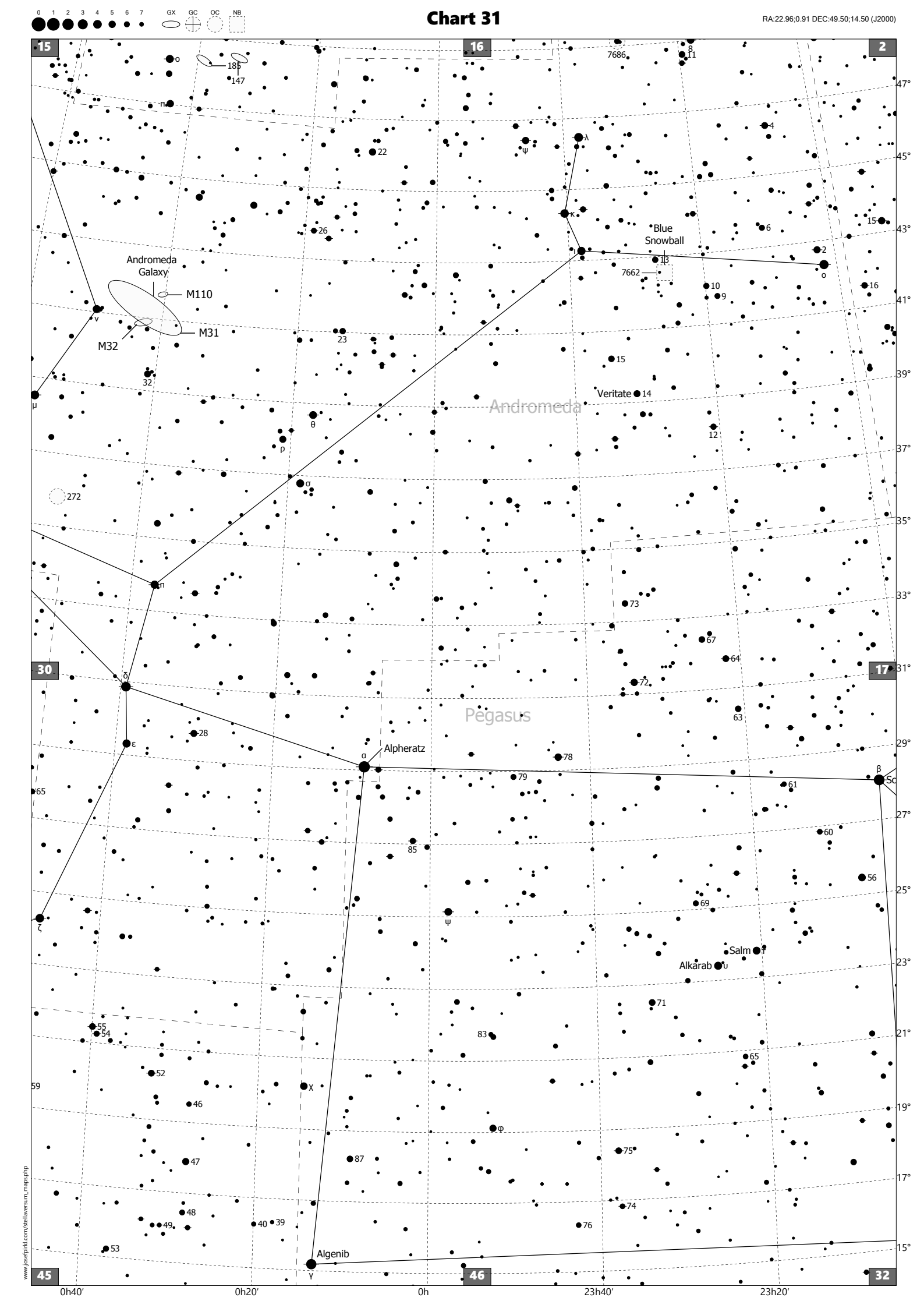
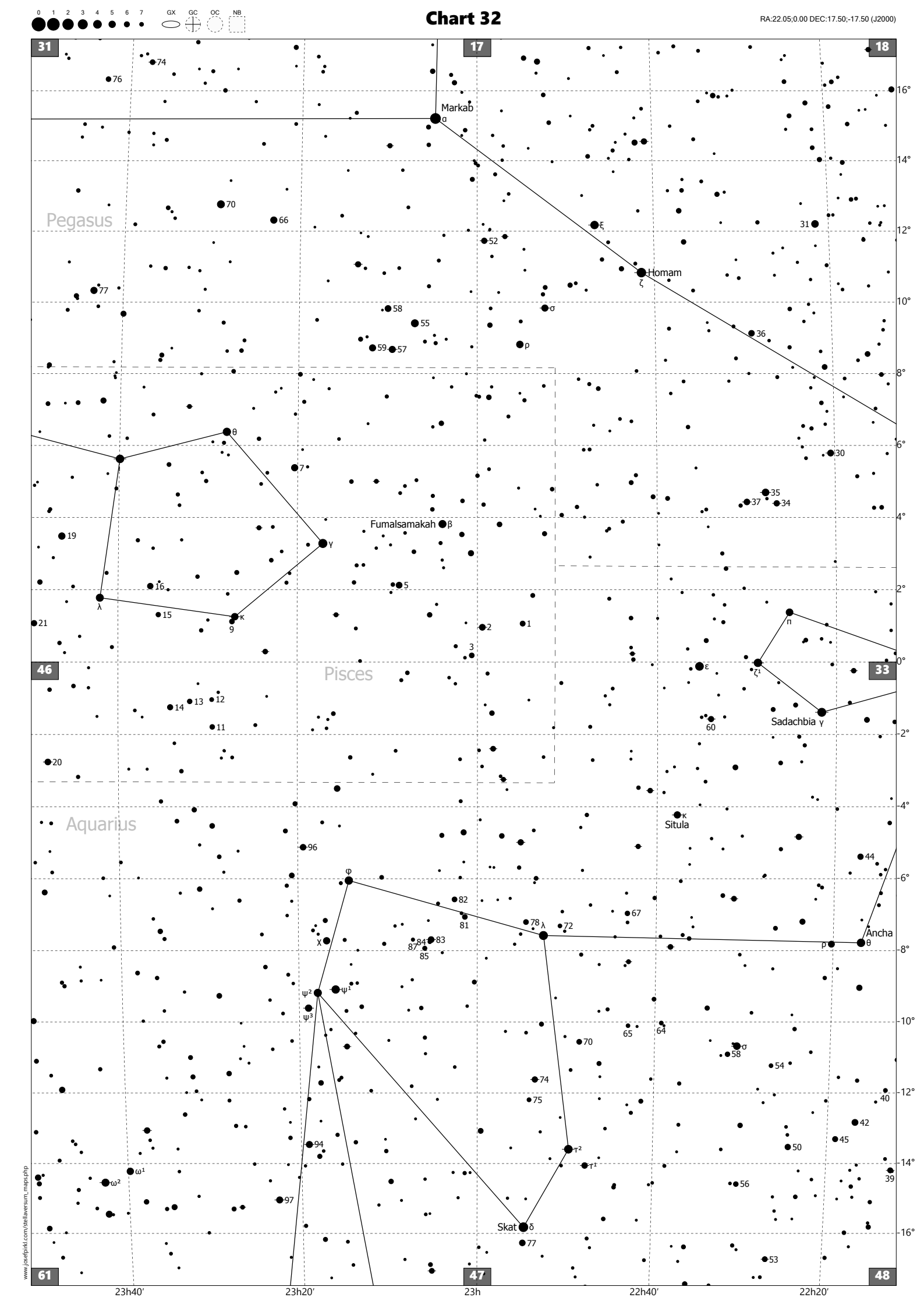
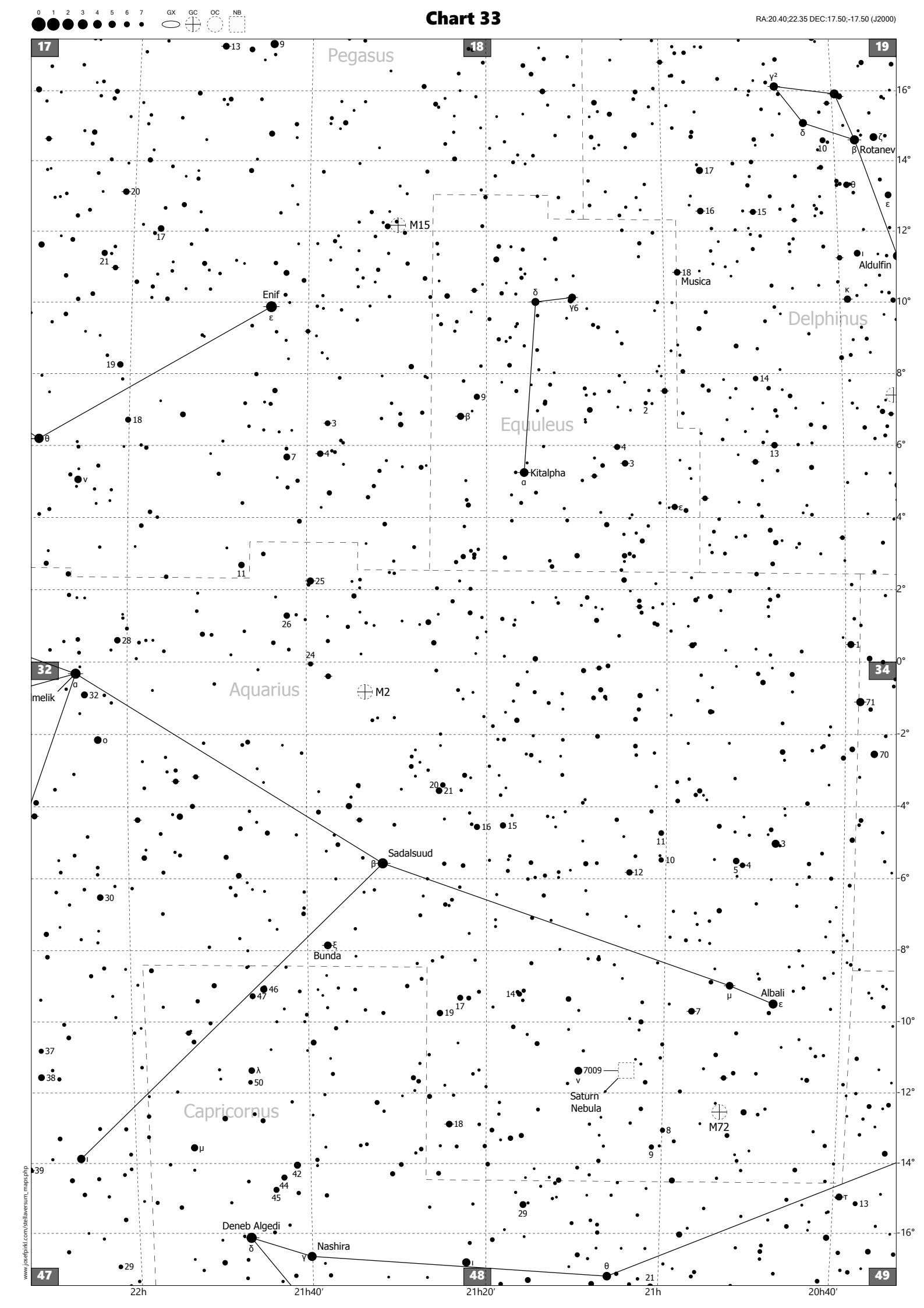
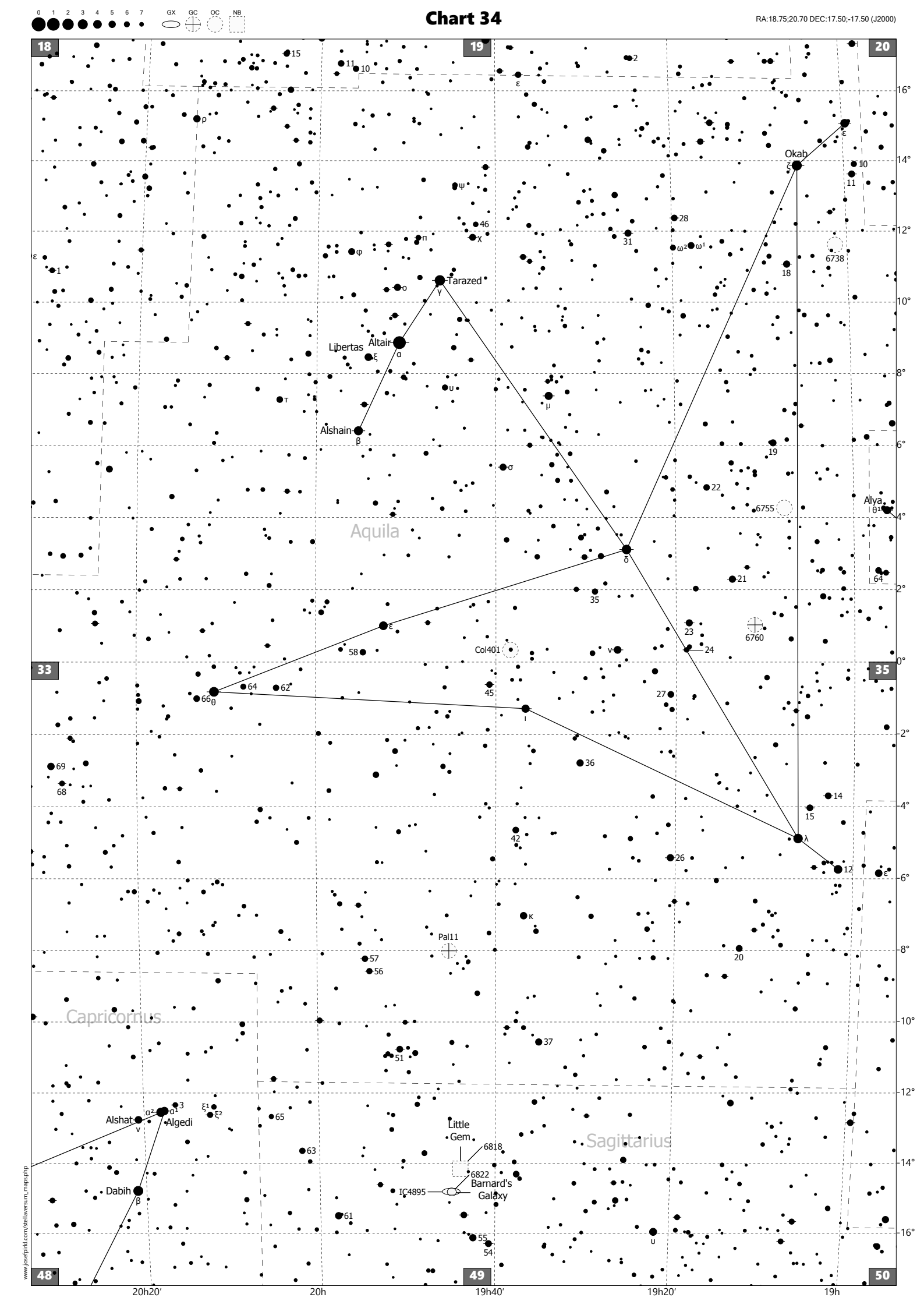
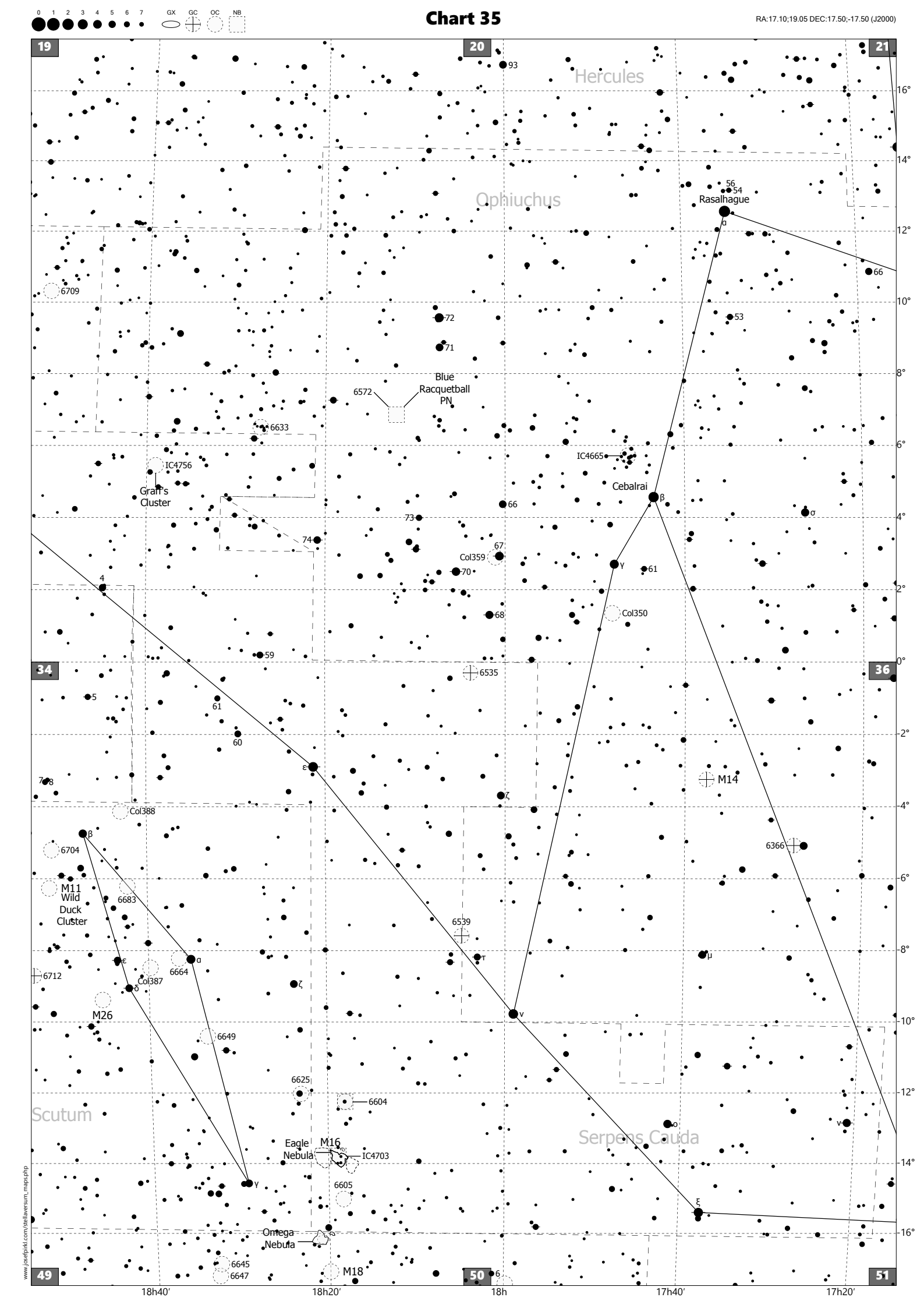

Chart 31
RA:22.96;0.91 DEC:49.50;14.50 (J2000)
0 1 2 3 4 5 6 7
GX GC OC NB
15
16
2
30
17
45
46
32
Andromeda Galaxy
M110
M31
M32
Blue Snowball
Veritate
Andromeda
Pegasus
Alpheratz
Algenib
Salm
Alkarab
0h40′
0h20′
0h
23h40′
23h20′
47°
45°
43°
41°
39°
37°
35°
33°
31°
29°
27°
25°
23°
21°
19°
17°
15°
www.josefpirkl.com/stellaversum_maps.php


Chart 32
RA:22.05;0.00 DEC:17.50;-17.50 (J2000)
0 1 2 3 4 5 6 7 GX GC OC NB
31
17
18
Markab
α
Pegasus
Homam
ζ
Fumalsamakah
β
Pisces
Sadachbia
γ
Aquarius
Situla
κ
Ancha
θ
Skat
δ
46
33
61
47
48
16°
14°
12°
10°
8°
6°
4°
2°
0°
-2°
-4°
-6°
-8°
-10°
-12°
-14°
-16°
23h40'
23h20'
23h
22h40'
22h20'
www.josefpirkl.com/stellaversum_maps.php


Chart 33
RA:20.40;22.35 DEC:17.50;-17.50 (J2000)
0 1 2 3 4 5 6 7 GX GC OC NB
17
18
19
32
34
47
48
49
Pegasus
Equuleus
Delphinus
Aquarius
Capricornus
Musica
M15
M2
M72
Enif
Kitalpha
Aldulfin
β Rotanev
Sadalsuud
Bunda
Albali
melik
Saturn Nebula
7009
Deneb Algedi
Nashira
16°
14°
12°
10°
8°
6°
4°
2°
0°
-2°
-4°
-6°
-8°
-10°
-12°
-14°
-16°
22h
21h40'
21h20'
21h
20h40'
www.josefpirkl.com/stellaversum_maps.php


Chart 34
RA:18.75;20.70 DEC:17.50;-17.50 (J2000)
0 1 2 3 4 5 6 7 GX GC OC NB
18
19
20
33
35
48
49
50
Aquila
Capricornus
Sagittarius
Tarazed
Altair
Libertas
Alshain
Okab
Alya
Col401
Pal11
Little Gem
6738
6755
6760
6818
6822
IC4895
Barnard's Galaxy
Alshat
Algedi
Dabih
20h20'
20h
19h40'
19h20'
19h
www.josefpirkl.com/stellaversum_maps.php


Chart 35
RA:17.10;19.05 DEC:17.50;-17.50 (J2000)
0 1 2 3 4 5 6 7
GX GC OC NB
19
20
21
34
36
49
50
51
Hercules
Ophiuchus
Scutum
Serpens Cauda
Rasalhague
Cebalrai
Blue Racquetball PN
Graff's Cluster
M11 Wild Duck Cluster
M26
M14
M16
Eagle Nebula
IC4703
Omega Nebula
M18
IC4665
IC4756
6572
6633
6709
6704
6712
6683
6664
6649
6625
6604
6605
6645
6647
6535
6539
6366
Col359
Col350
Col388
Col387
93
56
54
66
53
72
71
73
74
67
70
61
68
59
4
5
61
60
7
8
6
18h40'
18h20'
18h
17h40'
17h20'
16°
14°
12°
10°
8°
6°
4°
2°
0°
-2°
-4°
-6°
-8°
-10°
-12°
-14°
-16°
www.joseforkl.com/stellaversum_maps.php

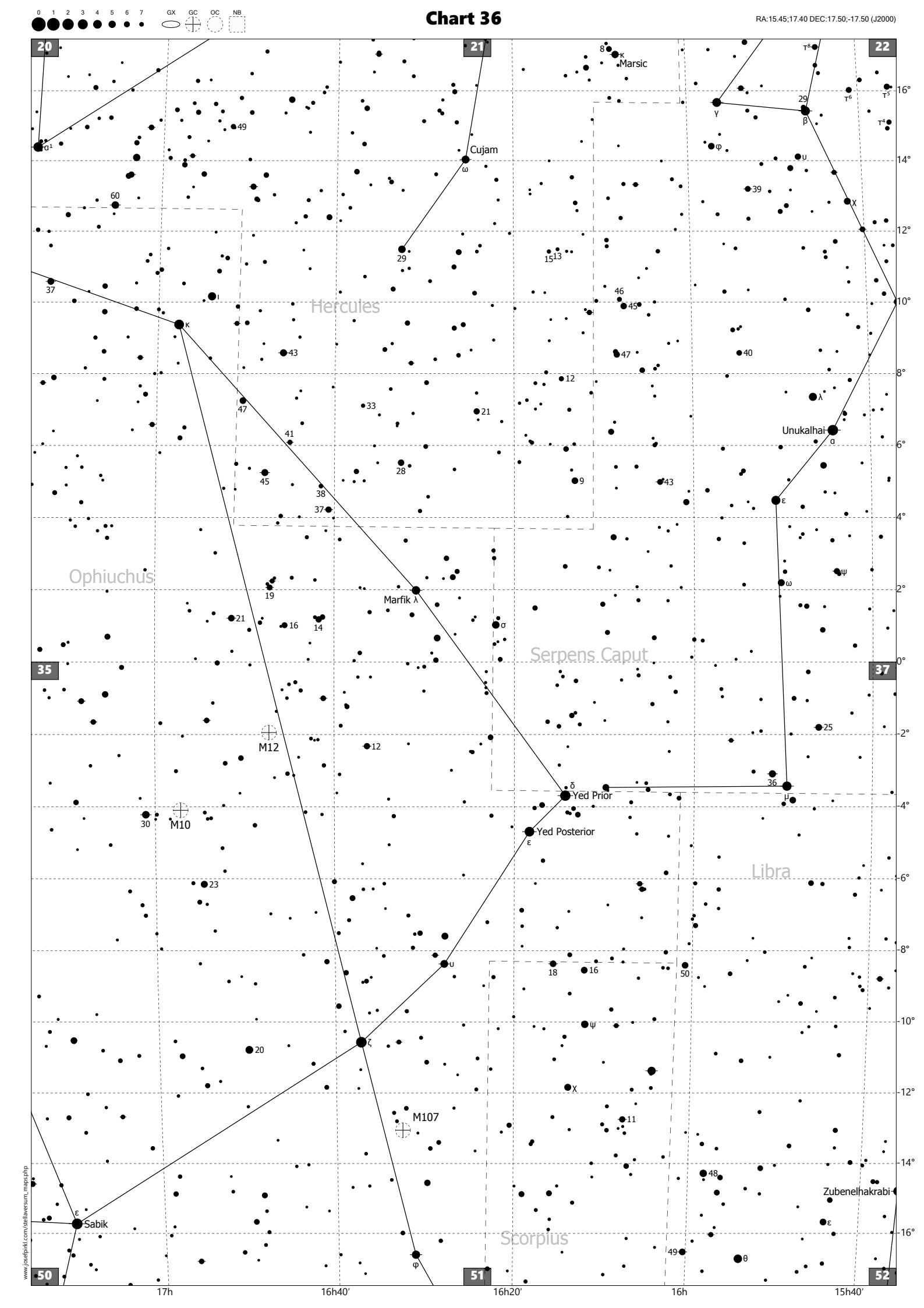
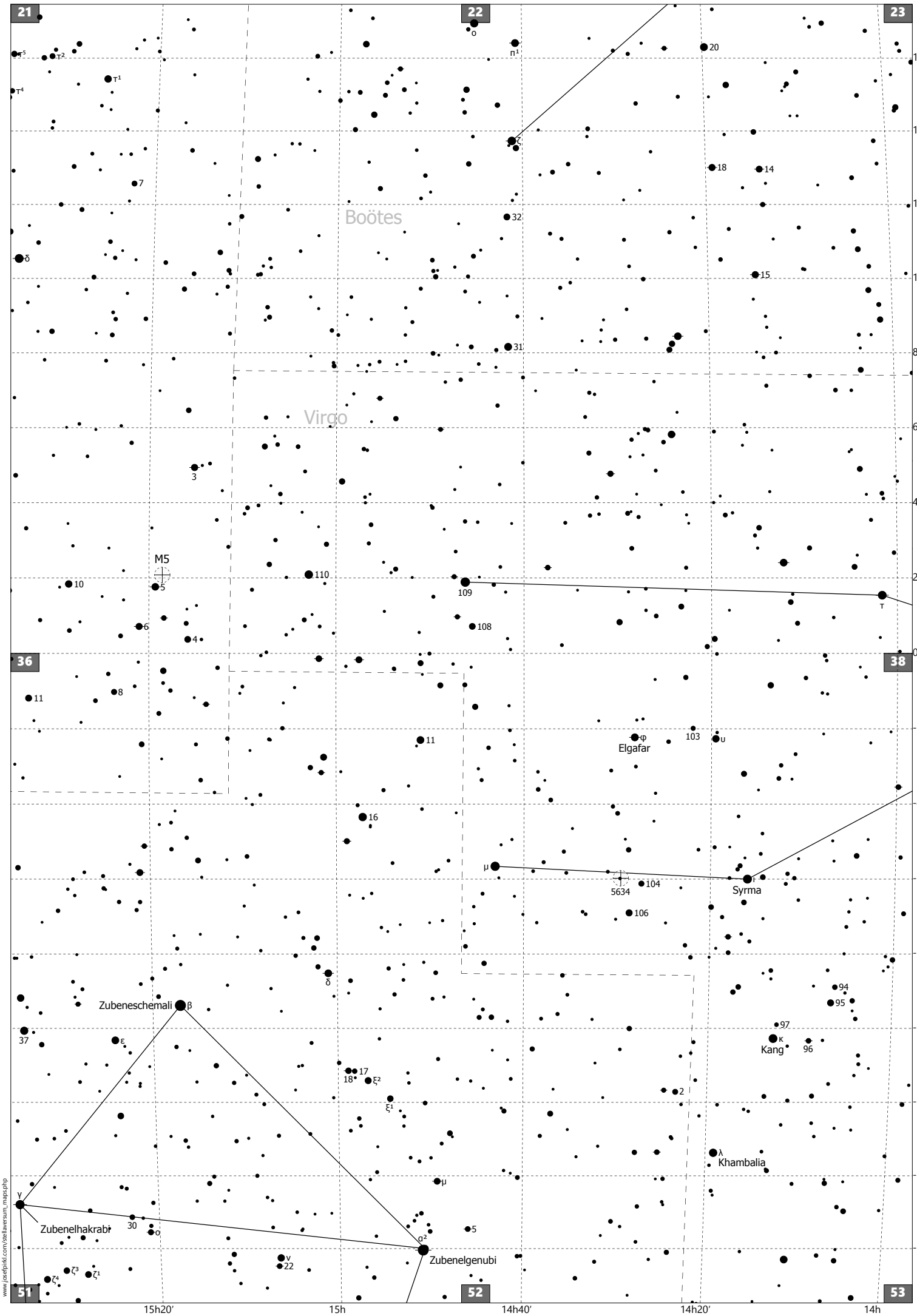

Chart 36
RA:15.45;17.40 DEC:17.50;-17.50 (J2000)
0 1 2 3 4 5 6 7
GX GC OC NB
20
21
22
35
37
50
51
52
Marsic
Cujam
Hercules
Unukalhai
Ophiuchus
Marfik λ
Serpens Caput
M12
M10
Yed Prior
Yed Posterior
Libra
M107
Sabik
Scorpius
Zubenelhakrabi
16°
14°
12°
10°
8°
6°
4°
2°
0°
-2°
-4°
-6°
-8°
-10°
-12°
-14°
-16°
17h
16h40'
16h20'
16h
15h40'
www.jolefpirkl.com/stellaversum_maps.php

Chart 37

RA:13.80;15.75 DEC:17.50;-17.50 (J2000)



www.josefpirkl.com/stellaversum_maps.php

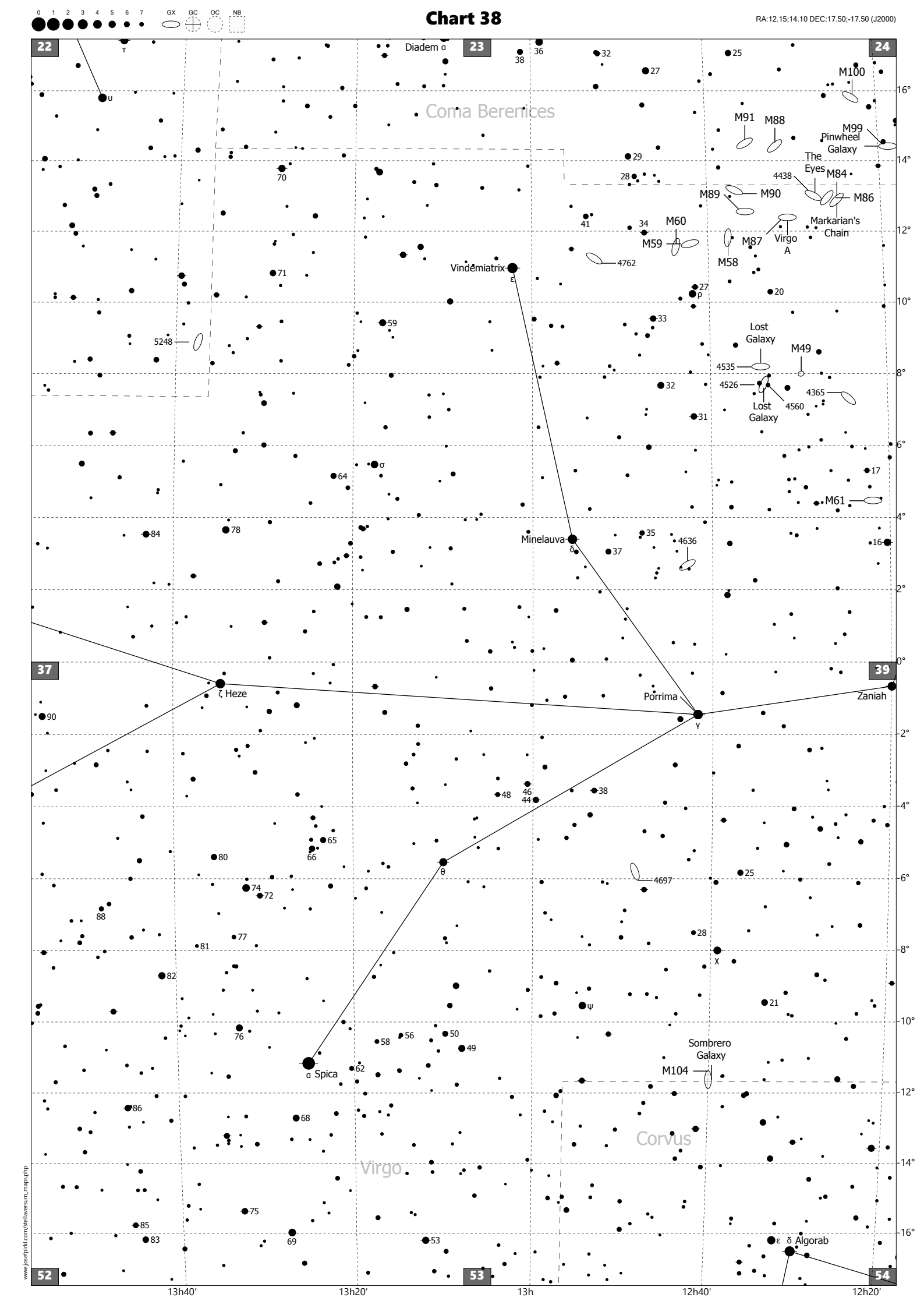
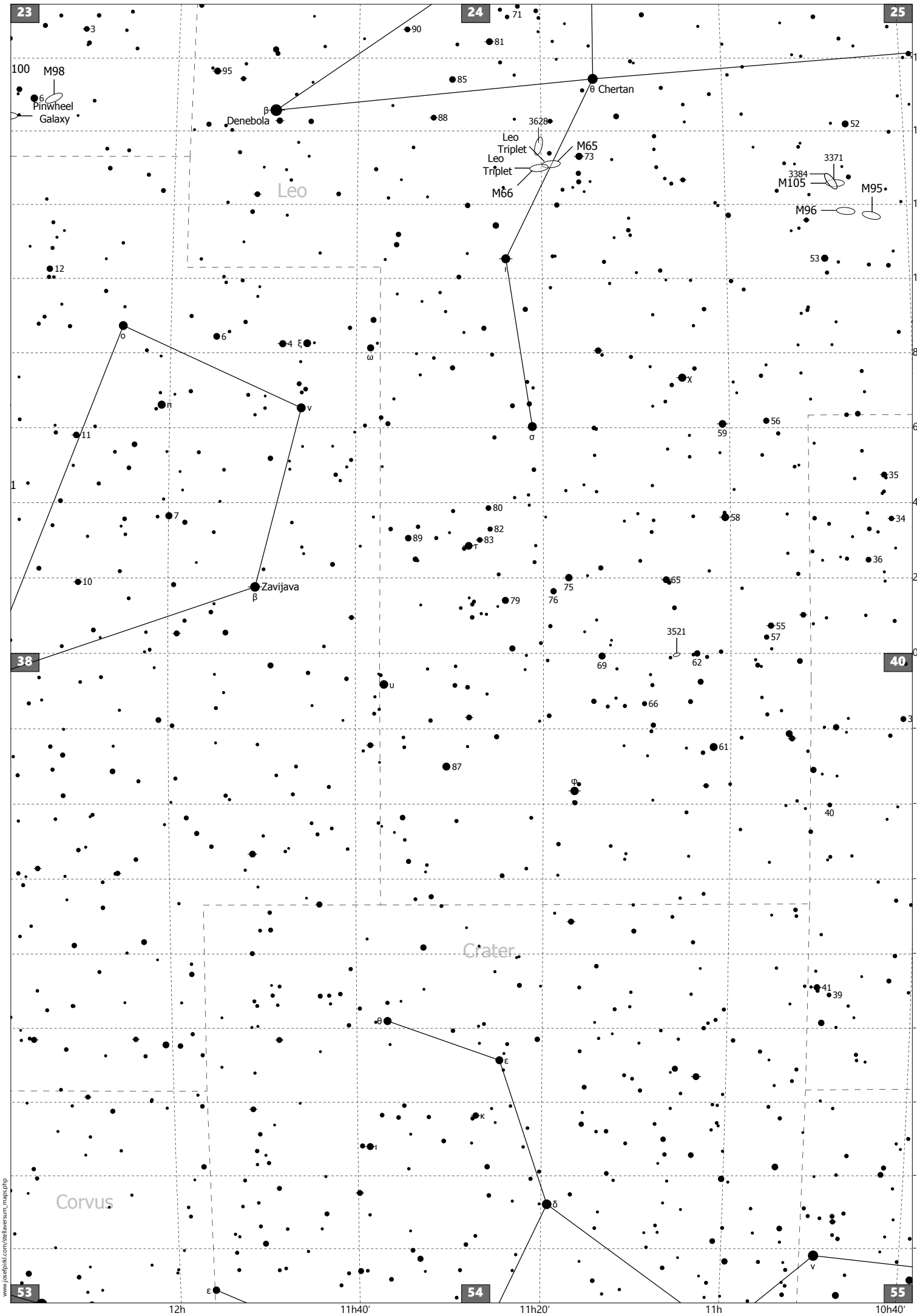

Chart 38
RA:12.15;14.10 DEC:17.50;-17.50 (J2000)
0 1 2 3 4 5 6 7 GX GC OC NB
22
23
24
37
39
52
53
54
Coma Berenices
Virgo
Corvus
Diadem α
Vindemiatrix
ε
Minelauva
δ
ζ Heze
Porrima
γ
Zaniah
α Spica
θ
ψ
ρ
σ
M100
M91
M88
M99
Pinwheel Galaxy
The Eyes
M84
M86
M89
M90
M60
M59
M87
Virgo A
M58
Markarian's Chain
4762
4438
Lost Galaxy
M49
4535
4526
4560
4365
M61
4636
4697
Sombrero Galaxy
M104
X
ε δ Algorab
70
71
5248
59
64
84
78
90
65
66
80
74
72
88
77
81
82
76
86
68
75
85
83
69
53
58
56
50
49
62
48
46
44
38
41
34
28
29
27
25
32
36
38
33
31
35
37
17
16
21
10°
8°
6°
4°
2°
0°
-2°
-4°
-6°
-8°
-10°
-12°
-14°
-16°
13h40′
13h20′
13h
12h40′
12h20′
www.josefpirkl.com/stellaversum_maps.php

Chart 39

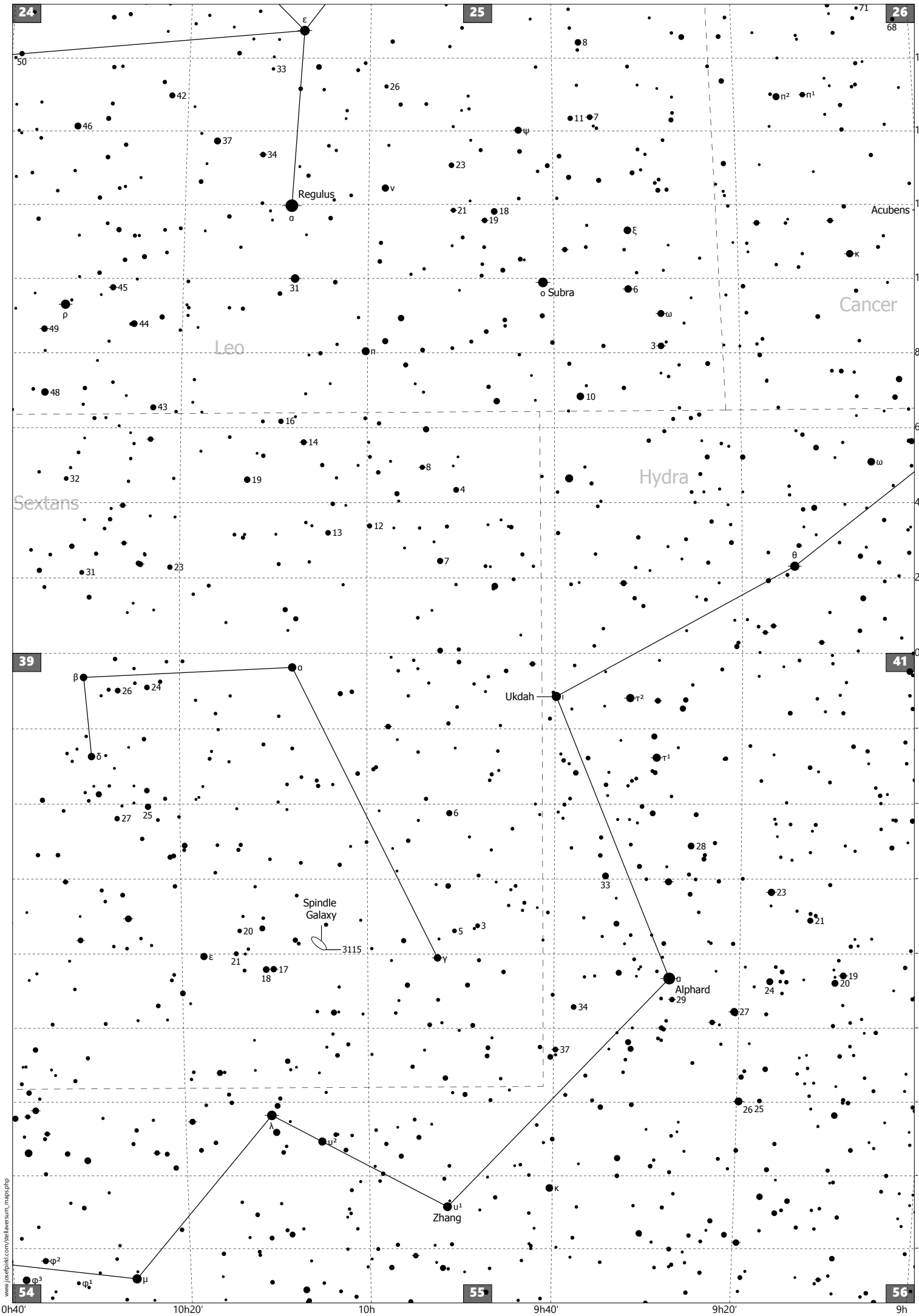
RA:10.50;12.45 DEC:17.50;-17.50 (J2000)



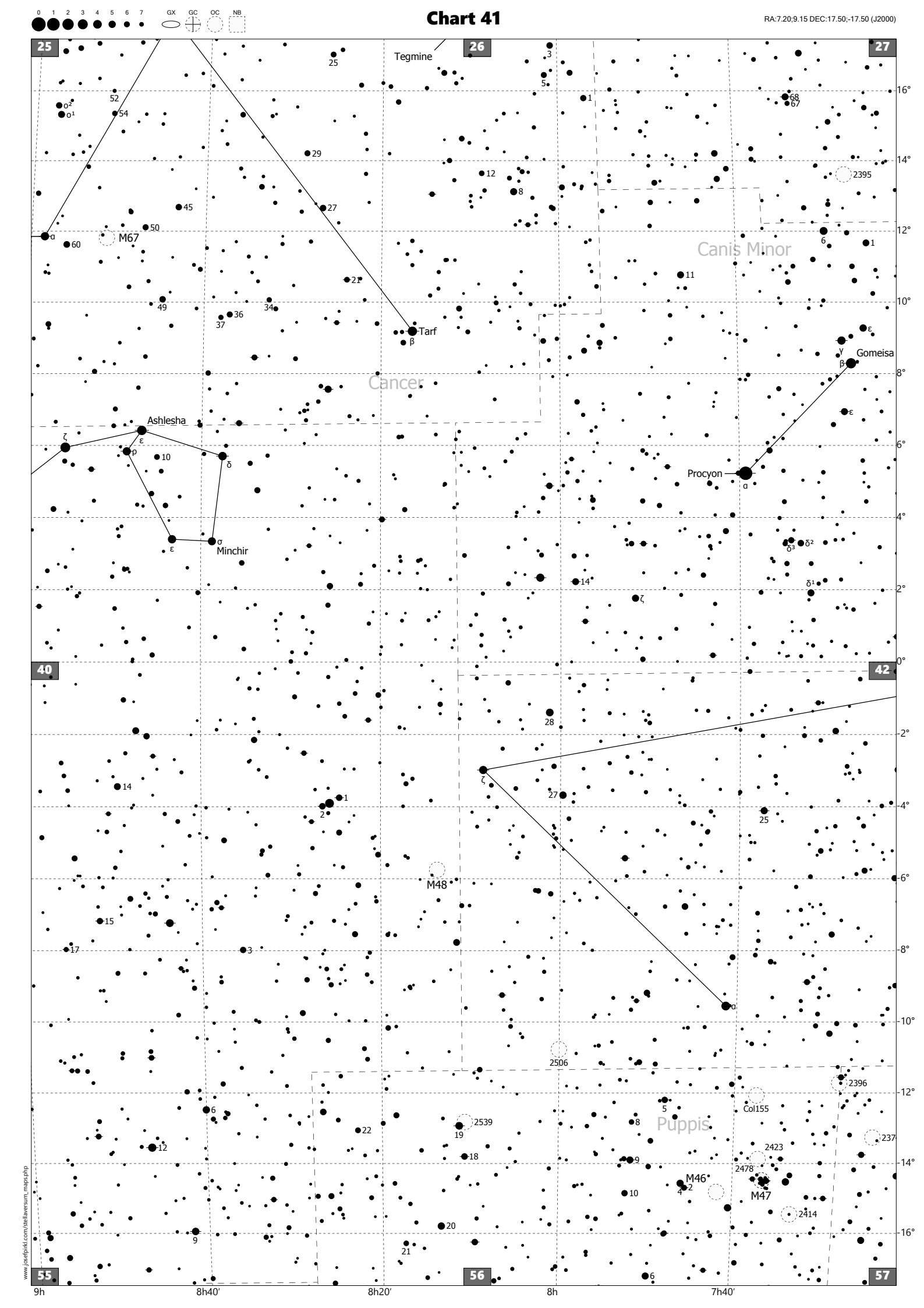
www.josefpirkl.com/stellaversum_maps.php

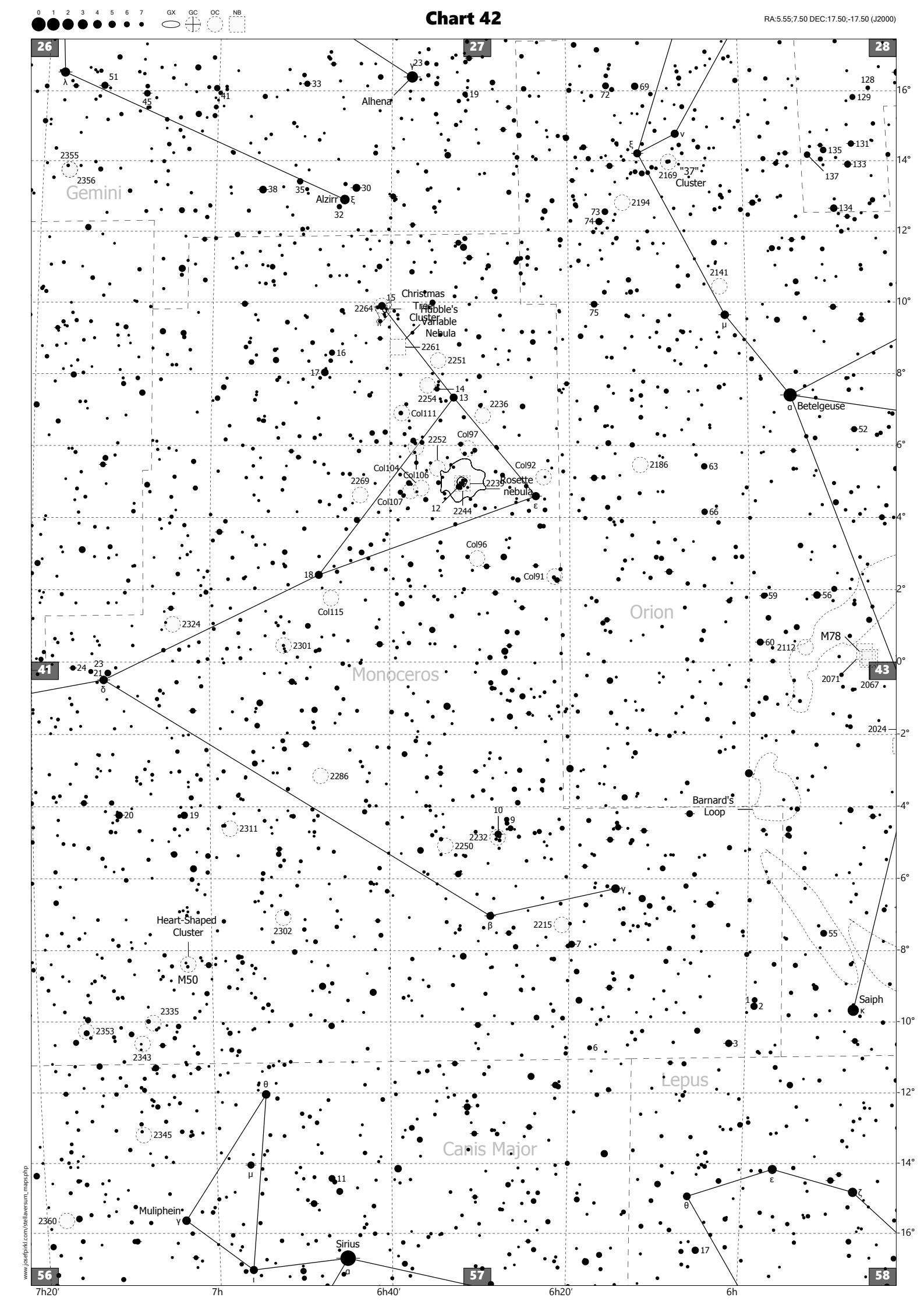
Chart 40

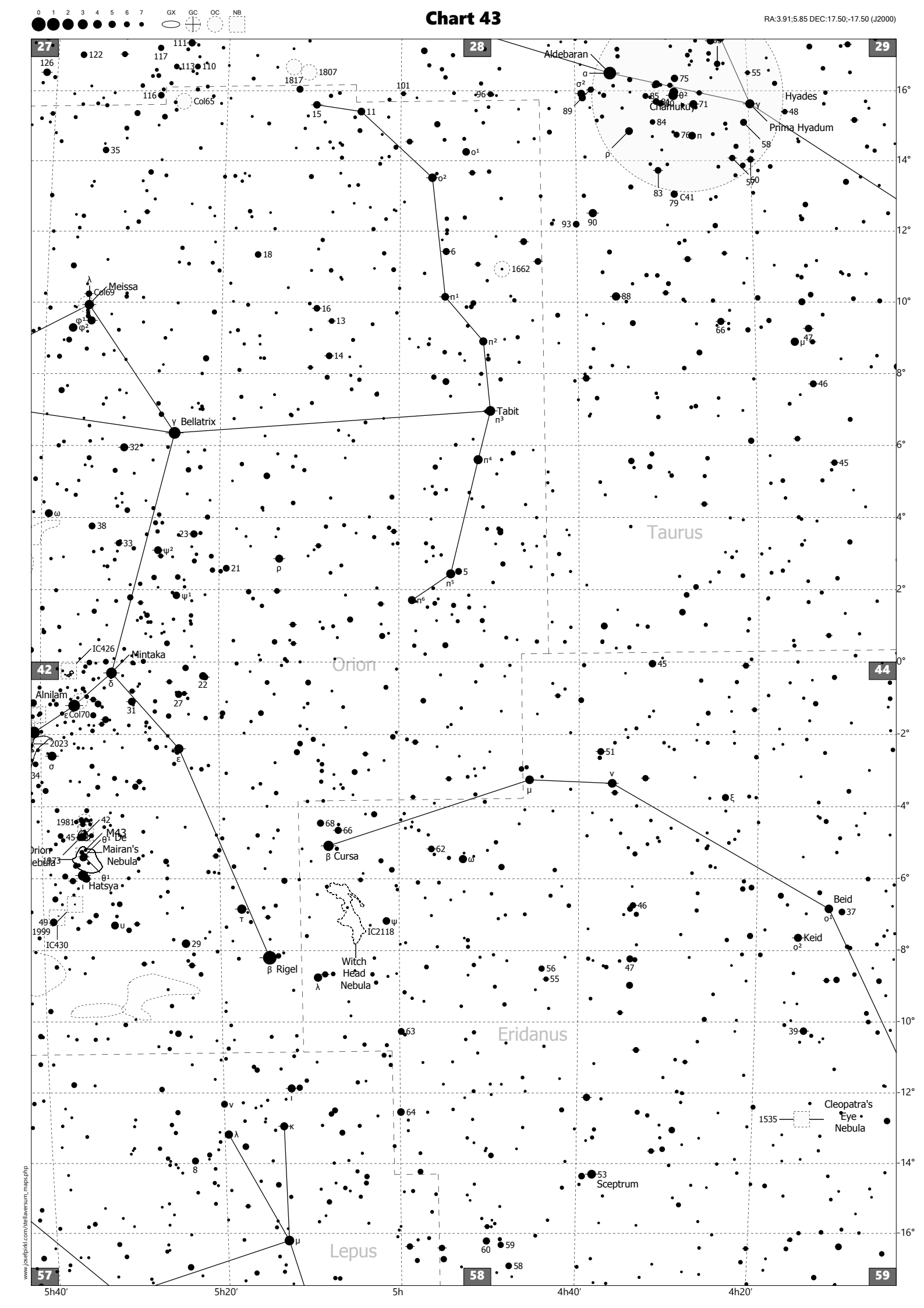
RA:8.85;10.80 DEC:17.50;-17.50 (J2000)

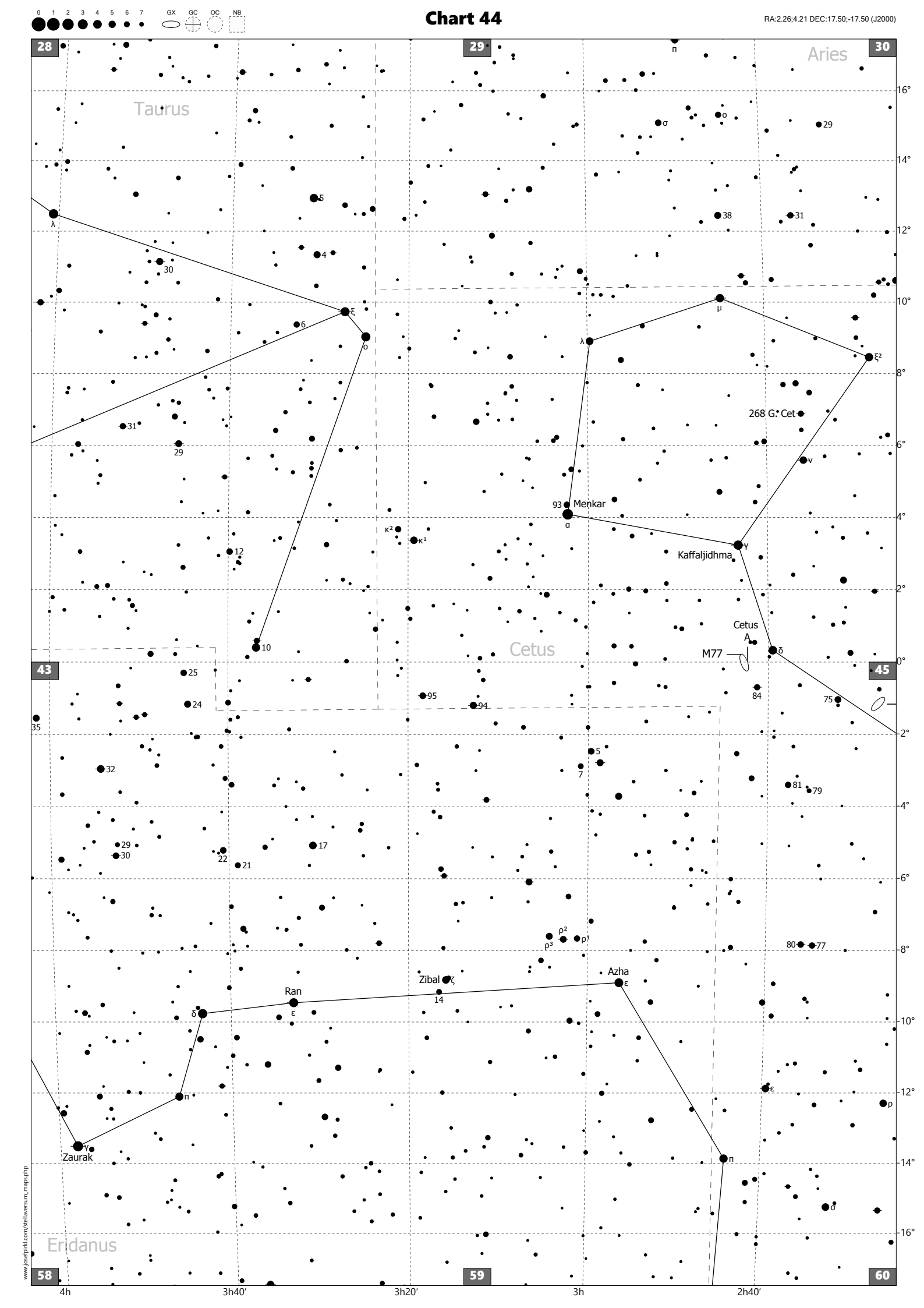


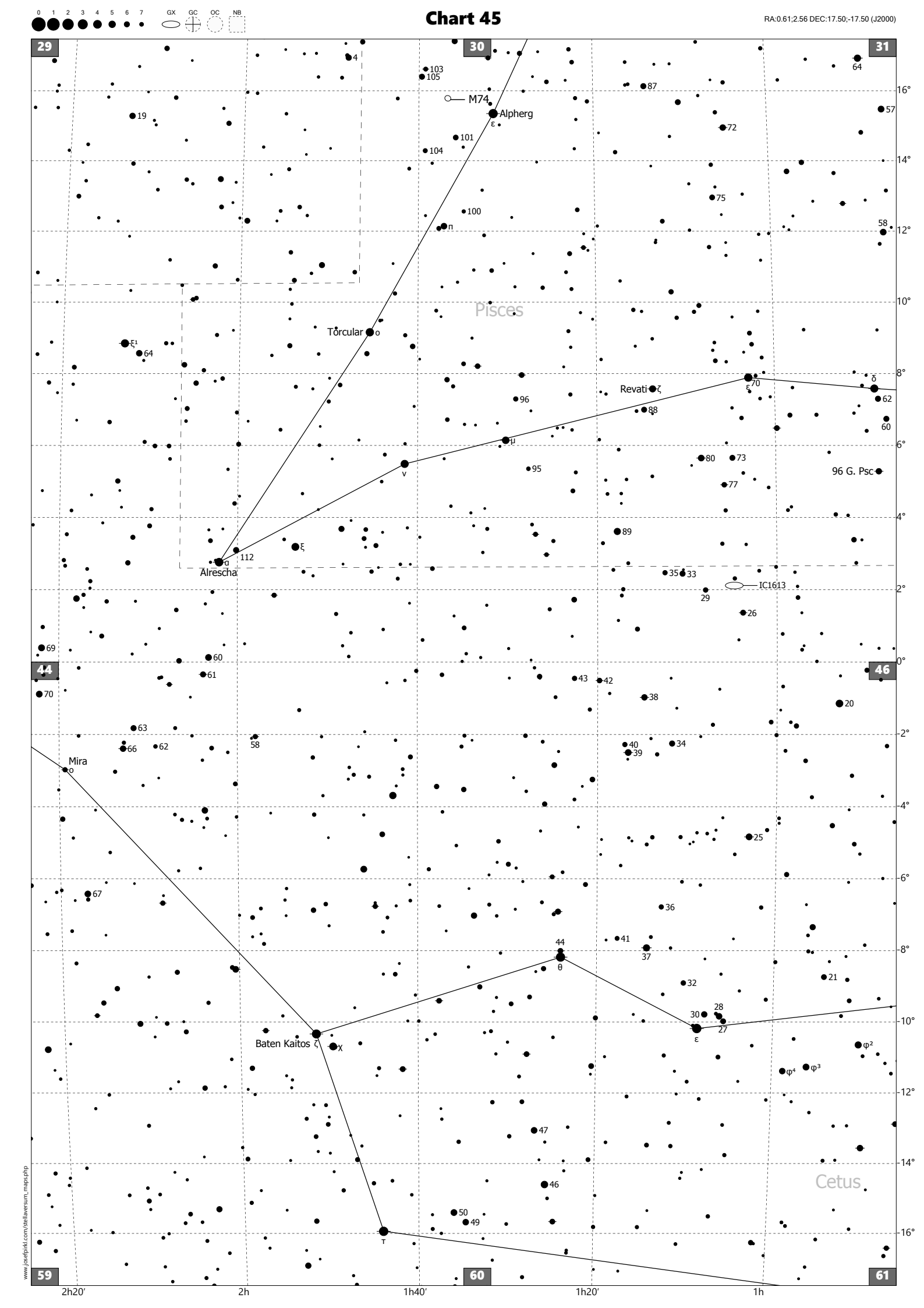
www.josefprikl.com/stellaversum_maps.php

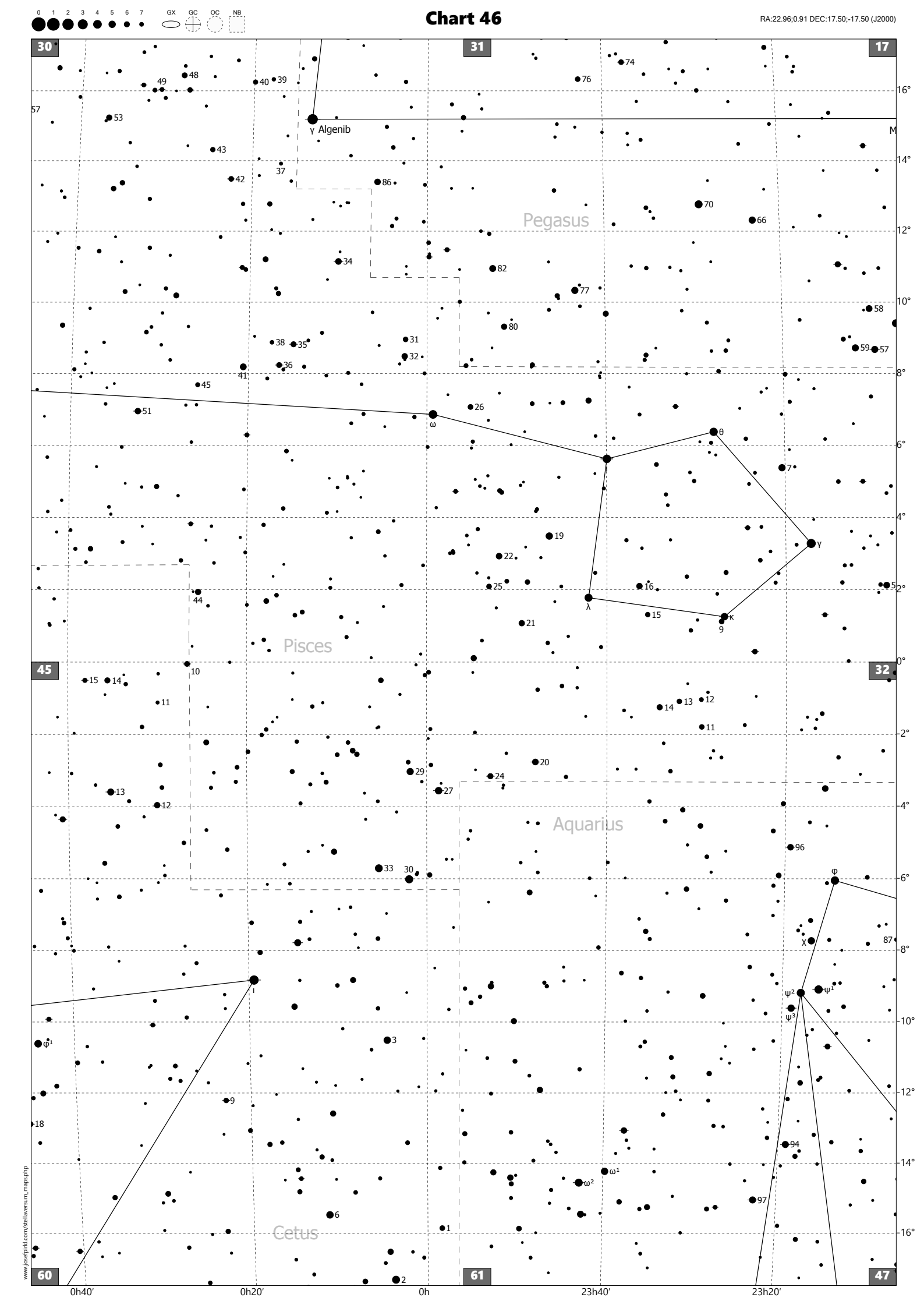

Chart 41
RA:7.20;9.15 DEC:17.50;-17.50 (J2000)
0 1 2 3 4 5 6 7
GX GC OC NB
25
26
27
40
42
55
56
57
Tegmine
Tarf
Gomeisa
Procyon
Ashlesha
Minchir
M67
M48
M46
M47
Canis Minor
Cancer
Puppis
2395
2506
2396
2539
2423
2478
2414
Col155
16°
14°
12°
10°
8°
6°
4°
2°
0°
-2°
-4°
-6°
-8°
-10°
-12°
-14°
-16°
9h
8h40'
8h20'
8h
7h40'
www.jsefpirkl.com/stellaversum_maps.php

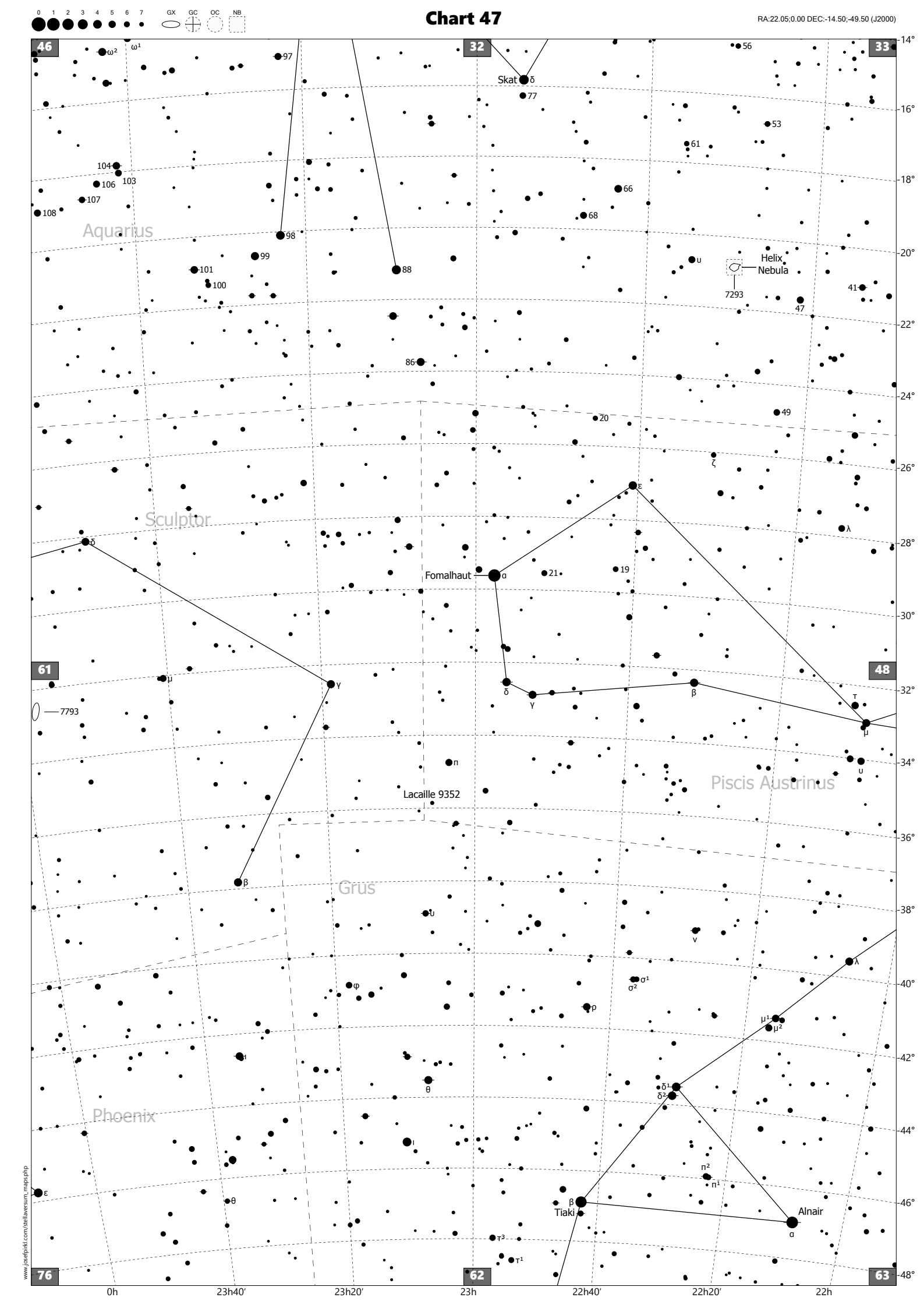

Chart 42
RA:5.55;7.50 DEC:17.50;-17.50 (J2000)
0 1 2 3 4 5 6 7
GX GC OC NB
26
27
28
41
43
56
57
58
Gemini
Alhena
Alzirr
"37" Cluster
Christmas Tree Cluster
Hubble's Variable Nebula
Betelgeuse
Rosette nebula
Orion
M78
Monoceros
Barnard's Loop
Heart-Shaped Cluster
M50
Saiph
Lepus
Canis Major
Muliphein
Sirius
7h20′
7h
6h40′
6h20′
6h
www.jsefpirkl.com/stellaversum_maps.php


Chart 43
RA:3.91;5.85 DEC:17.50;-17.50 (J2000)
0 1 2 3 4 5 6 7 GX GC OC NB
27
28
29
42
44
57
58
59
Aldebaran
Hyades
Prima Hyadum
Ain
Meissa
Col69
Bellatrix
Tabit
Mintaka
IC426
Alnilam
Col70
M43
De Mairan's Nebula
Hatsya
IC430
β Rigel
Witch Head Nebula
IC2118
β Cursa
Beid
Keid
Cleopatra's Eye Nebula
1535
Sceptrum
Taurus
Orion
Eridanus
Lepus
5h40′
5h20′
5h
4h40′
4h20′
16°
14°
12°
10°
8°
6°
4°
2°
0°
-2°
-4°
-6°
-8°
-10°
-12°
-14°
-16°
www.jsfdpinkl.com/stellaversum_maps.php


Chart 44
RA:2.26;4.21 DEC:17.50;-17.50 (J2000)
0 1 2 3 4 5 6 7 GX GC OC NB
28
29
30
43
45
58
59
60
Aries
Taurus
Cetus
Eridanus
Menkar
Kaffaljidhma
Cetus A
M77
268 G. Cet
Ran
Zibal
Azha
Zaurak
4h
3h40′
3h20′
3h
2h40′
16°
14°
12°
10°
8°
6°
4°
2°
0°
-2°
-4°
-6°
-8°
-10°
-12°
-14°
-16°
www.josefpirkl.com/stellaversum_maps.php


Chart 45
RA:0.61;2.56 DEC:17.50;-17.50 (J2000)
0 1 2 3 4 5 6 7
GX GC OC NB
29
30
31
44
46
59
60
61
M74
Alpherg
ε
Pisces
Torcular
ο
Revati
ζ
ε
δ
μ
ν
96 G. Psc
Alrescha
ξ
IC1613
Mira
ο
Baten Kaitos
ζ
χ
θ
ε
τ
Cetus
φ²
φ⁴
φ³
2h20′
2h
1h40′
1h20′
1h
16°
14°
12°
10°
8°
6°
4°
2°
0°
-2°
-4°
-6°
-8°
-10°
-12°
-14°
-16°
www.josefpirkl.com/stellaversum_maps.php


Chart 46
RA:22.96;0.91 DEC:17.50;-17.50 (J2000)
0 1 2 3 4 5 6 7
GX GC OC NB
30
31
17
45
32
60
61
47
γ Algenib
Pegasus
Pisces
Aquarius
Cetus
ω
θ
γ
λ
κ
φ
χ
ψ¹
ψ²
ψ³
ω¹
ω²
φ¹
0h40′
0h20′
0h
23h40′
23h20′
www.josefpirkl.com/stellaversum_maps.php


Chart 47
RA:22.05;0.00 DEC:-14.50;-49.50 (J2000)
0 1 2 3 4 5 6 7
GX GC OC NB
46
32
33
61
48
76
62
63
Aquarius
Sculptor
Piscis Austrinus
Grus
Phoenix
Fomalhaut
Skat
Helix Nebula
7293
7793
Lacaille 9352
Tiaki
Alnair
0h
23h40'
23h20'
23h
22h40'
22h20'
22h
14°
16°
18°
20°
22°
24°
26°
28°
30°
32°
34°
36°
38°
40°
42°
44°
46°
48°
www.josefpirkl.com/stellaversum_maps.php

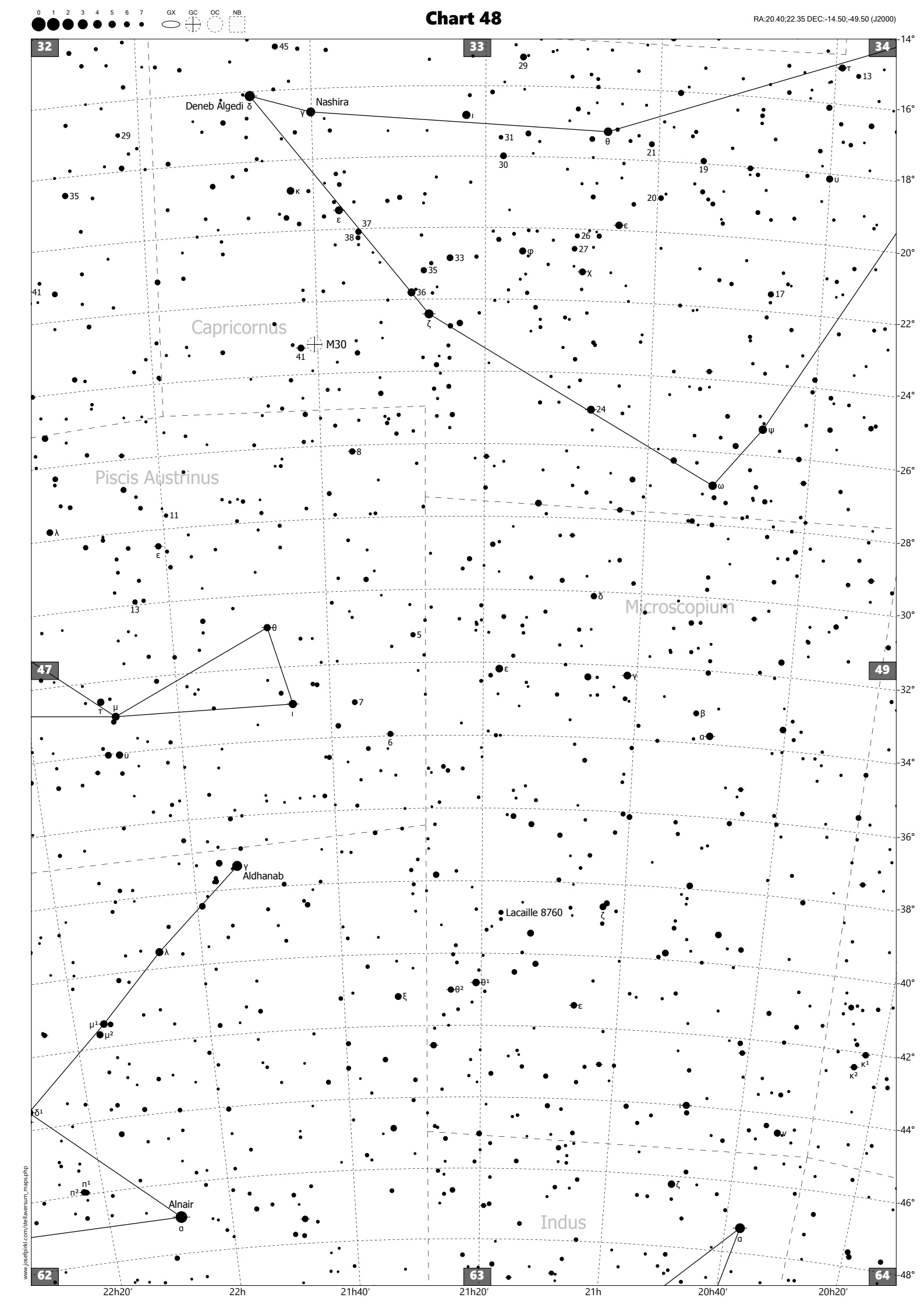
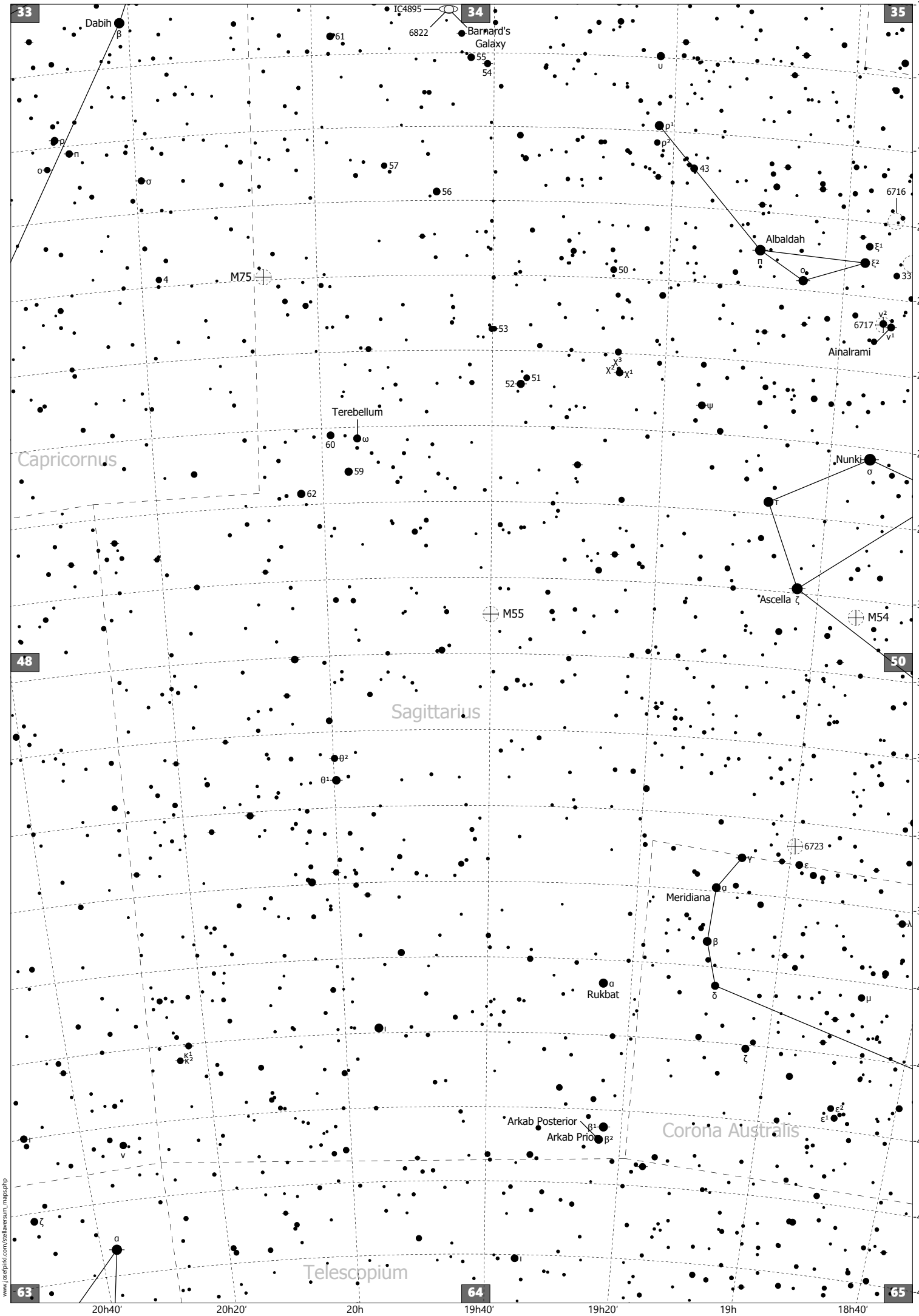
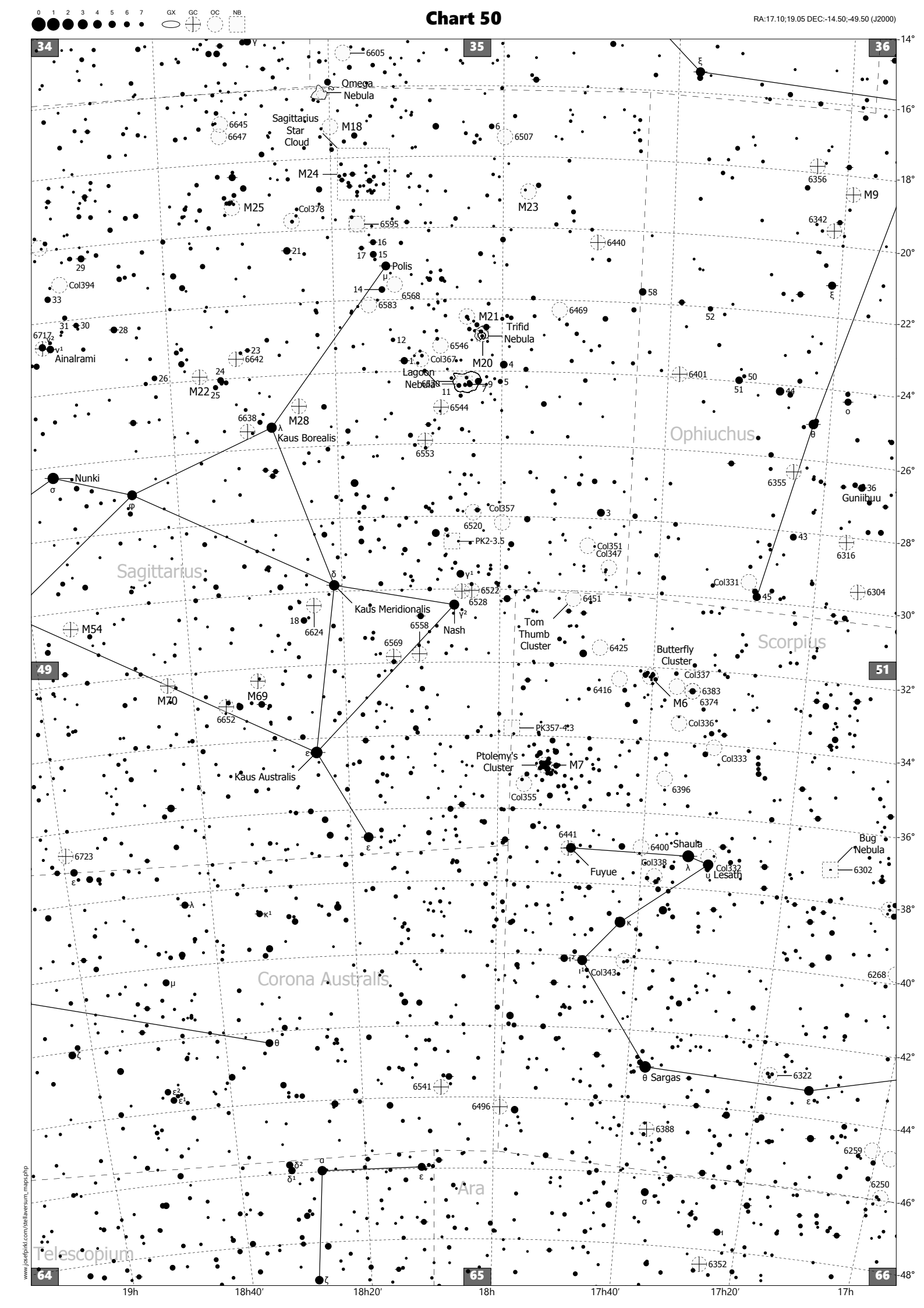

Chart 48
RA:20.40;22.35 DEC:-14.50;-49.50 (J2000)
0 1 2 3 4 5 6 7
GX GC OC NB
32
33
34
47
49
62
63
64
Deneb Algedi δ
Nashira
γ
θ
ι
Capricornus
M30
Piscis Austrinus
Microscopium
Aldhanab
Lacaille 8760
Alnair
Indus
14°
16°
18°
20°
22°
24°
26°
28°
30°
32°
34°
36°
38°
40°
42°
44°
46°
48°
22h20′
22h
21h40′
21h20′
21h
20h40′
20h20′
www.josefpirkl.com/stellaversum_maps.php

Chart 49

RA:18.75;20.70 DEC:-14.50;-49.50 (J2000)



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Chart 50
RA:17.10;19.05 DEC:-14.50;-49.50 (J2000)
0 1 2 3 4 5 6 7
GX GC OC NB
34
35
36
49
51
64
65
66
Omega Nebula
Sagittarius Star Cloud
M18
M24
M25
M23
M9
Col378
6595
6605
6645
6647
6507
6356
6342
6440
Polis
6568
6583
Col394
M21
Trifid Nebula
6469
6546
Col367
M20
Lagoon Nebula
6717
Ainalrami
6642
M22
6638
M28
Kaus Borealis
6544
6553
6401
Ophiuchus
Nunki
6355
Guniibuu
Col357
6520
PK2-3.5
Col351
Col347
6316
Sagittarius
Kaus Meridionalis
6522
6528
Nash
6624
6558
6569
M54
Tom Thumb Cluster
6451
6425
Butterfly Cluster
Scorpius
Col337
6383
6374
M6
6416
M70
M69
6652
PK357-4.3
Col336
Col333
Ptolemy's Cluster
M7
Kaus Australis
Col355
6396
6441
6400
Shaula
Col338
Col332
Lesath
Fuyue
Bug Nebula
6302
6723
Corona Australis
Col343
6268
θ Sargas
6322
6541
6496
6388
6259
Ara
6250
Telescopium
6352
19h
18h40'
18h20'
18h
17h40'
17h20'
17h
14°
16°
18°
20°
22°
24°
26°
28°
30°
32°
34°
36°
38°
40°
42°
44°
46°
48°
www.josefpirkl.com/stellaversum_maps.php

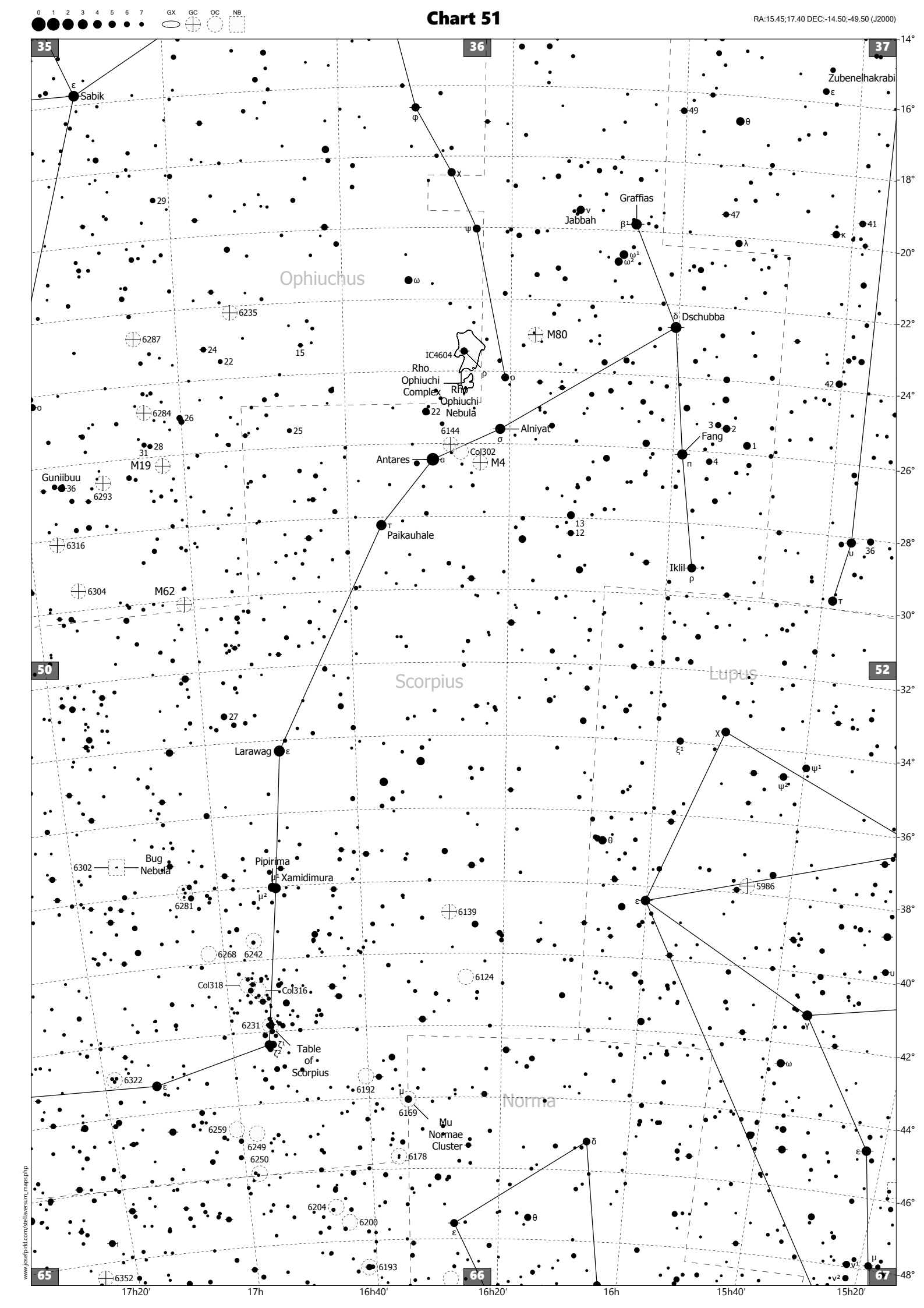
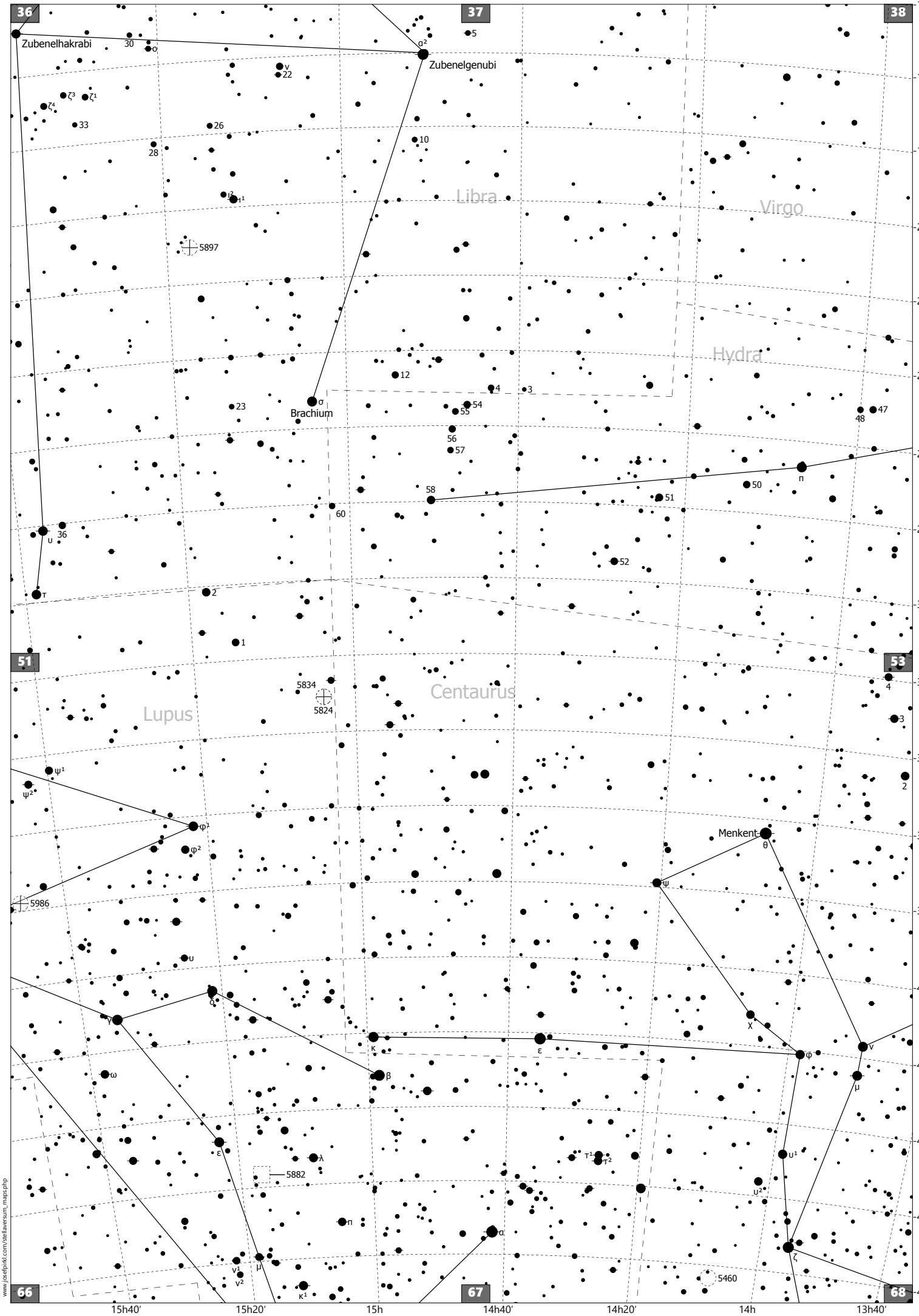

Chart 51
RA:15.45;17.40 DEC:-14.50;-49.50 (J2000)
0 1 2 3 4 5 6 7
GX GC OC NB
35
36
37
50
52
65
66
67
Sabik
Zubenelhakrabi
Graffias
Jabbah
Dschubba
M80
IC4604
Rho Ophiuchi Complex
Rho Ophiuchi Nebula
Alniyat
Fang
Antares
M4
M19
Guniibuu
Paikauhale
Iklil
M62
Ophiuchus
Scorpius
Lupus
Norma
Larawag
Bug Nebula
Pipirima
Xamidimura
Table of Scorpius
Mu Normae Cluster
6235
6287
6284
6293
6316
6304
6281
6302
6139
6268
6242
6124
6231
6322
6192
6169
6259
6249
6250
6178
6204
6200
6193
6352
5986
17h20′
17h
16h40′
16h20′
16h
15h40′
15h20′
14°
16°
18°
20°
22°
24°
26°
28°
30°
32°
34°
36°
38°
40°
42°
44°
46°
48°
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Chart 52

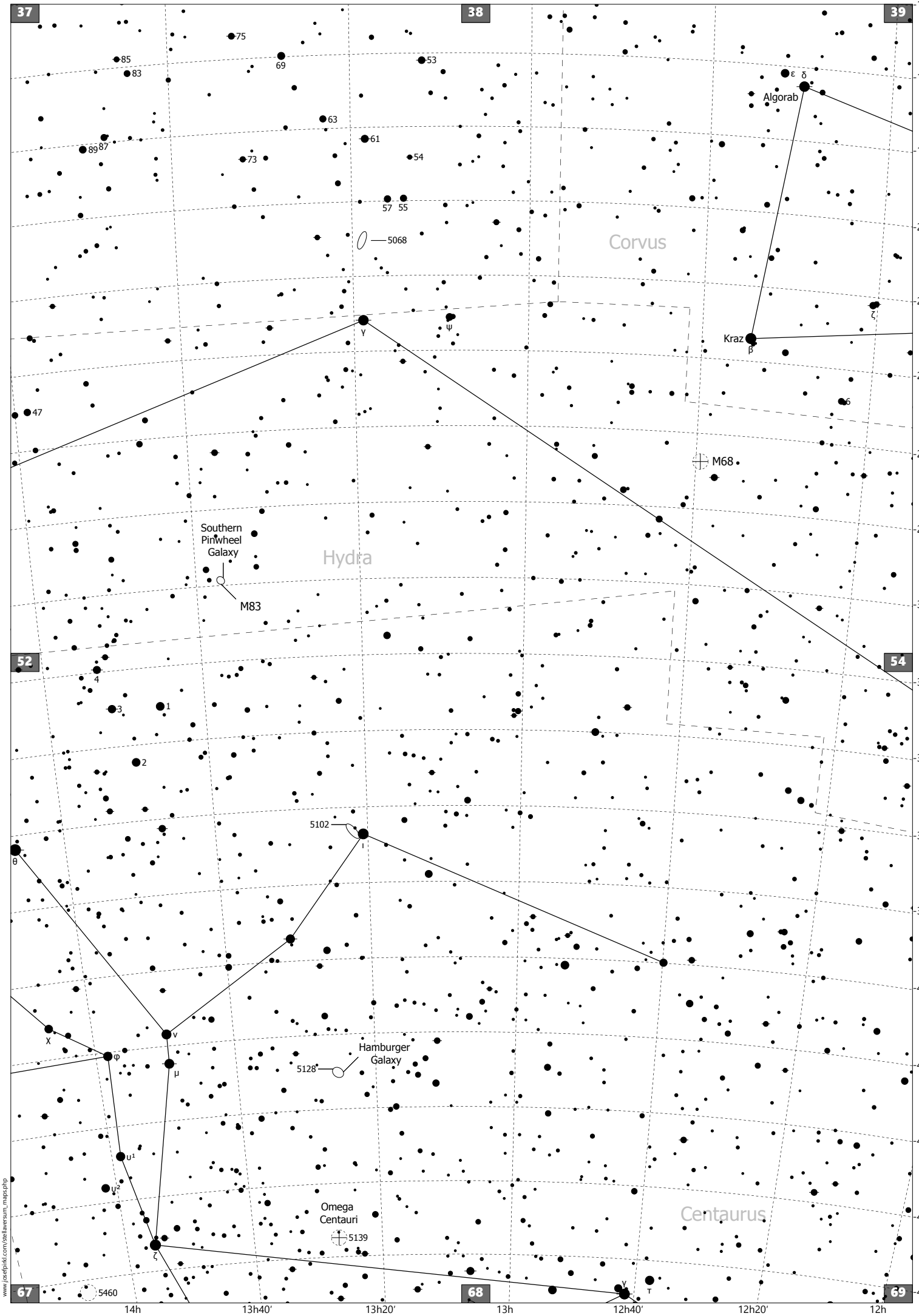
RA:13.80;15.75 DEC:-14.50;-49.50 (J2000)



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Chart 53

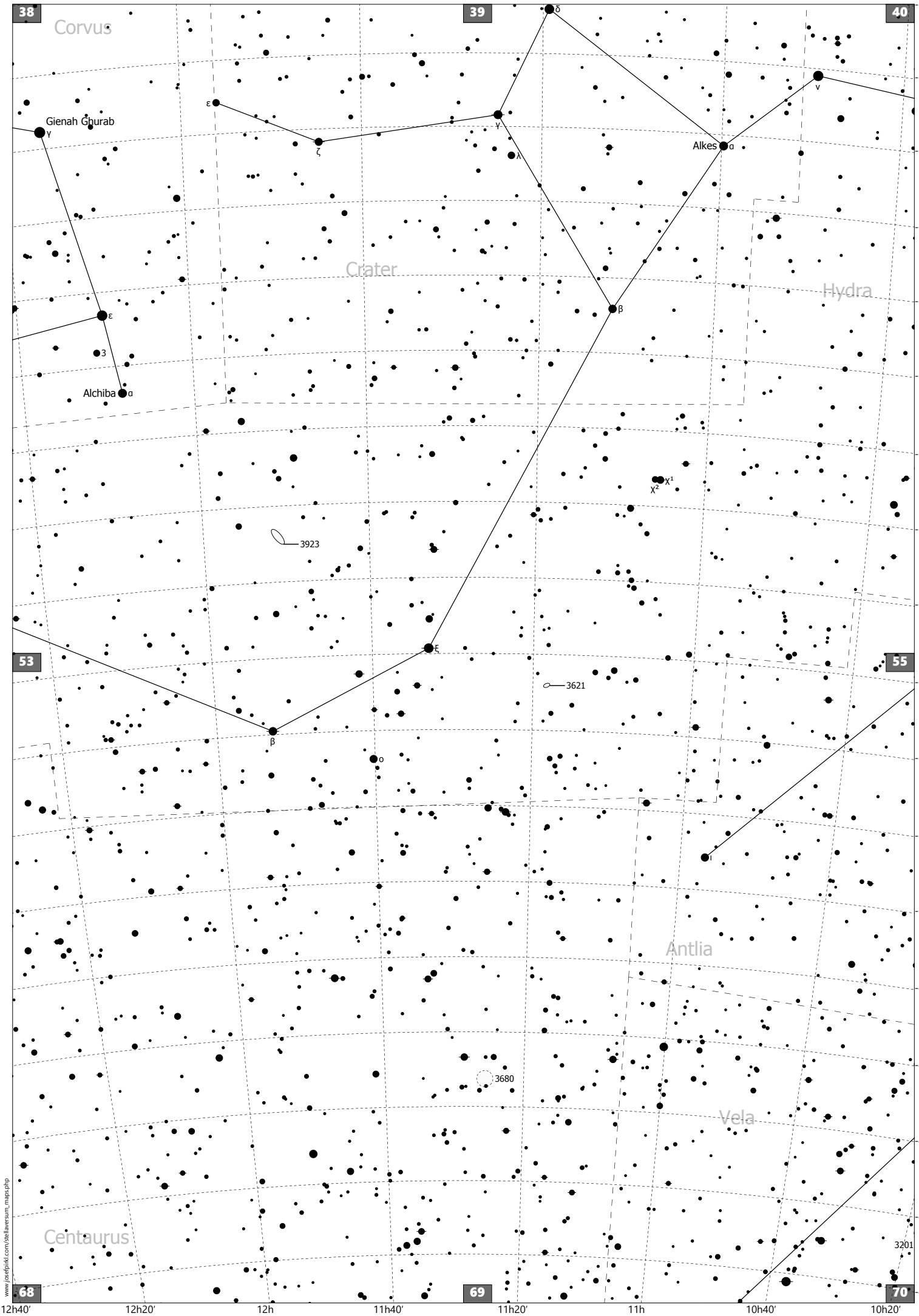
RA:12.15;14.10 DEC:-14.50;-49.50 (J2000)



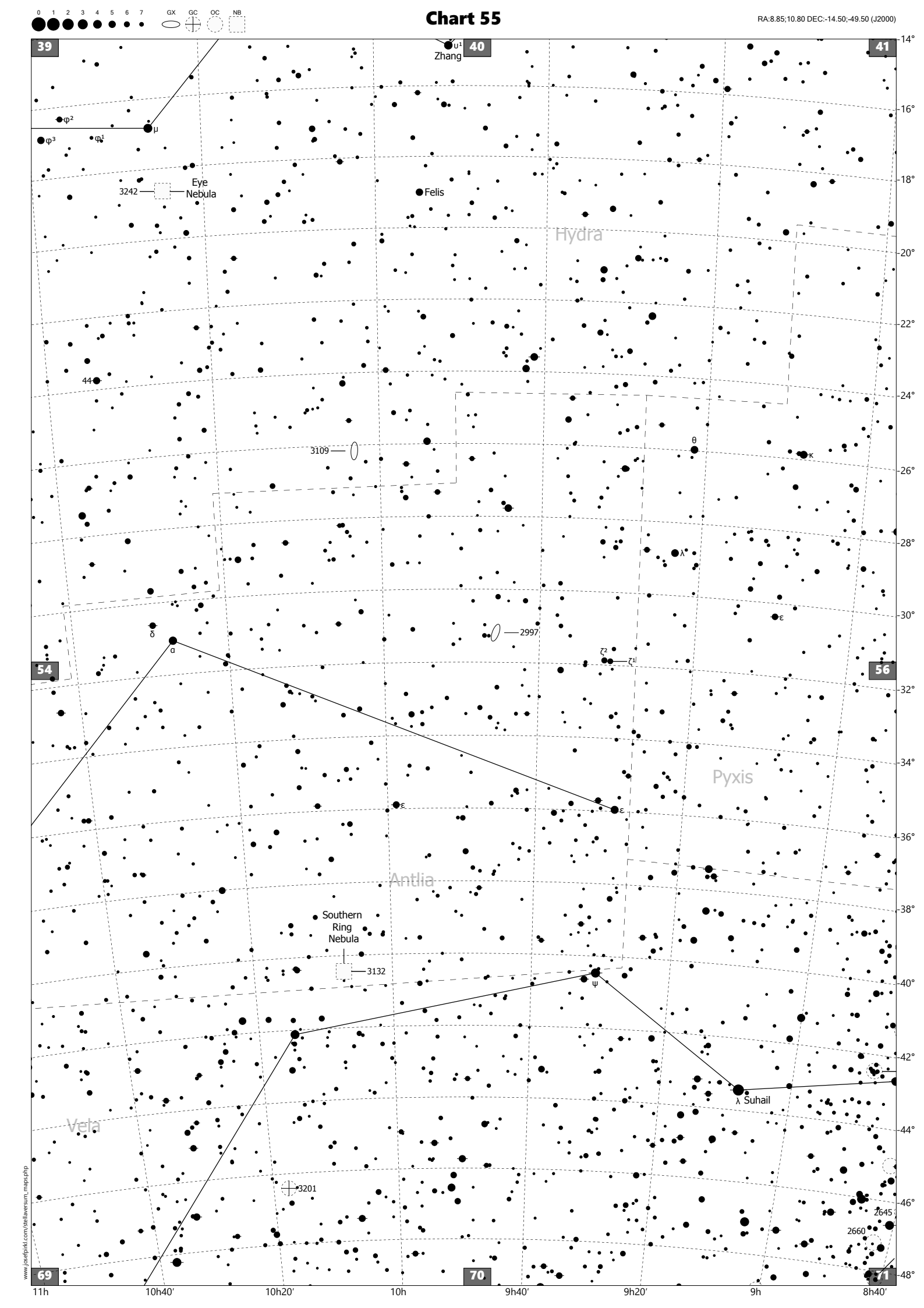
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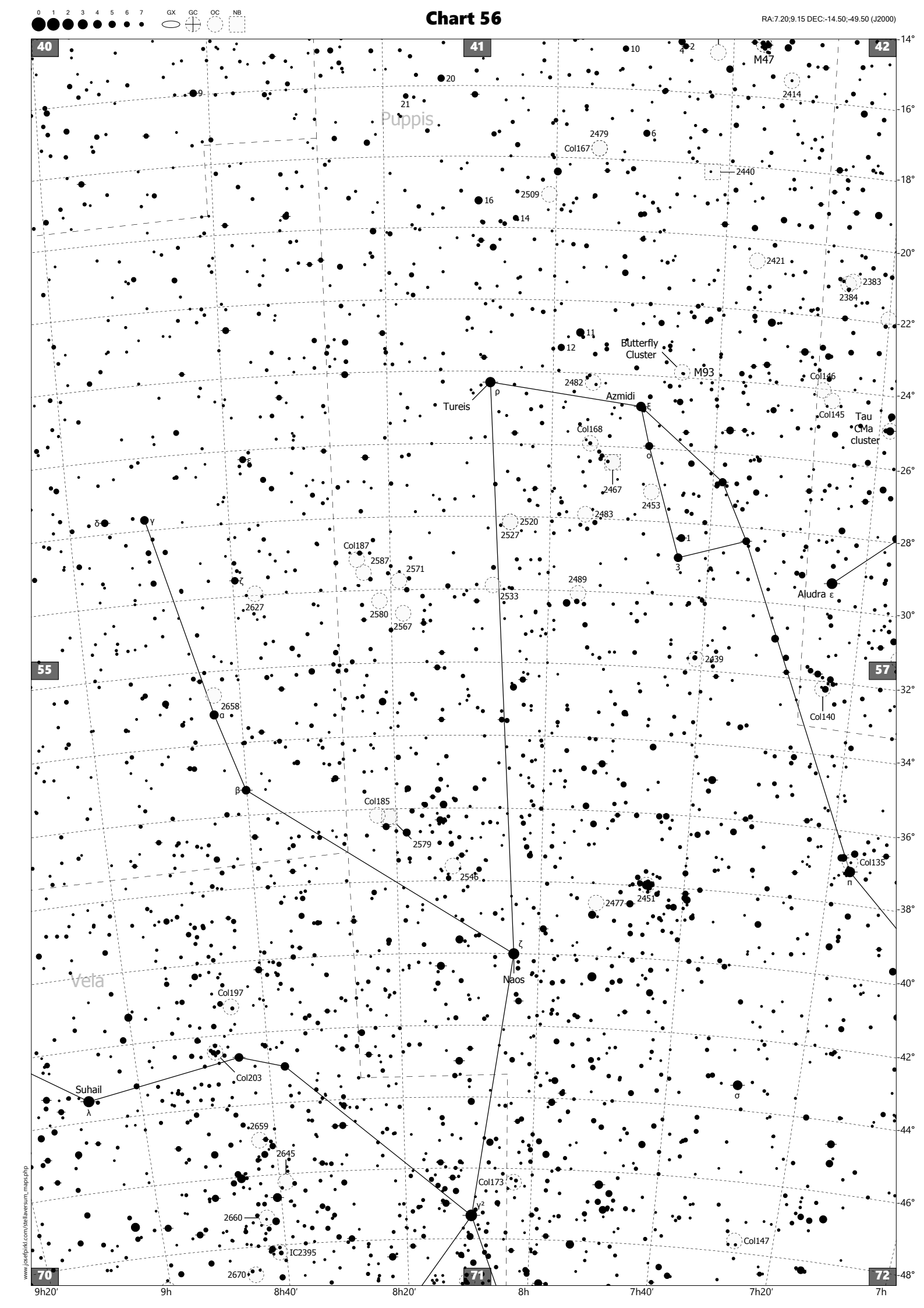
Chart 54

RA:10.50;12.45 DEC:-14.50;-49.50 (J2000)



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Chart 55
RA:8.85;10.80 DEC:-14.50;-49.50 (J2000)
0 1 2 3 4 5 6 7
GX GC OC NB
39
40
41
54
56
69
70
71
Zhang
υ¹
φ²
φ³
φ¹
μ
Eye
Nebula
3242
Felis
Hydra
44
3109
θ
κ
λ
δ
α
2997
ζ²
ζ¹
ε
Pyxis
Antlia
Southern
Ring
Nebula
3132
ψ
λ Suhail
Vela
3201
2645
2660
14°
16°
18°
20°
22°
24°
26°
28°
30°
32°
34°
36°
38°
40°
42°
44°
46°
48°
11h
10h40′
10h20′
10h
9h40′
9h20′
9h
8h40′
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Chart 56
RA:7.20;9.15 DEC:-14.50;-49.50 (J2000)
0 1 2 3 4 5 6 7
GX GC OC NB
40
41
42
55
57
70
71
72
Puppis
Vela
M47
M93
Butterfly Cluster
Tureis
Azmidi
Naos
Suhail
Aludra
Tau CMa cluster
2414
2479
2440
2509
2421
2383
2384
2482
2467
2453
2520
2527
2483
2587
2571
2533
2489
2627
2580
2567
2439
2658
2579
2546
2477
2451
2659
2645
2660
IC2395
2670
Col167
Col168
Col187
Col185
Col197
Col203
Col173
Col146
Col145
Col140
Col135
Col147
9h20′
9h
8h40′
8h20′
8h
7h40′
7h20′
7h
14°
16°
18°
20°
22°
24°
26°
28°
30°
32°
34°
36°
38°
40°
42°
44°
46°
48°
www.josefpirkl.com/stellaversum_maps.php

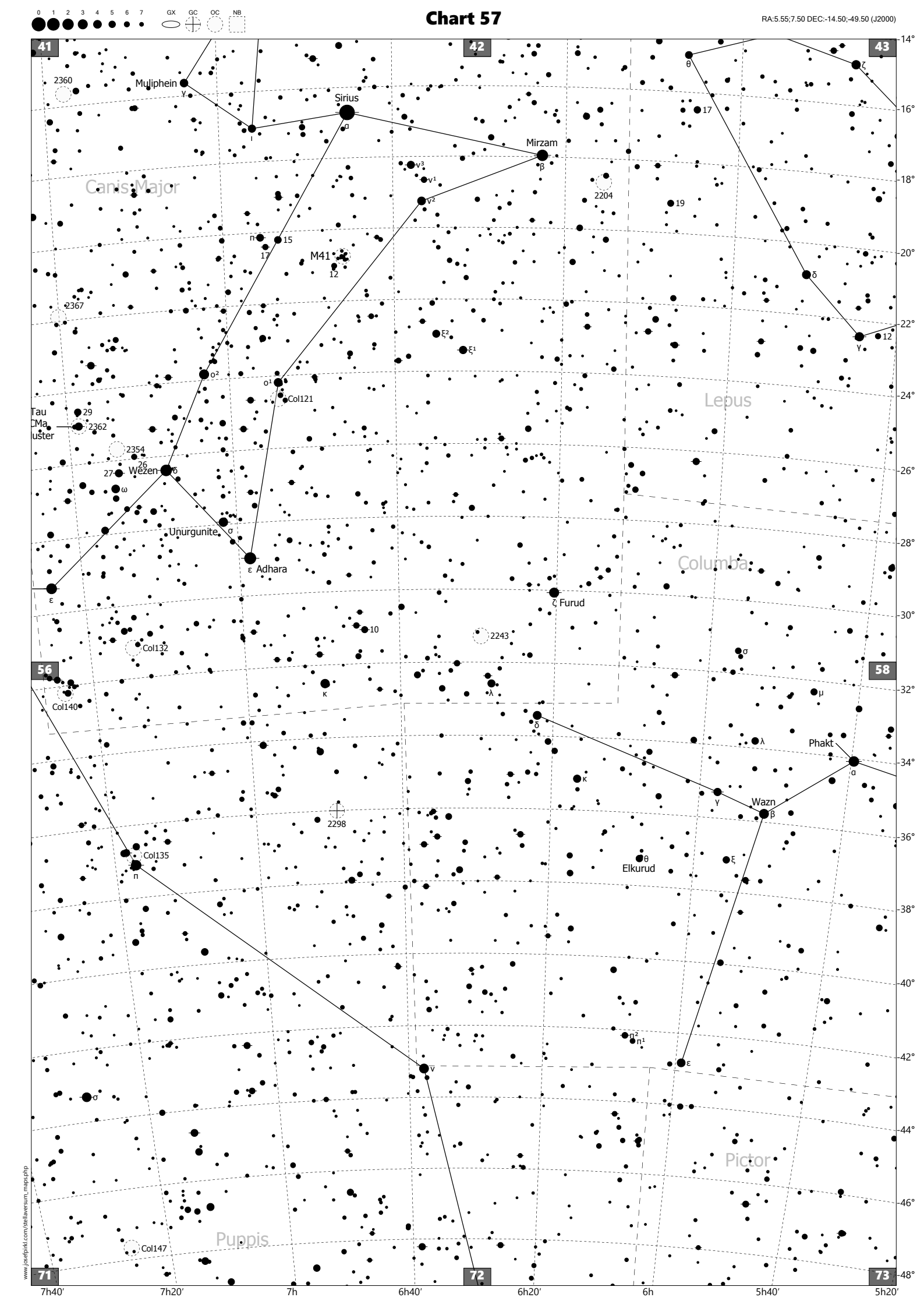
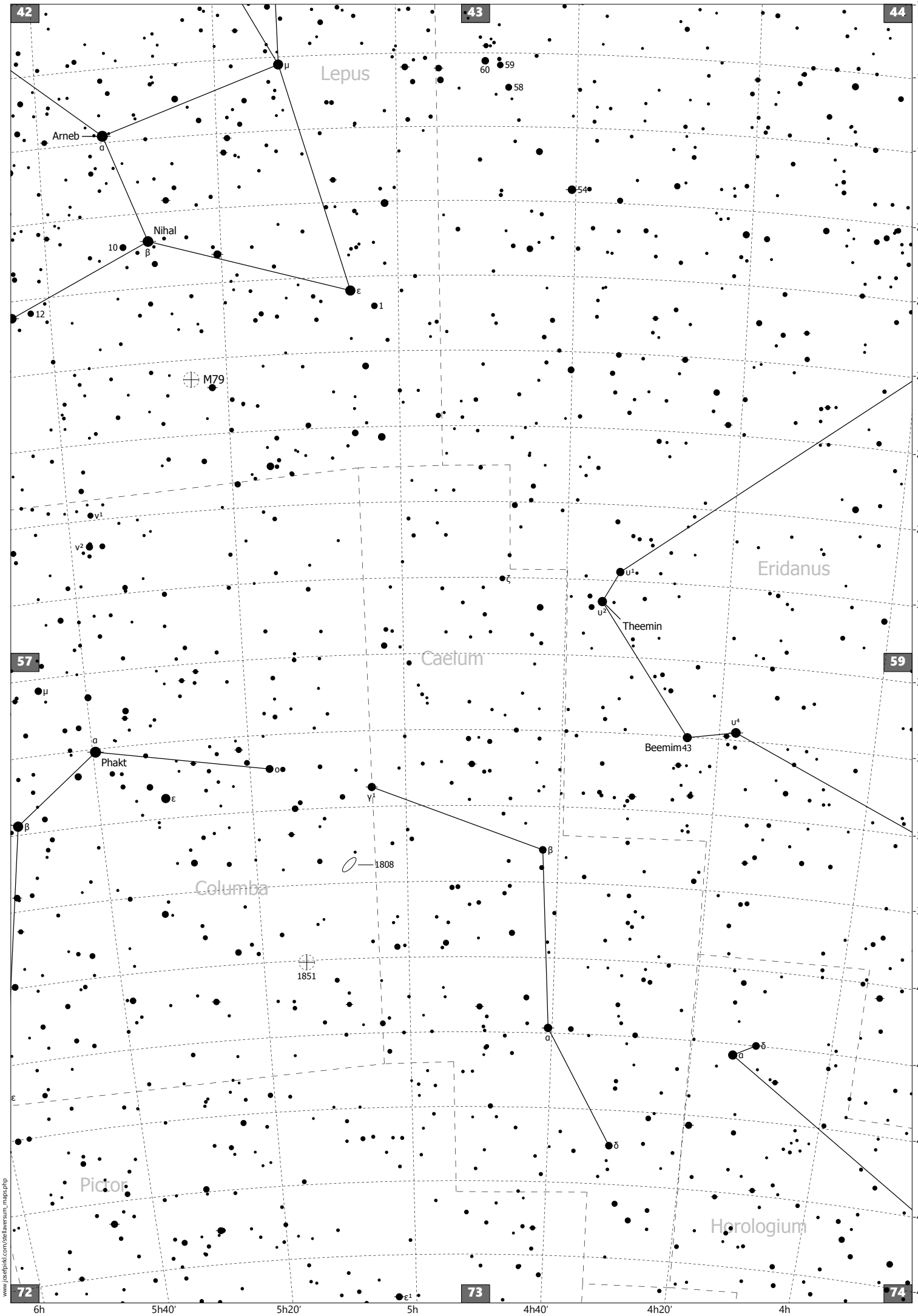
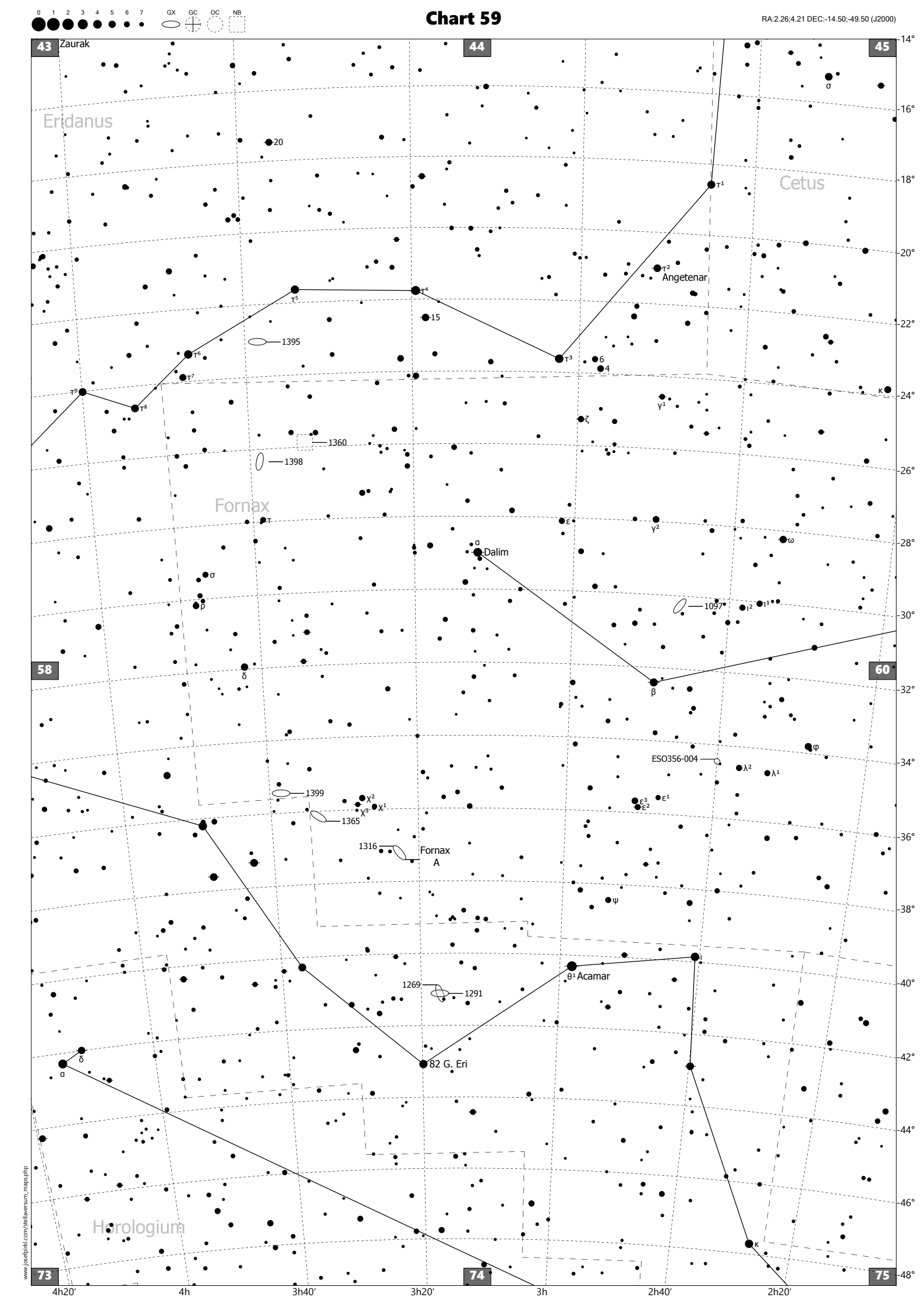

Chart 57
RA:5.55;7.50 DEC:-14.50;-49.50 (J2000)
0 1 2 3 4 5 6 7 GX GC OC NB
41
42
43
56
58
71
72
73
Muliphein
Sirius
Mirzam
Canis Major
M41
Col121
Lepus
Wezen
Unurgunite
Adhara
Furud
Columba
Col132
Col140
Phakt
Wazn
Elkurud
Col135
Puppis
Pictor
Col147
2360
2367
2362
2354
2204
2298
2243
7h40′
7h20′
7h
6h40′
6h20′
6h
5h40′
5h20′
14°
16°
18°
20°
22°
24°
26°
28°
30°
32°
34°
36°
38°
40°
42°
44°
46°
48°
www.jsefpirkl.com/stellaversum_maps.php

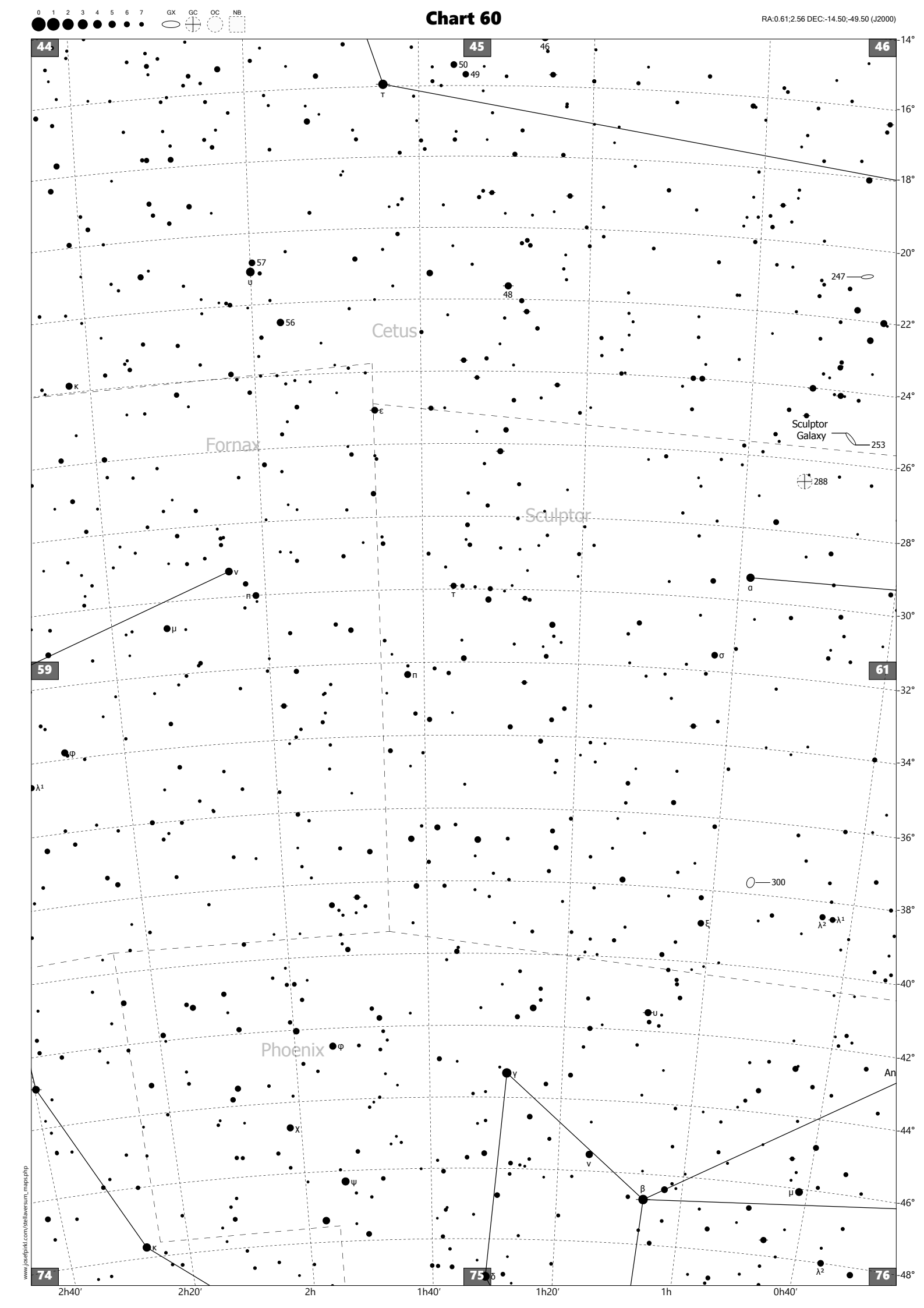
Chart 58

RA:3.91;5.85 DEC:-14.50;-49.50 (J2000)



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Chart 59
RA:2.26;4.21 DEC:-14.50;-49.50 (J2000)
0 1 2 3 4 5 6 7
GX GC OC NB
43
44
45
58
60
73
74
75
Zaurak
Eridanus
Cetus
Fornax
Horologium
Angetenar
Dalim
Fornax A
82 G. Eri
θ¹ Acamar
ESO356-004
20
15
1395
1360
1398
1399
1365
1316
1269
1291
1097
4h20′
4h
3h40′
3h20′
3h
2h40′
2h20′
14°
16°
18°
20°
22°
24°
26°
28°
30°
32°
34°
36°
38°
40°
42°
44°
46°
48°
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Chart 60
RA:0.61;2.56 DEC:-14.50;-49.50 (J2000)
0 1 2 3 4 5 6 7
GX GC OC NB
44
45
46
59
61
74
75
76
Cetus
Fornax
Sculptor
Phoenix
Sculptor Galaxy
253
247
288
300
57
56
50
49
48
46
14°
16°
18°
20°
22°
24°
26°
28°
30°
32°
34°
36°
38°
40°
42°
44°
46°
48°
2h40'
2h20'
2h
1h40'
1h20'
1h
0h40'
www.josefpirkl.com/stellaversum_maps.php