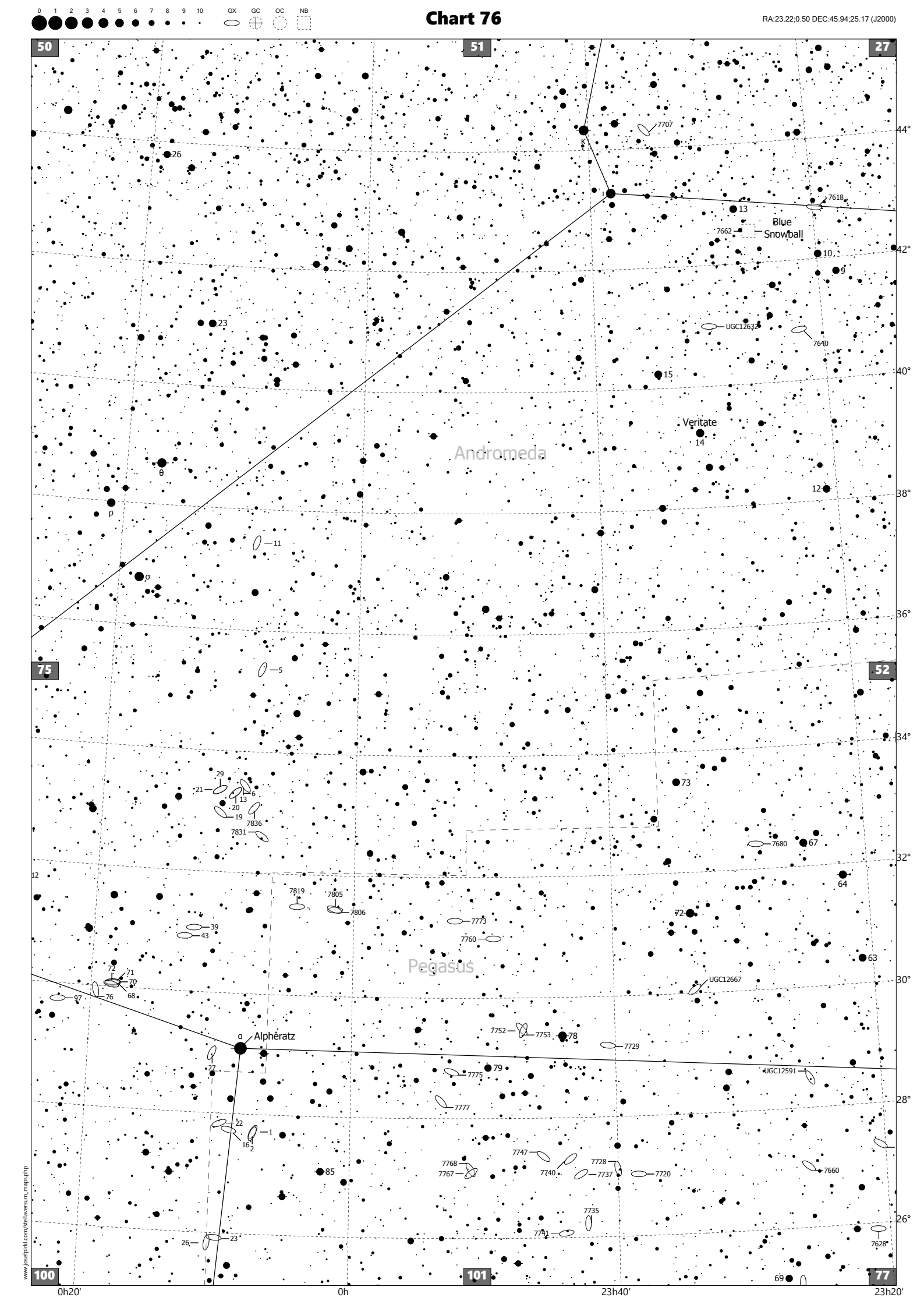
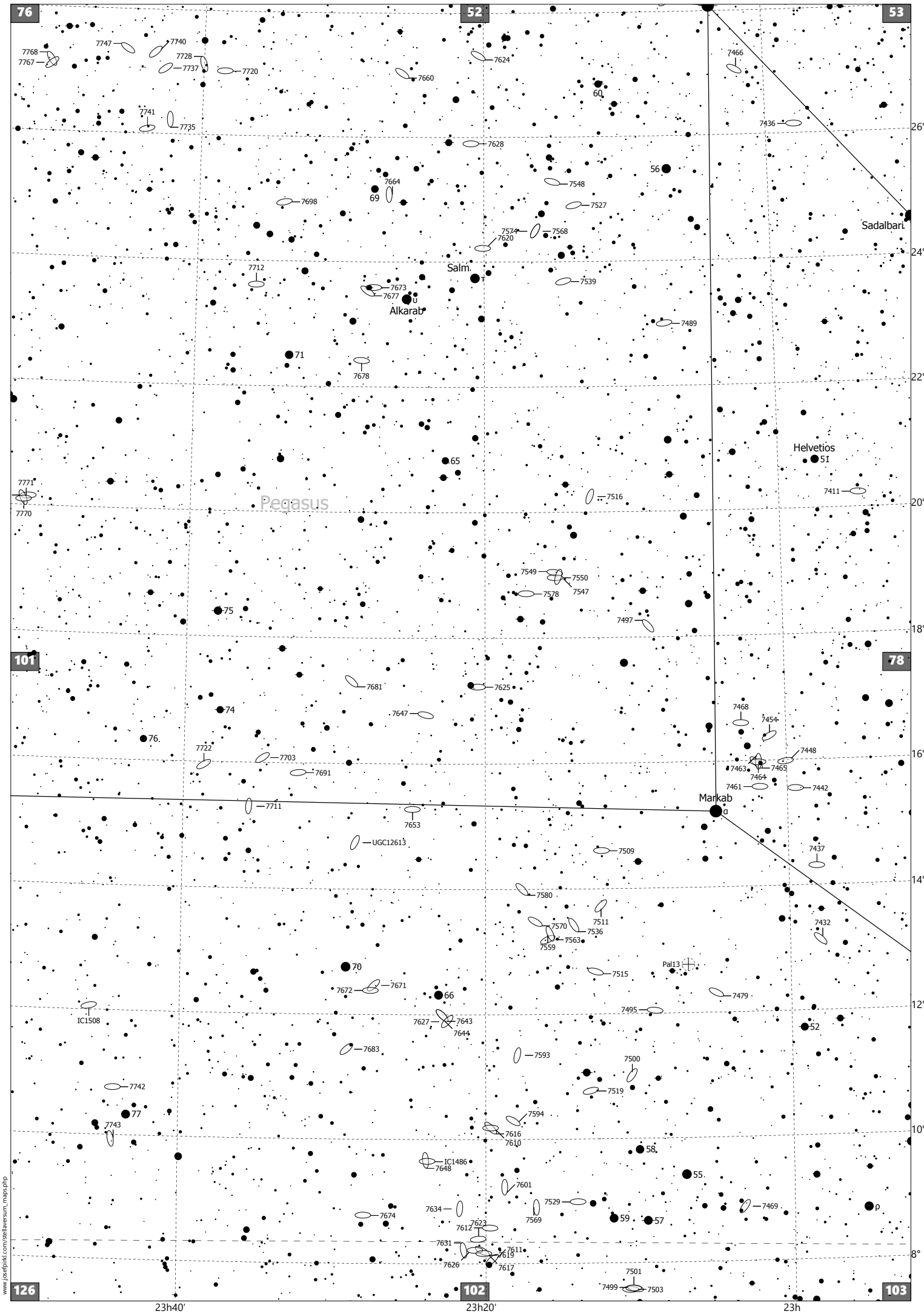

Chart 76
RA:23.22;0.50 DEC:45.94;25.17 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
50
51
27
75
52
100
101
77
Andromeda
Pegasus
Blue Snowball
Veritate
Alpheratz
α
θ
ρ
σ
UGC12632
UGC12667
UGC12591
7707
7618
7662
7640
7836
7831
7819
7805
7806
7773
7760
7680
7752
7753
7729
7775
7777
7747
7768
7767
7740
7728
7737
7720
7660
7735
7741
7628
44°
42°
40°
38°
36°
34°
32°
30°
28°
26°
0h20′
0h
23h40′
23h20′
www.jsefpirkl.com/stellaversum_maps.php

Chart 77

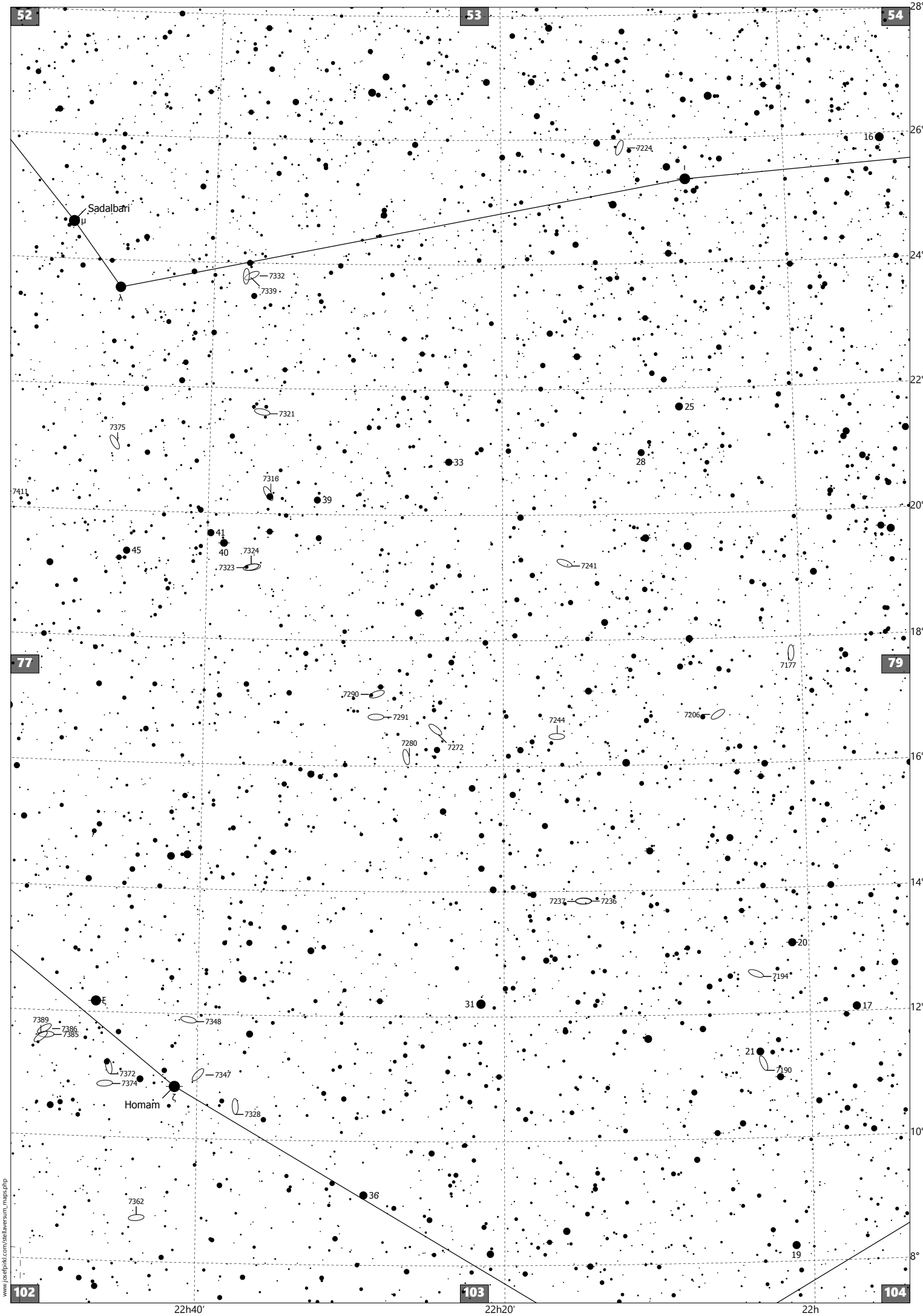
RA:22.72;0.00 DEC:28.17;7.39 (J2000)



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Chart 78

RA:21.74;23.02 DEC:28.17;7.39 (J2000)



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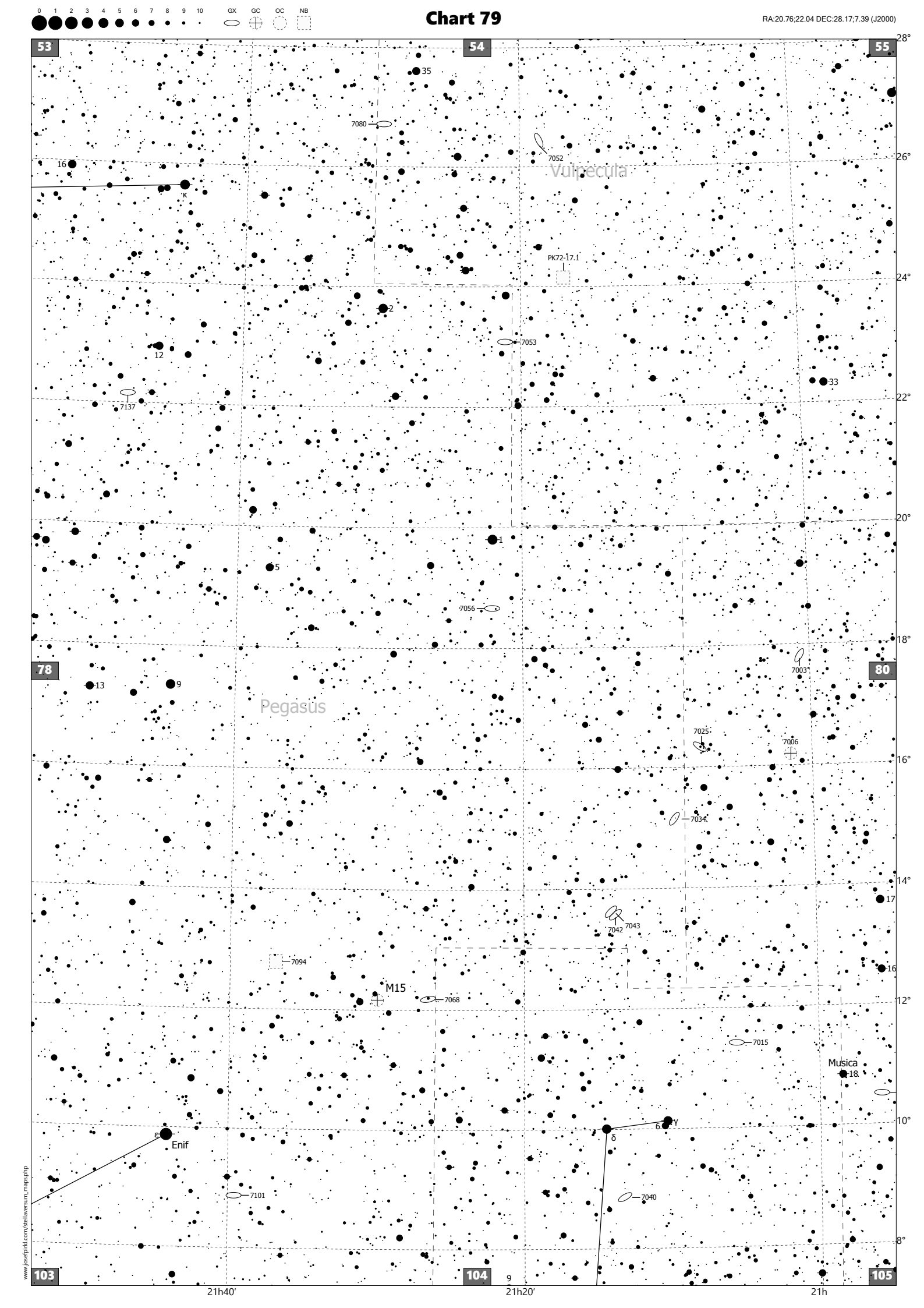
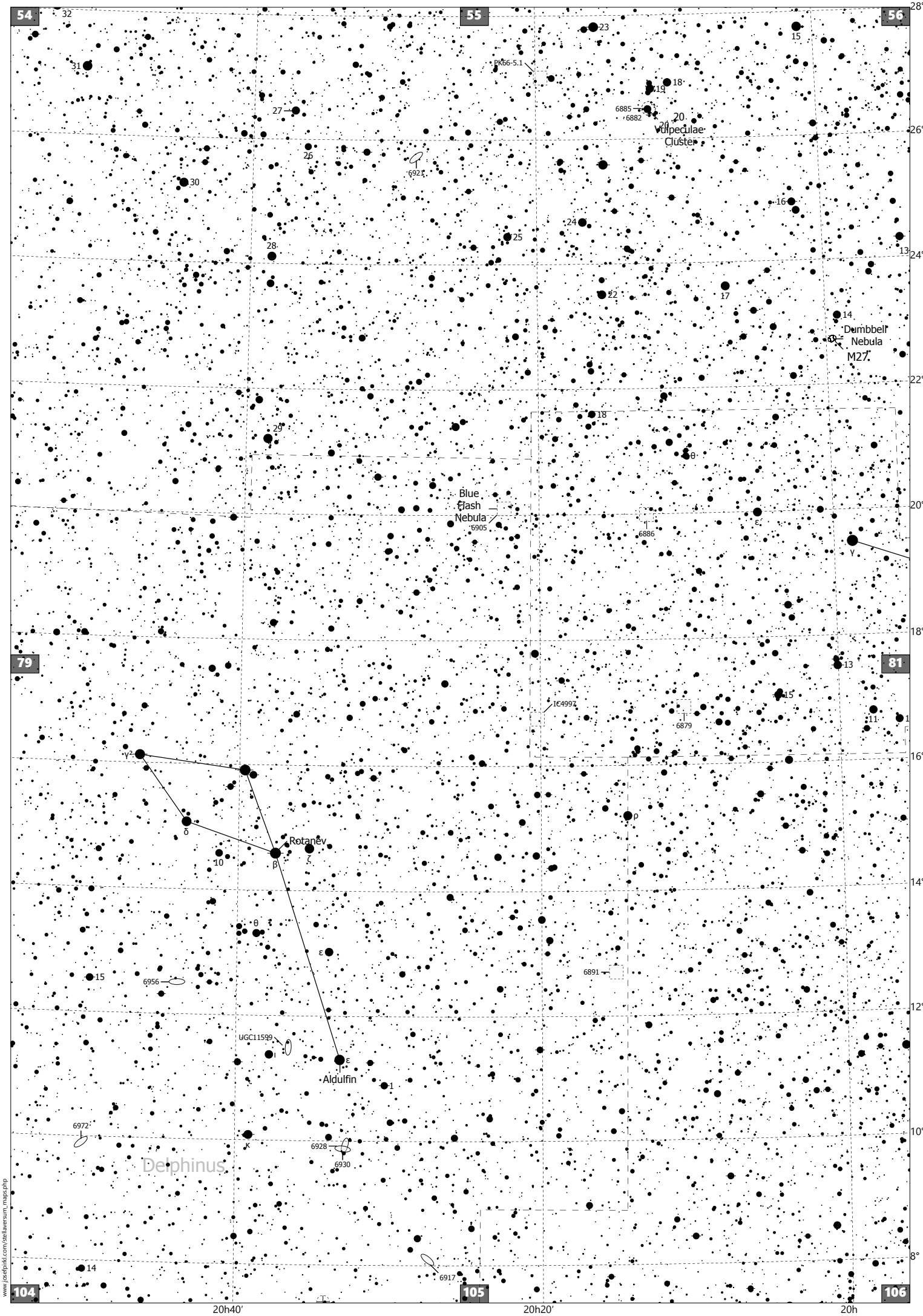
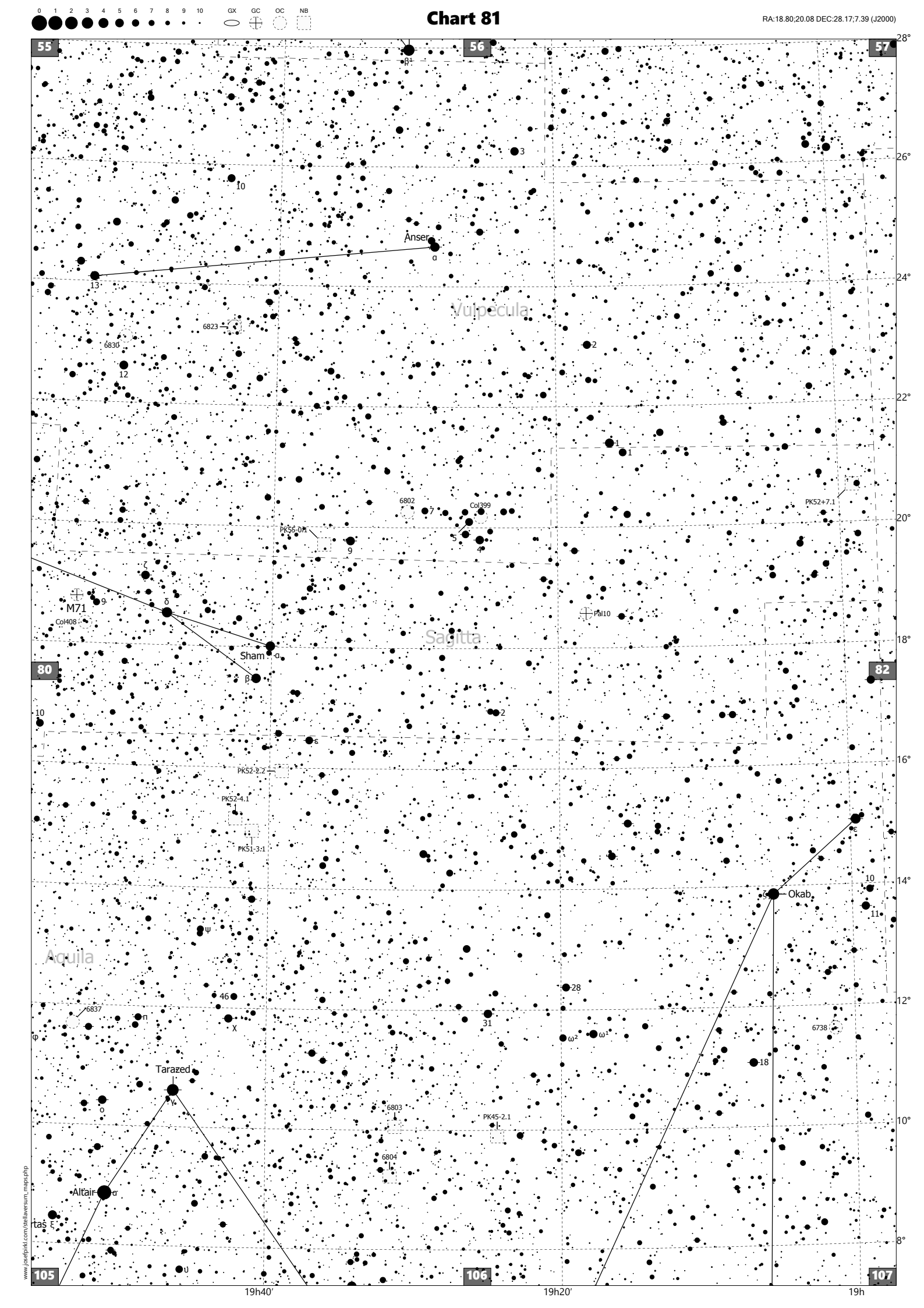

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 79
RA:20.76;22.04 DEC:28.17;7.39 (J2000)
53
54
55
78
80
103
104
105
Vulpecula
Pegasus
Musica
Enif
M15
PK72-17.1
7052
7080
7053
7137
7056
7003
7025
7006
7034
7042
7043
7094
7068
7015
7101
7040
35
16
12
2
33
1
5
13
9
17
18
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
21h40'
21h20'
21h
www.josefpirkl.com/stellaversum_maps.php

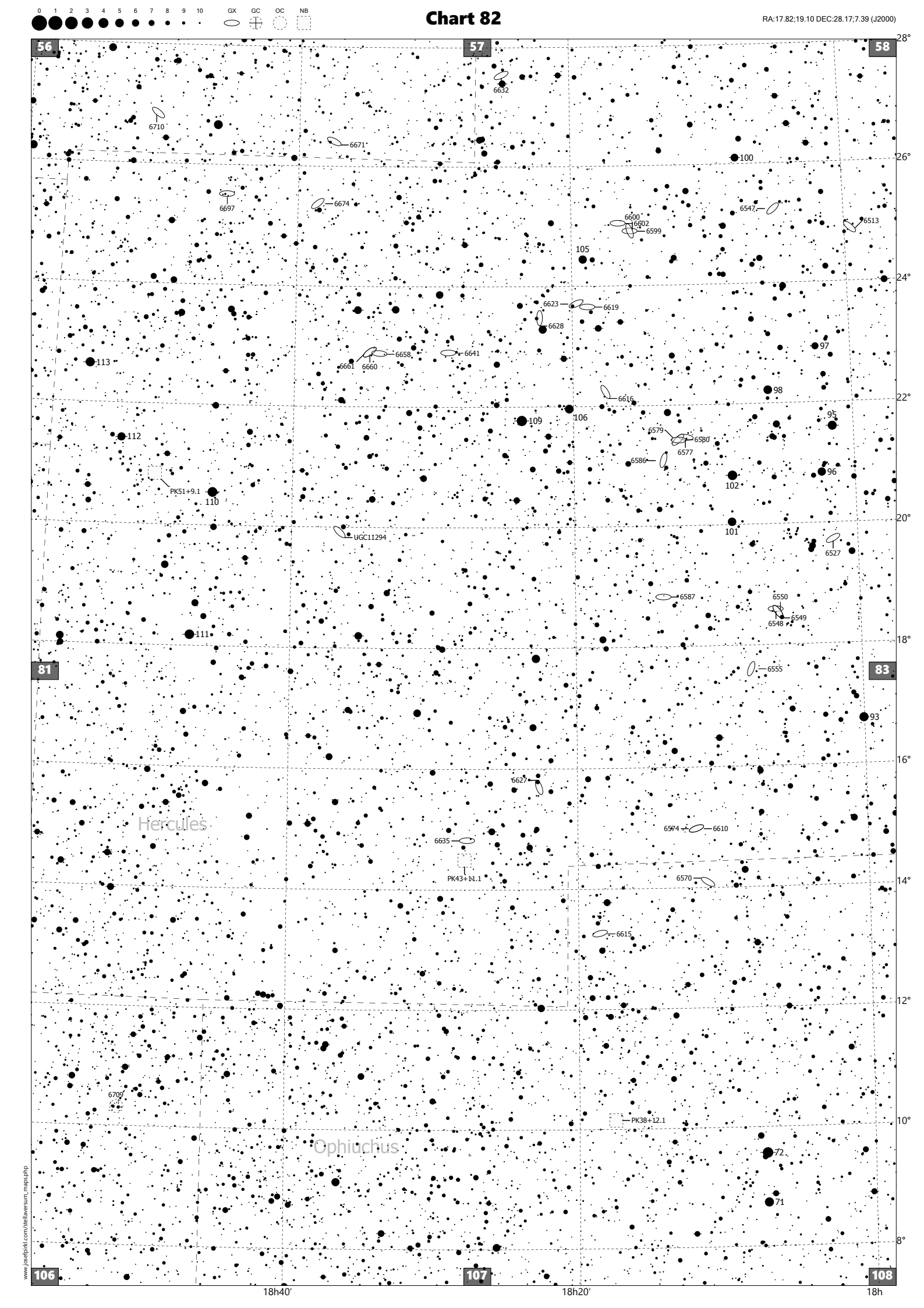
Chart 80

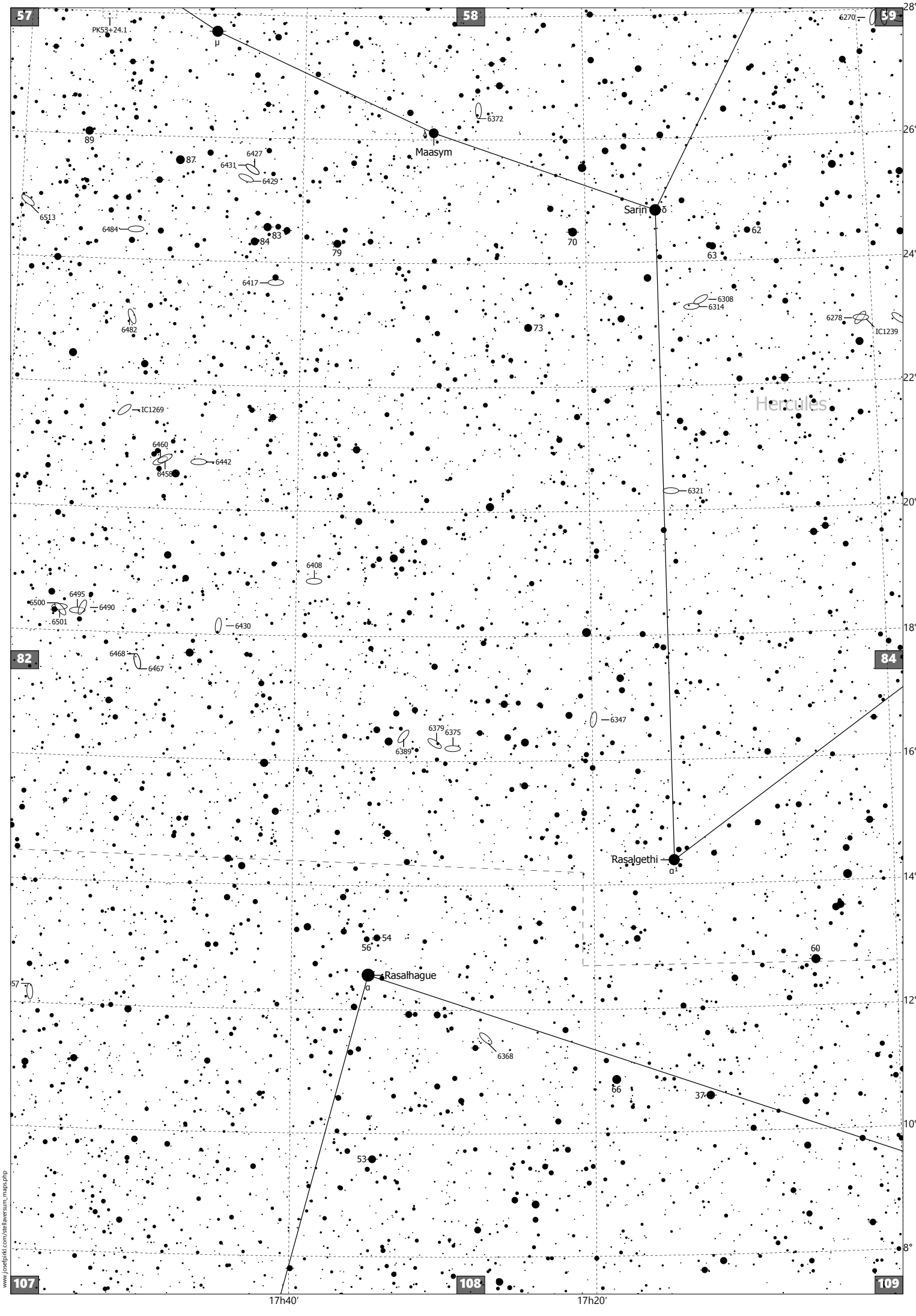
RA:19.78;21.06 DEC:28.17;7.39 (J2000)

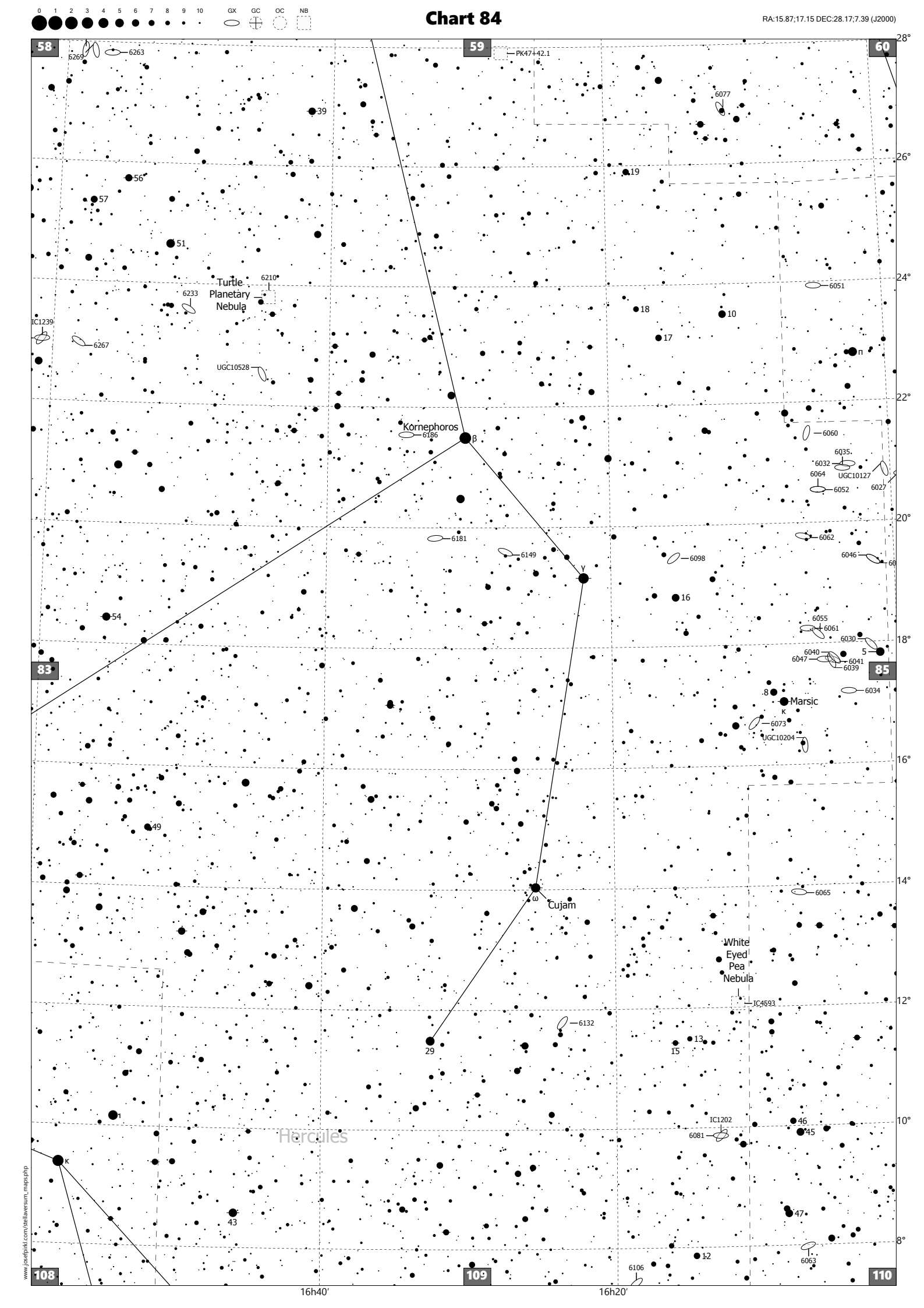


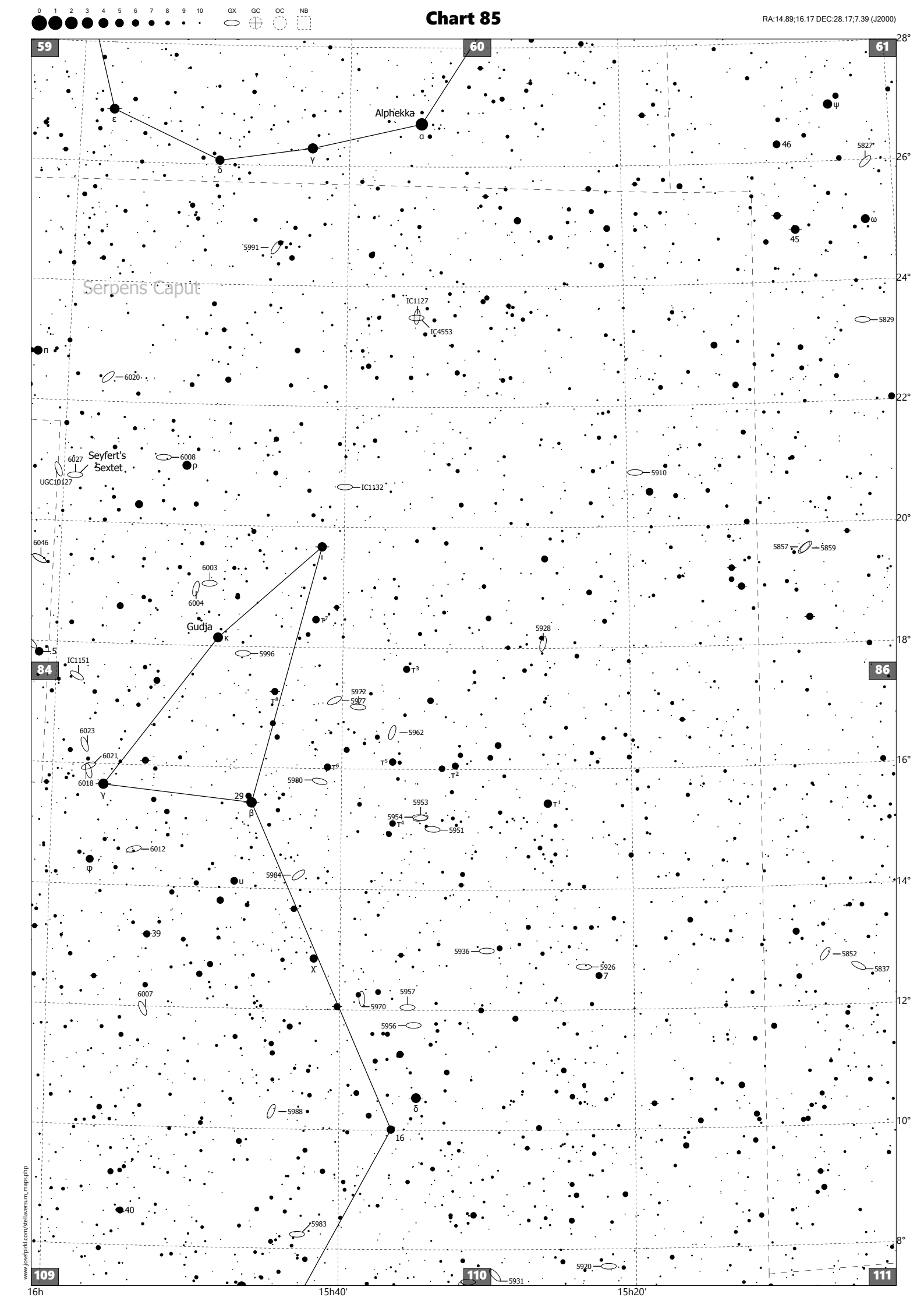
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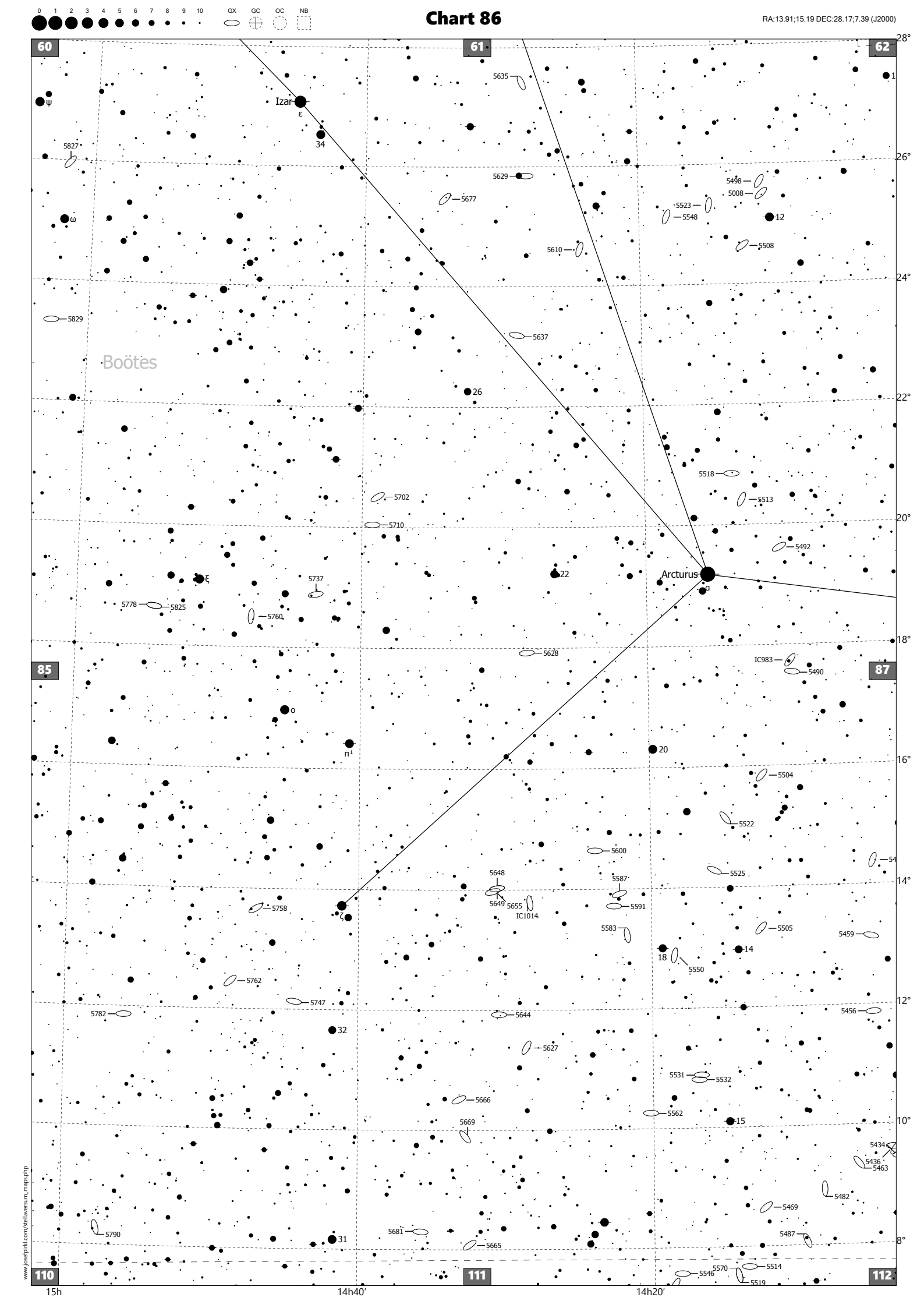

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 81
RA:18.80;20.08 DEC:28.17;7.39 (J2000)
55
56
57
80
82
105
106
107
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
Vulpecula
Sagitta
Aquila
Anser
Sham
Tarazed
Altair
Okab
M71
Col408
6823
6830
6802
Col399
PK52.0.1
PK52+7.1
Pal10
PK52-2.2
PK52-4.1
PK51-3.1
6837
6803
6804
PK45-2.1
6738
19h40′
19h20′
19h
www.jsefprkd.com/stellaversum_maps.php

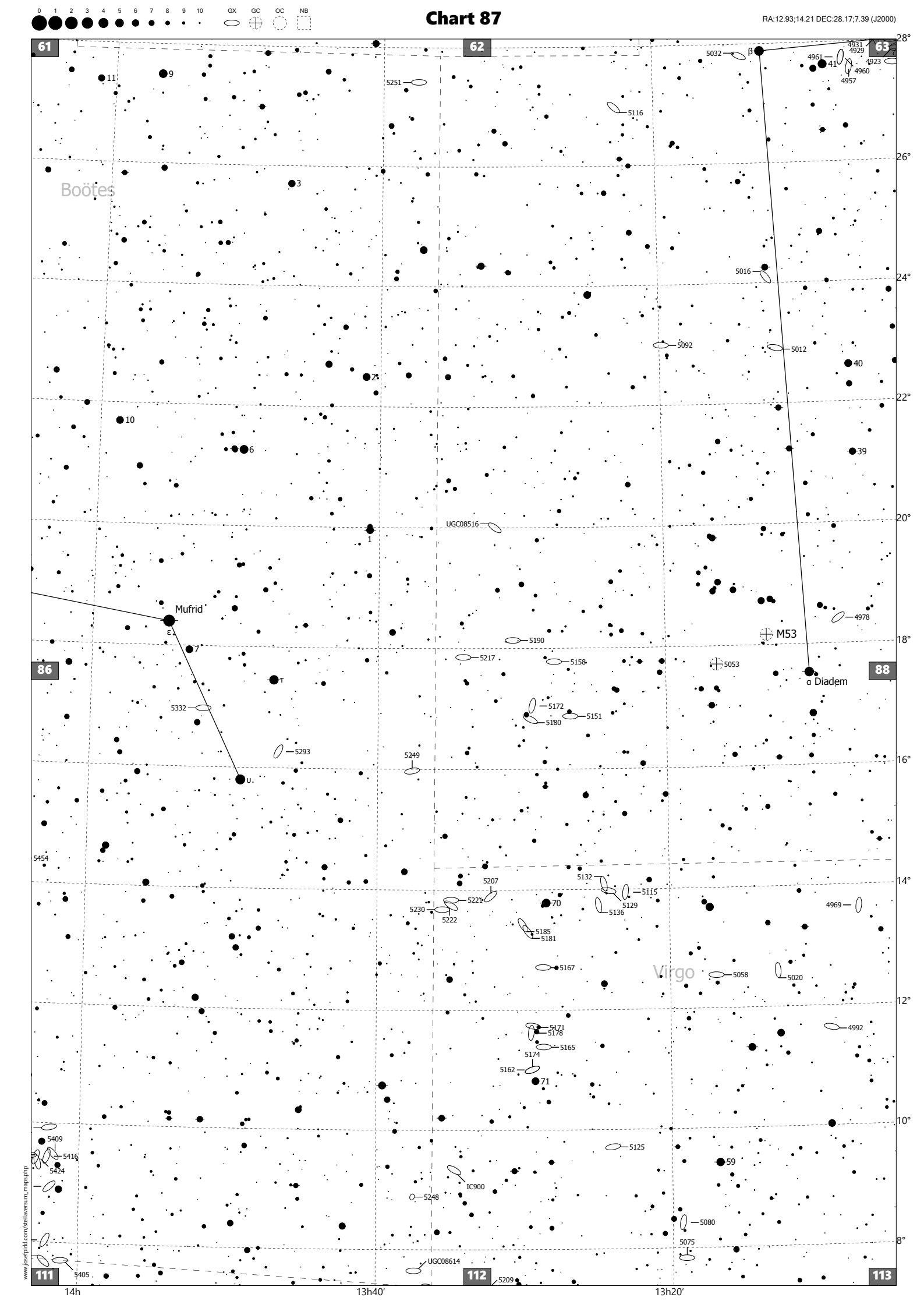

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 82
RA:17.82;19.10 DEC:28.17;7.39 (J2000)
56
57
58
81
83
106
107
108
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
18h40'
18h20'
18h
6632
6710
6671
6697
6674
6547
6513
6600
6602
6599
100
105
6623
6619
6628
6658
6641
6661
6660
113
97
6616
98
109
106
95
6579
6580
6577
112
6586
96
102
PK51+9.1
110
101
UGC11294
6527
6587
6550
6549
6548
111
6555
93
6627
Hercules
6574
6610
6635
PK43+11.1
6570
6615
6709
PK38+12.1
Ophiuchus
72
71
www.josefpirkl.com/stellaversum_maps.php

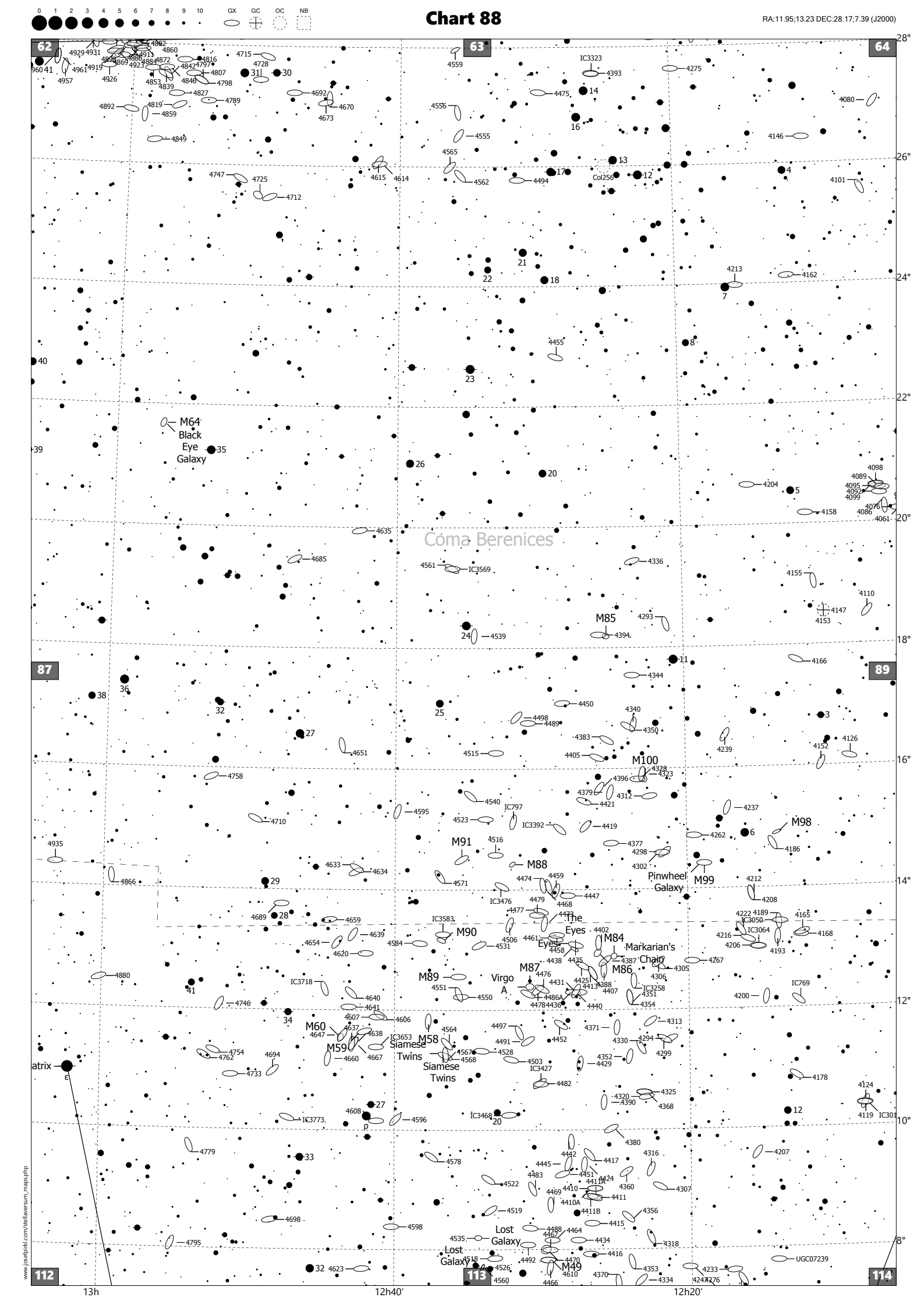

Chart 83
RA:16.85;18.12 DEC:28.17;7.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
57
58
59
82
84
107
108
109
PK53+24.1
μ
Maasym
Sarin
δ
Hercules
Rasalgethi
α1
Rasalhague
α
89
87
6427
6431
6429
6513
6484
84
83
79
70
63
62
6417
6482
6372
6270
6308
6314
6278
IC1239
73
IC1269
6460
6458
6442
6321
6408
6495
6500
6501
6490
6430
6468
6467
6347
6379
6375
6389
54
56
60
57
6368
66
37
53
17h40'
17h20'
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
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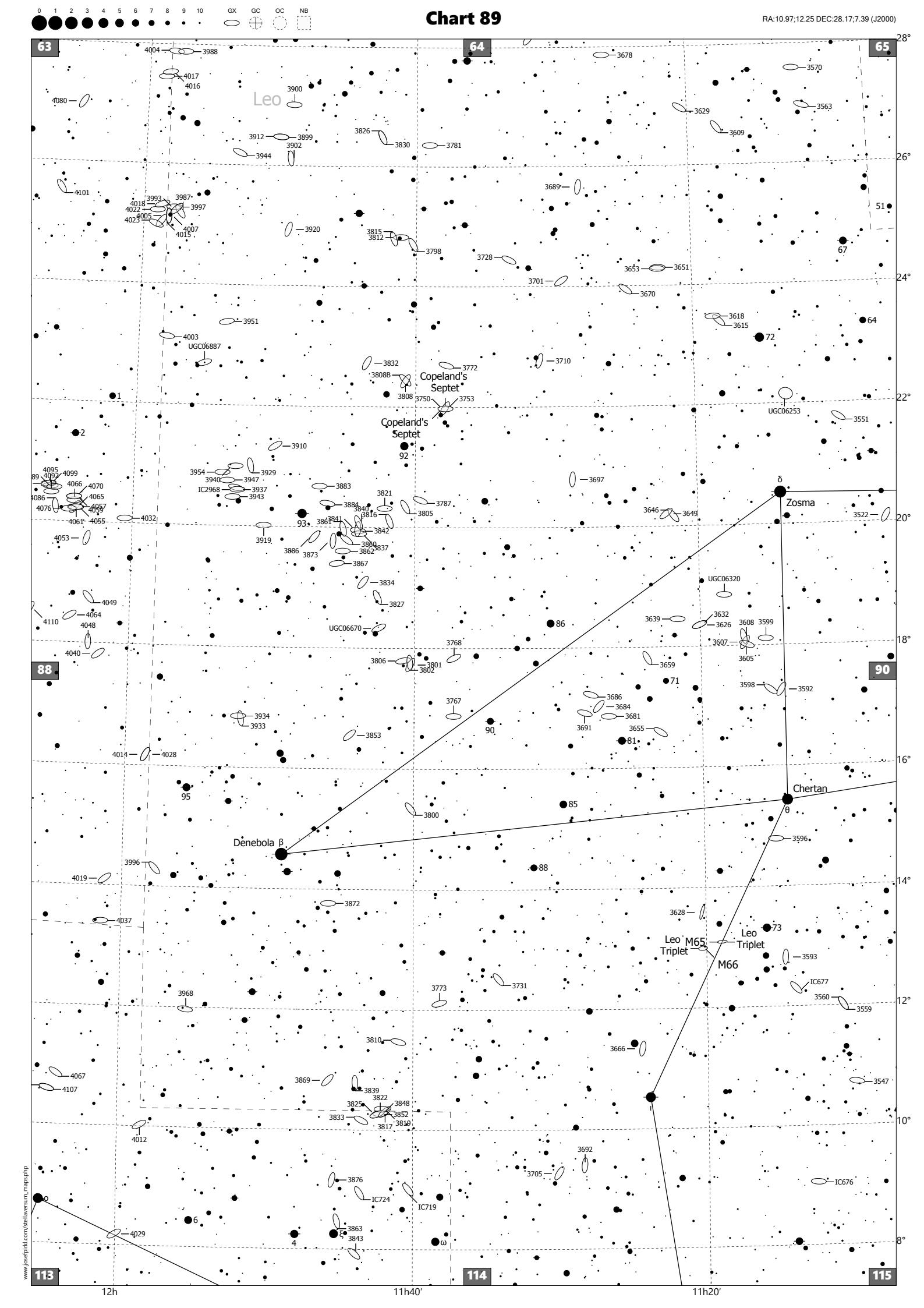

Chart 84
RA:15.87;17.15 DEC:28.17;7.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
58
59
60
83
85
108
109
110
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
16h40'
16h20'
Kornephoros
β
γ
ω
Cujam
Marsic
κ
Turtle
Planetary
Nebula
White
Eyed
Pea
Nebula
Hercules
PK47+42.1
UGC10528
UGC10127
UGC10204
IC1239
IC4593
IC1202
6263
6269
6077
6210
6233
6267
6051
6060
6035
6032
6064
6052
6027
6186
6181
6149
6098
6062
6046
6055
6061
6030
6040
6047
6041
6039
6034
6073
6065
6132
6081
6106
6063
39
56
57
51
19
18
10
17
n
16
54
8
5
49
29
15
13
46
45
47
12
1
43
κ
www.jsfdpkd.com/stellaversum_maps.php

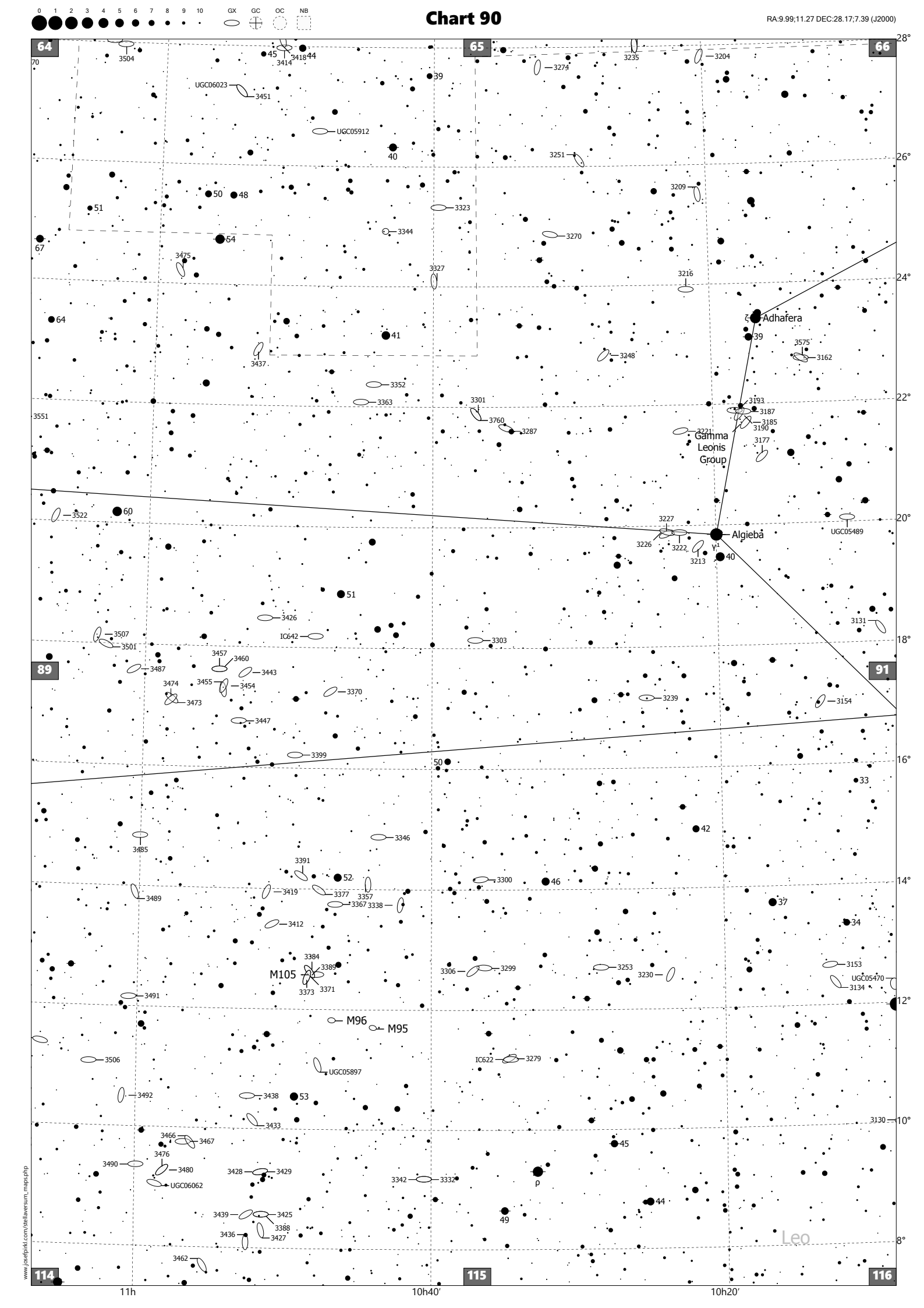

Chart 85
RA:14.89;16.17 DEC:28.17;7.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
59
60
61
84
86
109
110
111
Alphekka
α
ε
δ
γ
ψ
ω
46
45
5827
5991
Serpens Caput
IC1127
IC4553
5829
η
6020
6027
Seyfert's Sextet
UGC10127
6008
ρ
IC1132
5910
6046
6003
6004
Gudja
κ
ι
τ
5857
5859
5928
5
IC1151
5996
T3
5972
5977
6023
6021
6018
γ
5962
T5
T2
5980
T6
29
β
5953
5954
T4
5951
T1
6012
φ
5984
υ
39
5936
5926
7
5852
5837
X
6007
5957
5970
5956
δ
5988
16
40
5983
5920
5931
15h40′
15h20′
16h
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
www.josefpirkl.com/stellaversum_maps.php


Chart 86
RA:13.91;15.19 DEC:28.17;7.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
60
61
62
85
87
110
111
112
Boötes
Izar
Arcturus
ε
ψ
ω
ξ
ο
π¹
ζ
σ
τ
34
26
22
20
18
14
12
32
31
15
5827
5829
5635
5629
5677
5610
5637
5498
5008
5523
5548
5508
5518
5513
5702
5710
5492
5737
5778
5825
5760
5628
IC983
5490
5504
5522
5600
5525
5648
5649
5655
IC1014
5587
5591
5583
5505
5459
5550
5758
5762
5747
5782
5644
5456
5627
5531
5532
5666
5562
5669
5434
5436
5463
5482
5469
5790
5681
5665
5487
5570
5514
5546
5519
www.josefpirkl.com/stellaversum_maps.php


Chart 87
RA:12.93;14.21 DEC:28.17;7.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
61
62
63
86
88
111
112
113
Boötes
Virgo
Mufrid
ε
η
μ
α Diadem
M53
β
41
40
39
70
71
59
1
2
3
6
7
9
10
11
5251
5116
5032
4931
4929
4923
4961
4960
4957
5016
5092
5012
UGC08516
4978
5190
5217
5158
5053
5172
5151
5180
5332
5293
5249
5454
5207
5221
5222
5230
5132
5115
5129
5136
4969
5185
5181
5167
5058
5020
5471
5178
5165
5174
5162
4992
5125
5409
5416
5424
IC900
5248
5080
5075
5405
UGC08614
5209
14h
13h40′
13h20′
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
www.jsofpirkl.com/stellaversum_maps.php


Chart 88
RA:11.95;13.23 DEC:28.17;7.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
62
63
64
87
89
112
113
114
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
13h
12h40′
12h20′
M64
Black
Eye
Galaxy
Coma Berenices
M85
M100
M98
M91
M88
Pinwheel
Galaxy
M99
M90
The
Eyes
M84
Markarian's
Chain
M87
Virgo
A
M86
M89
M60
M59
M58
Siamese
Twins
Siamese
Twins
Lost
Galaxy
Lost
Galaxy
M49
Col256
IC3323
IC3569
IC797
IC3392
IC3583
IC3718
IC3653
IC3773
IC3468
IC3427
IC3476
IC3050
IC3064
IC3258
IC769
UGC07239
atrix
www.josefpirkl.com/stellaversum_maps.php


Chart 89
RA:10.97;12.25 DEC:28.17;7.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
63
64
65
88
90
113
114
115
Leo
Copeland's Septet
Copeland's Septet
Zosma
Chertan
Denebola β
Leo Triplet
M65
Leo Triplet
M66
UGC06887
UGC06253
UGC06320
UGC06670
IC2968
IC677
IC676
IC724
IC719
www.jsefpirkl.com/stellaversum_maps.php
12h
11h40'
11h20'


Chart 90
RA:9.99;11.27 DEC:28.17;7.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
64
65
66
89
91
114
115
116
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
11h
10h40'
10h20'
Adhafera
Gamma Leonis Group
Algieba
M105
M96
M95
Leo
UGC06023
UGC05912
UGC05489
UGC05470
UGC05897
UGC06062
IC642
IC622
www.josefpirkl.com/stellaversum_maps.php