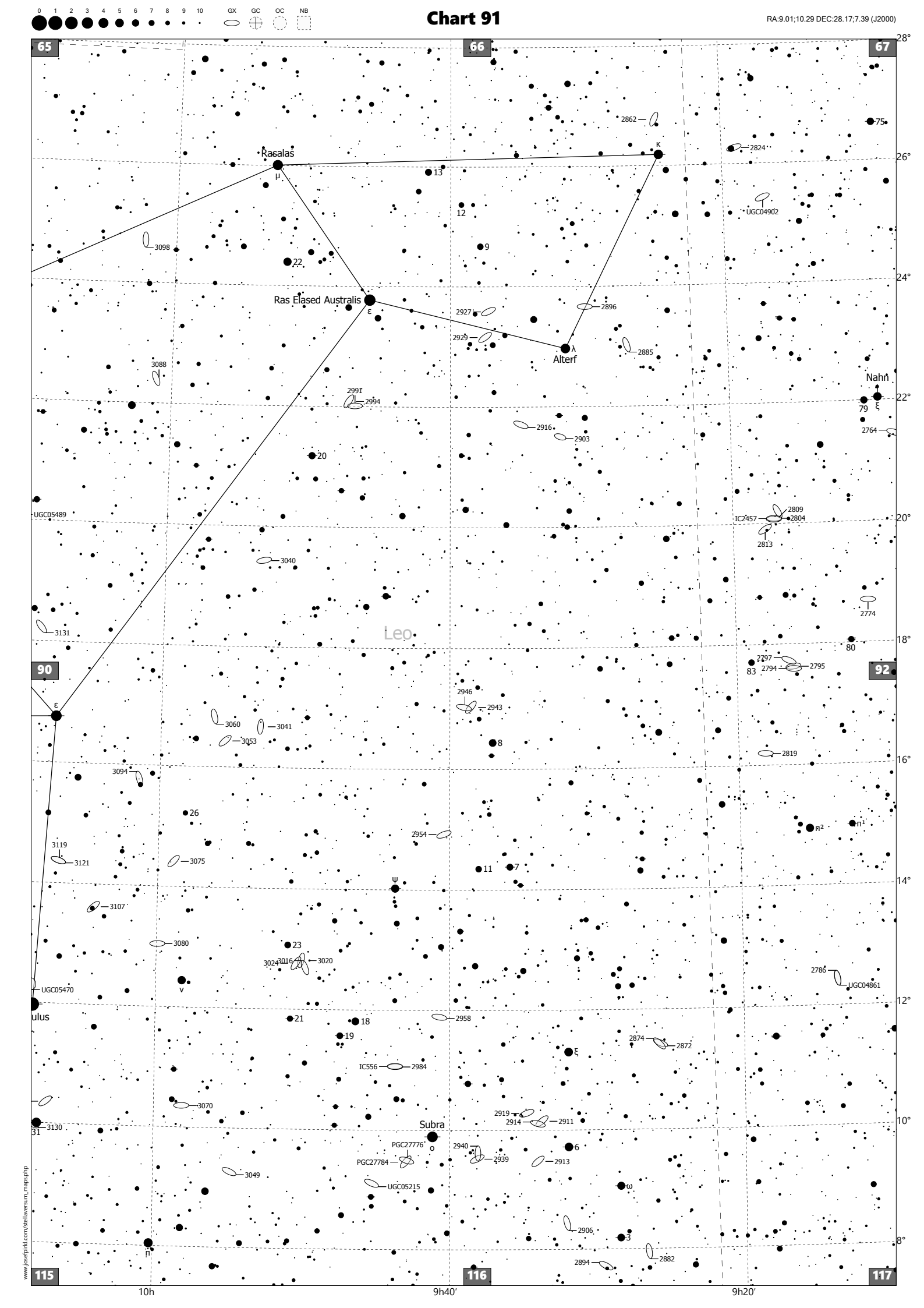
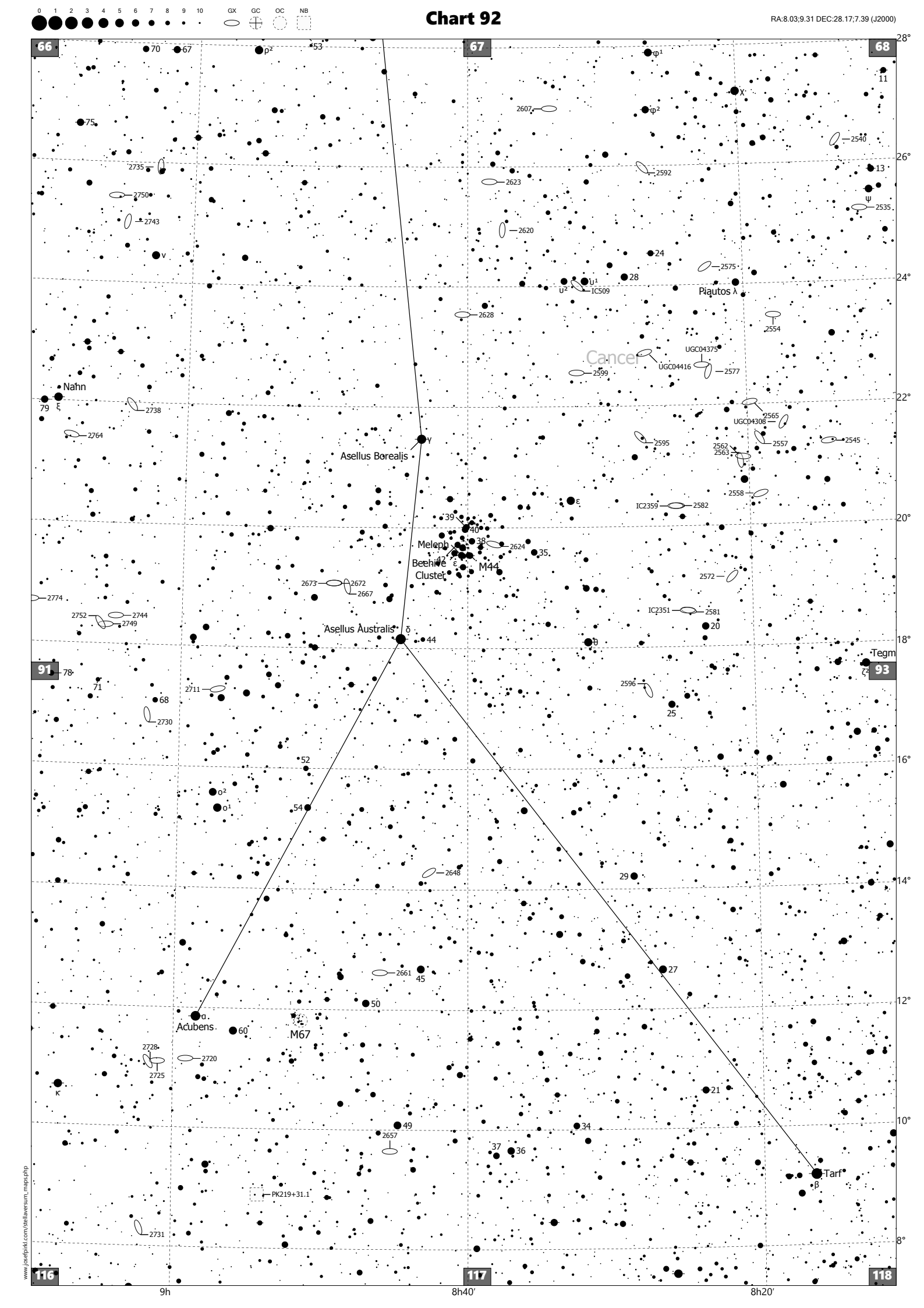
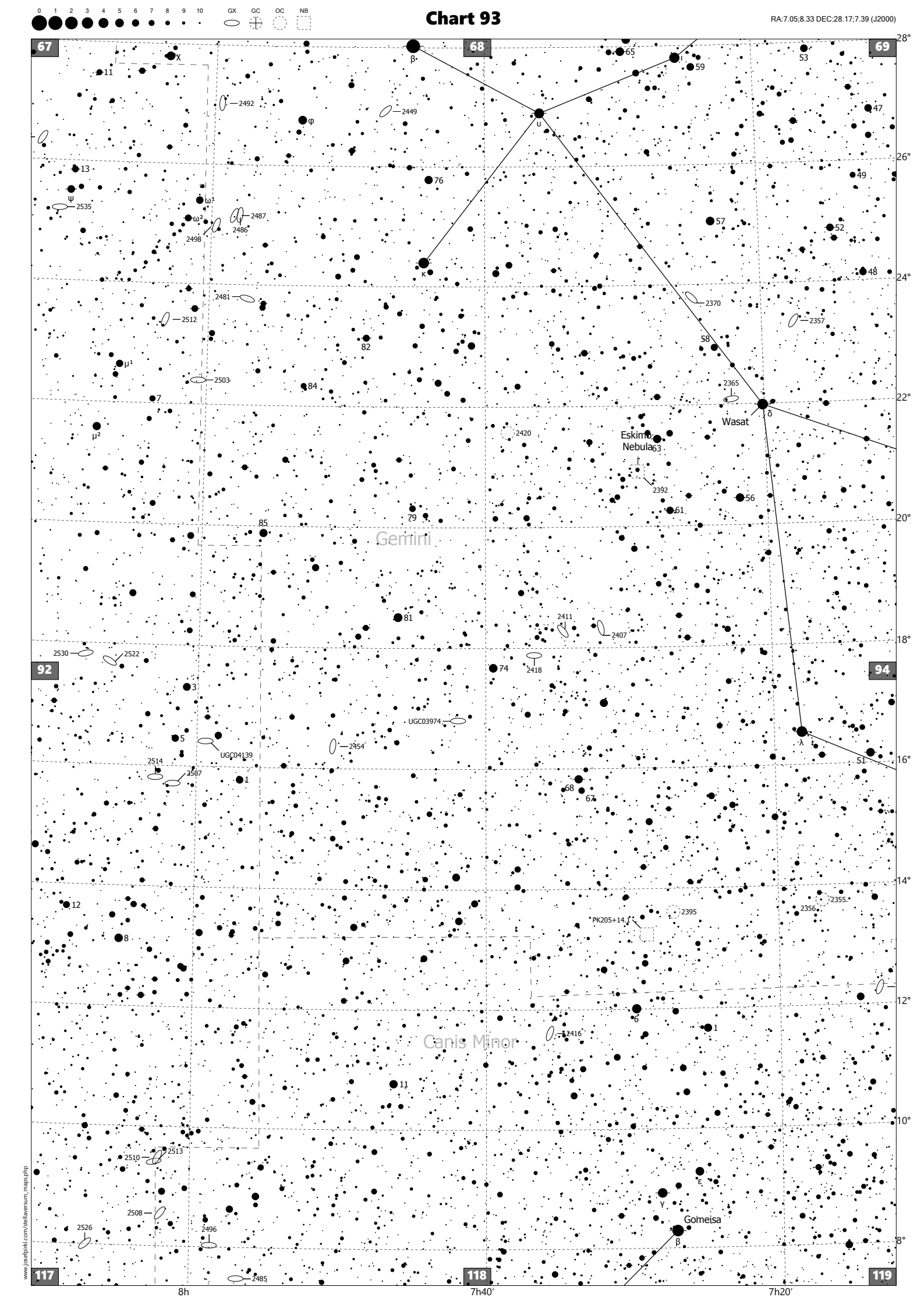
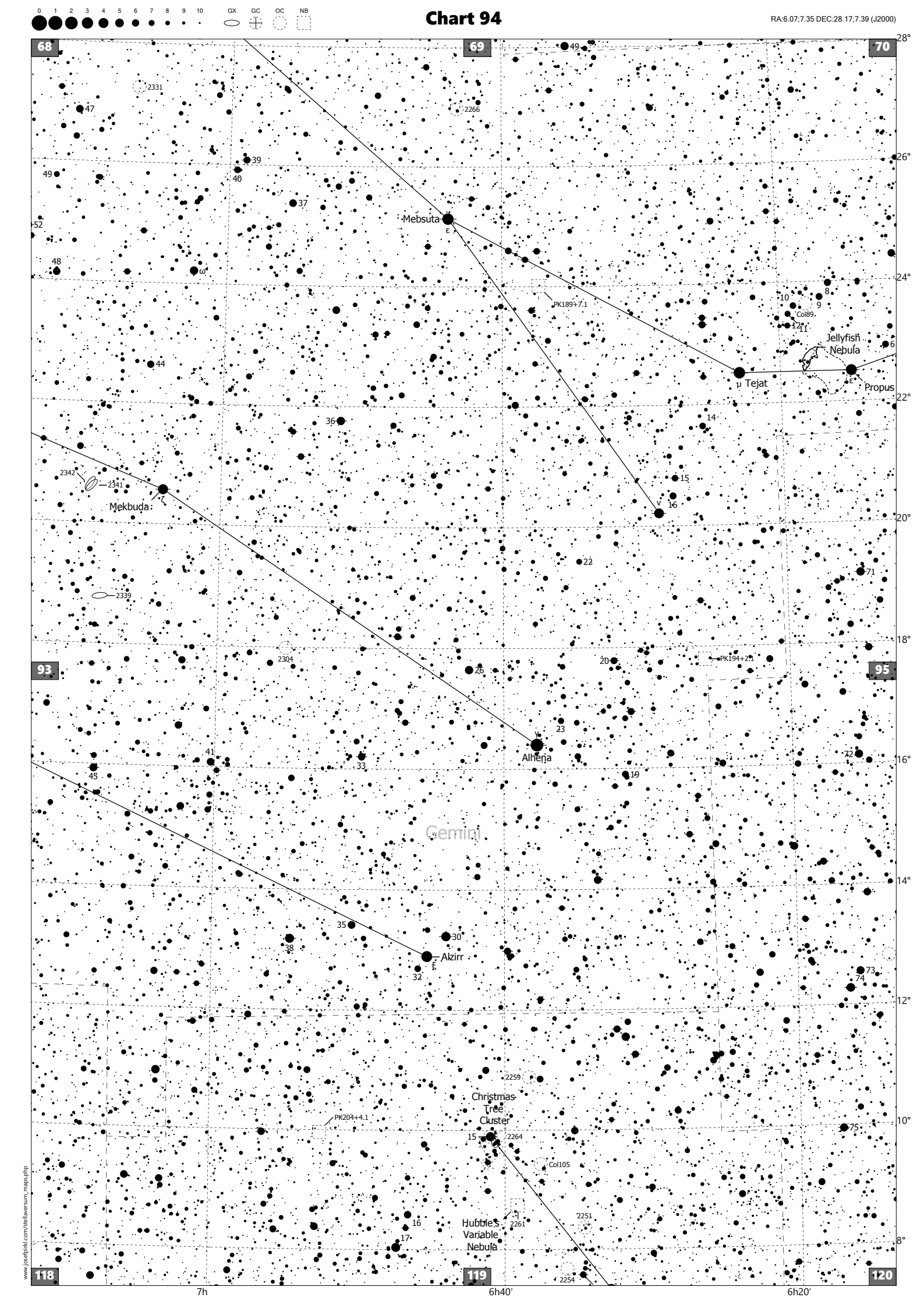

Chart 91
RA:9.01;10.29 DEC:28.17;7.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
65
66
67
90
92
115
116
117
Rasalas
μ
Ras Elased Australis
ε
Alterf
λ
Nahn
ξ
Leo
Subra
o
ulus
UGC05489
UGC05470
UGC04902
UGC04861
UGC05215
IC556
IC2457
PGC27776
PGC27784
2862
2824
2896
2927
2929
2885
2916
2903
2994
2764
2809
2804
2813
2774
2797
2794
2795
2946
2943
2819
2954
2958
2874
2872
2919
2914
2911
2940
2939
2913
2906
2894
2882
3098
3088
3040
3131
3060
3041
3053
3094
3119
3121
3075
3107
3080
3024
3016
3020
3070
3130
3049
75
79
80
83
13
12
9
22
20
26
11
7
23
21
18
19
6
3
10h
9h40'
9h20'
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
www.josefpirkl.com/stellaversum_maps.php


Chart 92
RA:8.03;9.31 DEC:28.17;7.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
66
67
68
91
93
116
117
118
Cancer
Asellus Borealis
Asellus Australis
Acubens
Nahn
Piautos λ
Meleph
Beehive Cluster
M44
M67
Tarf
PK219+31.1
IC509
IC2359
IC2351
UGC04375
UGC04416
UGC04308
Tegm
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
9h
8h40′
8h20′
www.jsefpirkl.com/stellaversum_maps.php


Chart 93
RA:7.05;8.33 DEC:28.17;7.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
67
68
69
92
94
117
118
119
Gemini
Canis Minor
Wasat
Eskimo Nebula
Gomeisa
UGC03974
UGC04139
PK205+14.1
2492
2449
2535
2487
2498
2486
2481
2512
2503
2420
2392
2365
2370
2357
2530
2522
2411
2407
2418
2454
2514
2507
2395
2355
2356
2416
2510
2513
2508
2526
2496
2485
8h
7h40′
7h20′
www.josefpirkl.com/stellaversum_maps.php


0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 94
RA:6.07;7.35 DEC:28.17;7.39 (J2000)
68
69
70
93
95
118
119
120
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
7h
6h40′
6h20′
Mebsuta
ε
Tejat
μ
Propus
Jellyfish Nebula
PK189+7.1
Col89
Mekbuda
ζ
Alhena
γ
Alzirr
ξ
Gemini
Christmas Tree Cluster
PK204+4.1
Col105
Hubble's Variable Nebula
PK194+21
2331
2266
2342
2341
2339
2304
2259
2264
2261
2251
2254
www.josefpirkl.com/stellaversum_maps.php

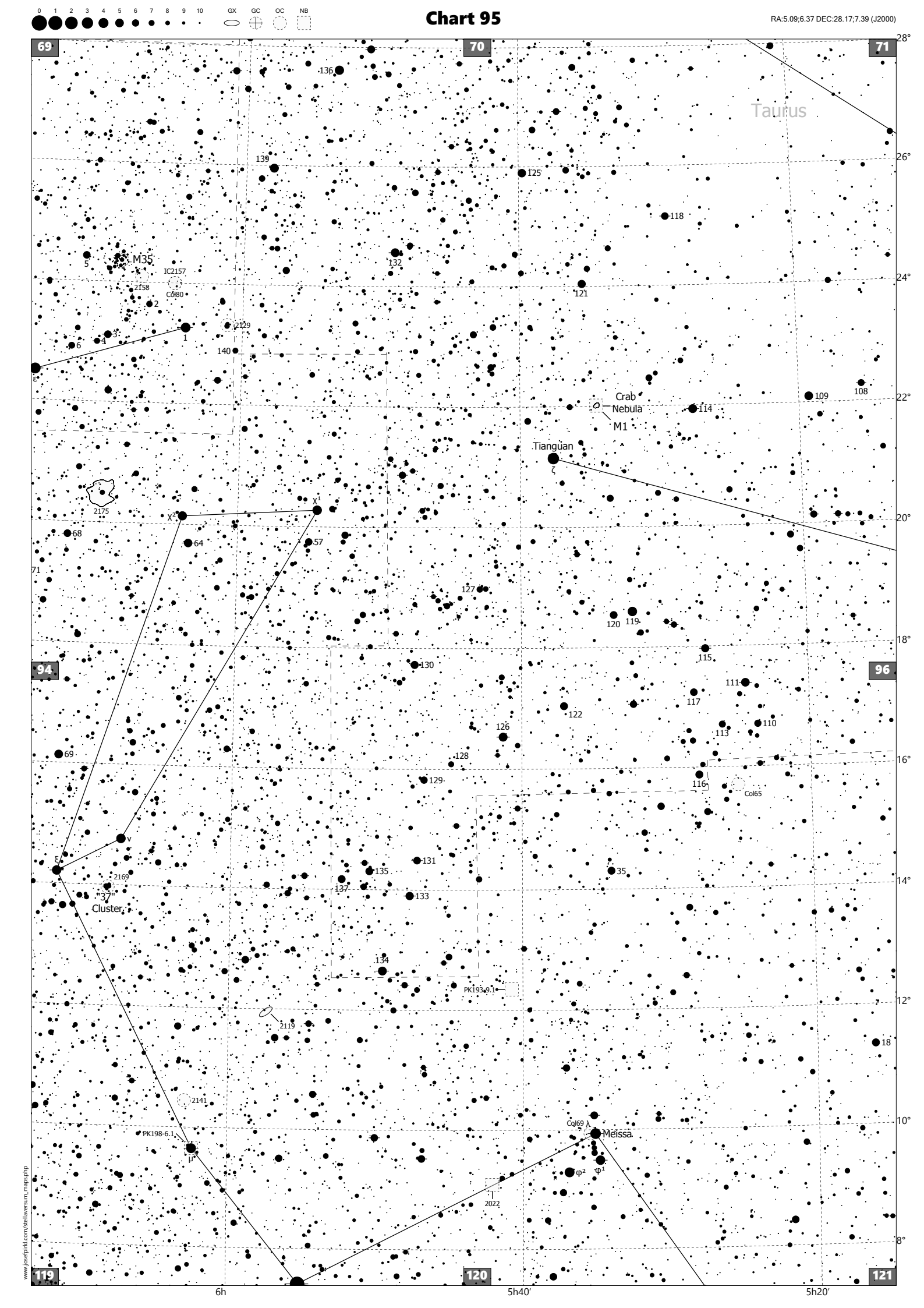
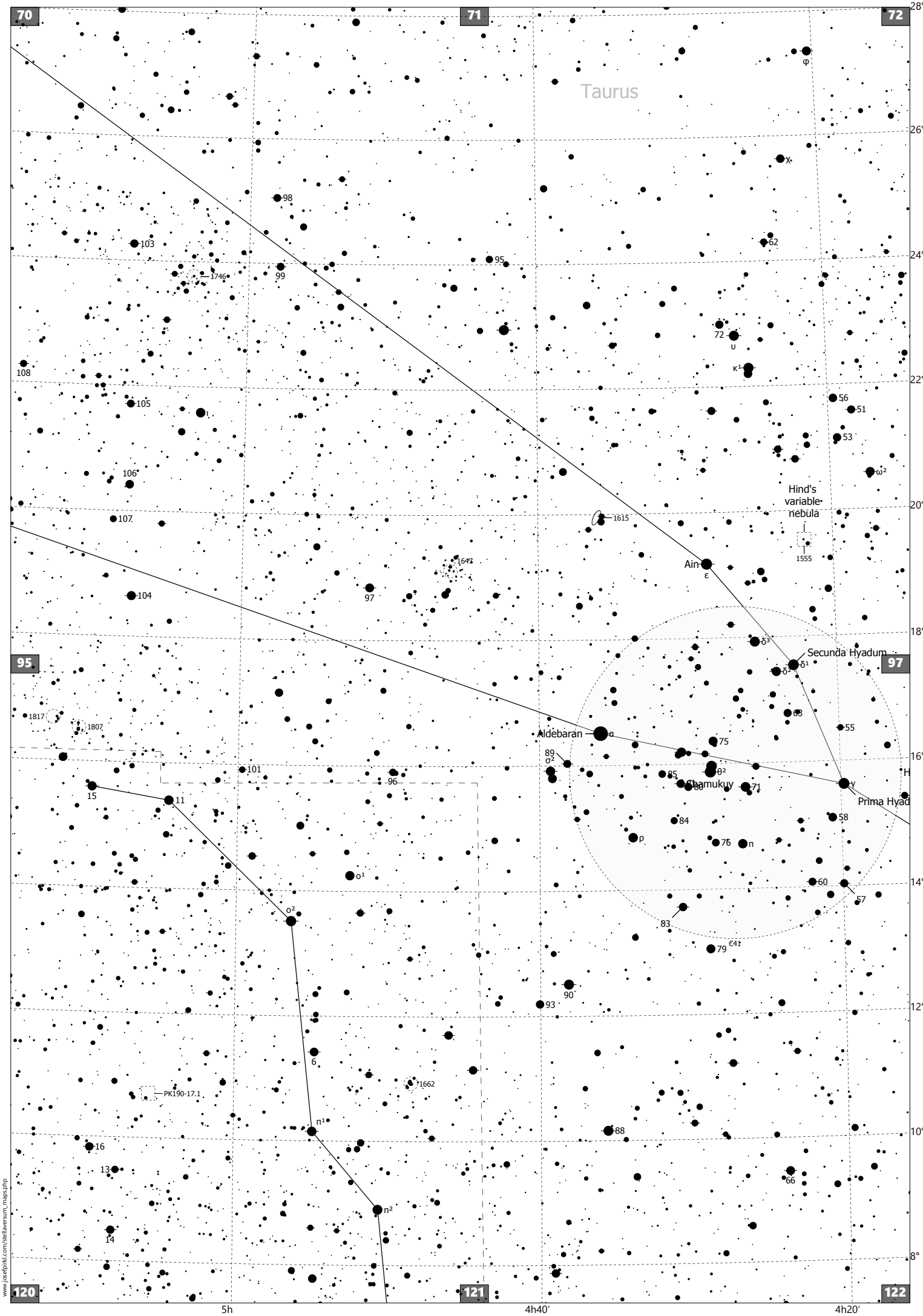
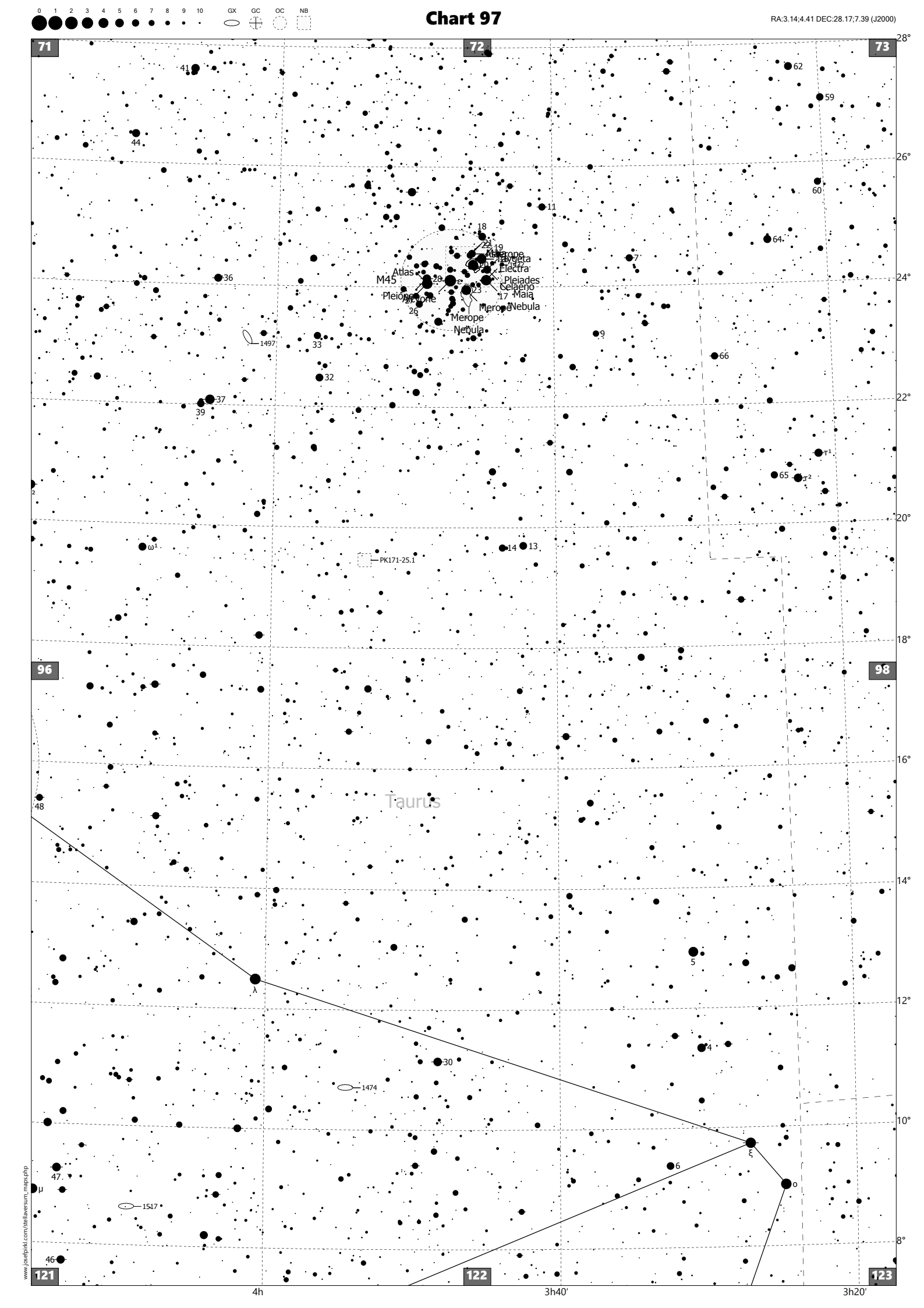

Chart 95
RA:5.09;6.37 DEC:28.17;7.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
69
70
71
94
96
119
120
121
Taurus
M35
IC2157
Col80
2158
2129
Crab
Nebula
M1
Tiangùan
ζ
2175
χ1
χ2
ν
ξ
2169
37
Cluster
PK193+9.1
2119
2141
PK198-6.1
μ
Col69 λ
Meissa
φ2
φ1
2022
6h
5h40′
5h20′
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
www.jsfirpirkl.com/stellaversum_maps.php

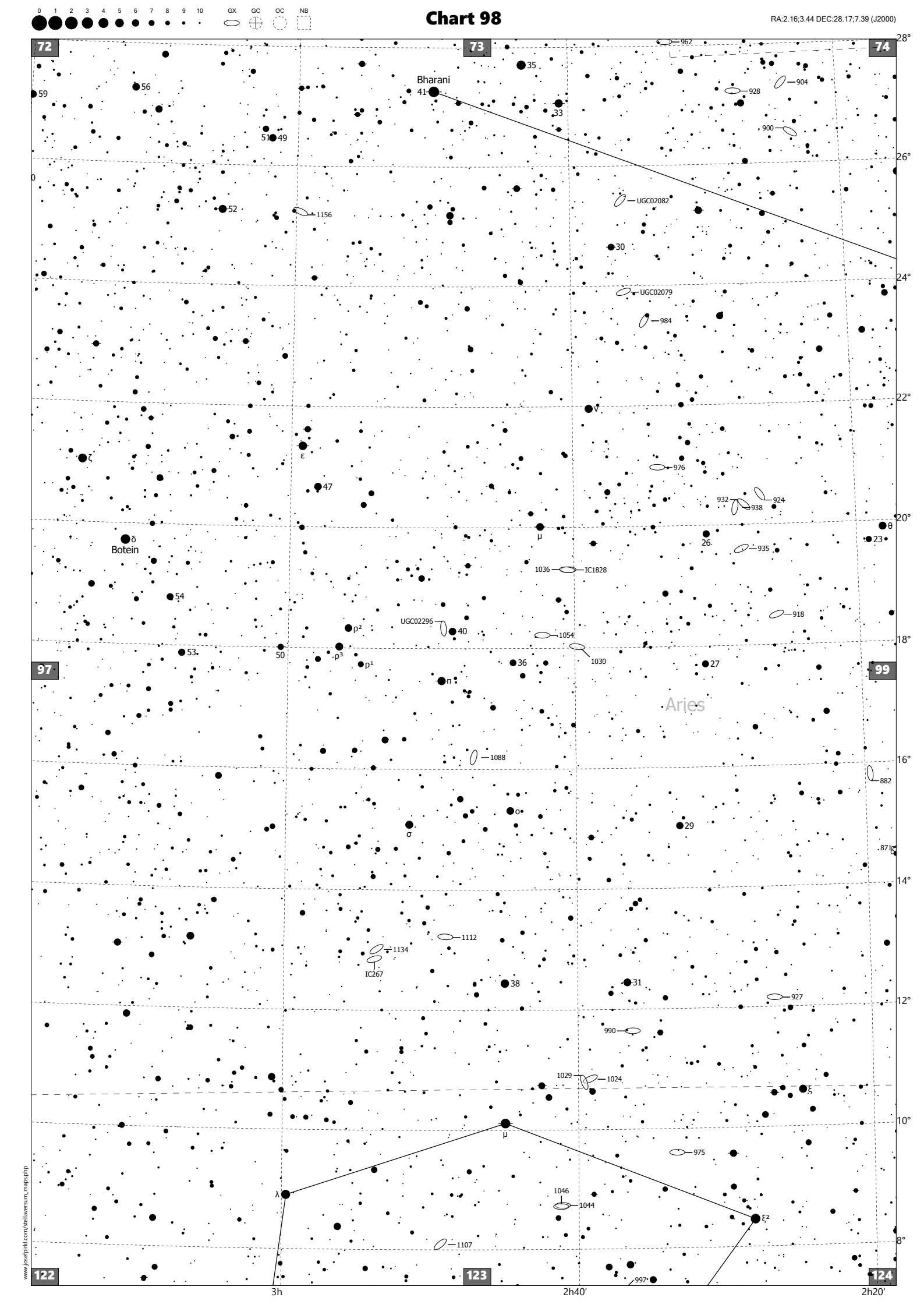
Chart 96

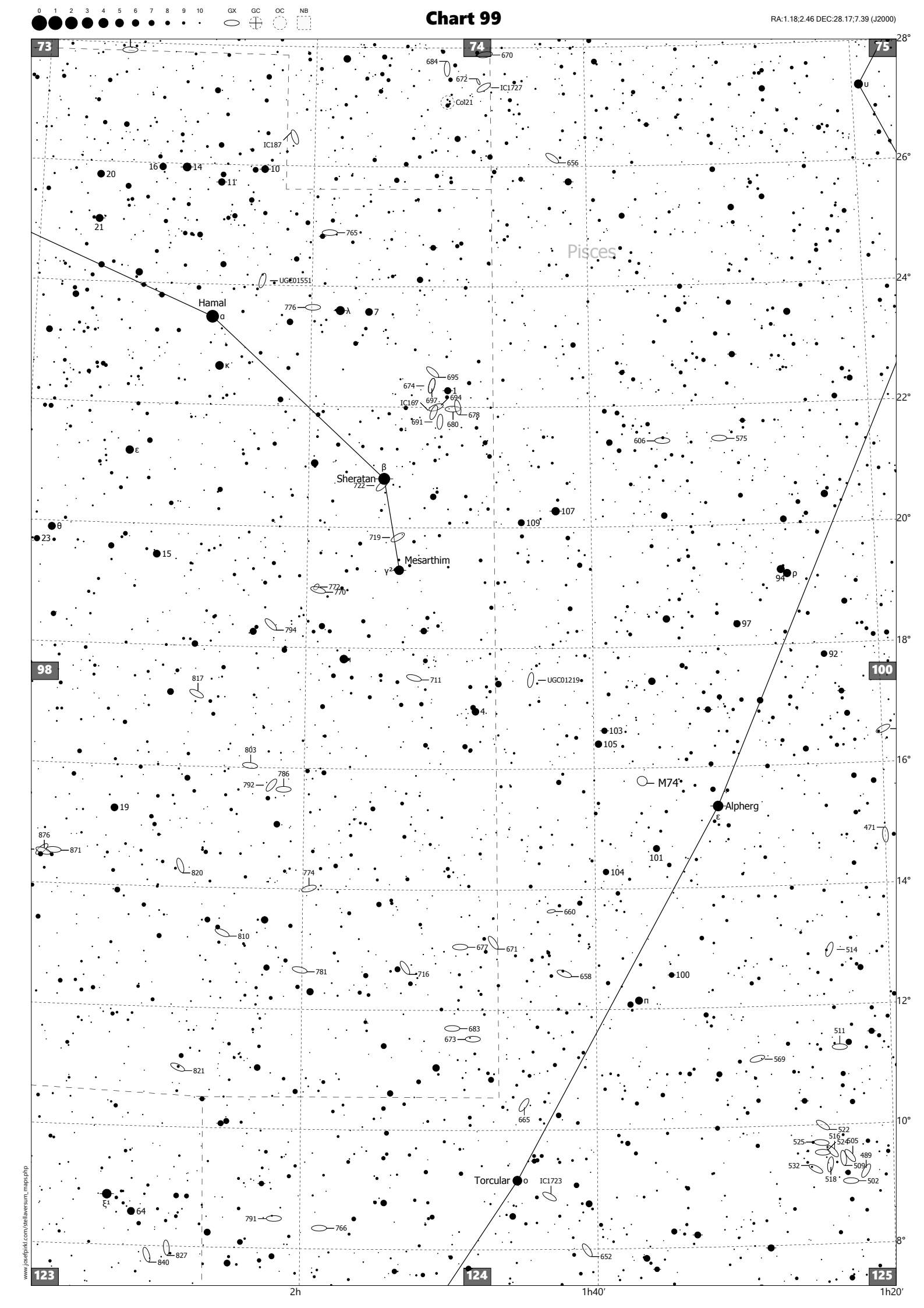
RA:4.11;5.39 DEC:28.17;7.39 (J2000)

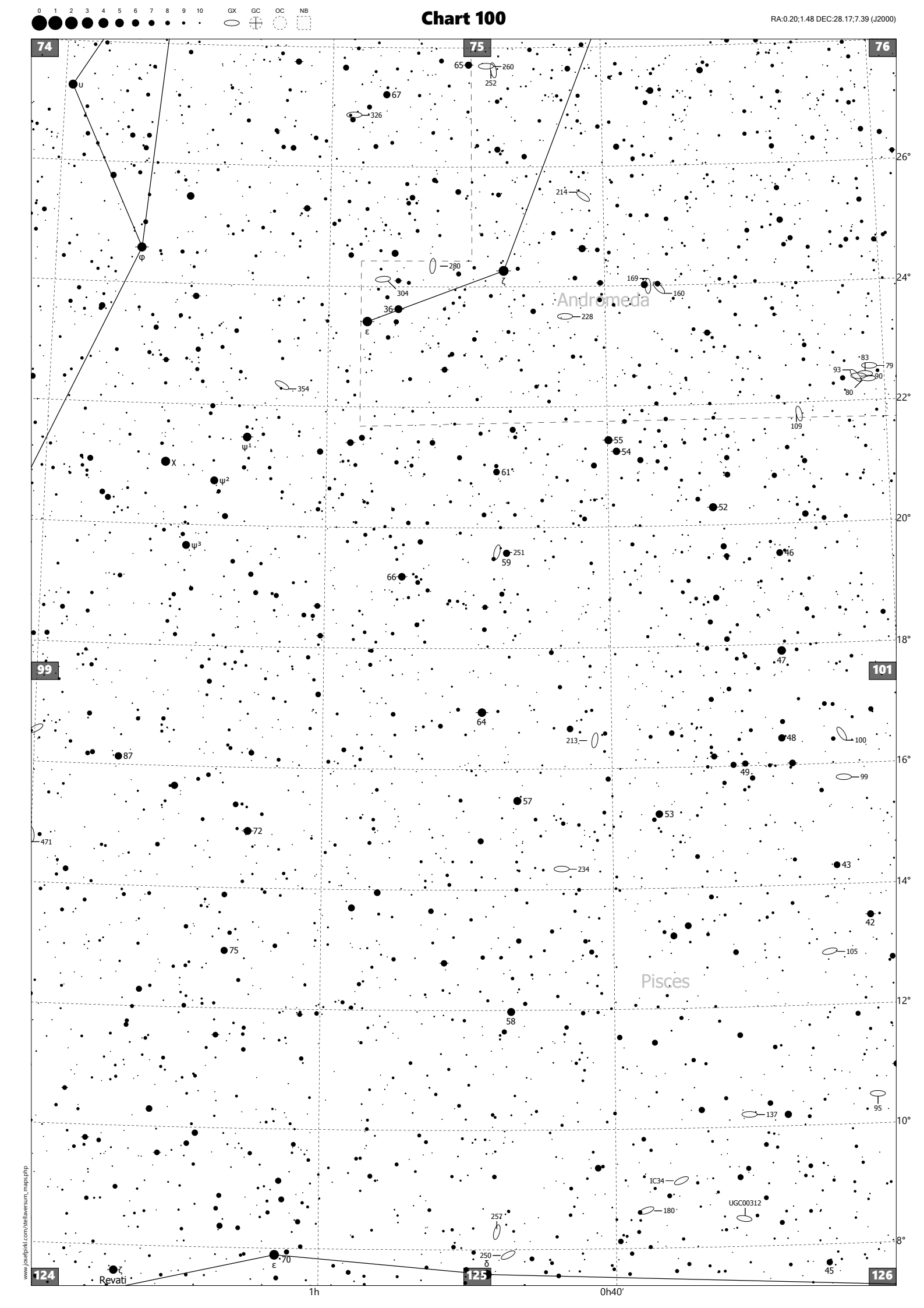


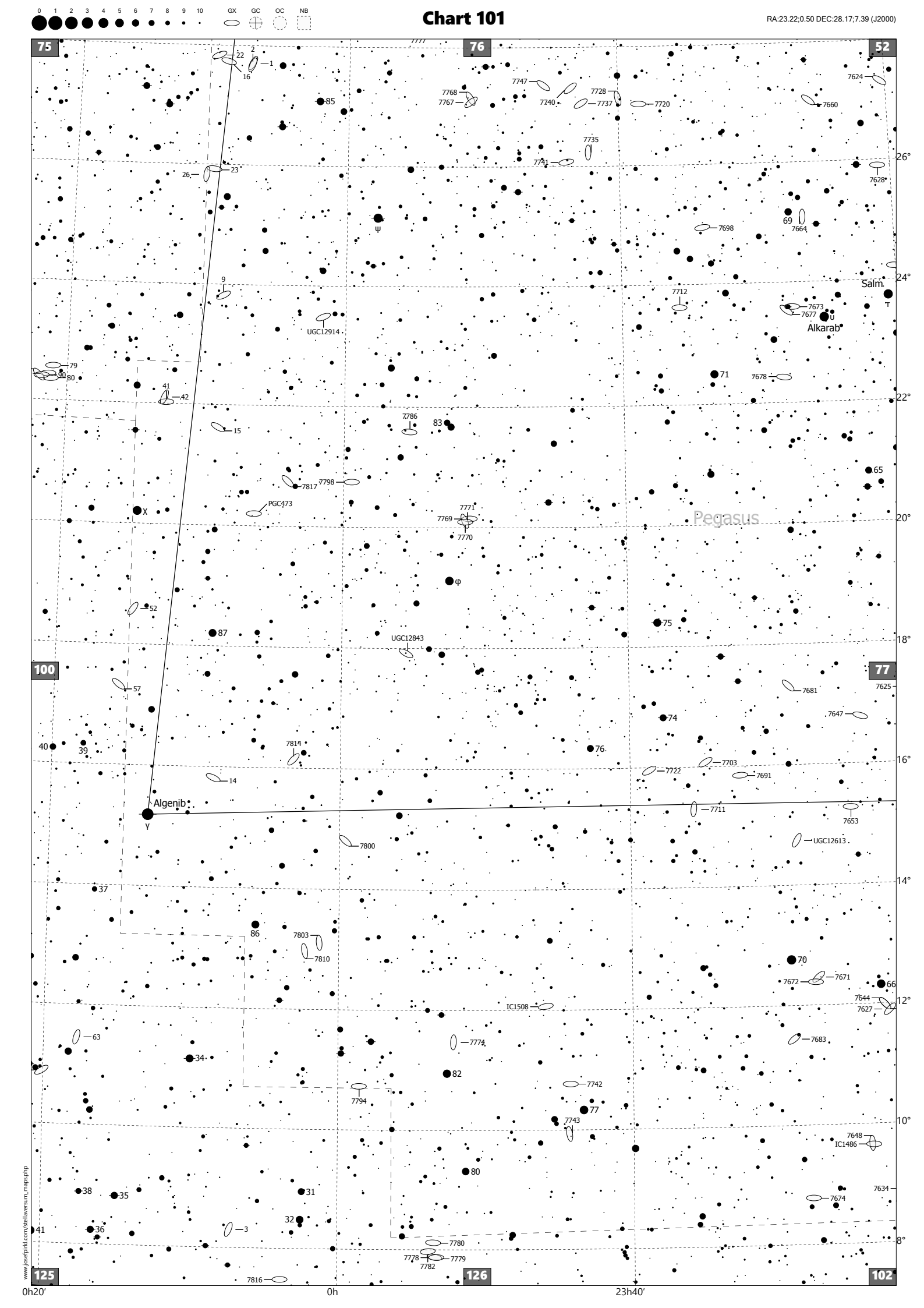
www.josefpirkl.com/stellaversum_maps.php

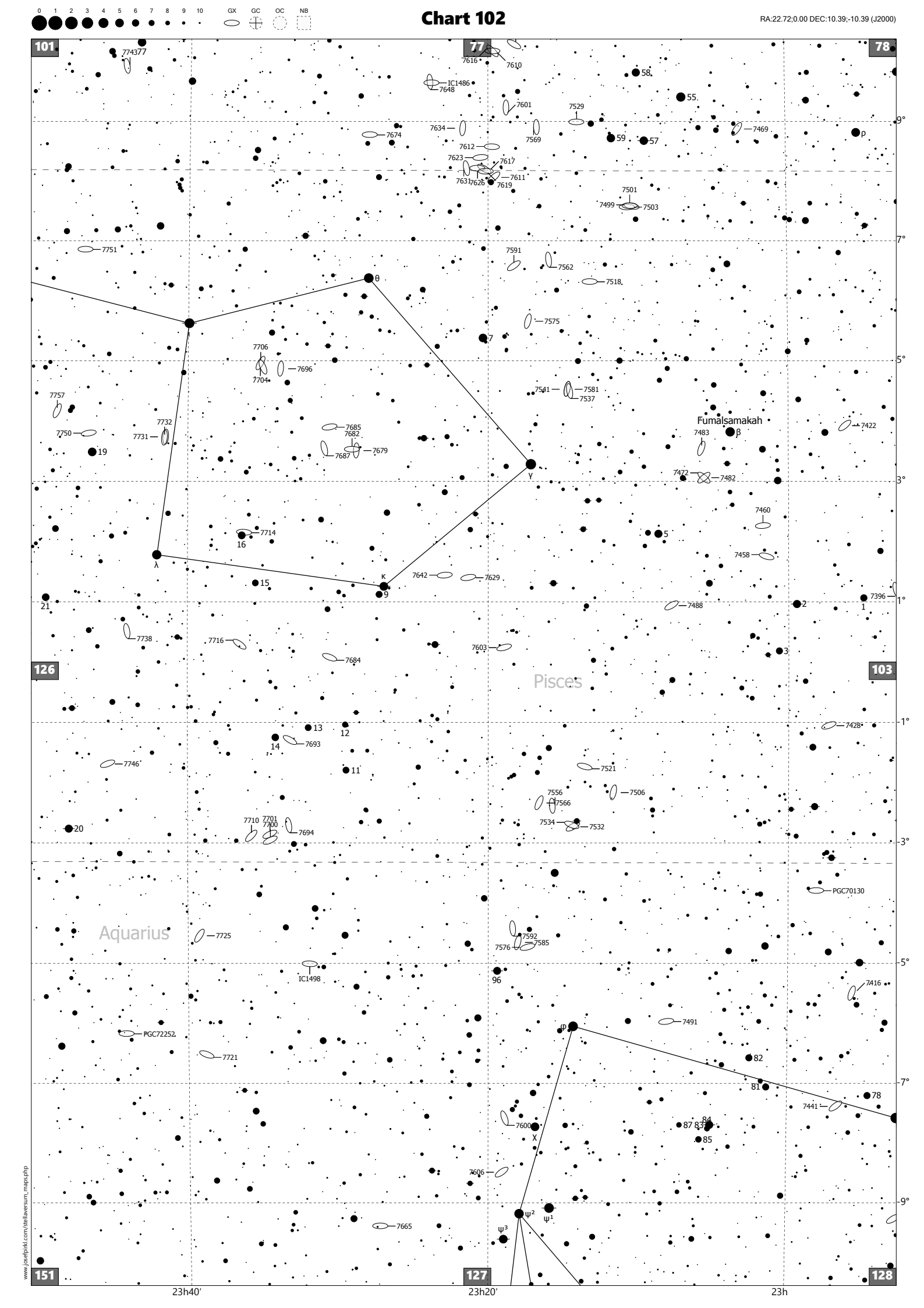

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 97
RA:3.14;4.41 DEC:28.17;7.39 (J2000)
71
72
73
96
98
121
122
123
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
4h
3h40'
3h20'
Taurus
Atlas
M45
Pleione
Electra
Celaeno
Maia
Merope
Nebula
PK171-25.1
1497
1474
1517
www.jsofpirkl.com/stellaversum_maps.php

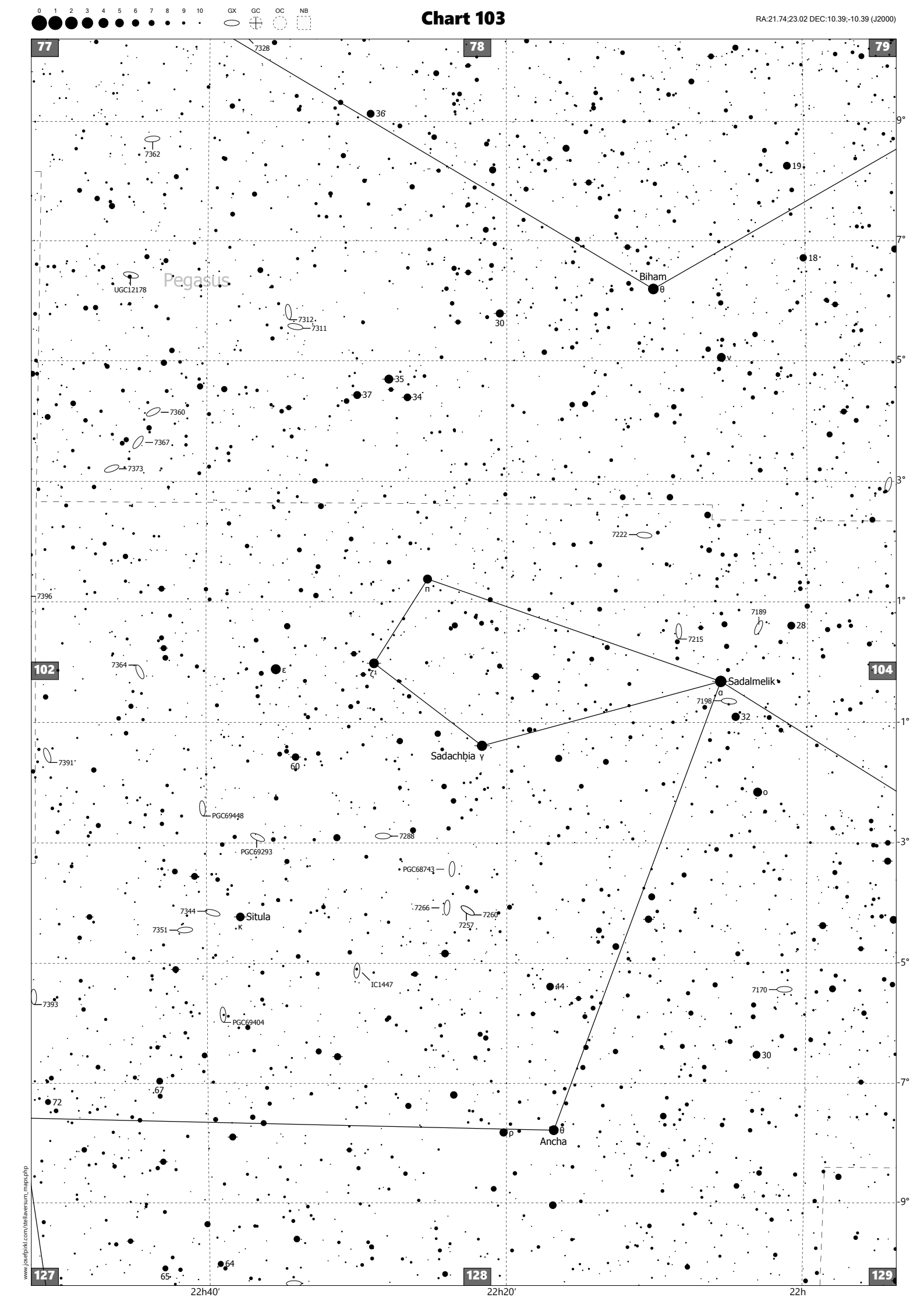

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 98
RA:2.16;3.44 DEC:28.17;7.39 (J2000)
72
73
74
97
99
122
123
124
Bharani
41
35
33
56
59
51
49
52
1156
UGC02082
30
UGC02079
984
962
904
928
900
ζ
ε
47
976
932
938
924
δ
Botein
μ
26
935
θ
23
1036
IC1828
54
UGC02296
ρ²
40
1054
ρ³
ρ¹
50
53
1030
36
27
η
Aries
918
1088
882
σ
ο
29
871
1112
1134
IC267
38
31
927
990
1029
1024
ξ
λ
1046
1044
ξ²
975
1107
997
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
3h
2h40′
2h20′
www.josefpirkl.com/stellaversum_maps.php

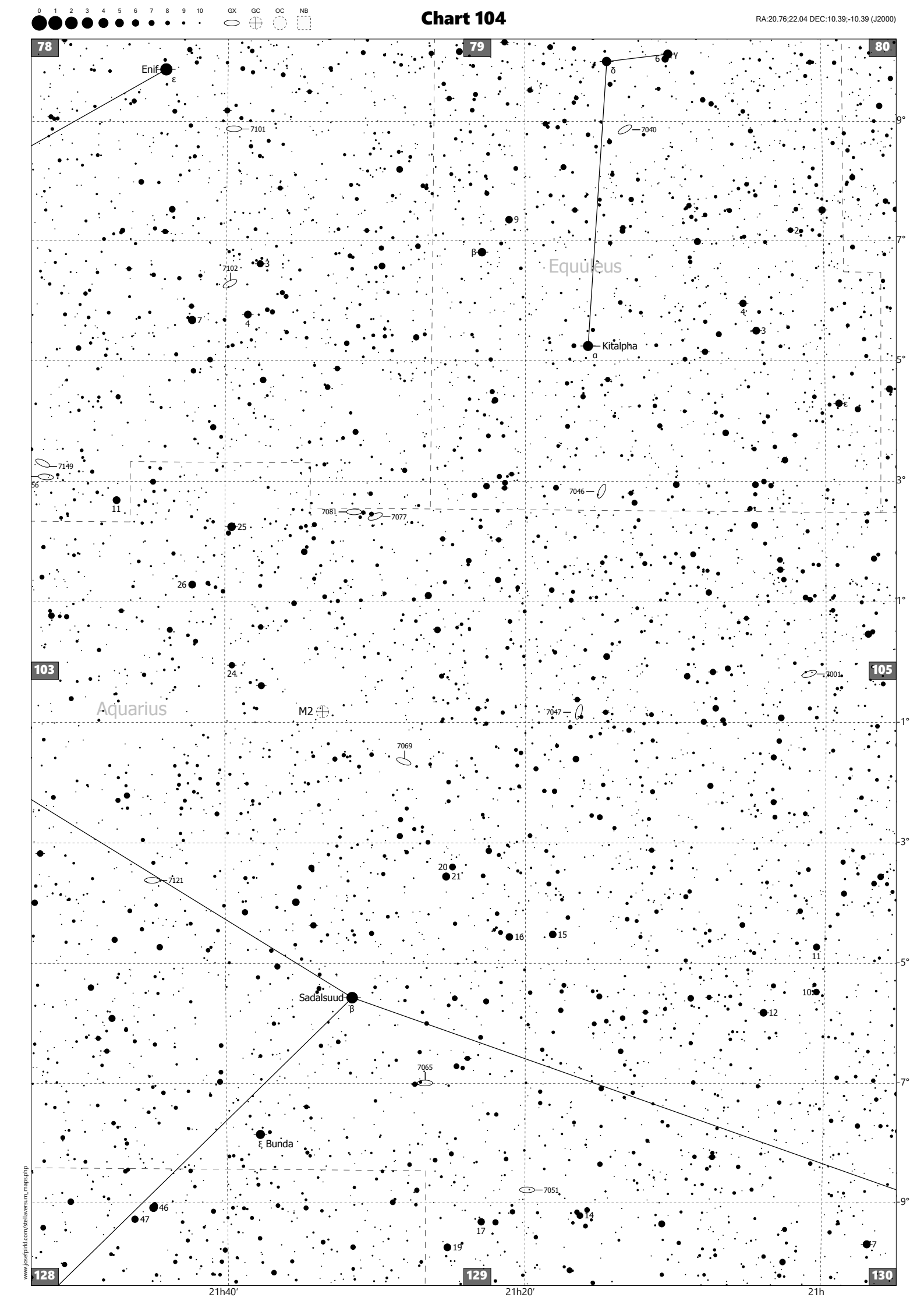

Chart 99
RA:1.18;2.46 DEC:28.17;7.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
73
74
75
98
100
123
124
125
Pisces
Hamal
Sheratan
Mesarthim
Alpherg
M74
Torcular
IC1727
Col21
IC187
UGC01551
IC167
UGC01219
IC1723
28°
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
2h
1h40'
1h20'
www.josefpirkl.com/stellaversum_maps.php

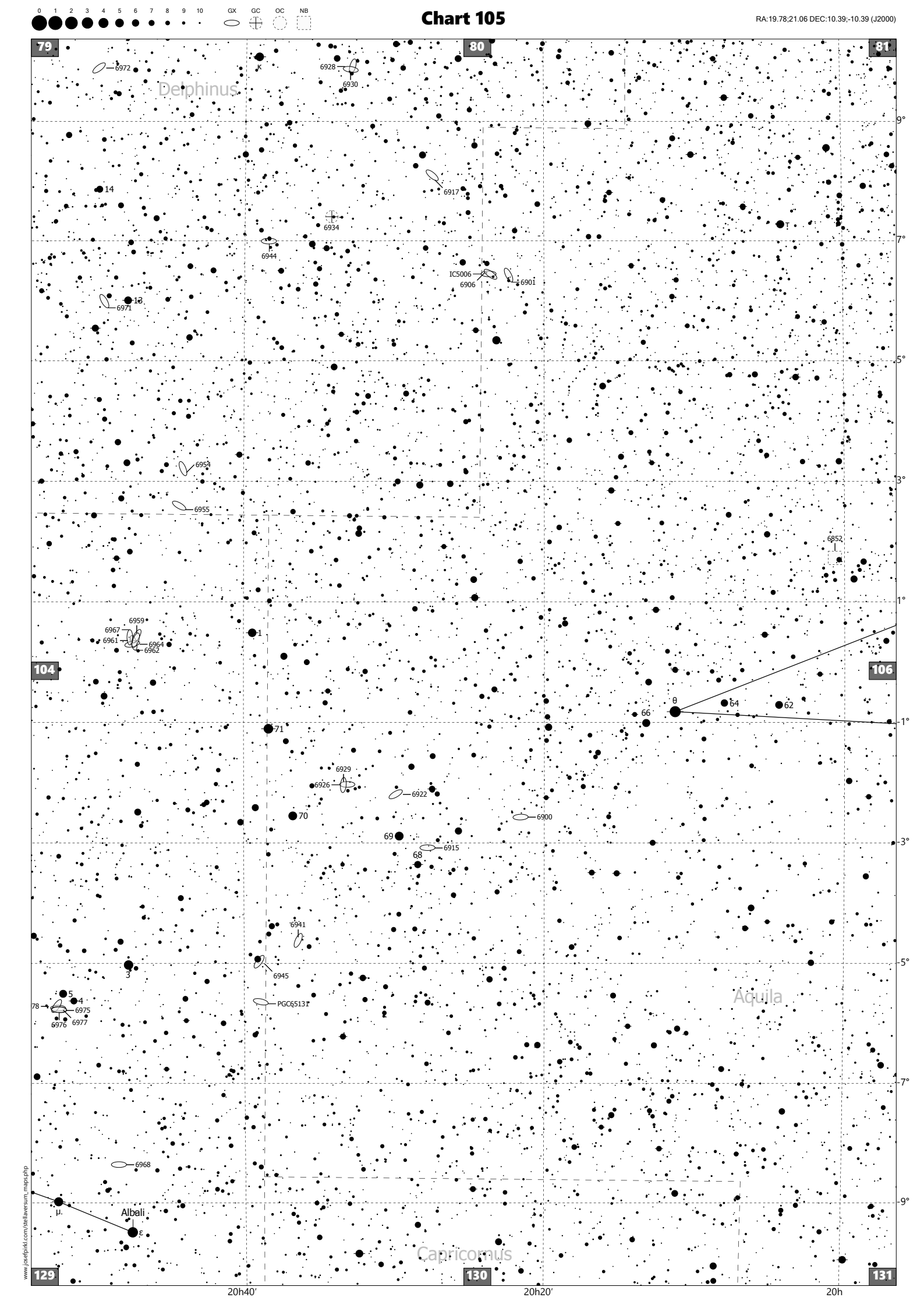

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 100
RA:0.20;1.48 DEC:28.17;7.39 (J2000)
74
75
76
99
101
124
125
126
Andromeda
Pisces
Revati
1h
0h40'
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
www.jsfdpinkl.com/stellaversum_maps.php

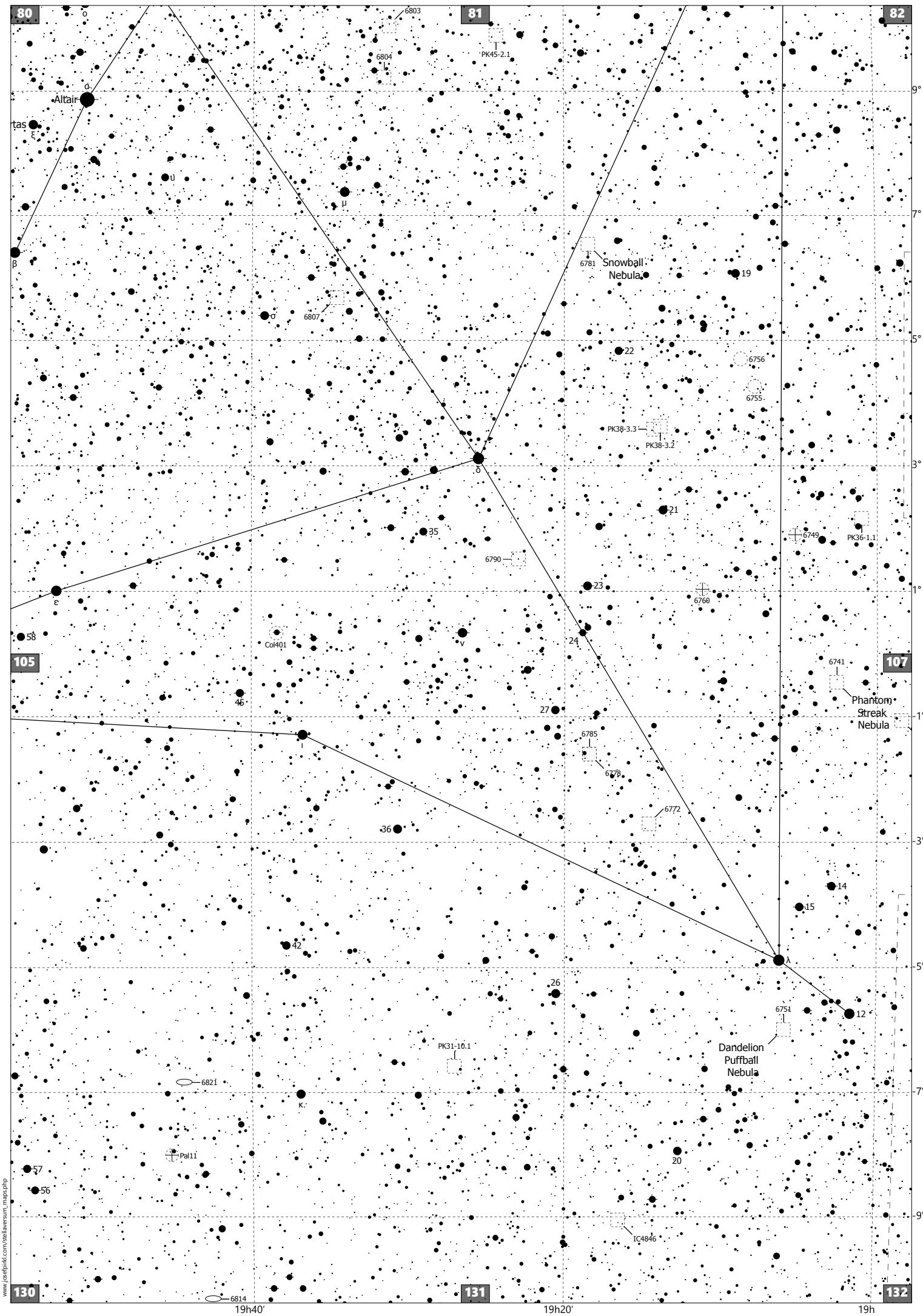

Chart 101
RA:23.22;0.50 DEC:28.17;7.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
75
76
52
100
77
125
126
102
Pegasus
Algenib
γ
Alkarab
Salm
UGC12914
UGC12843
PGC473
IC1508
IC1486
UGC12613
26°
24°
22°
20°
18°
16°
14°
12°
10°
8°
0h20′
0h
23h40′
www.jsofpirkl.com/stellaversum_maps.php

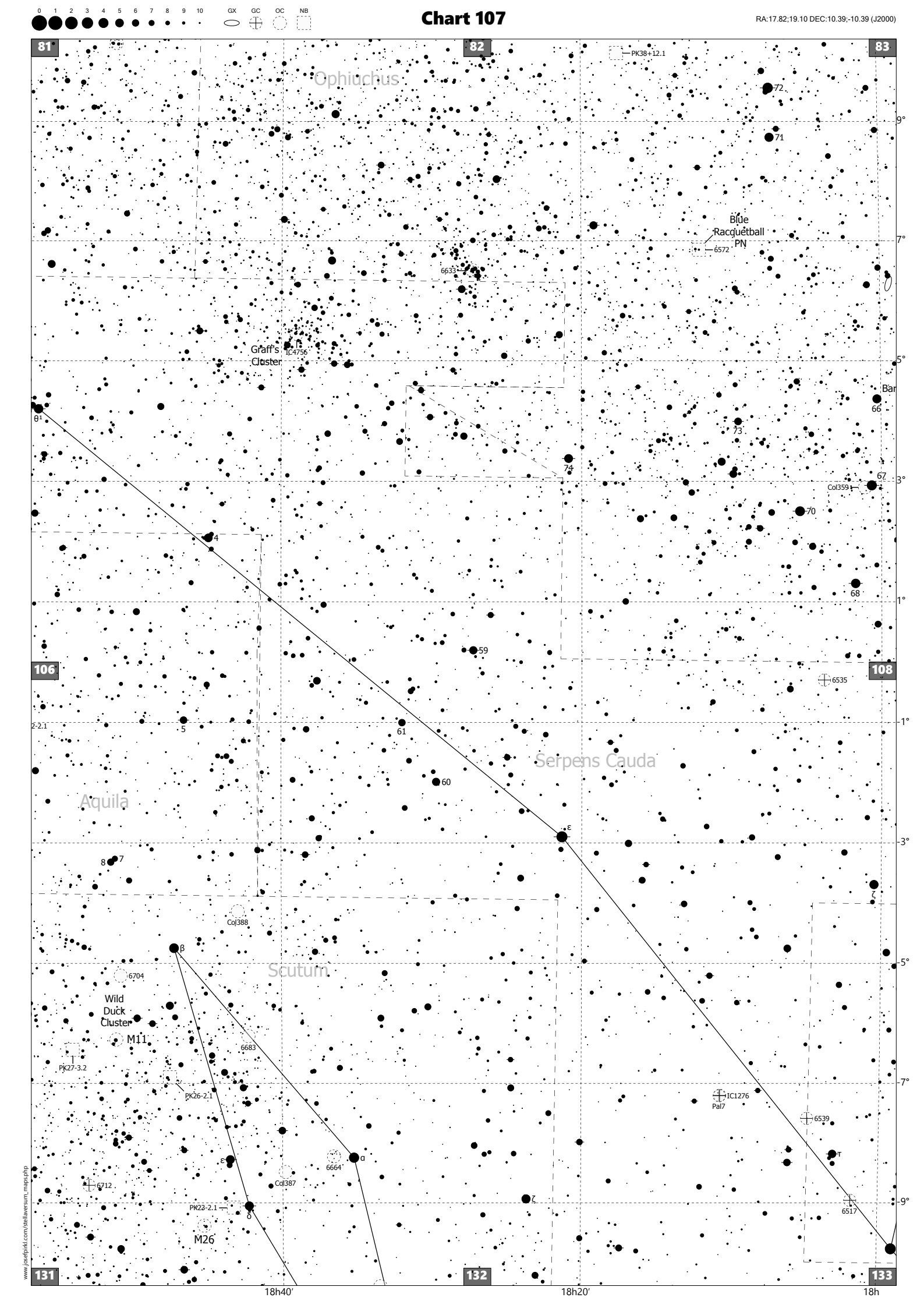

Chart 102
RA:22.72;0.00 DEC:10.39;-10.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
101
77
78
126
103
151
127
128
Fumalsamakah
Pisces
Aquarius
23h40'
23h20'
23h
9°
7°
5°
3°
1°
-1°
-3°
-5°
-7°
-9°
www.josefpirkl.com/stellaversum_maps.php

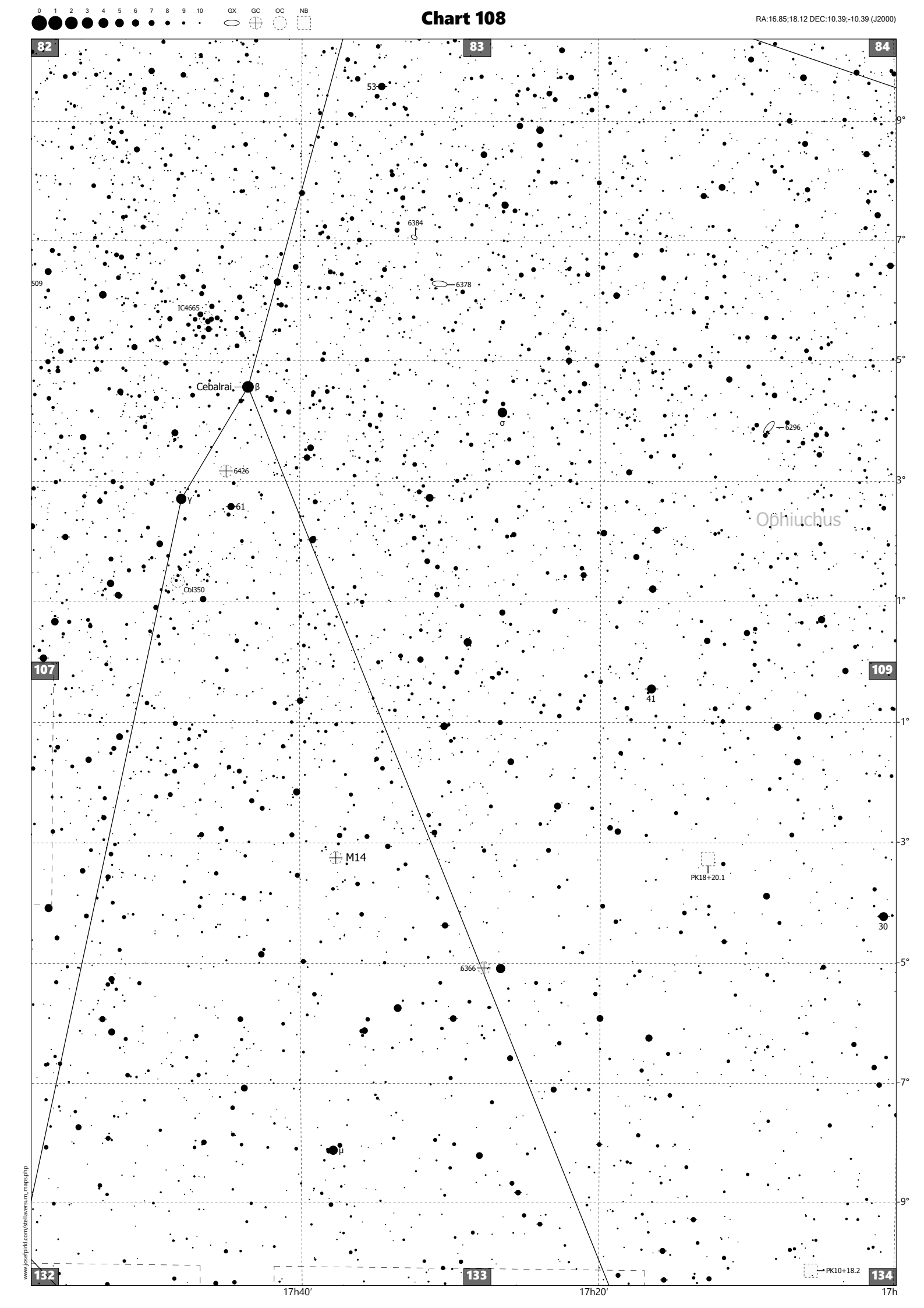

Chart 103
RA:21.74;23.02 DEC:10.39;-10.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
77
78
79
102
104
127
128
129
Pegasus
Biham
θ
Sadalmelik
α
Sadachbia γ
Situla
κ
Ancha
θ
ρ
UGC12178
7328
36
7362
19
18
7312
7311
30
ν
35
37
34
7360
7367
7373
3°
7222
7396
η
1°
7189
28
7215
7364
ε
ζ1
7198
32
7391
60
PGC69448
PGC69293
7288
PGC68743
7266
7260
7257
7344
7351
IC1447
44
7170
7393
PGC69404
30
67
72
64
65
5°
7°
9°
22h40′
22h20′
22h
www.josefpirkl.com/stellaversum_maps.php

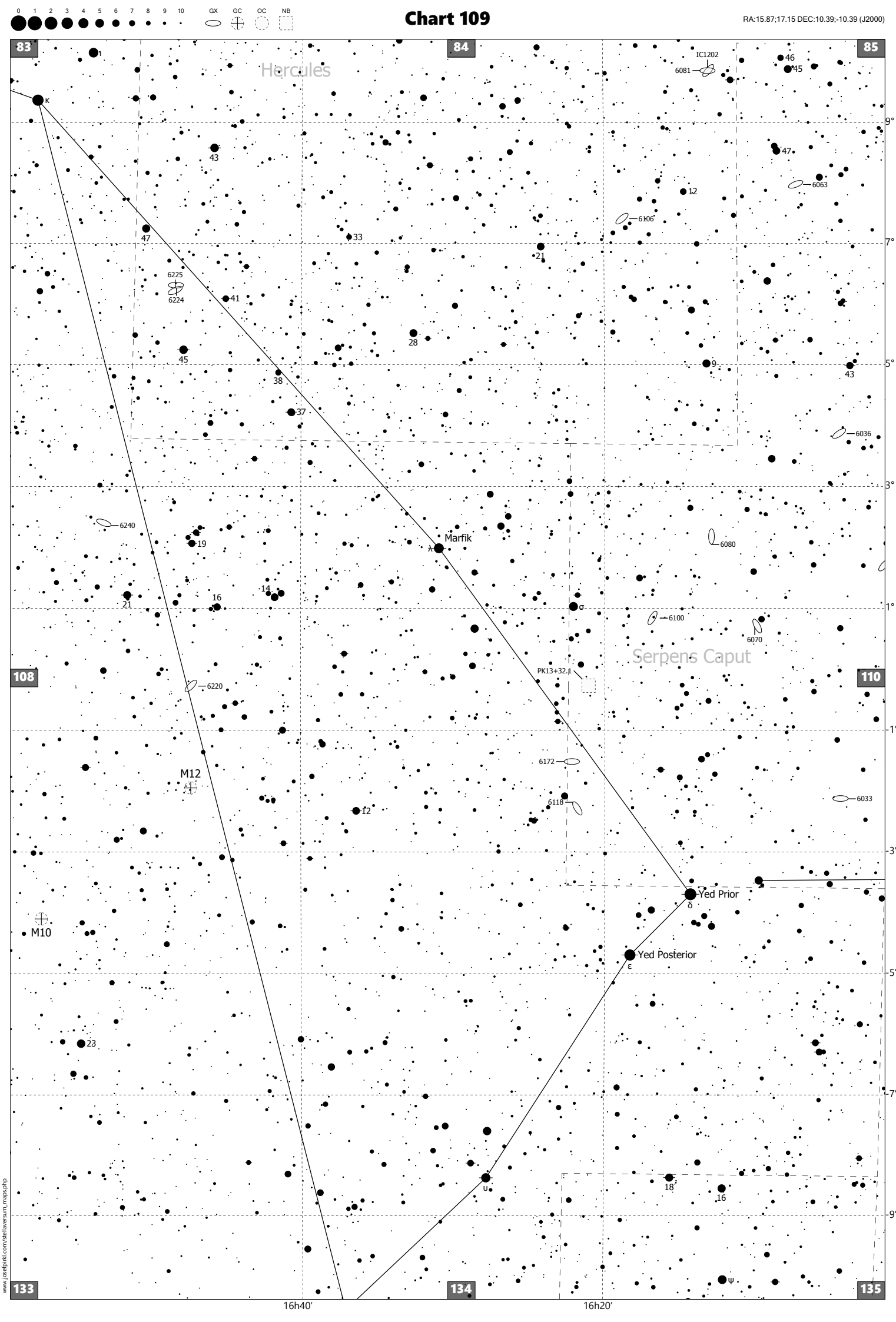

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 104
RA:20.76;22.04 DEC:10.39;-10.39 (J2000)
78
79
80
103
105
128
129
130
Enif
ε
7101
7040
δ
γ
9
2
β
7102
3
Equuleus
7
4
4
3
Kitalpha
α
ε
7149
56
11
7081
7077
7046
25
26
24
7001
Aquarius
M2
7047
7069
7121
20
21
16
15
11
10
12
Sadalsuud
β
7065
ξ Bunda
46
47
7051
14
17
19
7
9°
7°
5°
3°
1°
1°
3°
5°
7°
9°
21h40′
21h20′
21h
www.josefpirkl.com/stellaversum_maps.php

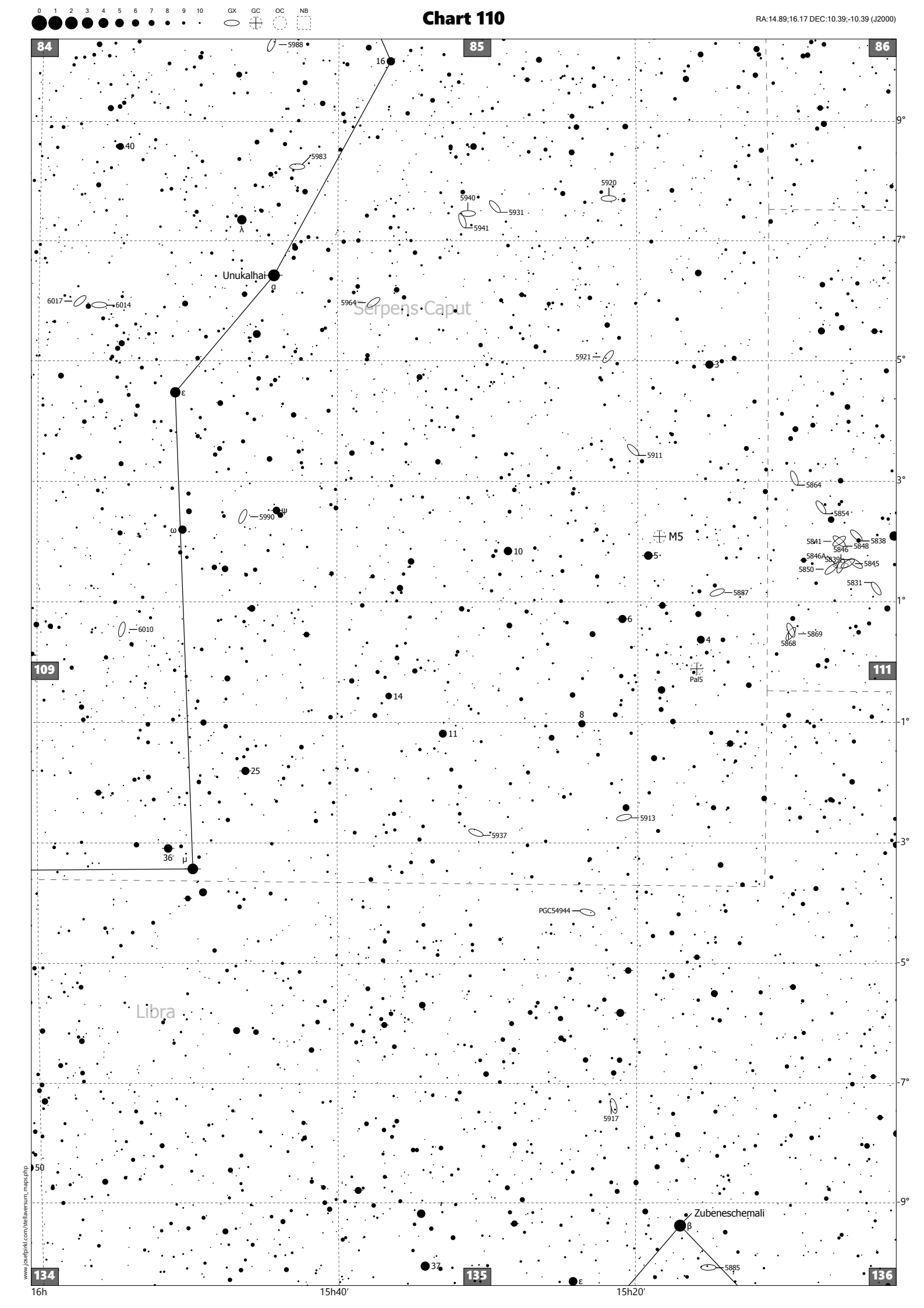

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 105
RA:19.78;21.06 DEC:10.39;-10.39 (J2000)
79
80
81
Delphinus
6972
6928
6930
6917
6934
6944
IC5006
6906
6901
6971
14
18
6953
6955
6852
6959
6967
6961
6964
6962
1
104
106
θ
64
62
66
71
6929
6926
6922
70
6900
69
6915
68
6941
6945
3
5
4
78
6975
6976
6977
PGC65131
Aquila
6968
μ
Albali
ε
Capricornus
9°
7°
5°
3°
1°
1°
3°
5°
7°
9°
129
130
131
20h40′
20h20′
20h
www.josefpirkl.com/stellaversum_maps.php

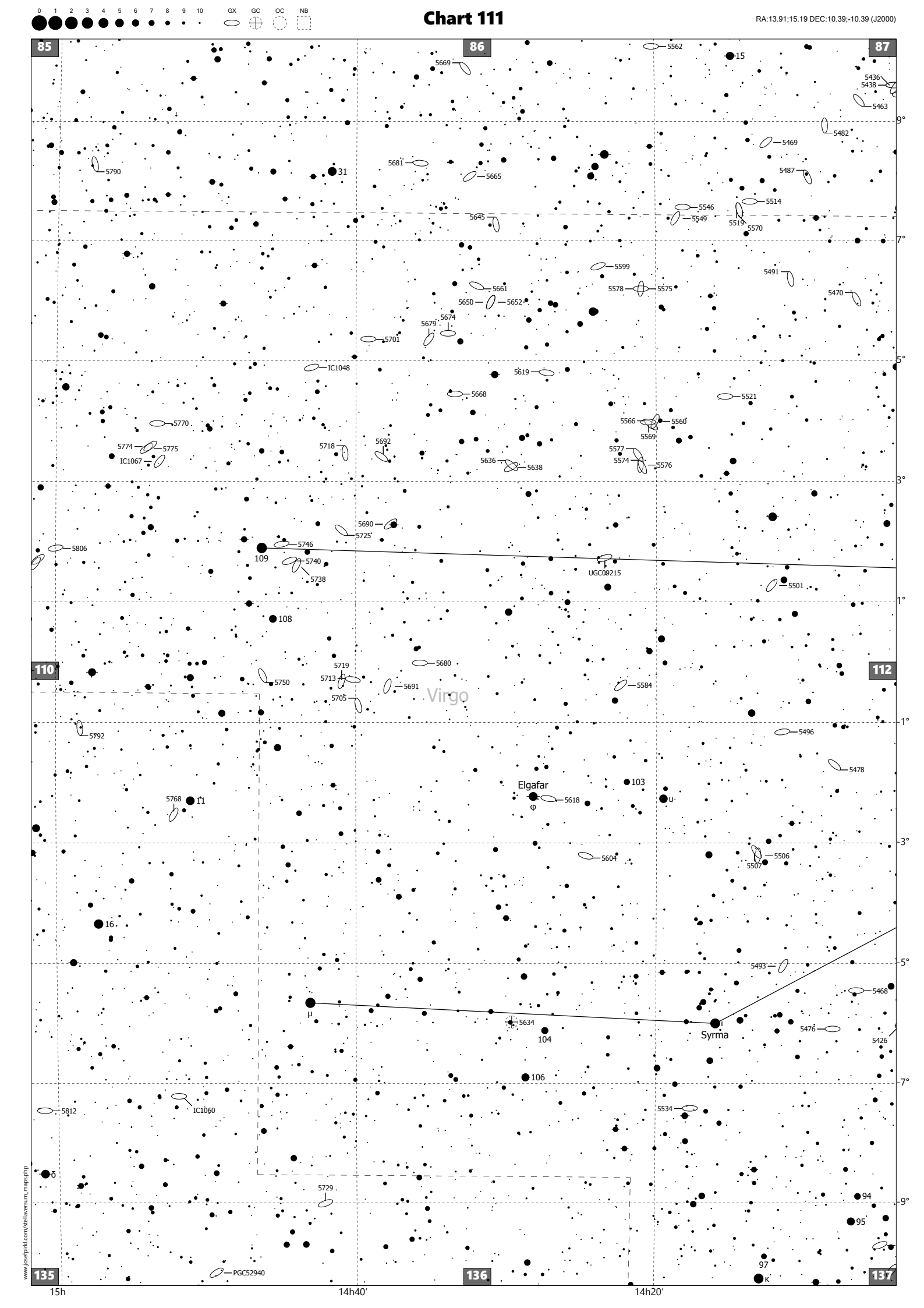

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 106
RA:18.80;20.08 DEC:10.39;-10.39 (J2000)
80
81
82
105
107
130
131
132
Altair
tas
Snowball Nebula
Phantom Streak Nebula
Dandelion Puffball Nebula
PK45-2.1
PK38-3.3
PK38-3.2
PK36-1.1
PK31-10.1
Col401
Pal11
IC4846
6803
6804
6781
6807
6756
6755
6749
6790
6760
6741
6785
6778
6772
6751
6821
6814
9°
7°
5°
3°
1°
1°
3°
5°
7°
9°
19h40'
19h20'
19h
www.jsfdpinkl.com/stellaversum_maps.php

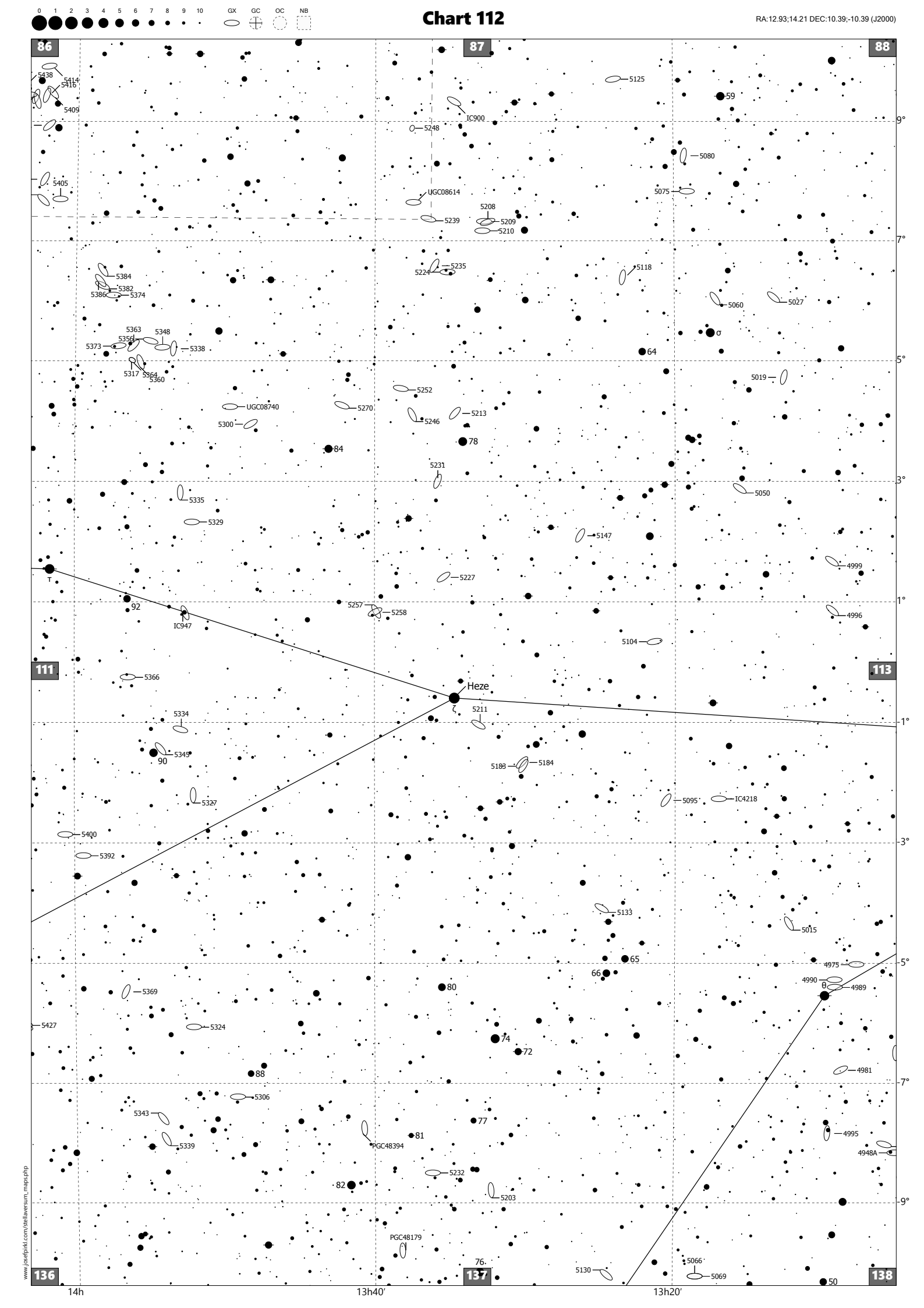

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 107
RA:17.82;19.10 DEC:10.39;-10.39 (J2000)
81
82
83
Ophiuchus
PK38+12.1
72
71
Blue
Racquetball
PN
6572
6633
Graff's
Cluster
IC4756
θ¹
66
73
74
67
Col359
70
68
4
59
106
108
6535
5
61
Serpens Cauda
60
Aquila
ε
8
7
ζ
Col388
β
Scutum
6704
Wild
Duck
Cluster
M11
6683
PK27-3.2
PK26-2.1
IC1276
Pal7
6539
6664
α
ε
Col387
6712
PK23-2.1
δ
M26
6517
131
132
133
18h40′
18h20′
18h
www.jsefpirkl.com/stellaversum_maps.php

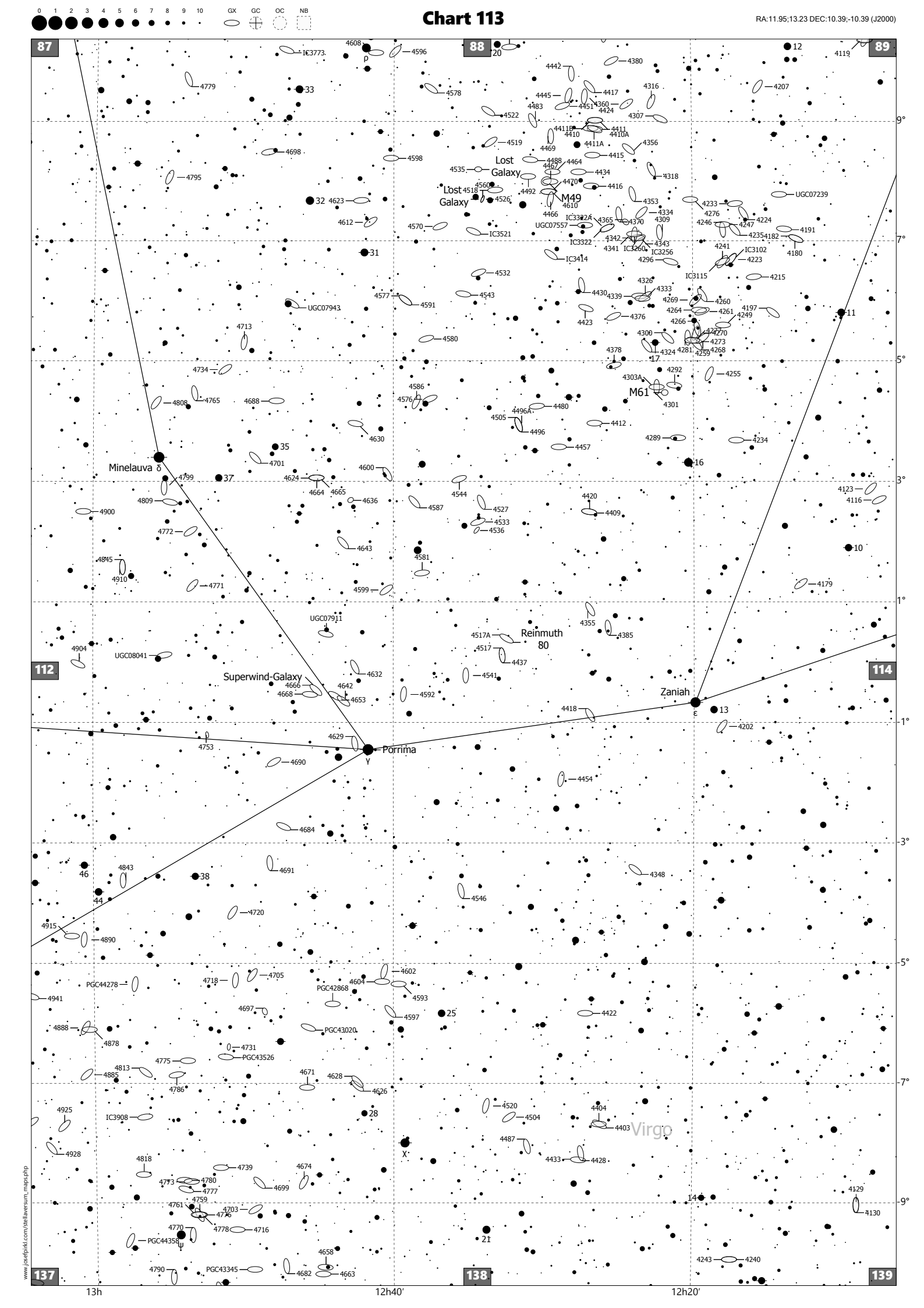

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 108
RA:16.85;18.12 DEC:10.39;-10.39 (J2000)
82
83
84
107
109
132
133
134
53
6384
509
6378
IC4665
Cebalrai
β
σ
6296
6426
γ
61
Ophiuchus
Cbl350
41
M14
PK18+20.1
30
6366
μ
PK10+18.2
9°
7°
5°
3°
1°
1°
3°
5°
7°
9°
17h40'
17h20'
17h
www.jsefpirkl.com/stellaversum_maps.php

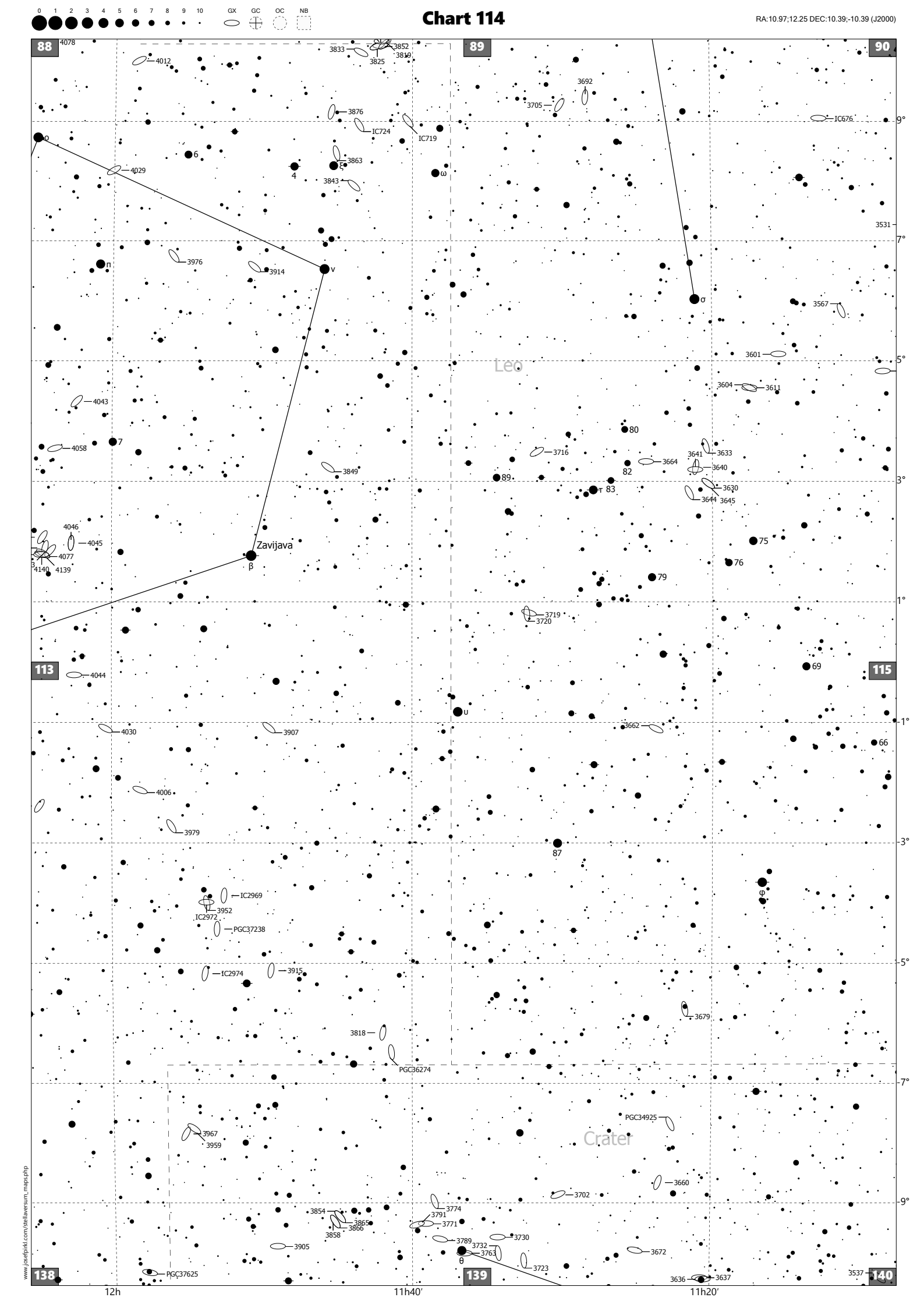

Chart 109
RA:15.87;17.15 DEC:10.39;-10.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
83
84
85
108
110
133
134
135
Hercules
Serpens Caput
Marfik
Yed Prior
Yed Posterior
M10
M12
IC1202
6081
6063
6106
6225
6224
6240
6220
6080
6100
6070
6172
6118
6033
6036
PK13+32.1
9°
7°
5°
3°
1°
1°
3°
5°
7°
9°
16h40'
16h20'
www.jsefpirkl.com/stellaversum_maps.php


0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 110
RA:14.89;16.17 DEC:10.39;-10.39 (J2000)
84
85
86
109
111
134
135
136
Unukalhai
Serpens Caput
Libra
M5
Pal5
Zubeneschemali
5988
16
40
5983
5940
5931
5920
5941
λ
α
6017
6014
5964
5921
3
ε
5911
5864
5854
5990
ψ
ω
10
5
5841
5838
5846
5848
5846A
5839
5845
5850
5831
5887
6
6010
4
5869
5868
14
8
11
25
5913
5937
36
μ
PGC54944
5917
50
37
β
5885
9°
7°
5°
3°
1°
-1°
-3°
-5°
-7°
-9°
16h
15h40′
15h20′
www.jsefpirkl.com/stellaversum_maps.php

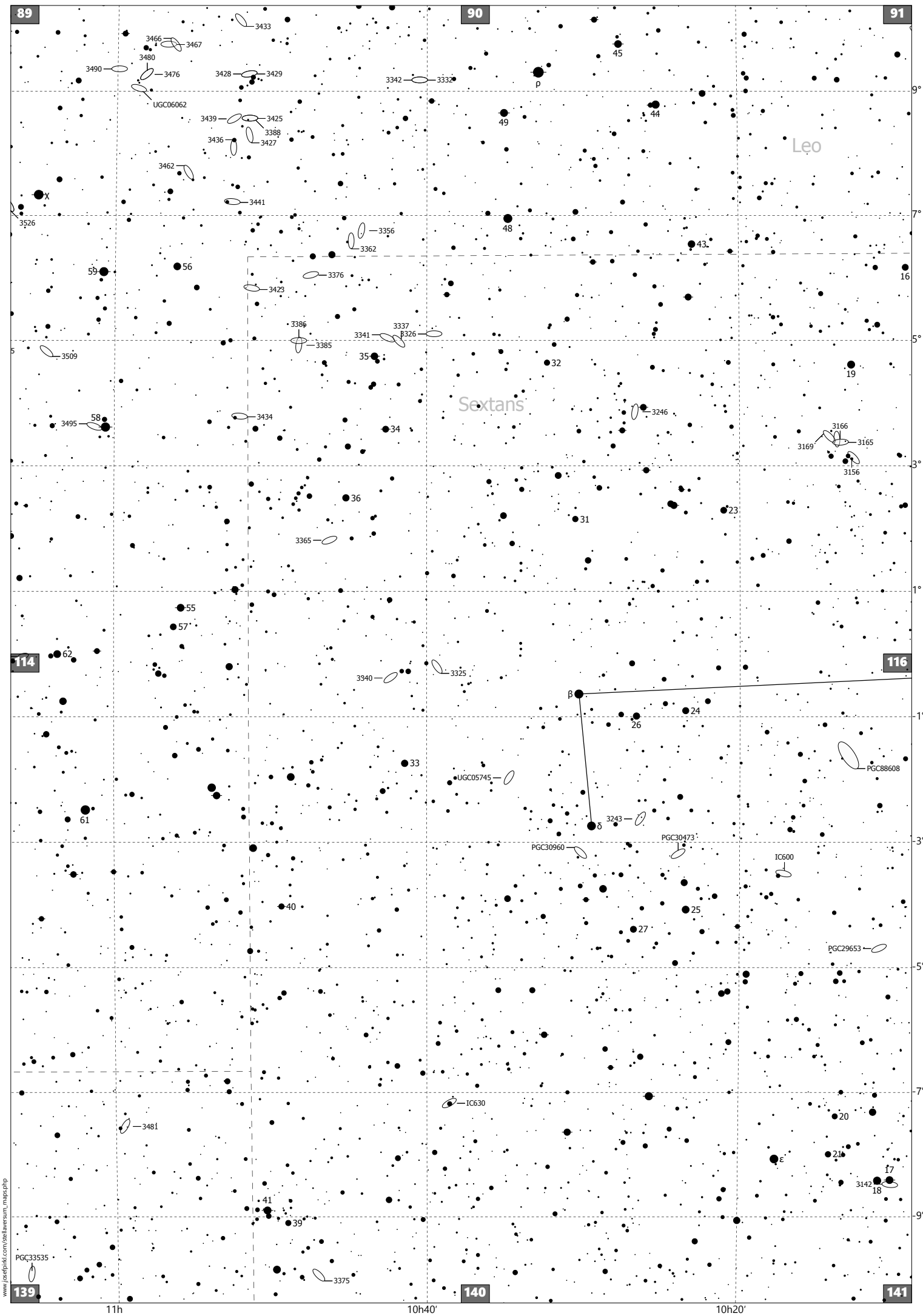

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 111
RA:13.91;15.19 DEC:10.39;-10.39 (J2000)
85
86
87
110
112
135
136
137
Virgo
Elgafar
Syrma
UGC09215
IC1048
IC1067
IC1060
PGC52940
5562
5669
5436
5438
5463
5482
5469
5790
5681
5665
5487
5546
5514
5645
5549
5519
5570
5599
5491
5661
5578
5575
5470
5650
5652
5679
5674
5701
5619
5668
5521
5770
5566
5560
5569
5774
5775
5718
5692
5577
5574
5576
5636
5638
5690
5725
5806
5746
109
5740
5738
5501
108
5719
5713
5680
5750
5691
5705
5584
5792
5496
5478
103
5768
11
5618
φ
u
5604
5506
5507
16
5493
5468
μ
5634
104
5476
5426
106
5812
5534
δ
5729
94
95
97
κ
www.josefpirkl.com/stellaversum_maps.php
15h
14h40'
14h20'

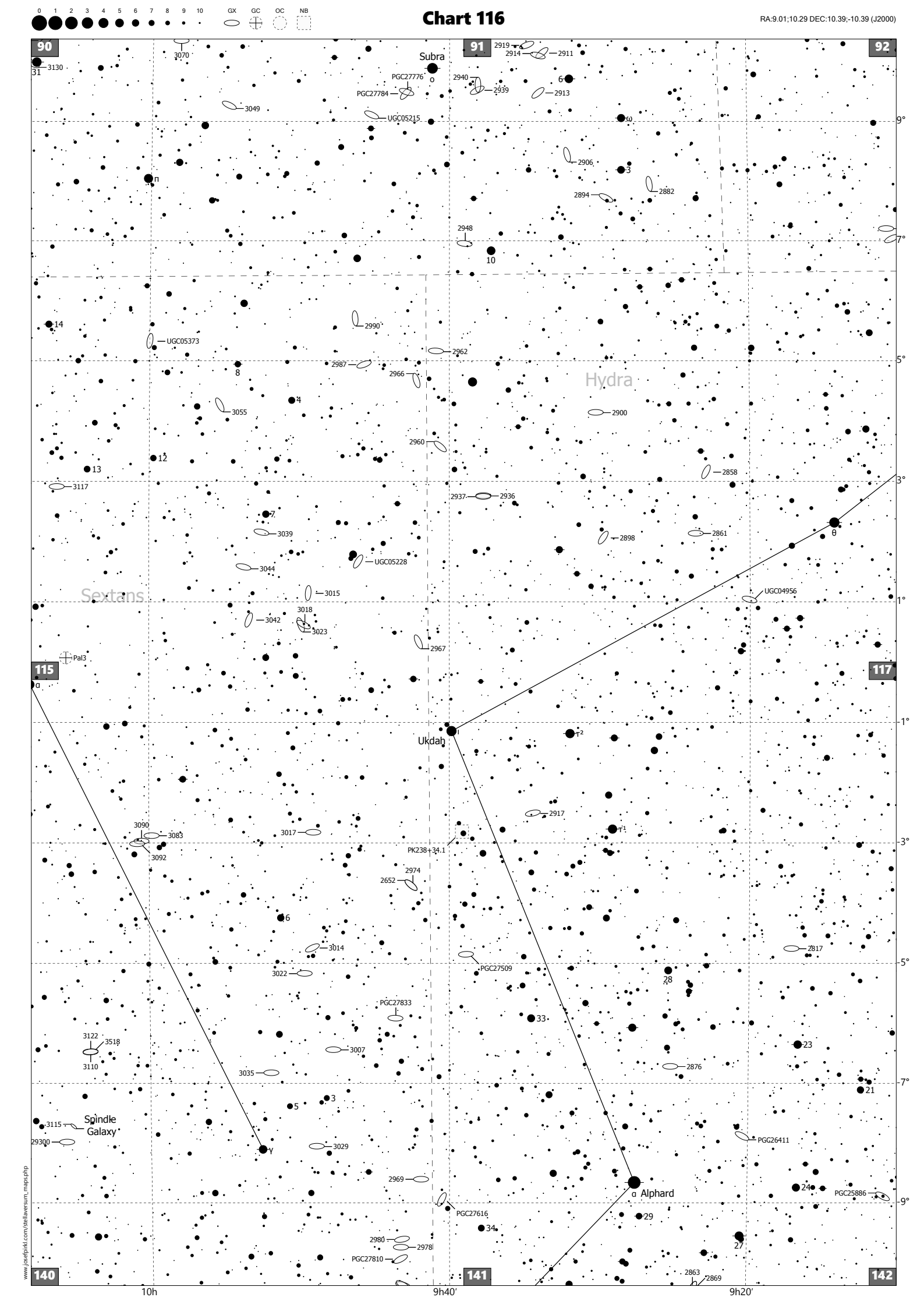

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 112
RA:12.93;14.21 DEC:10.39;-10.39 (J2000)
86
87
88
111
113
136
137
138
Heze
ζ
IC900
IC947
IC4218
UGC08614
UGC08740
PGC48394
PGC48179
5438
5414
5416
5409
5405
5125
59
5248
5080
5075
5208
5239
5209
5210
5235
5224
5118
5384
5382
5386
5374
5060
5027
5363
5350
5348
5373
5338
σ
64
5317
5364
5360
5019
5252
5270
5213
5246
5300
78
84
5231
5335
5329
5050
5147
4999
5227
92
5257
5258
4996
5104
5366
5334
90
5345
5211
5189
5184
5327
5095
5400
5392
5133
5015
65
66
4975
4990
θ
4989
5369
80
5427
5324
74
72
4981
88
5306
5343
77
4995
5339
81
4948A
5232
82
5203
5130
5066
5069
50
76.
14h
13h40′
13h20′
www.josefpirkl.com/stellaversum_maps.php

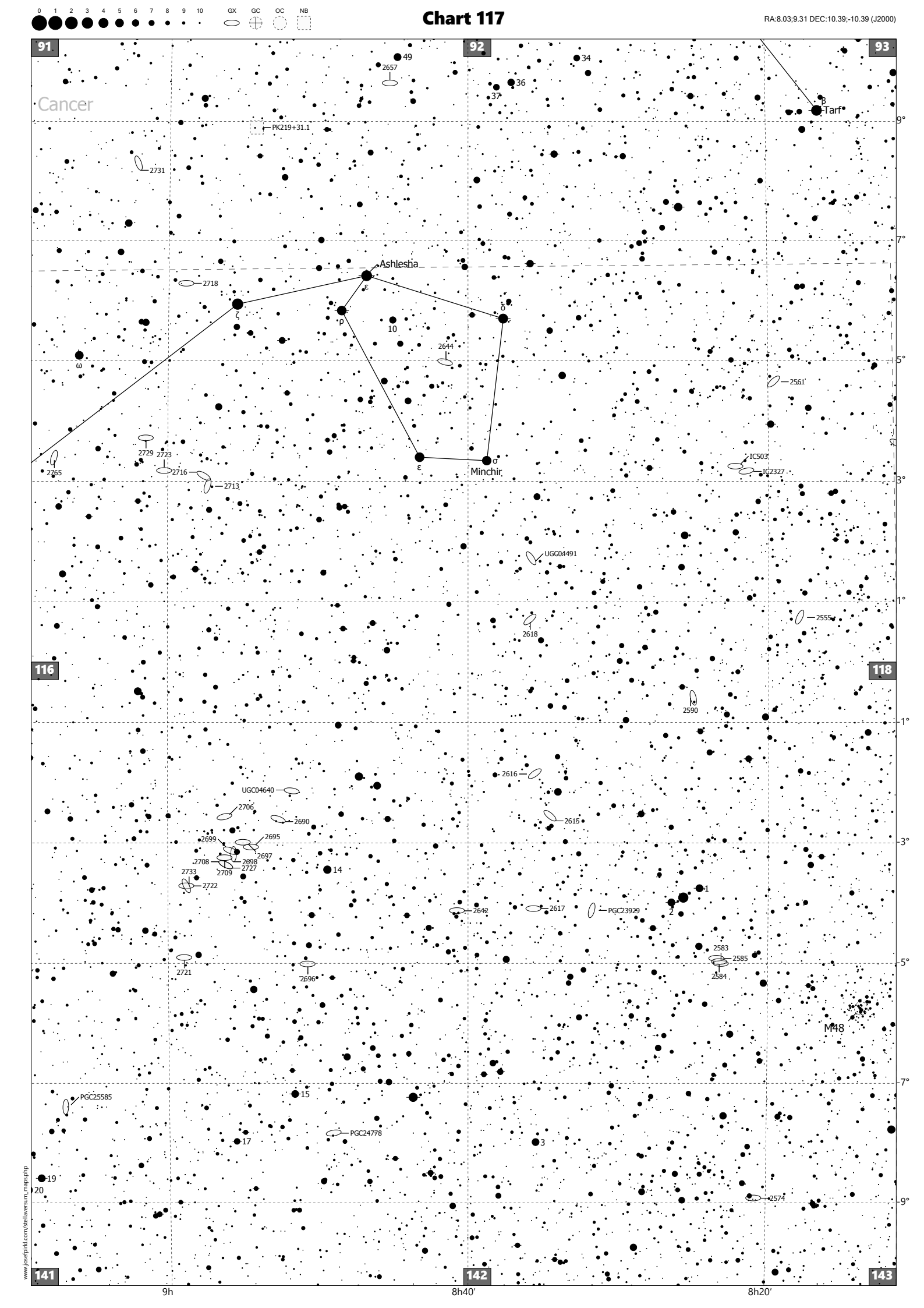

Chart 113
RA:11.95;13.23 DEC:10.39;-10.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
87
88
89
112
114
137
138
139
Minelauva
δ
Porrima
γ
Zaniah
ε
Lost Galaxy
Lost Galaxy
M49
M61
Reinmuth 80
Superwind-Galaxy
Virgo
9°
7°
5°
3°
1°
1°
3°
5°
7°
9°
13h
12h40'
12h20'
www.josefpirkl.com/stellaversum_maps.php



www.jsefpirkl.com/stellaversum_maps.php


Chart 115
RA:9.99;11.27 DEC:10.39;-10.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
89
90
91
114
116
139
140
141
Leo
Sextans
3433
3466
3467
3480
3490
3476
3428
3429
UGC06062
3439
3425
3388
3436
3427
3462
3441
3526
3356
3362
3376
3423
3386
3385
3337
3341
3326
3509
3495
3434
3246
3166
3169
3165
3156
3365
3340
3325
UGC05745
3243
PGC88608
PGC30473
PGC30960
IC600
PGC29653
IC630
3481
3142
PGC33535
3375
ρ
β
δ
ε
11h
10h40'
10h20'
www.jsefpirkl.com/stellaversum_maps.php


Chart 116
RA:9.01;10.29 DEC:10.39;-10.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
90
91
92
115
117
140
141
142
Subra
Hydra
Sextans
Ukdah
Alphard
Spindle Galaxy
Pal3
PK238+34.1
UGC05373
UGC05215
UGC05228
UGC04956
PGC27776
PGC27784
PGC27509
PGC27833
PGC27616
PGC27810
PGC26411
PGC25886
3070
3130
3049
2919
2914
2911
2940
2939
2913
2906
2894
2882
2948
2990
2962
2987
2966
3055
2900
2960
2858
3117
2937
2936
3039
2898
2861
3044
3015
3018
3042
3023
2967
2917
3090
3083
3092
3017
2974
2652
3014
3022
2817
3122
3518
3110
3007
3035
2876
3115
29300
3029
2969
2980
2978
2863
2869
10h
9h40′
9h20′
9°
7°
5°
3°
1°
-1°
-3°
-5°
-7°
-9°
www.josefpirkl.com/stellaversum_maps.php


Chart 117
RA:8.03;9.31 DEC:10.39;-10.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
91
92
93
116
118
141
142
143
Cancer
Ashlesha
Minchir
β Tarf
PK219+31.1
UGC04491
UGC04640
PGC23929
PGC25585
PGC24778
M48
2731
2718
2644
2561
2729
2723
2765
2716
2713
IC503
IC2327
2555
2618
2590
2616
2706
2690
2615
2699
2695
2697
2708
2698
2727
2709
2733
2722
2642
2617
2721
2696
2583
2585
2584
2574
49
2657
34
36
37
10
14
15
17
19
20
3
1
2
9°
7°
5°
3°
1°
-1°
-3°
-5°
-7°
-9°
9h
8h40′
8h20′
www.jsefpirkl.com/stellaversum_maps.php

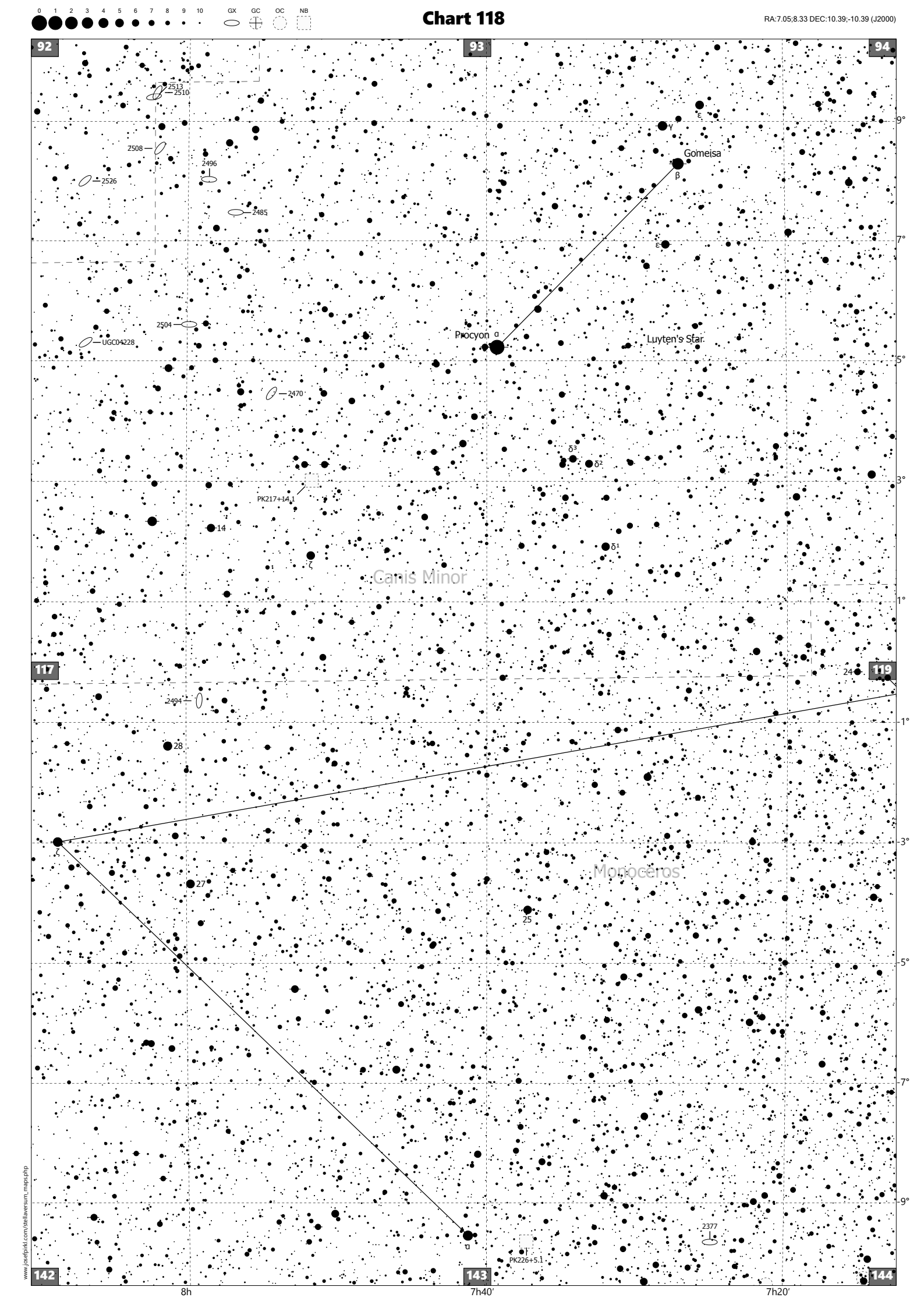
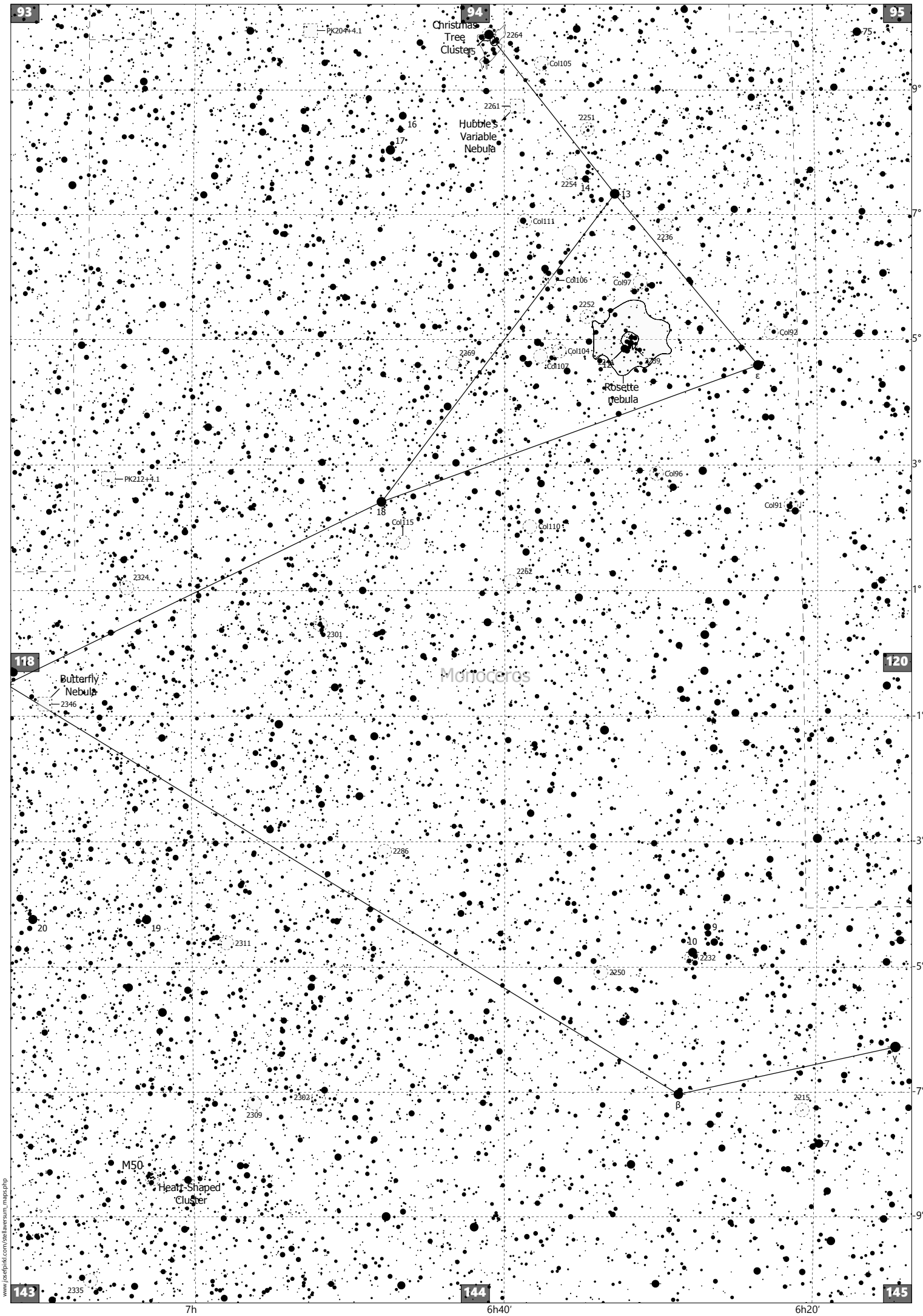
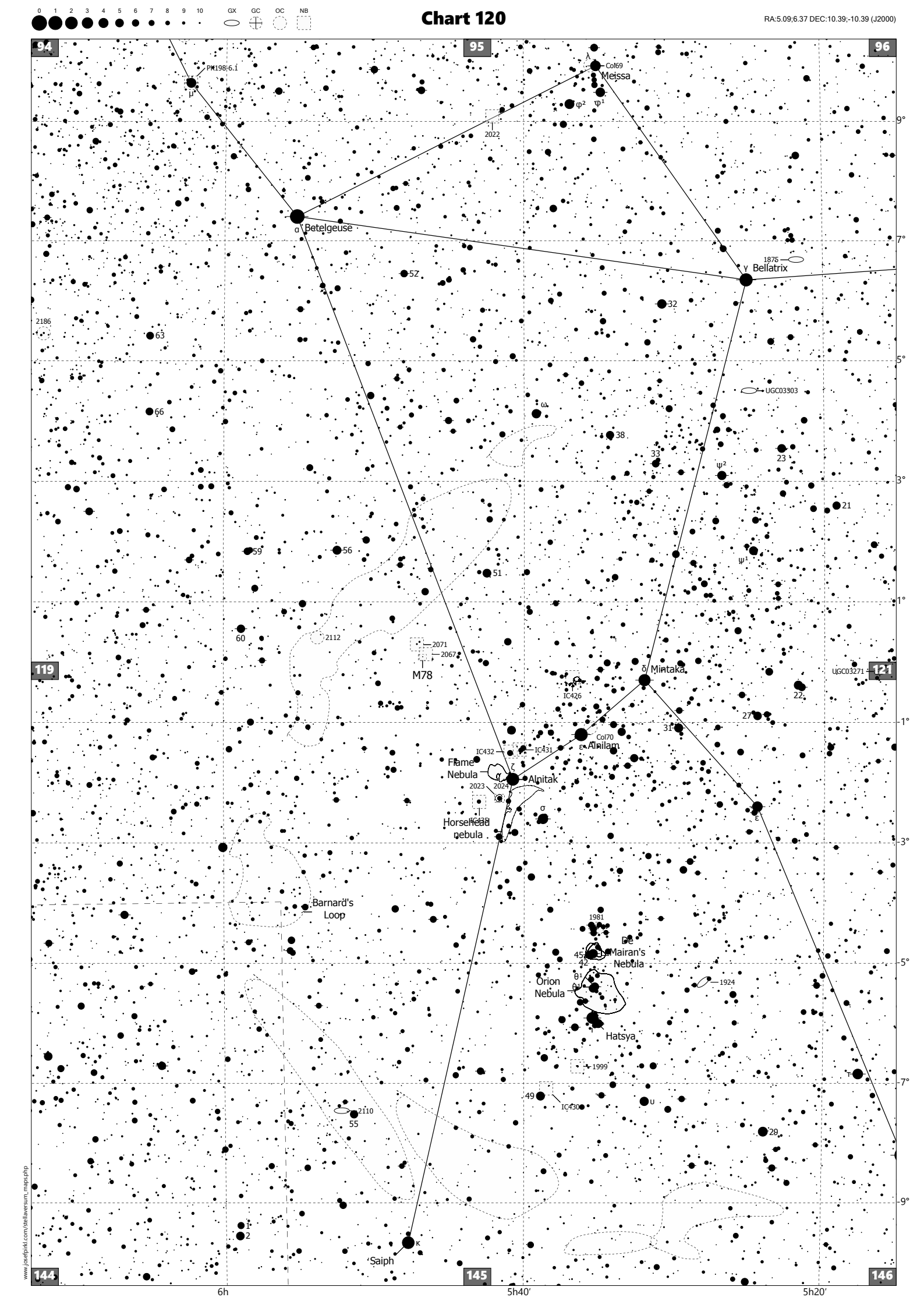

0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
Chart 118
RA:7.05;8.33 DEC:10.39;-10.39 (J2000)
92
93
94
117
119
142
143
144
2513
2510
2508
2496
2526
2485
2504
UGC04228
2470
2494
PK217+14.1
PK226+5.1
2377
Gomeisa
Procyon
Luyten's Star
Canis Minor
Monoceros
9°
7°
5°
3°
1°
1°
3°
5°
7°
9°
8h
7h40'
7h20'
www.jsfdpinkl.com/stellaversum_maps.php

Chart 119

RA:6.07;7.35 DEC:10.39;-10.39 (J2000)



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Chart 120
RA:5.09;6.37 DEC:10.39;-10.39 (J2000)
0 1 2 3 4 5 6 7 8 9 10
GX GC OC NB
94
95
96
119
121
144
145
146
Betelgeuse
Bellatrix
Meissa
Mintaka
Alnilam
Alnitak
Saiph
M78
Flame Nebula
Horsehead nebula
Barnard's Loop
Orion Nebula
De Mairan's Nebula
Hatsya
UGC03303
UGC03271
IC426
IC432
IC431
IC434
IC430
Col69
Col70
PK198-6.1
6h
5h40'
5h20'
www.jsefpirkl.com/stellaversum_maps.php