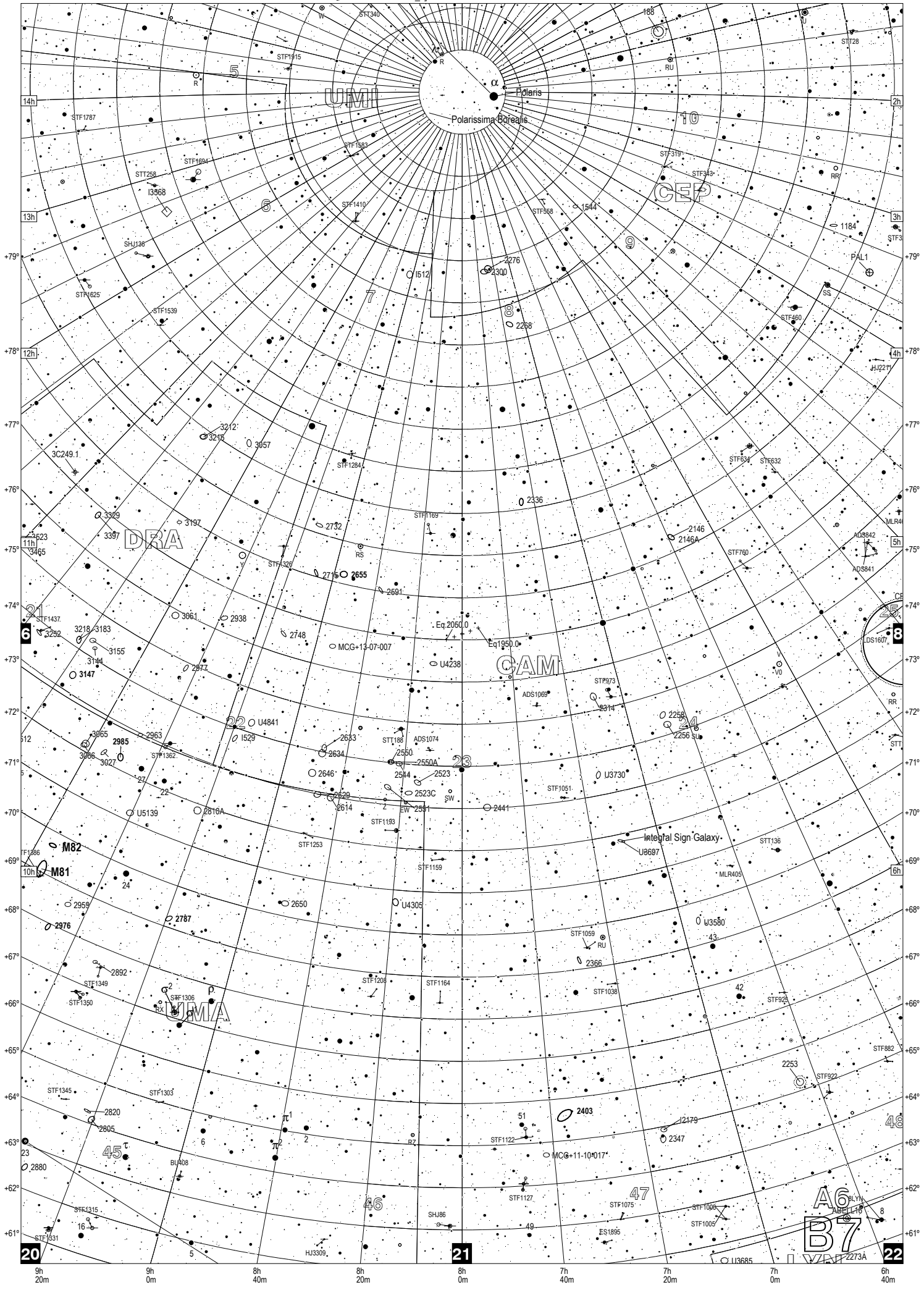


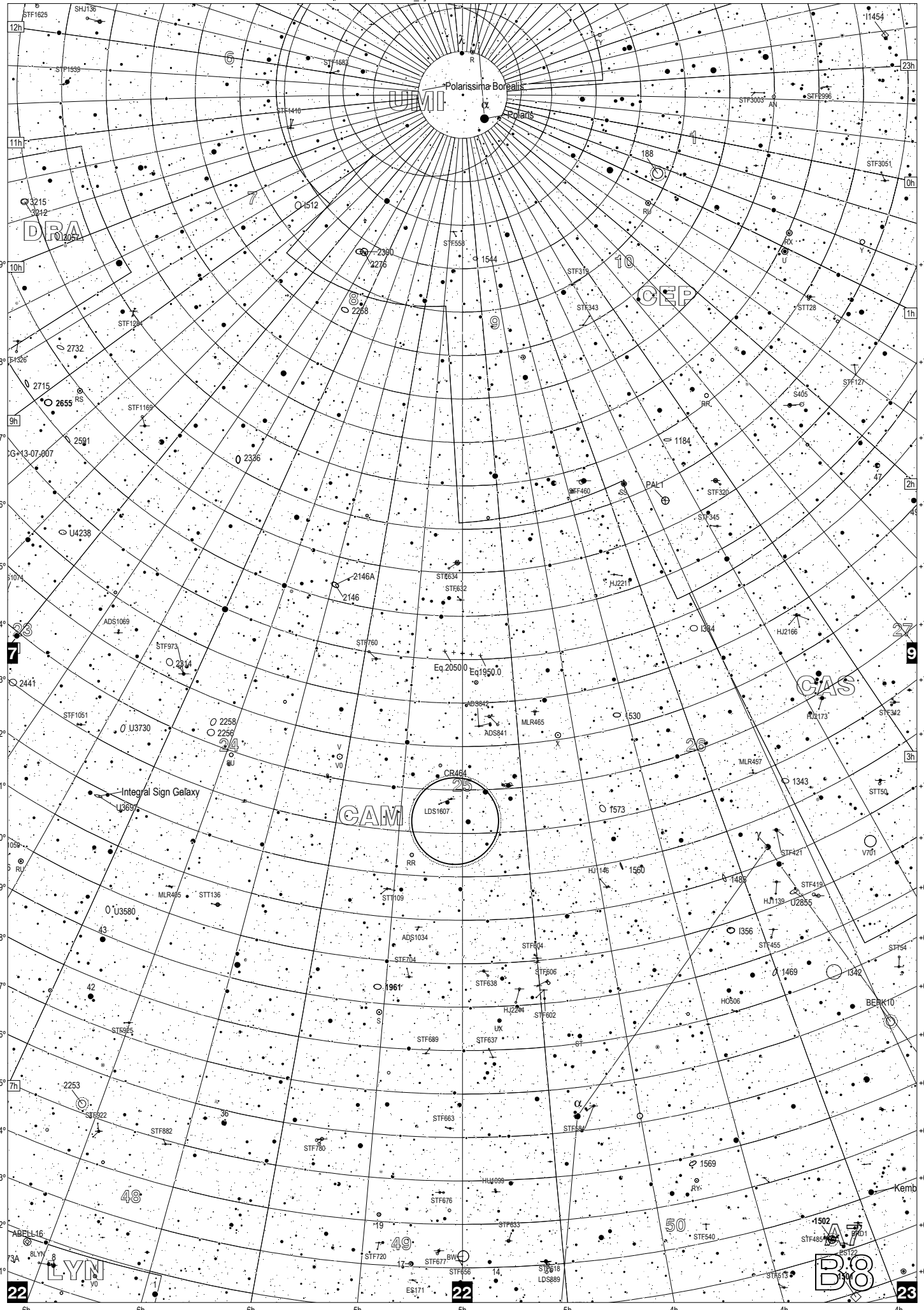
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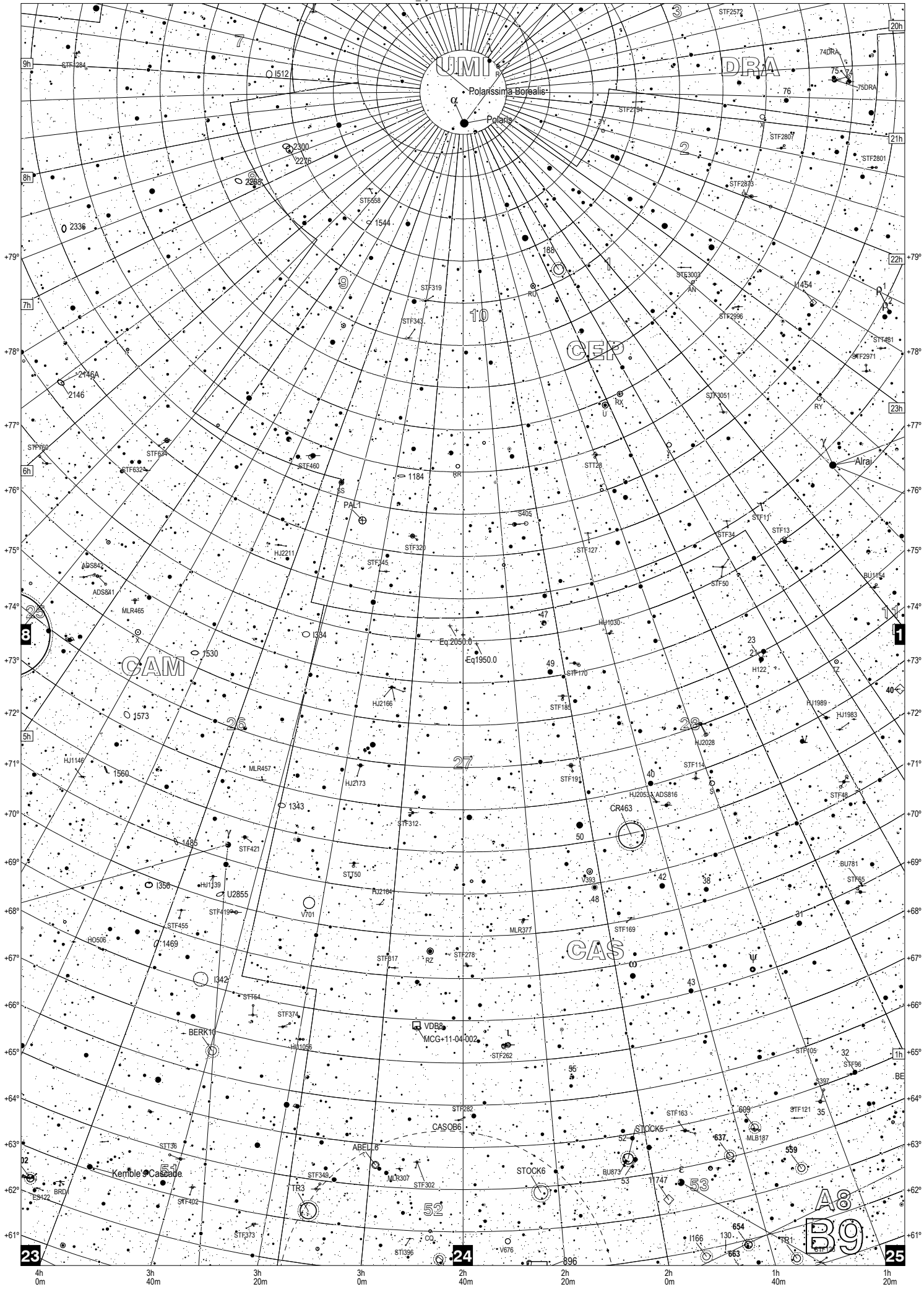
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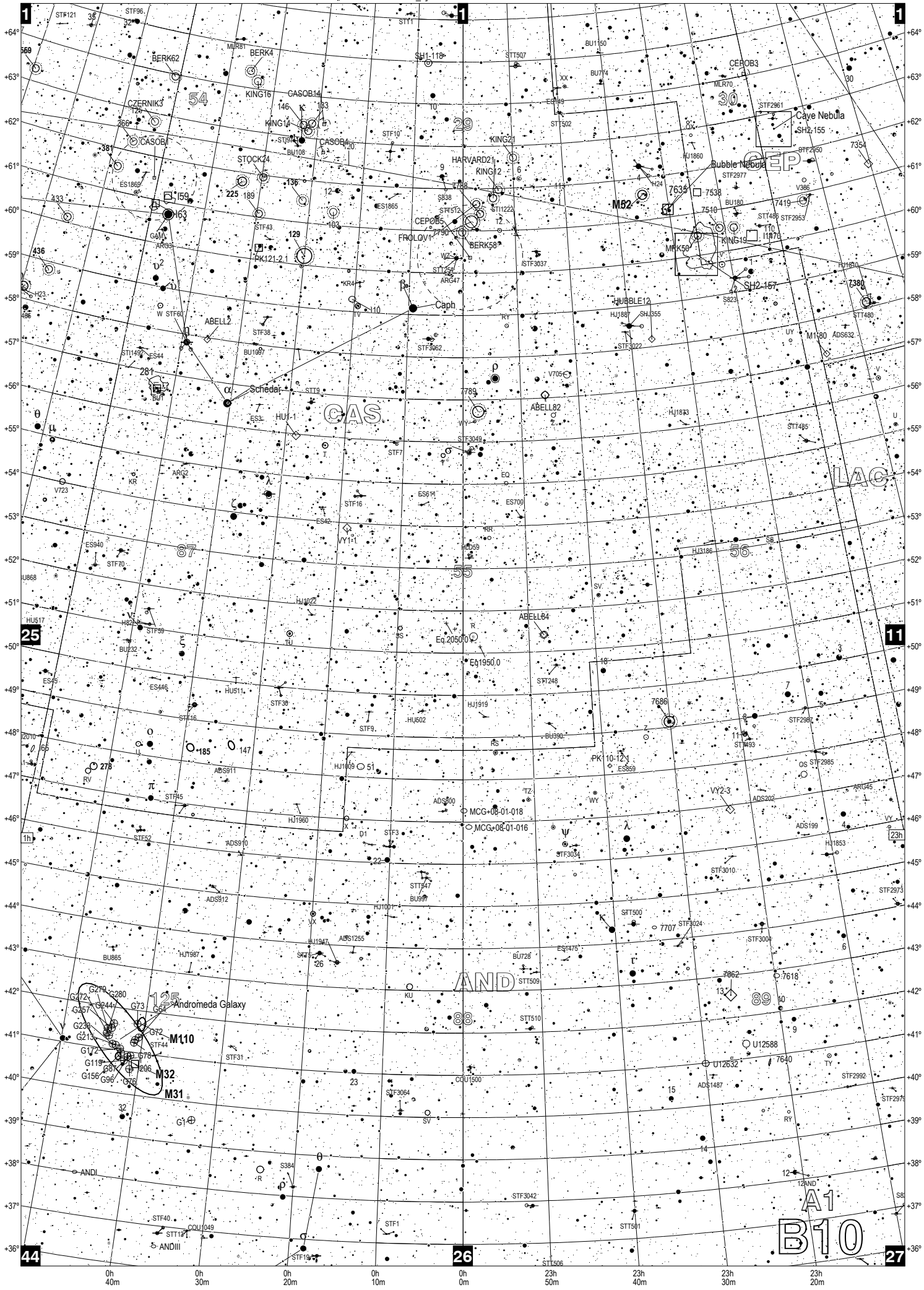
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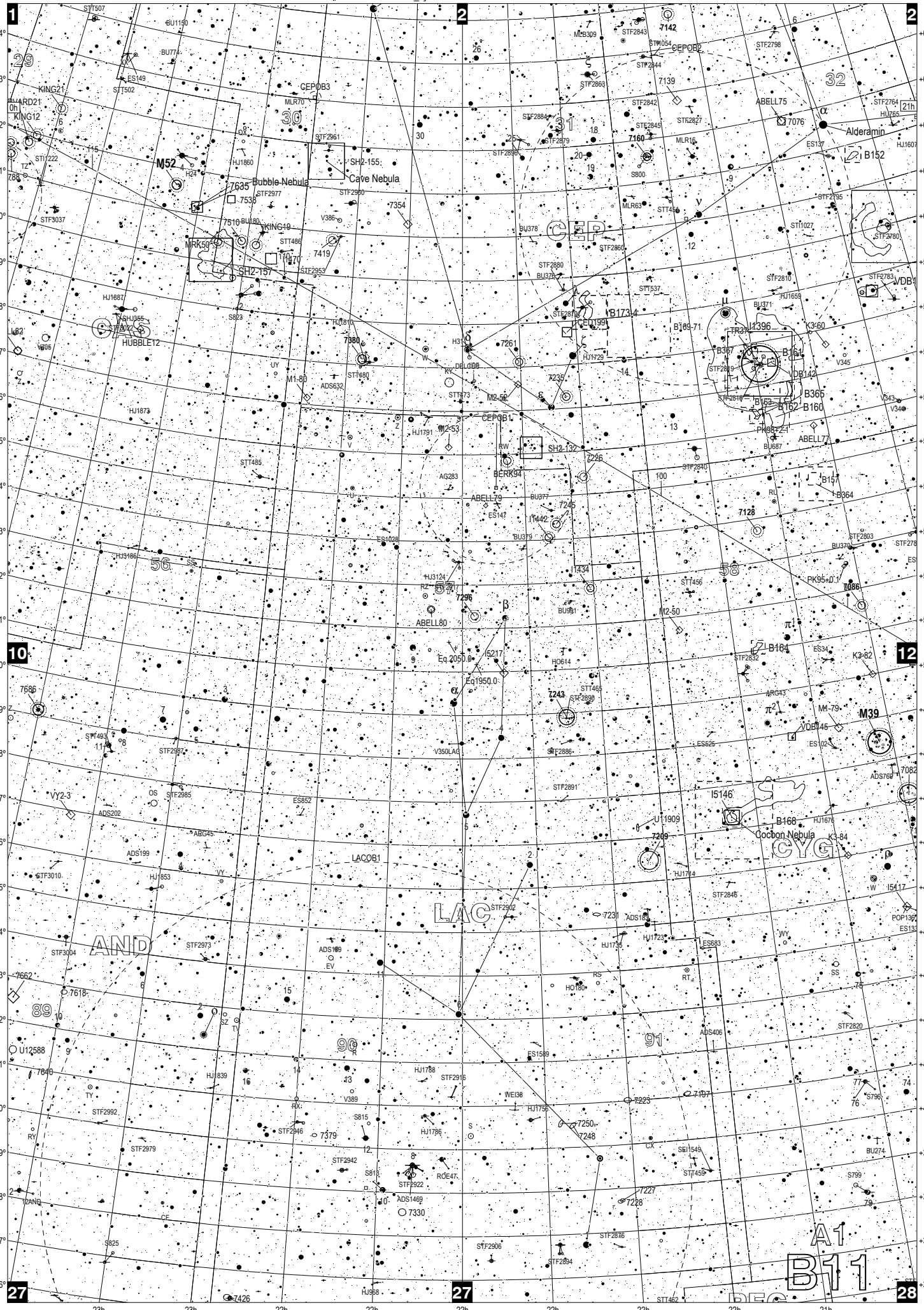
A5
B6











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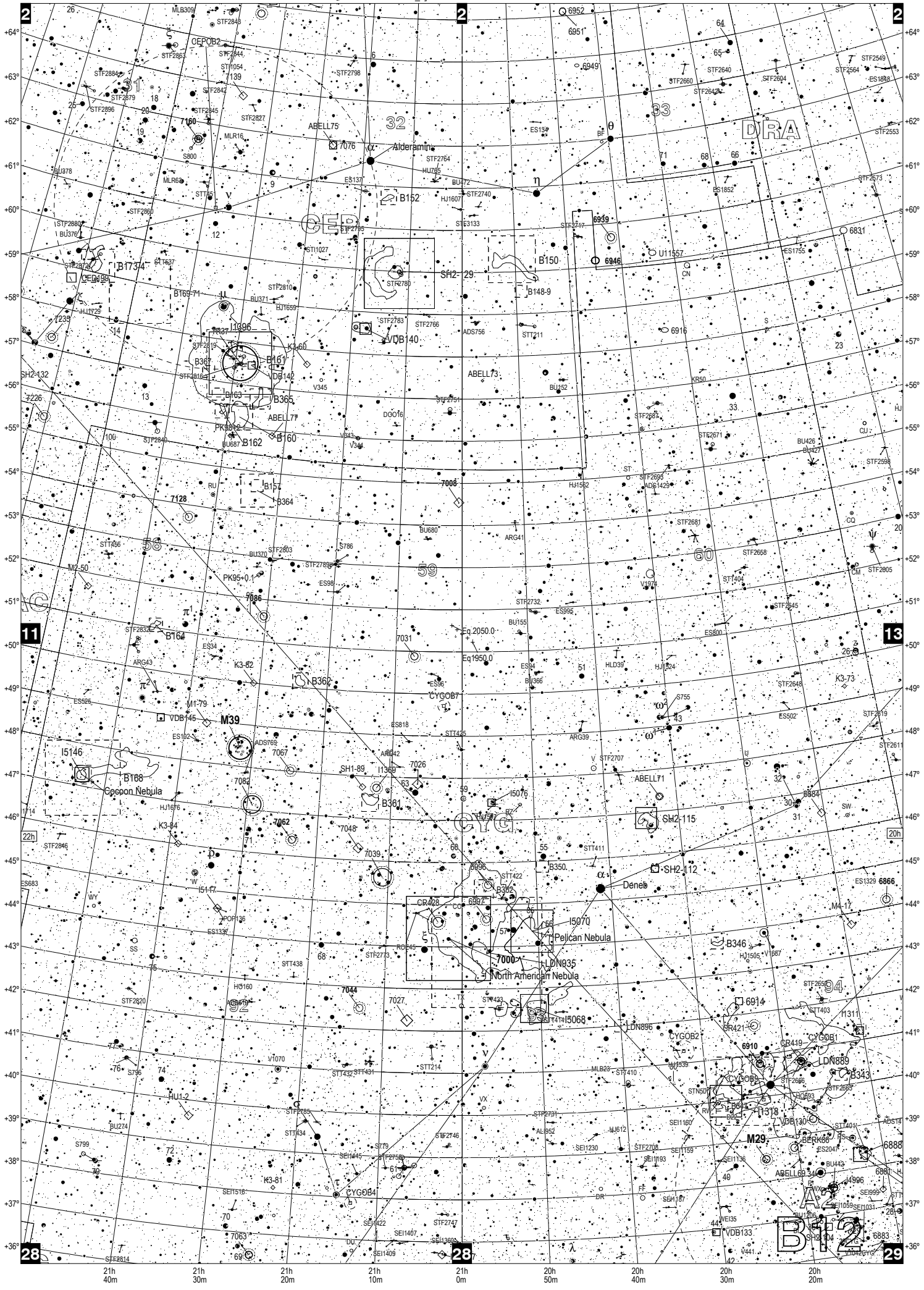
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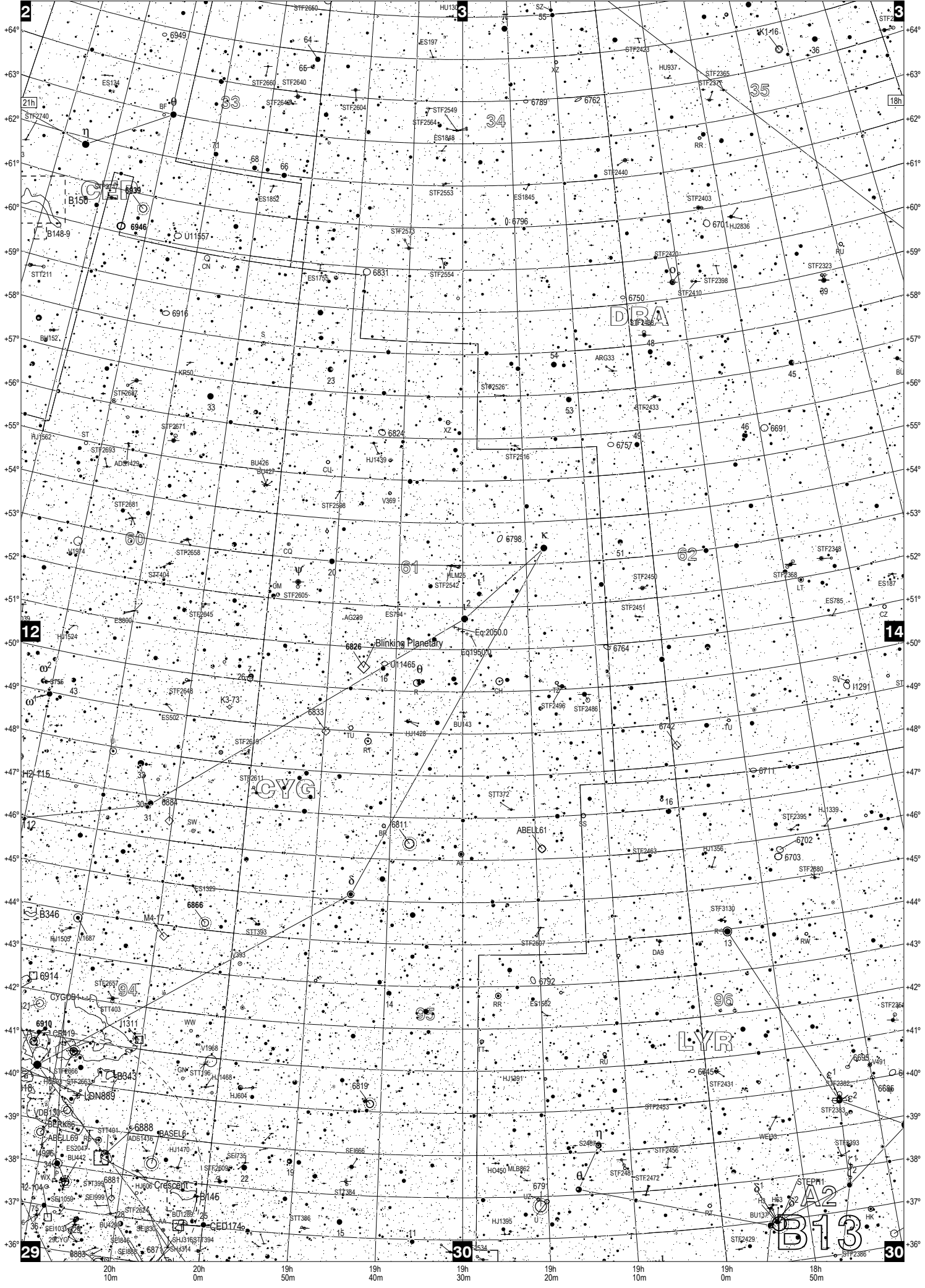
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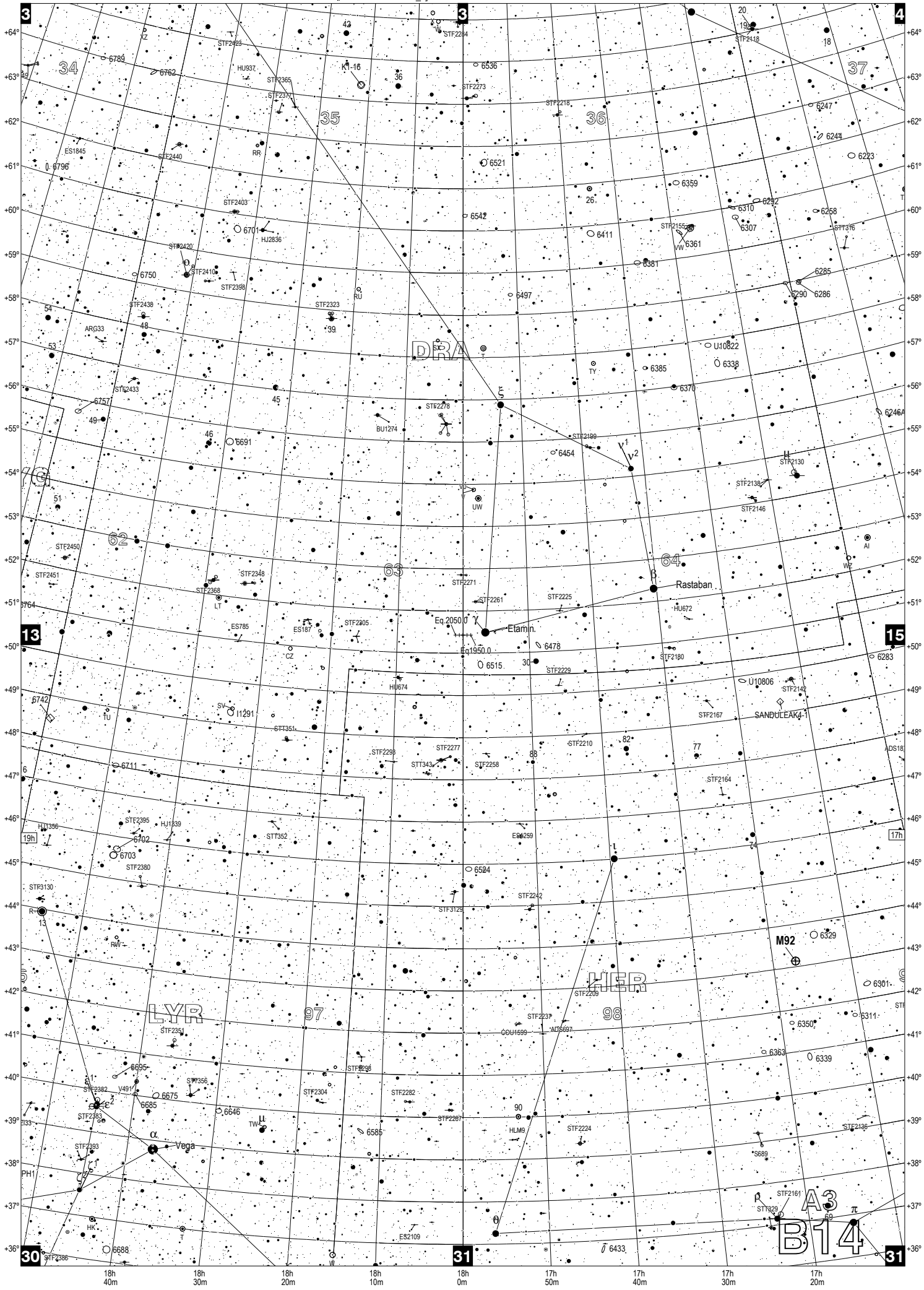
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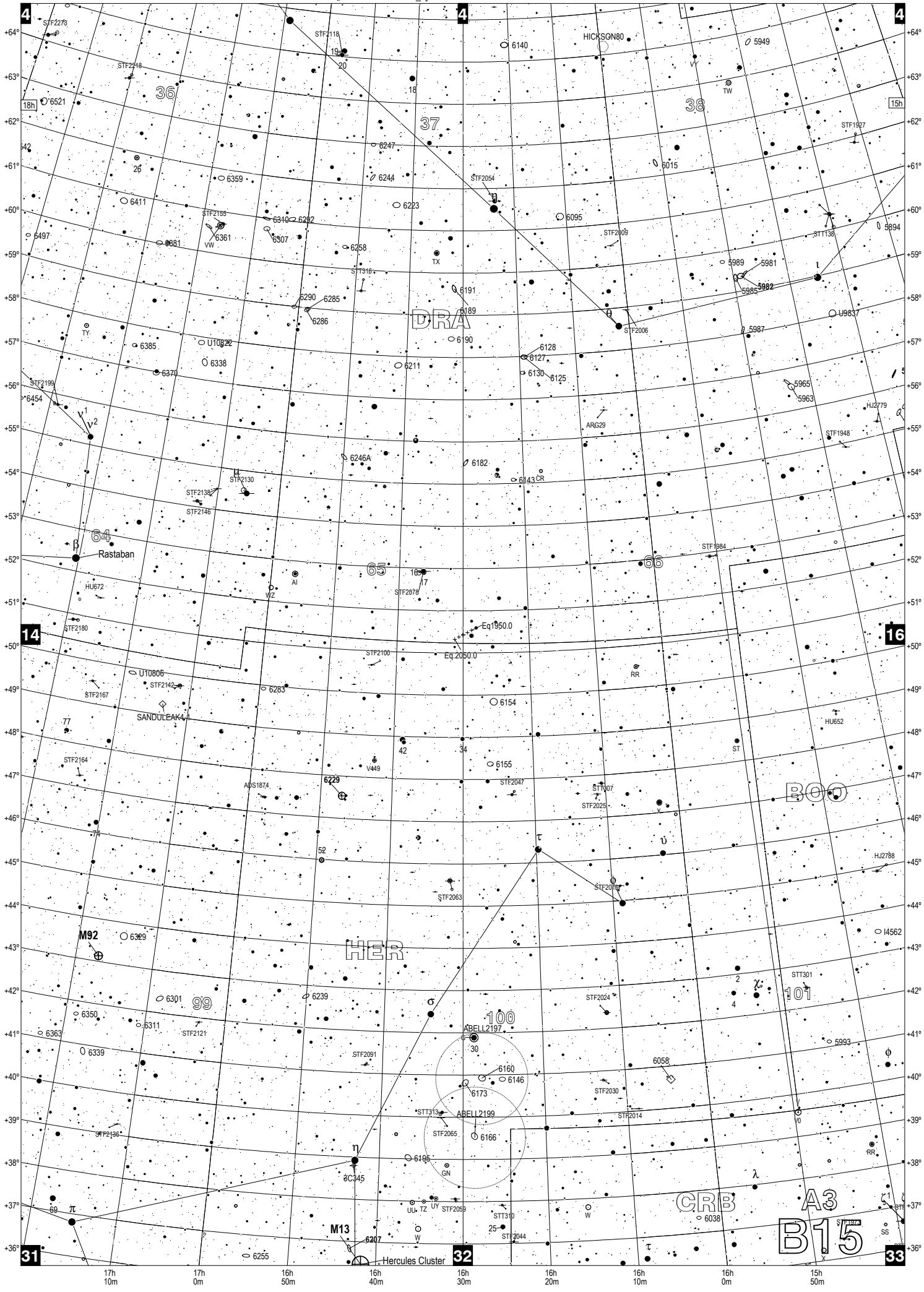
A1
B11

23h 10m 23h 0m 22h 50m 22h 40m 22h 30m 22h 20m 22h 10m 22h 0m 21h 50m









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16

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32

33

DRA

HER

BOO

CRB

A3

B15

Hercules Cluster

M13

M92

ABELL 2197

ABELL 2199

SANDULEAK 4

Rastaban

HICKSON 80

HERCULES CLUSTER

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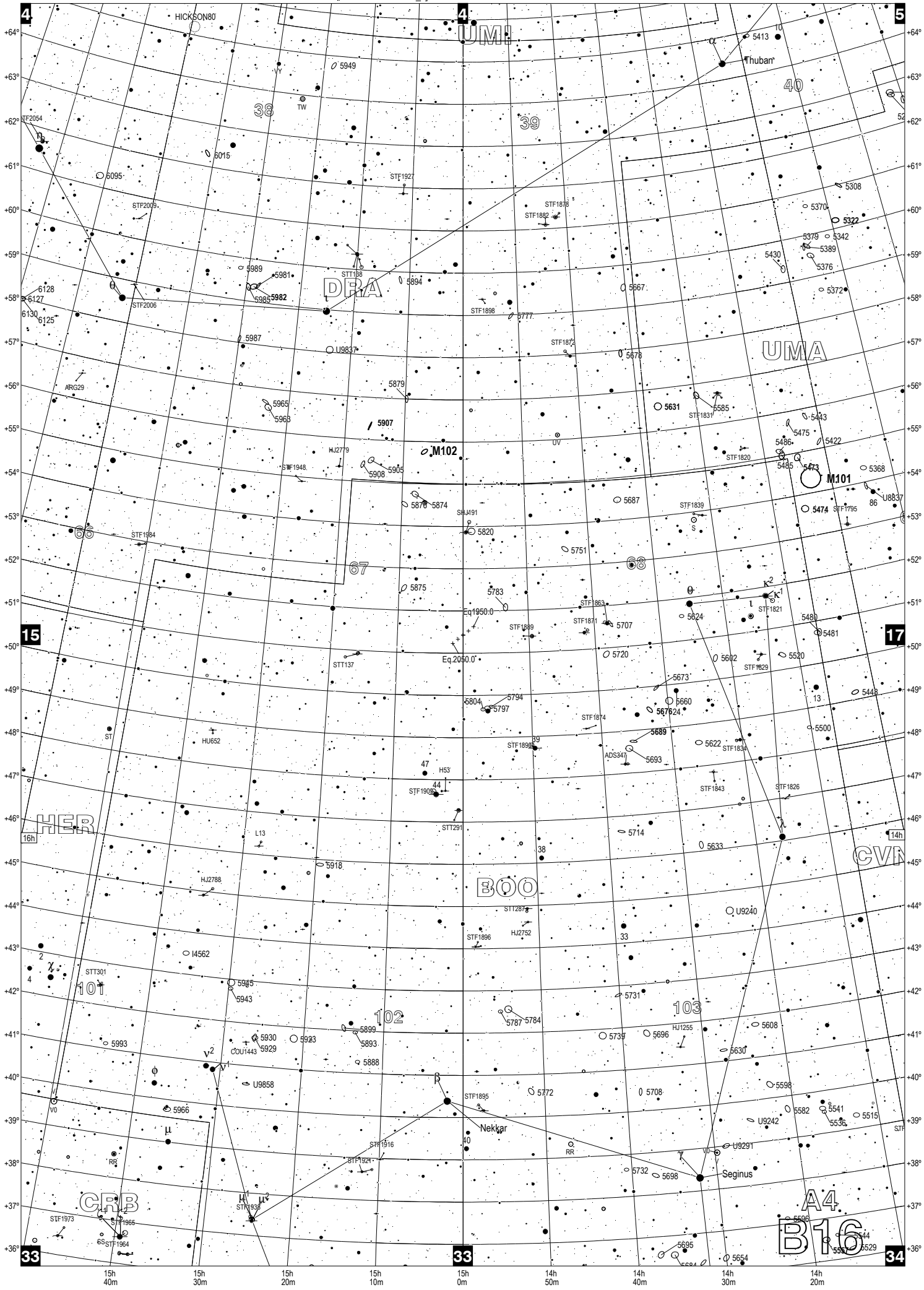
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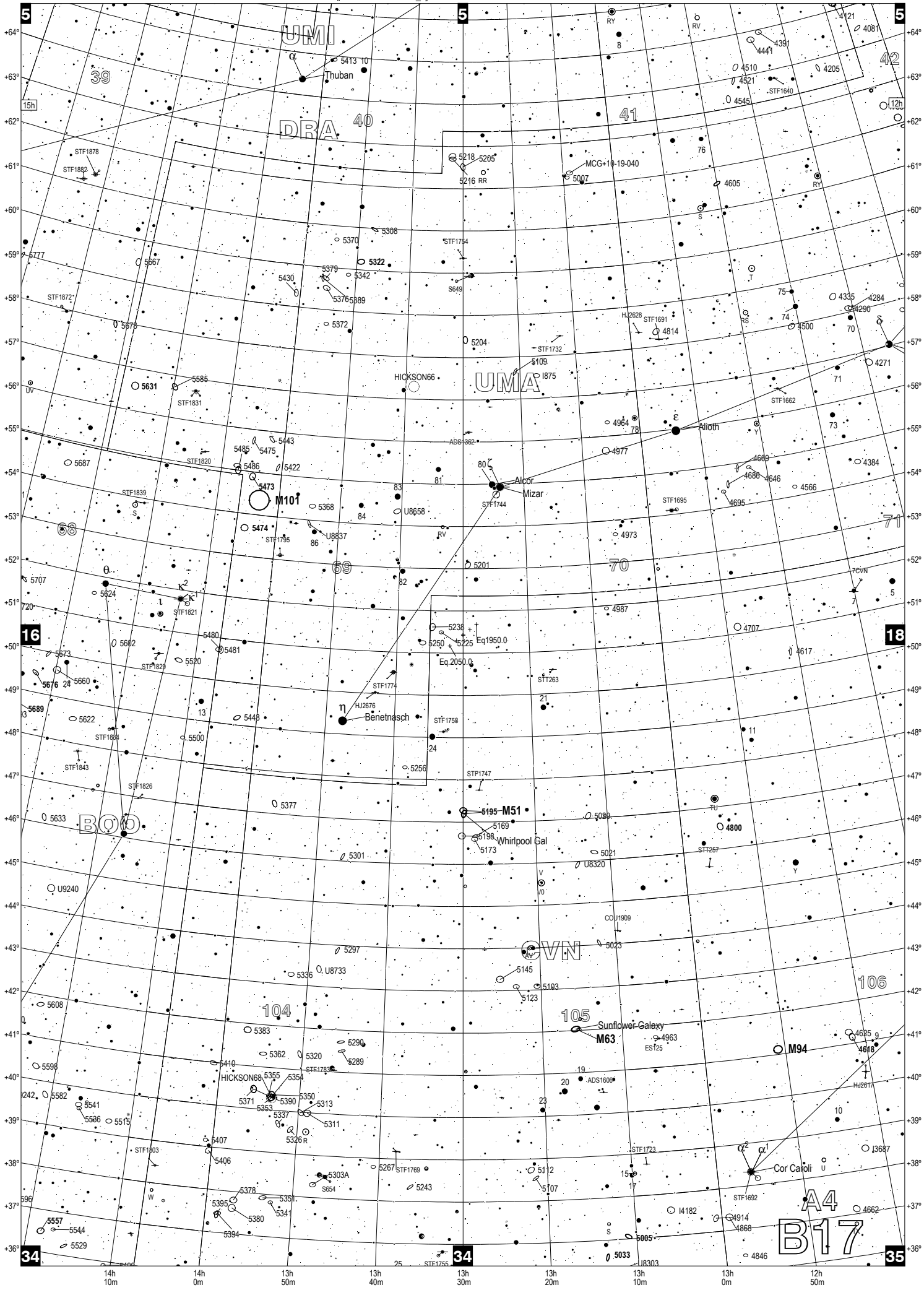
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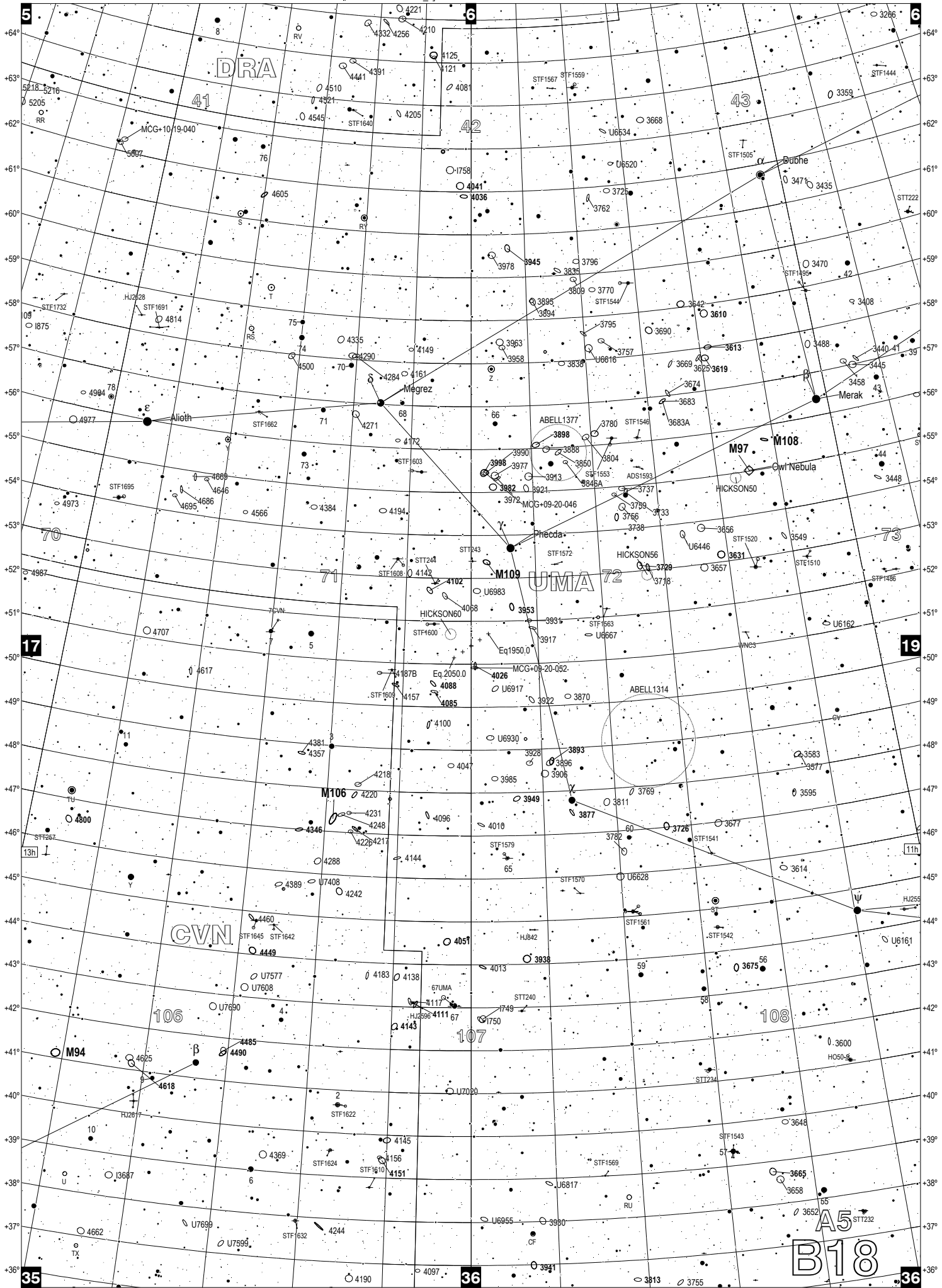
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15h 40m 30m 20m 10m 0m 50m 40m 30m 20m

A4
B16





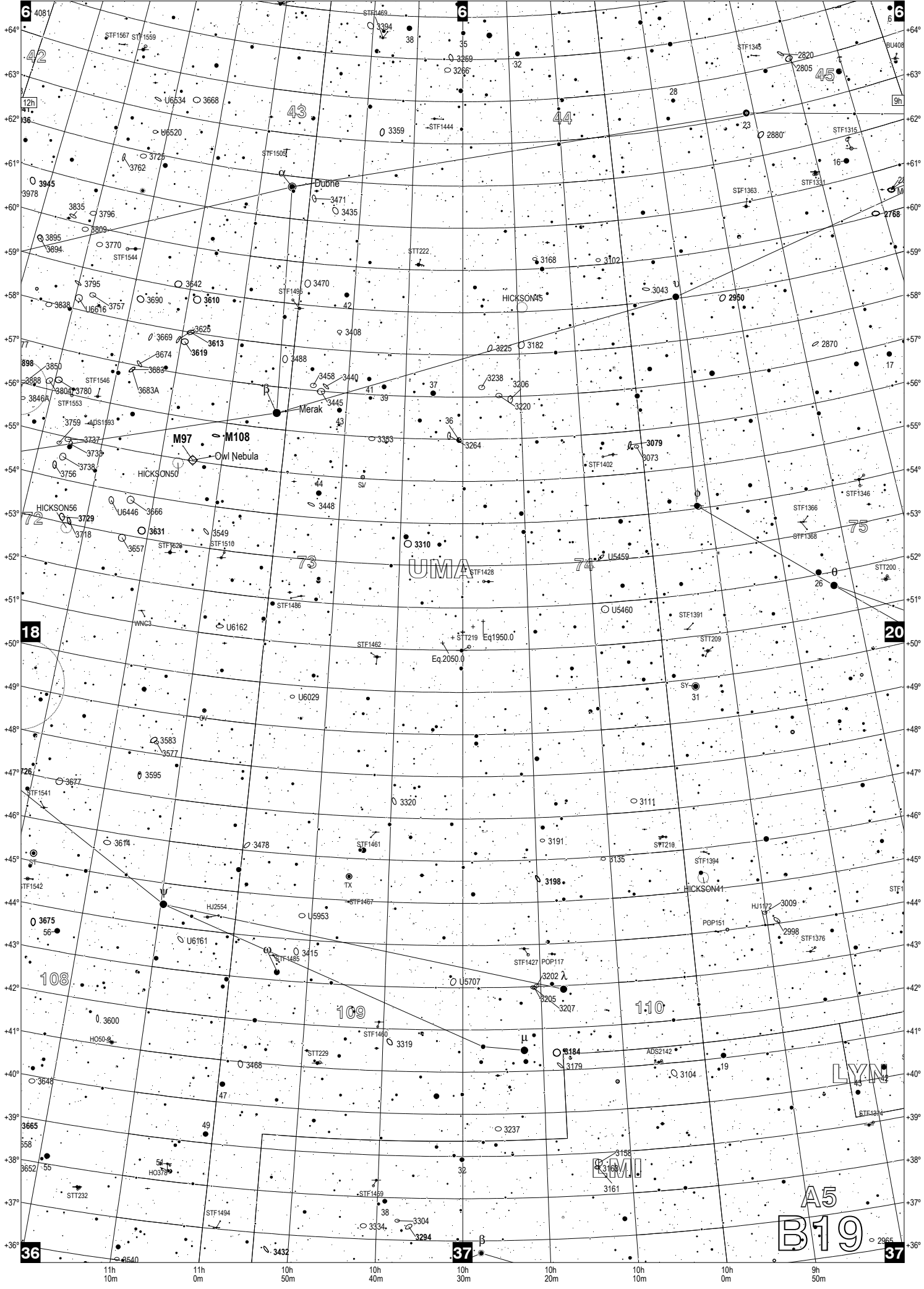
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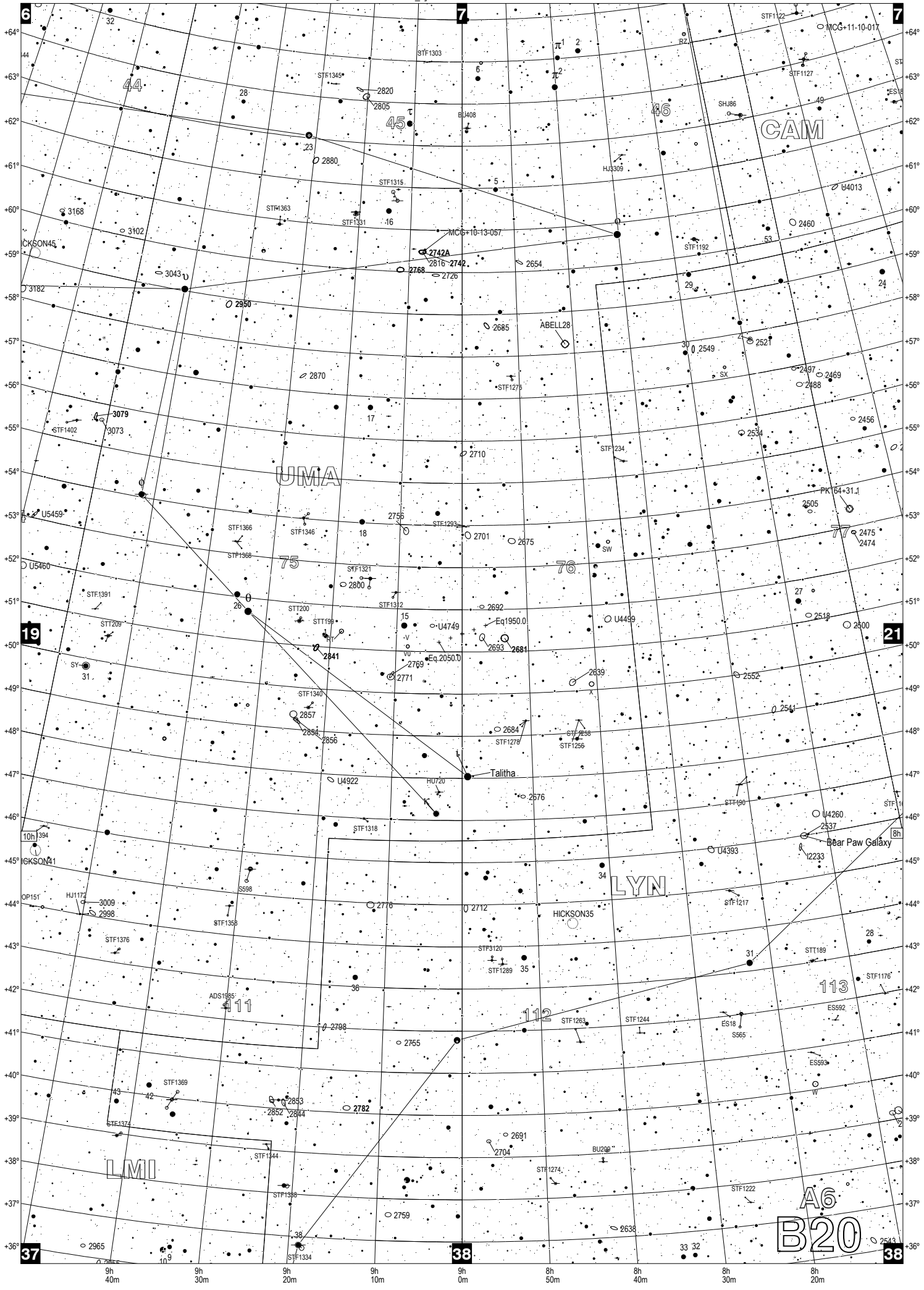
UMA

CVN

A5
B18

12h 40m 12h 30m 12h 20m 12h 10m 0m 11h 50m 11h 40m 11h 30m 11h 20m





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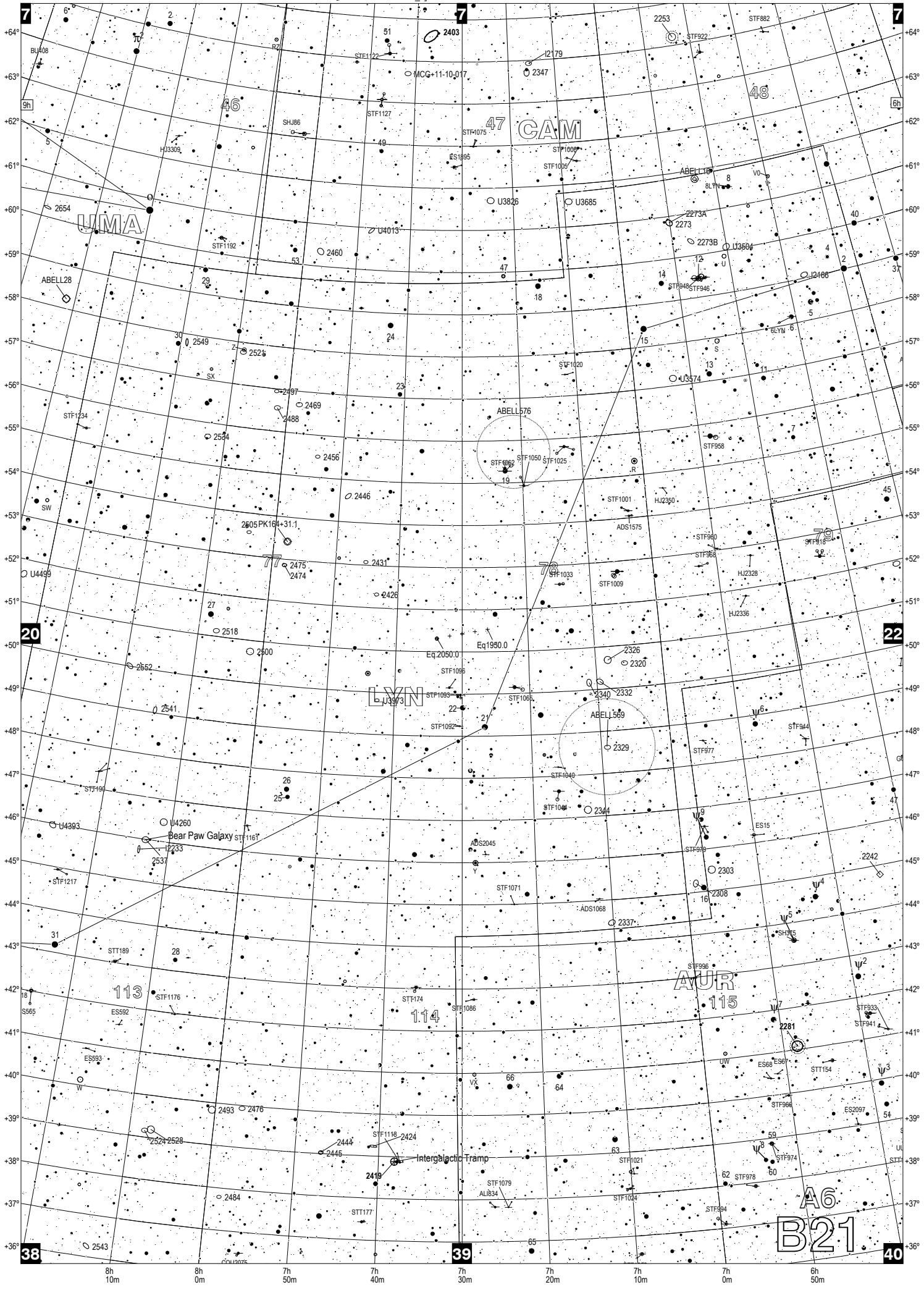
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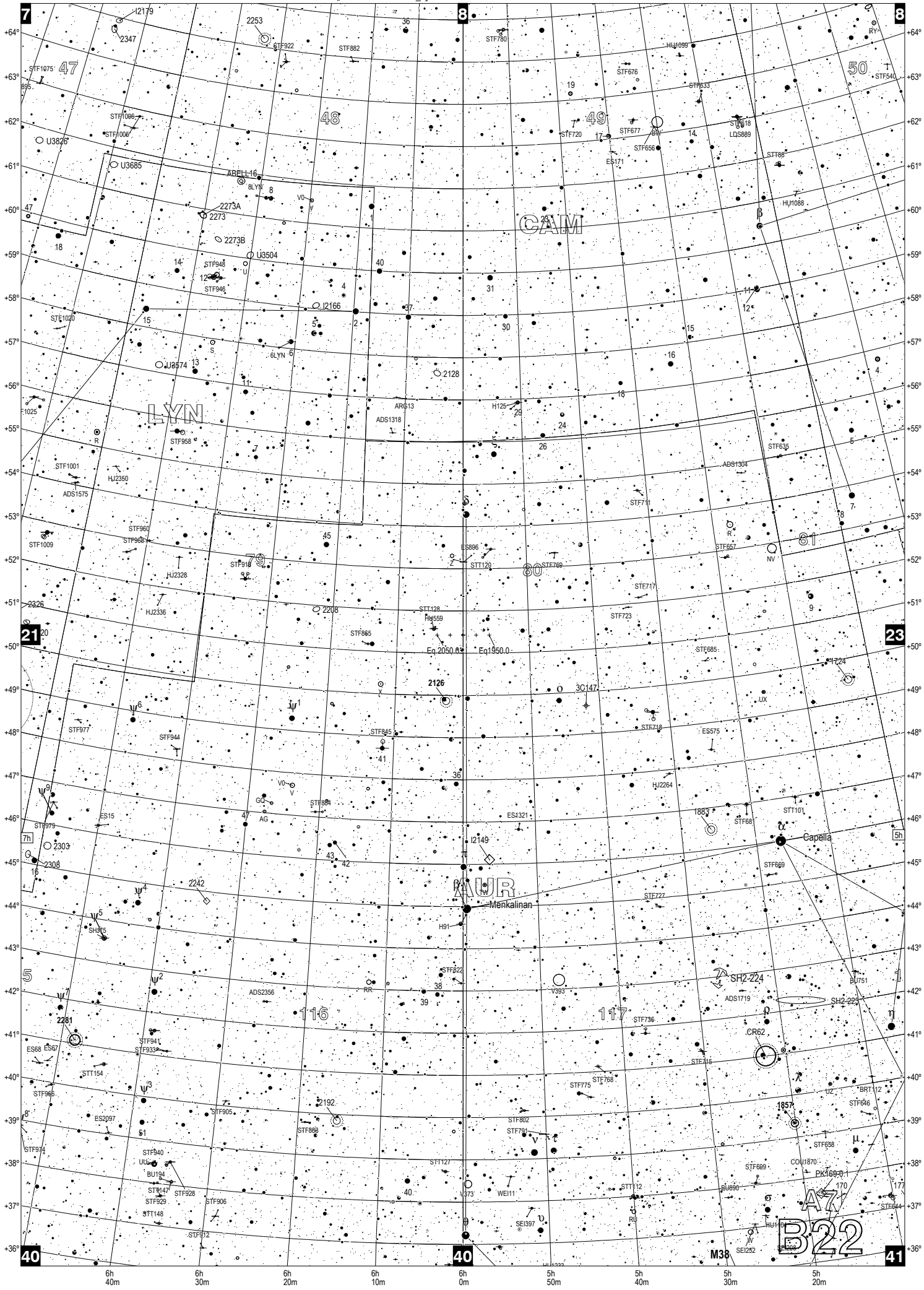
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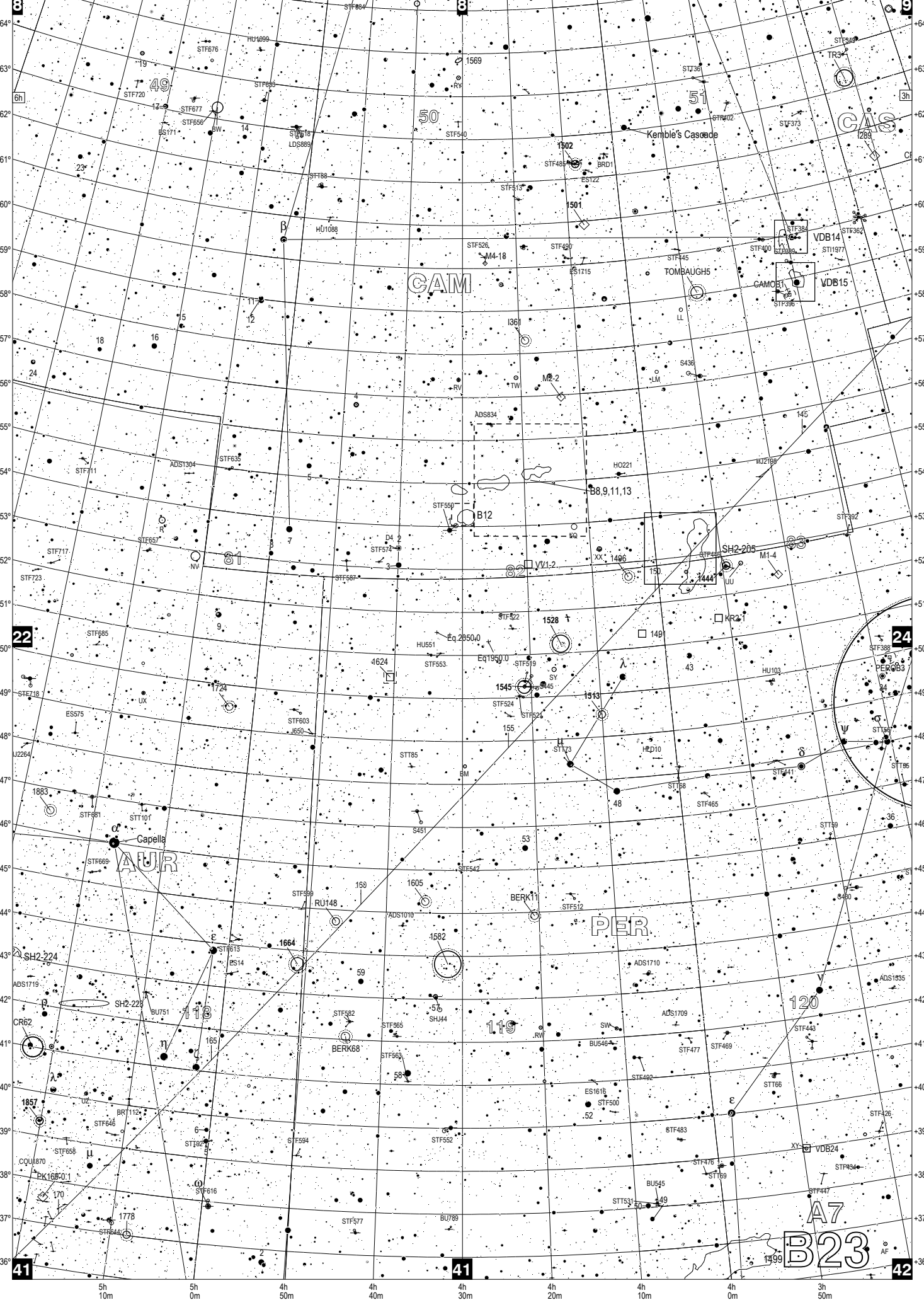
9h 40m 9h 30m 9h 20m 9h 10m 9h 0m 8h 50m 8h 40m 8h 30m 8h 20m

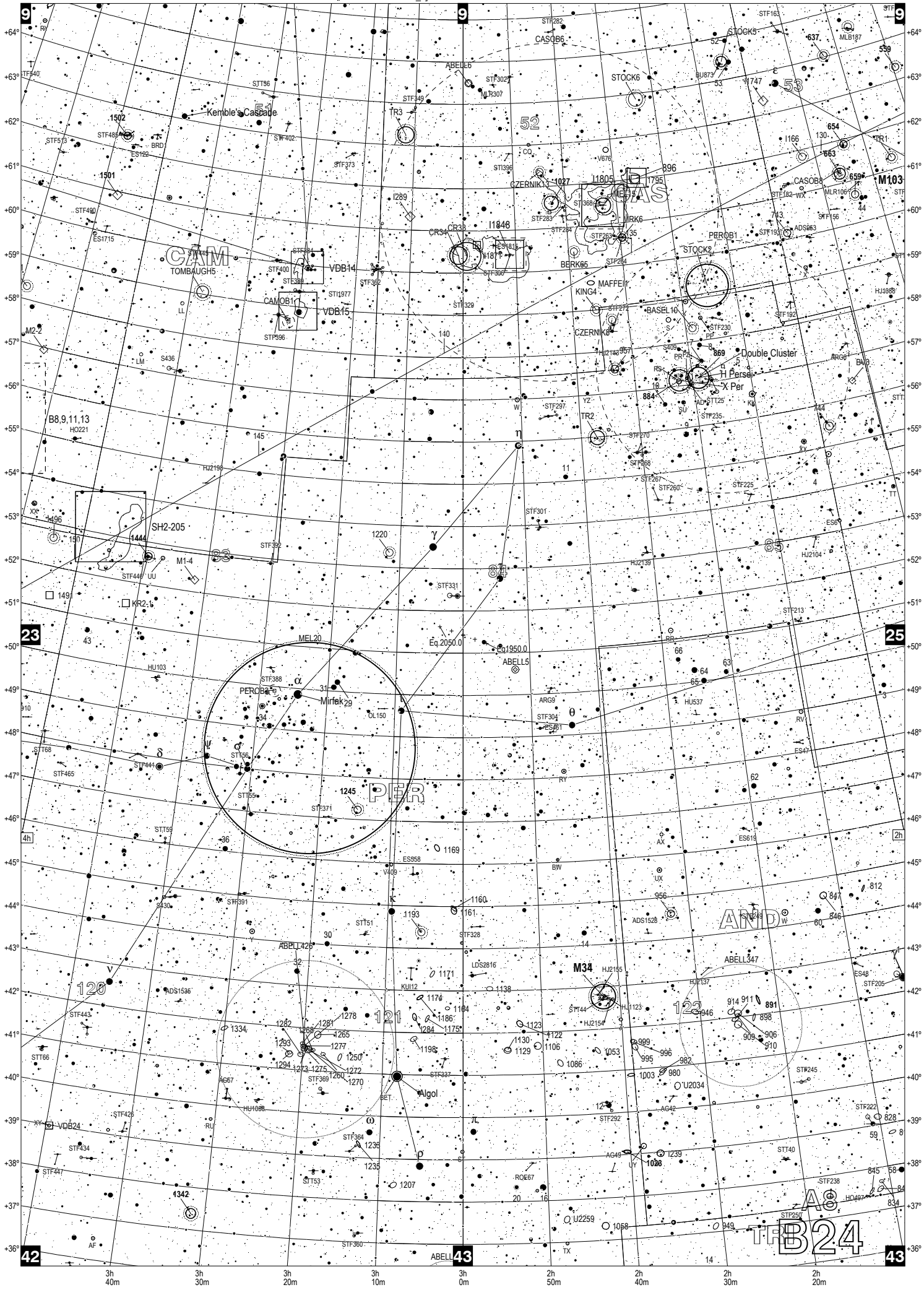
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B20

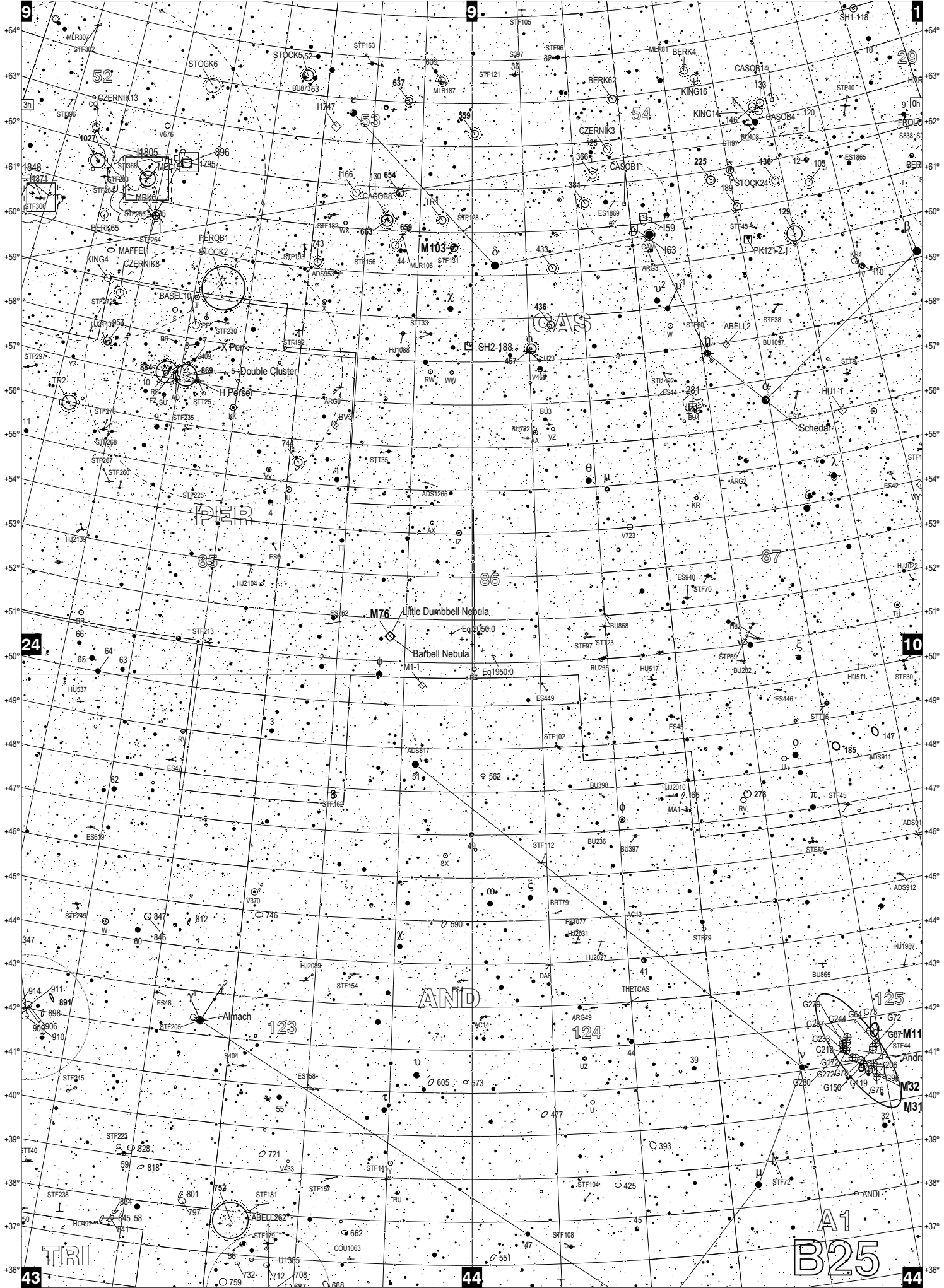


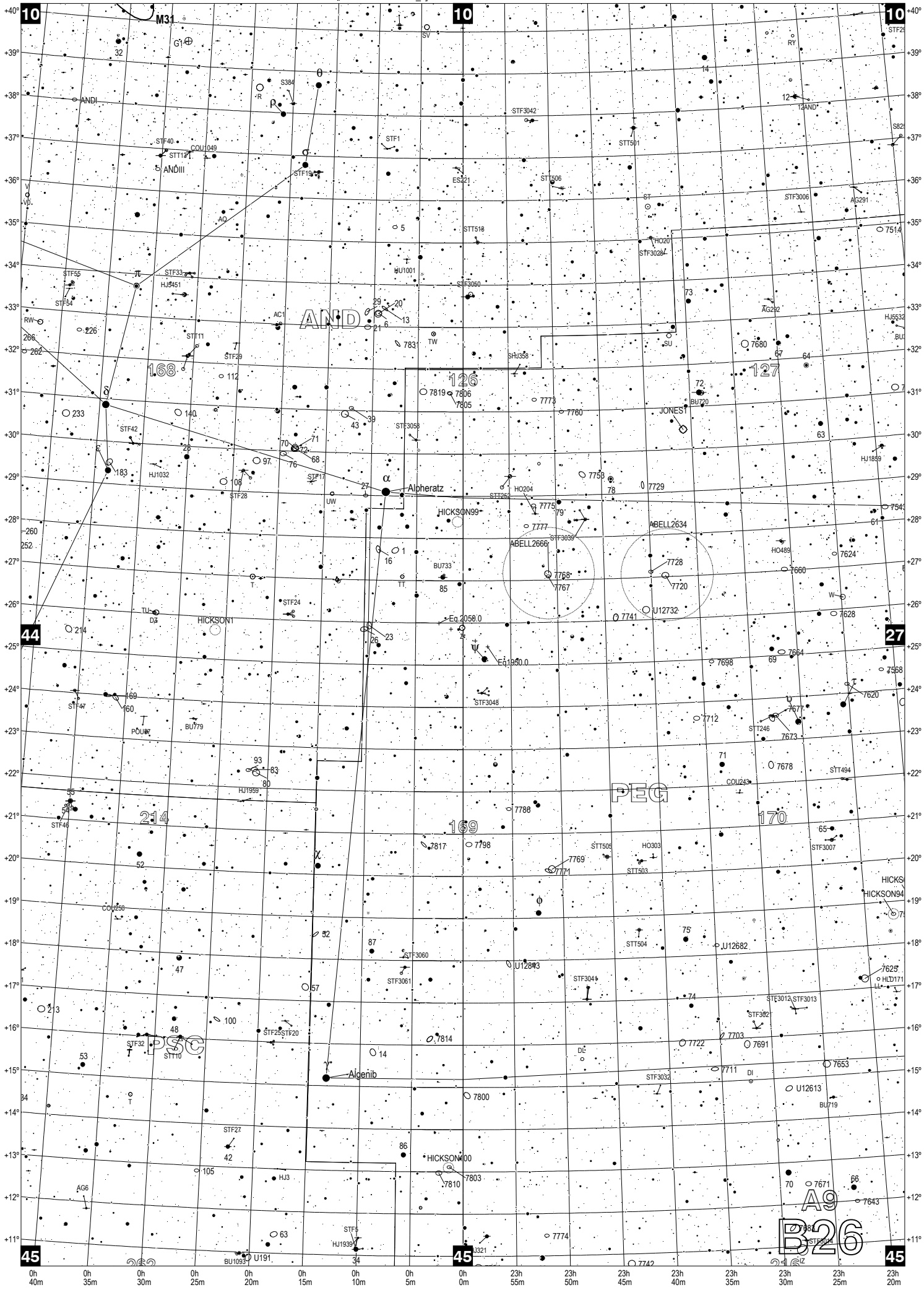
A6
B21











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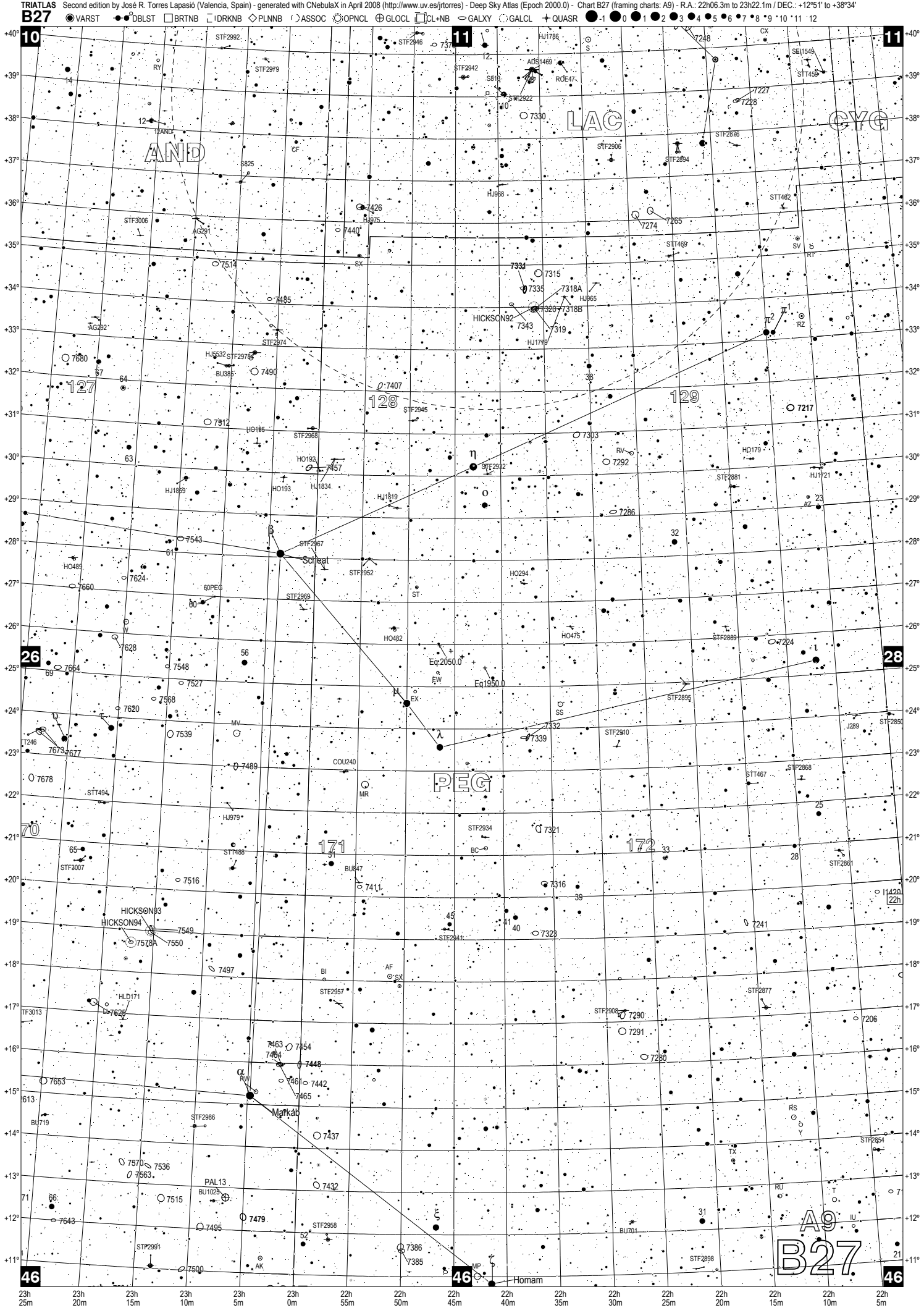
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A9
B26



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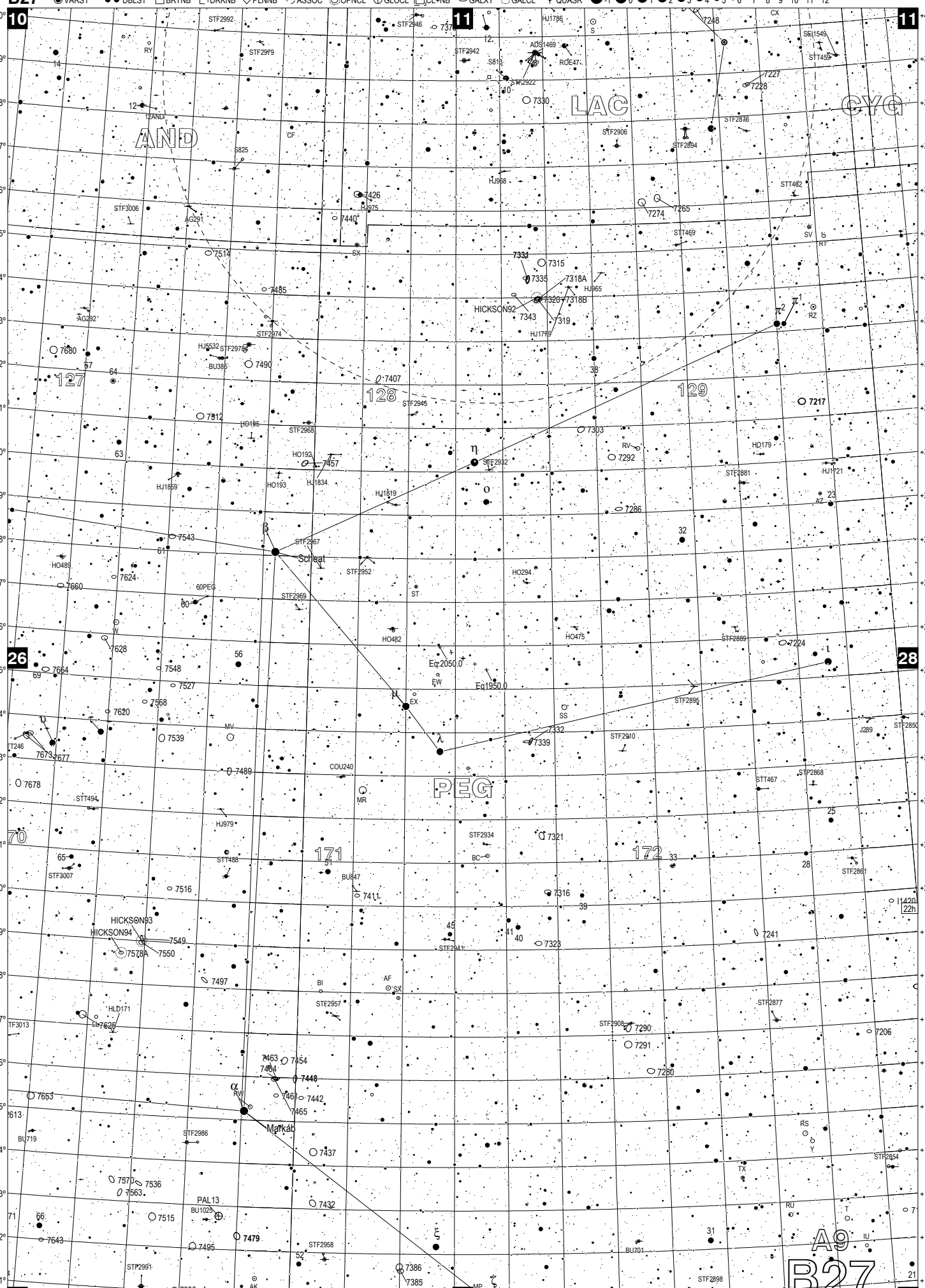
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23h 25m 23h 20m 23h 15m 23h 10m 23h 5m 23h 0m 22h 55m 22h 50m 22h 45m 22h 40m 22h 35m 22h 30m 22h 25m 22h 20m 22h 15m 22h 10m 22h 5m



AND

LAC

CYG

PEG

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128

129

170

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172

A9
B27

Homam

MP

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23h 25m

23h 20m

23h 15m

23h 10m

23h 5m

23h 0m

22h 55m

22h 50m

22h 45m

22h 40m

22h 35m

22h 30m

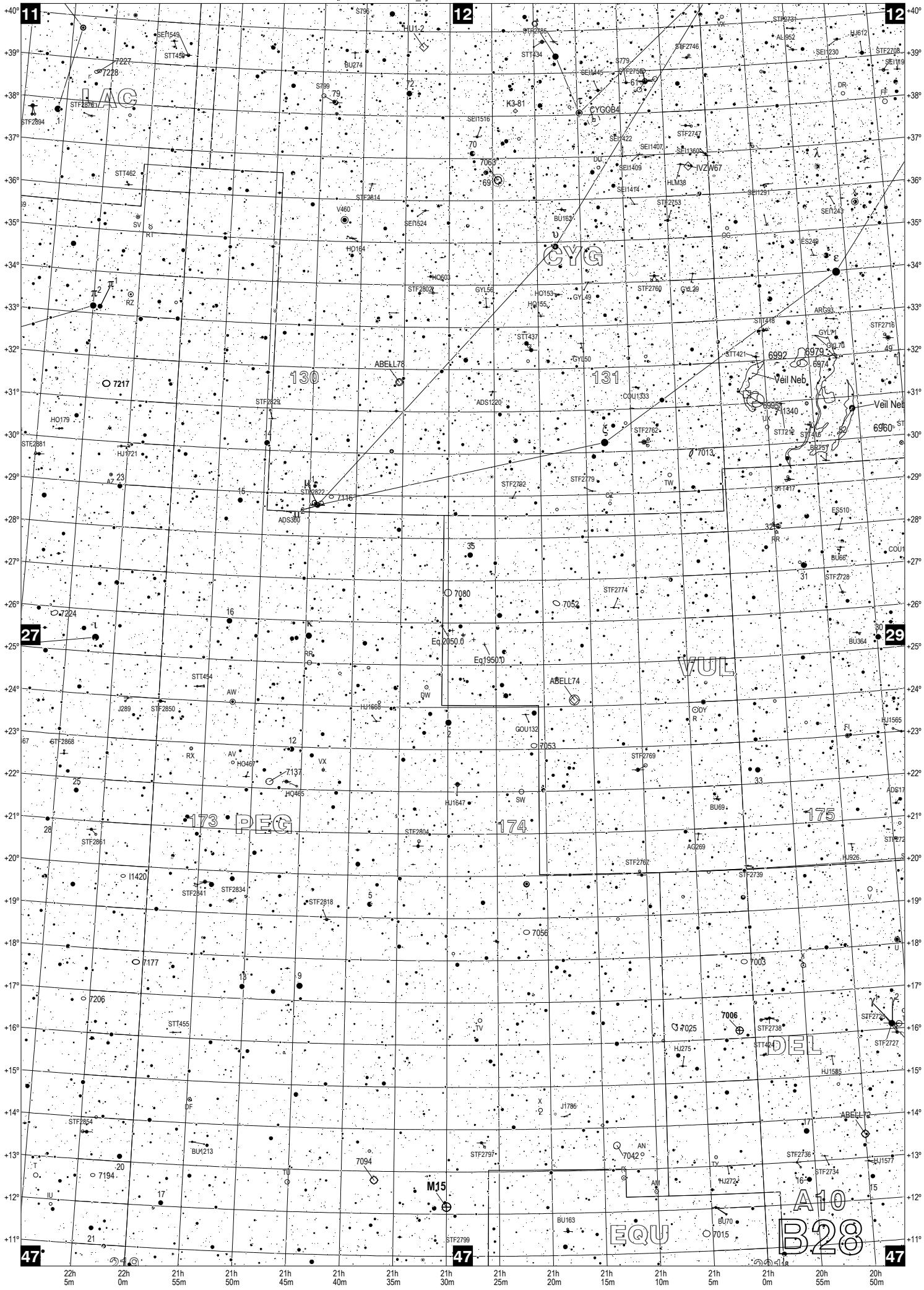
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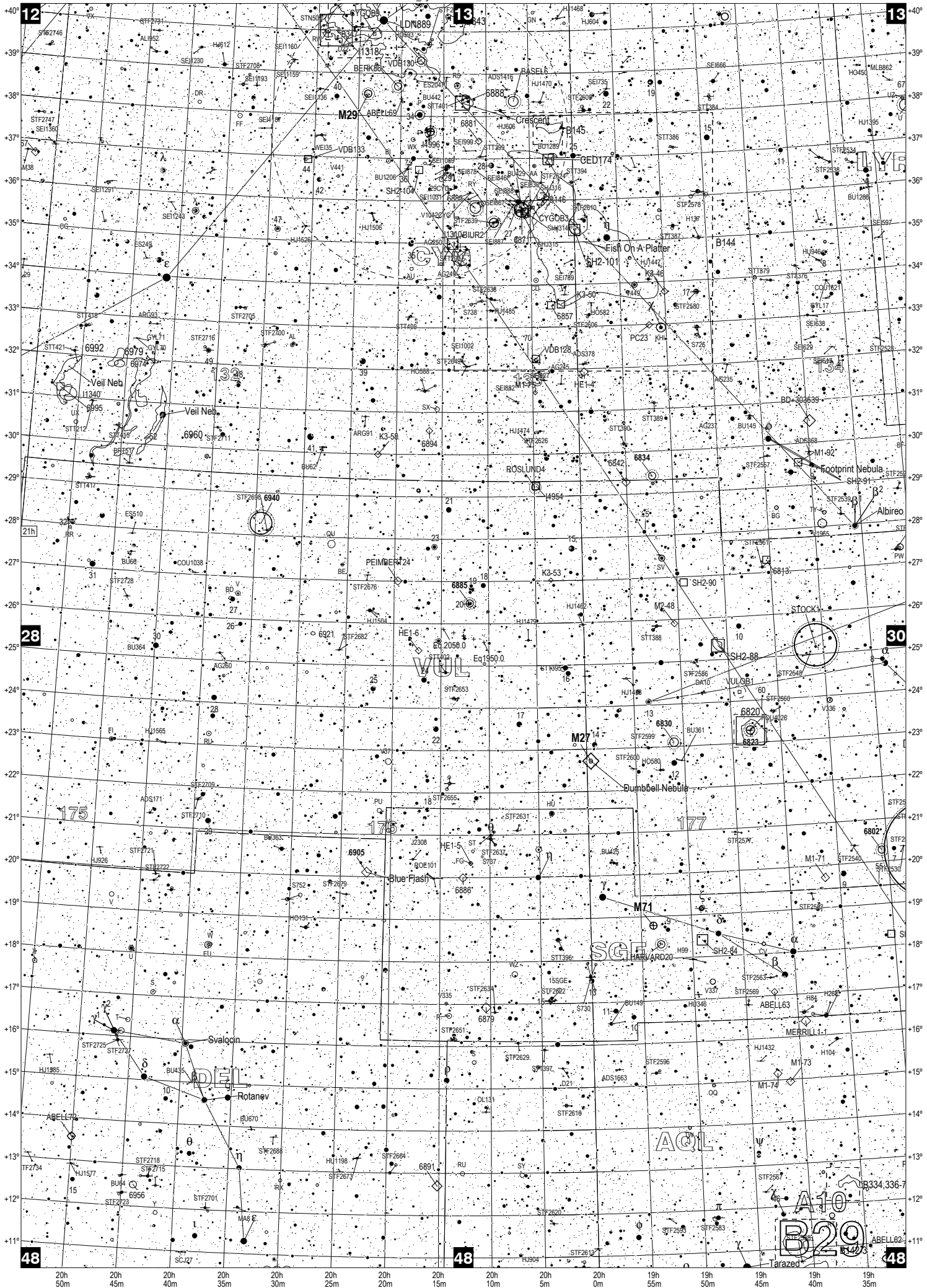
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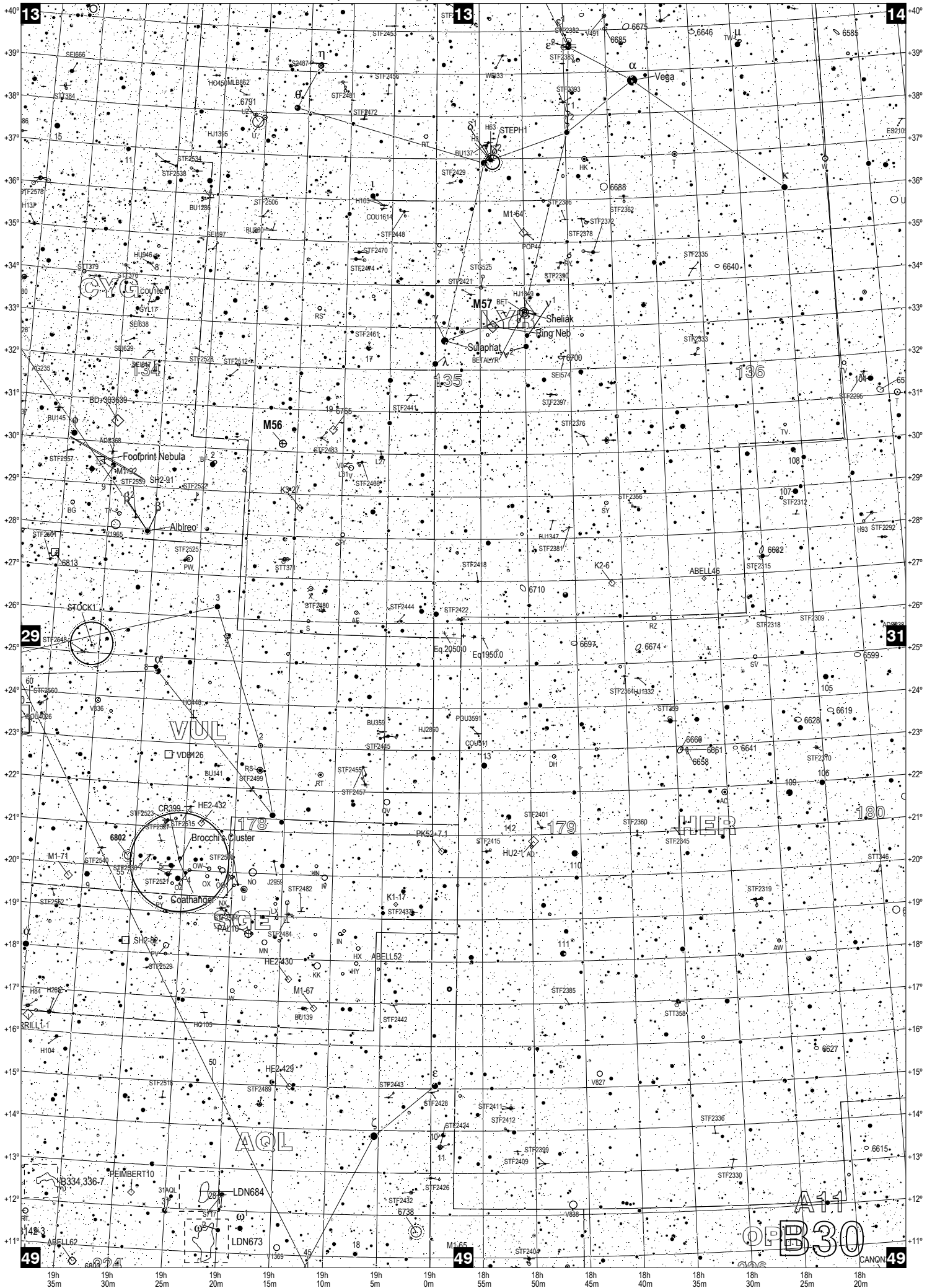
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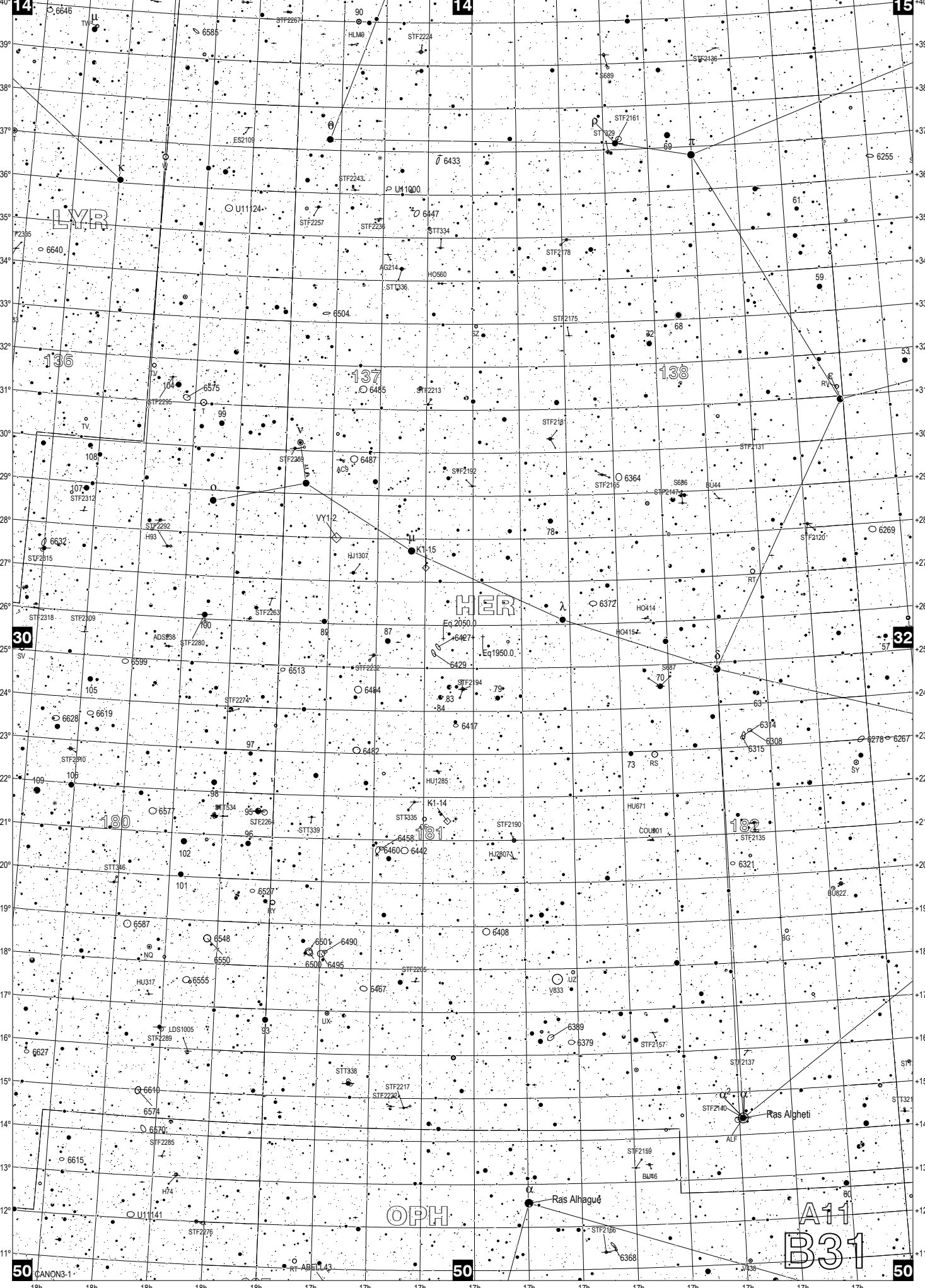
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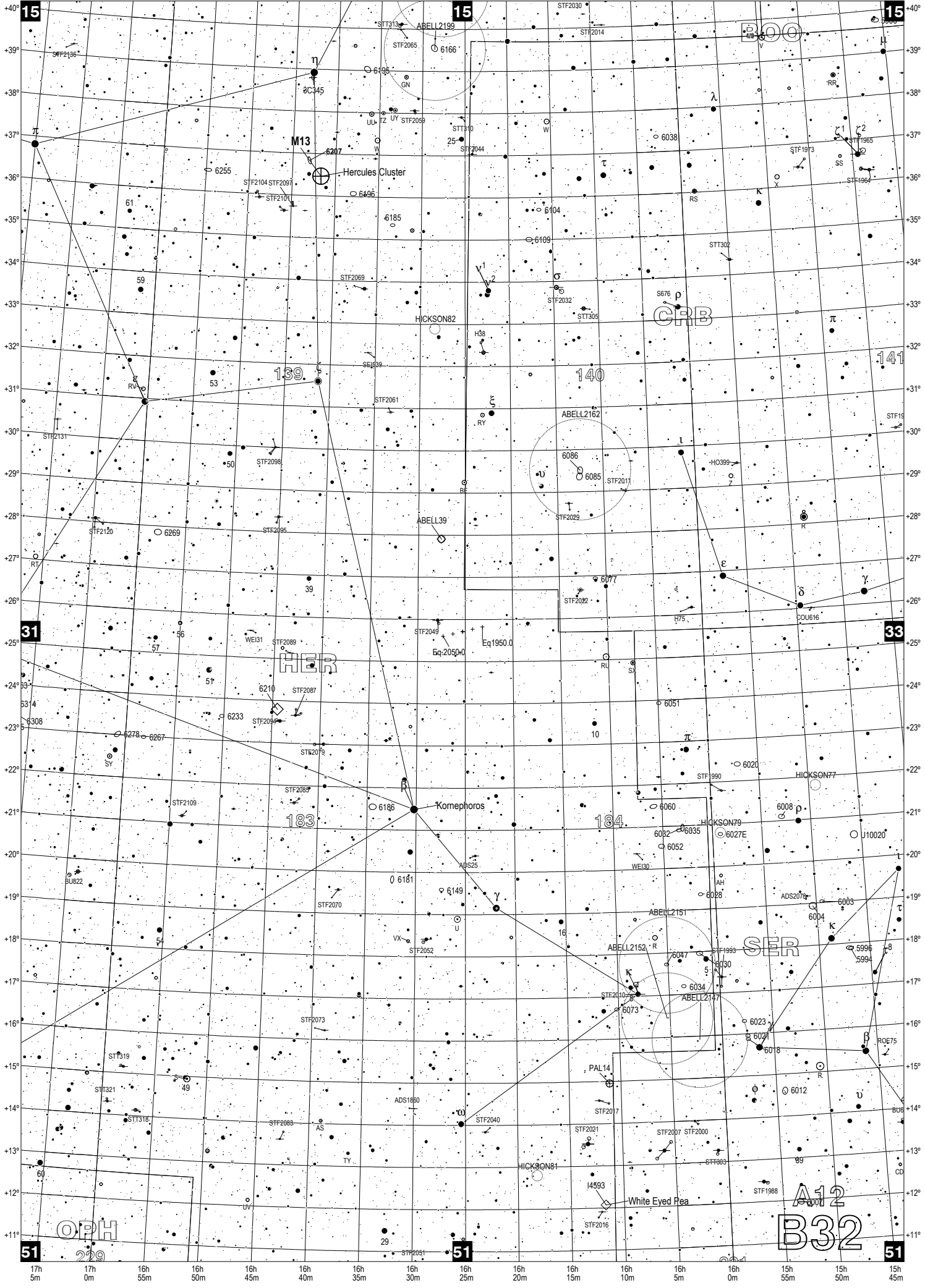
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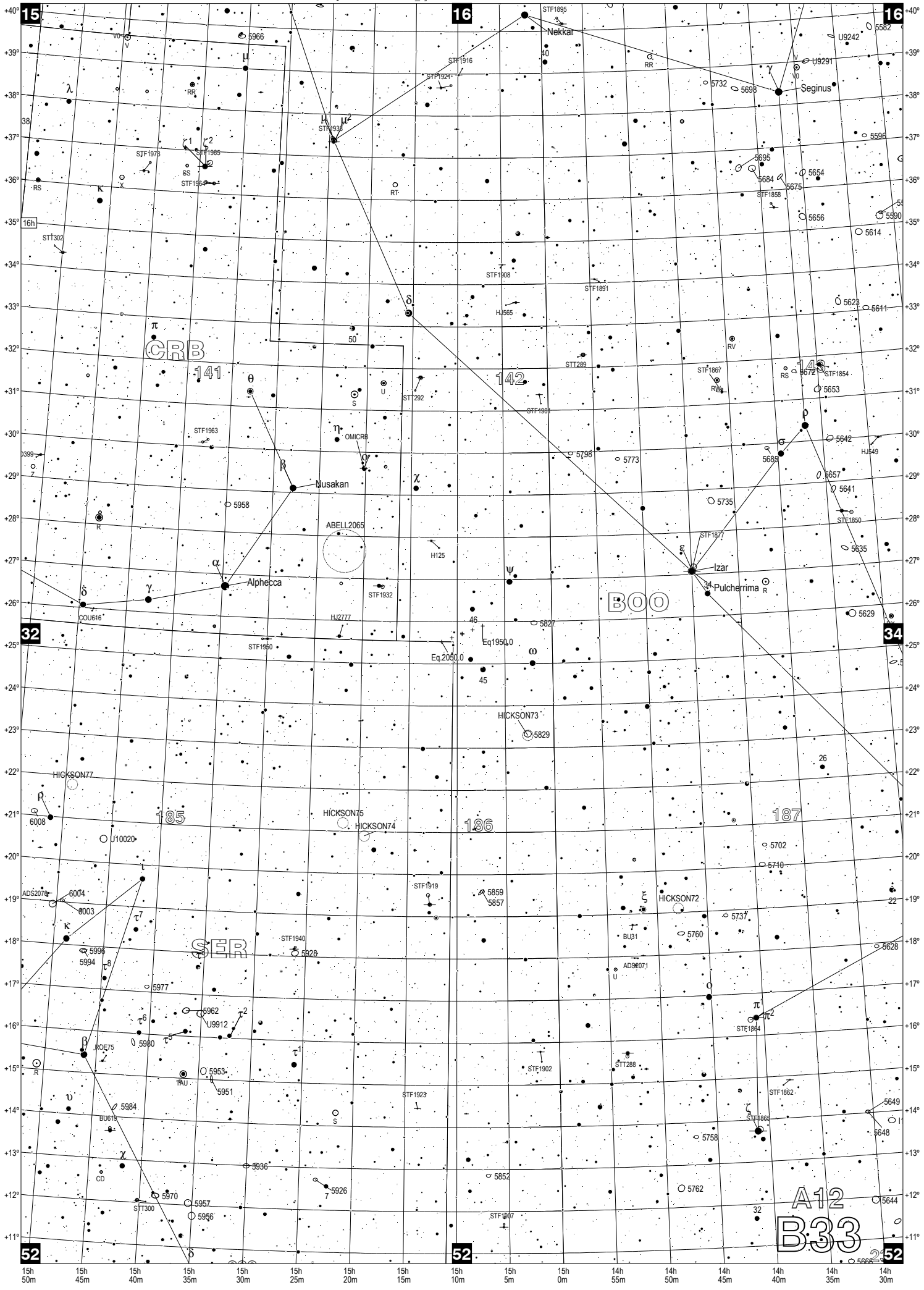




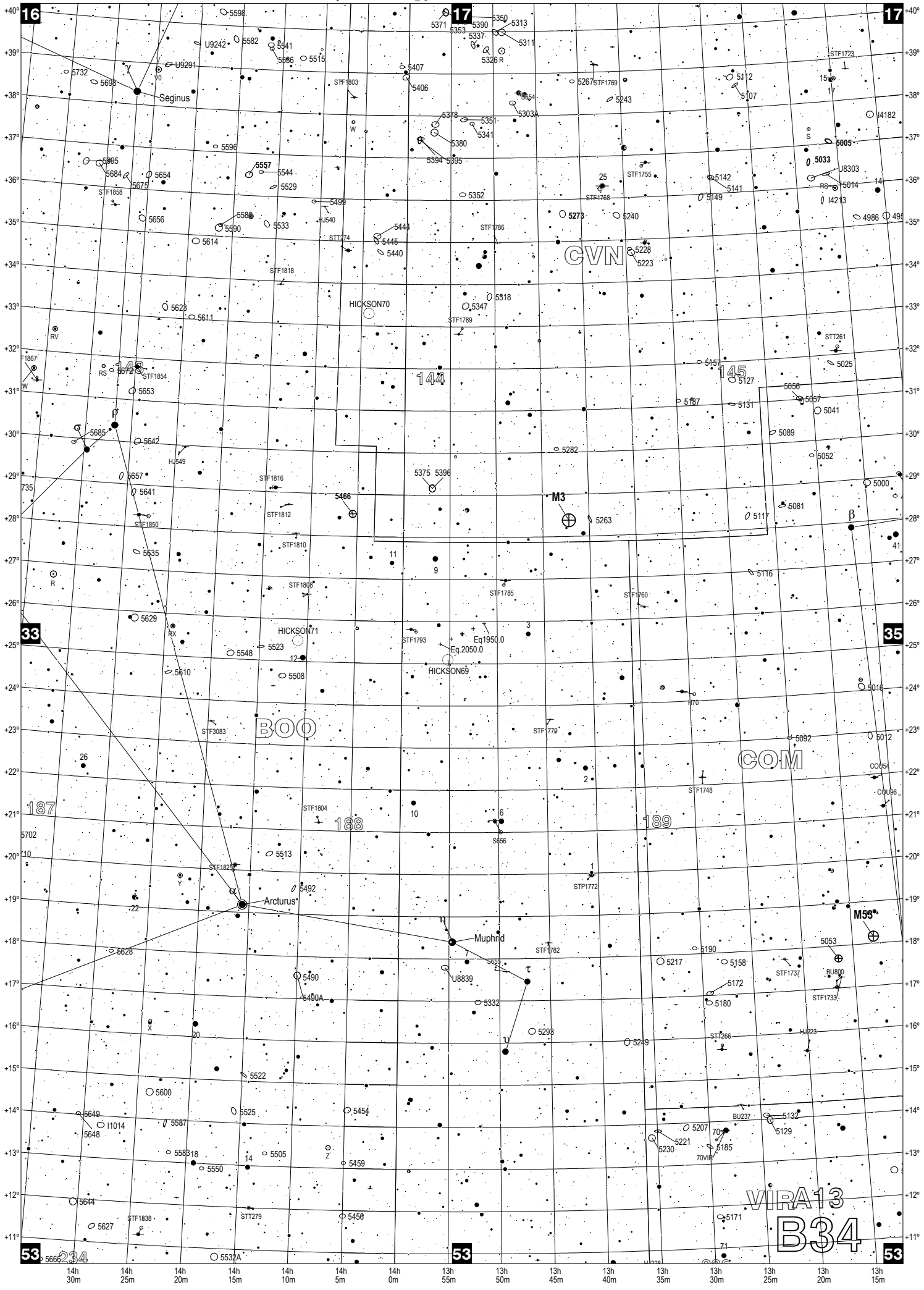








A12
B33



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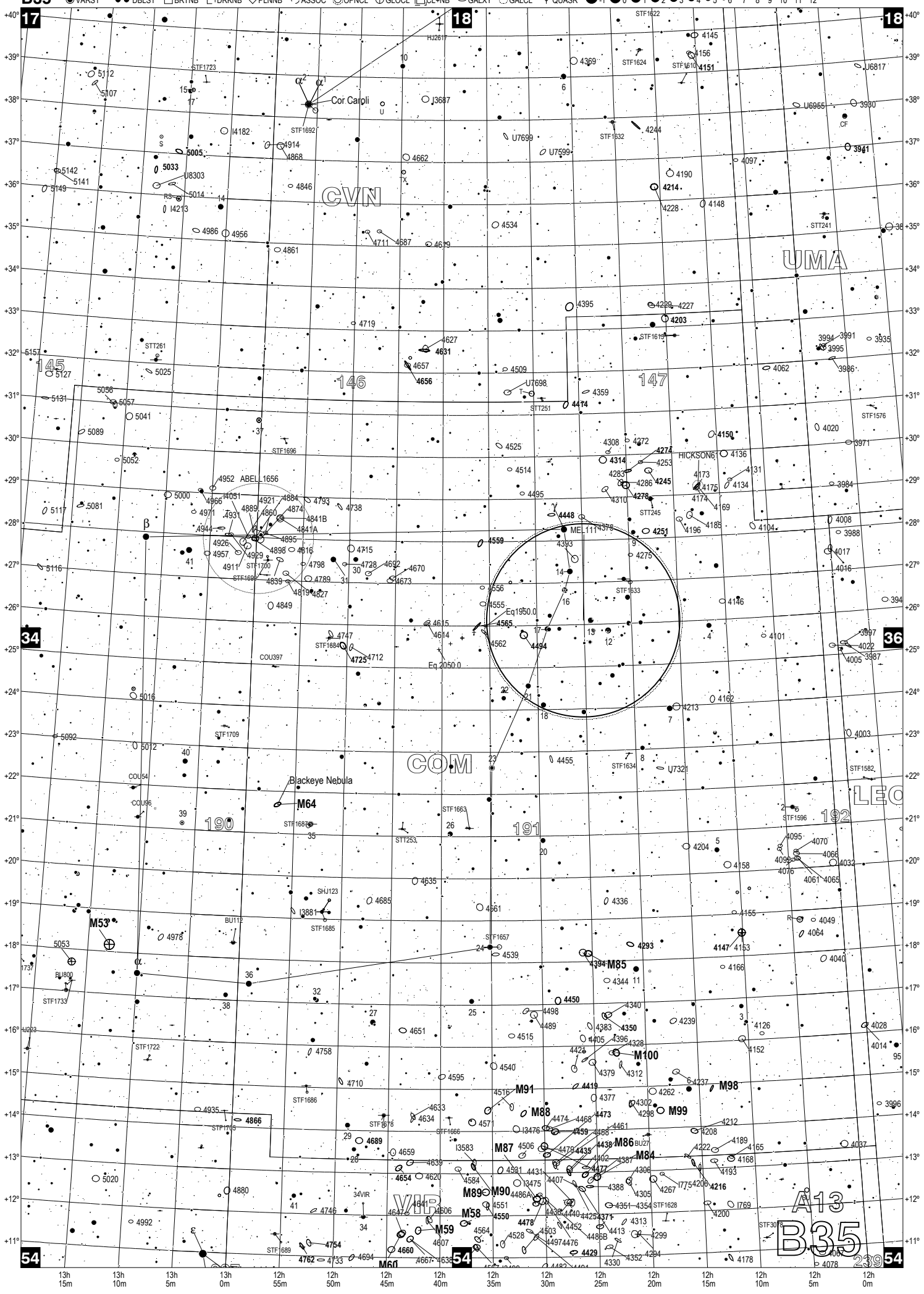
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14h 30m 14h 25m 14h 20m 14h 15m 14h 10m 14h 5m 14h 0m 13h 55m 13h 50m 13h 45m 13h 40m 13h 35m 13h 30m 13h 25m 13h 20m 13h 15m

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VIRA13
B34



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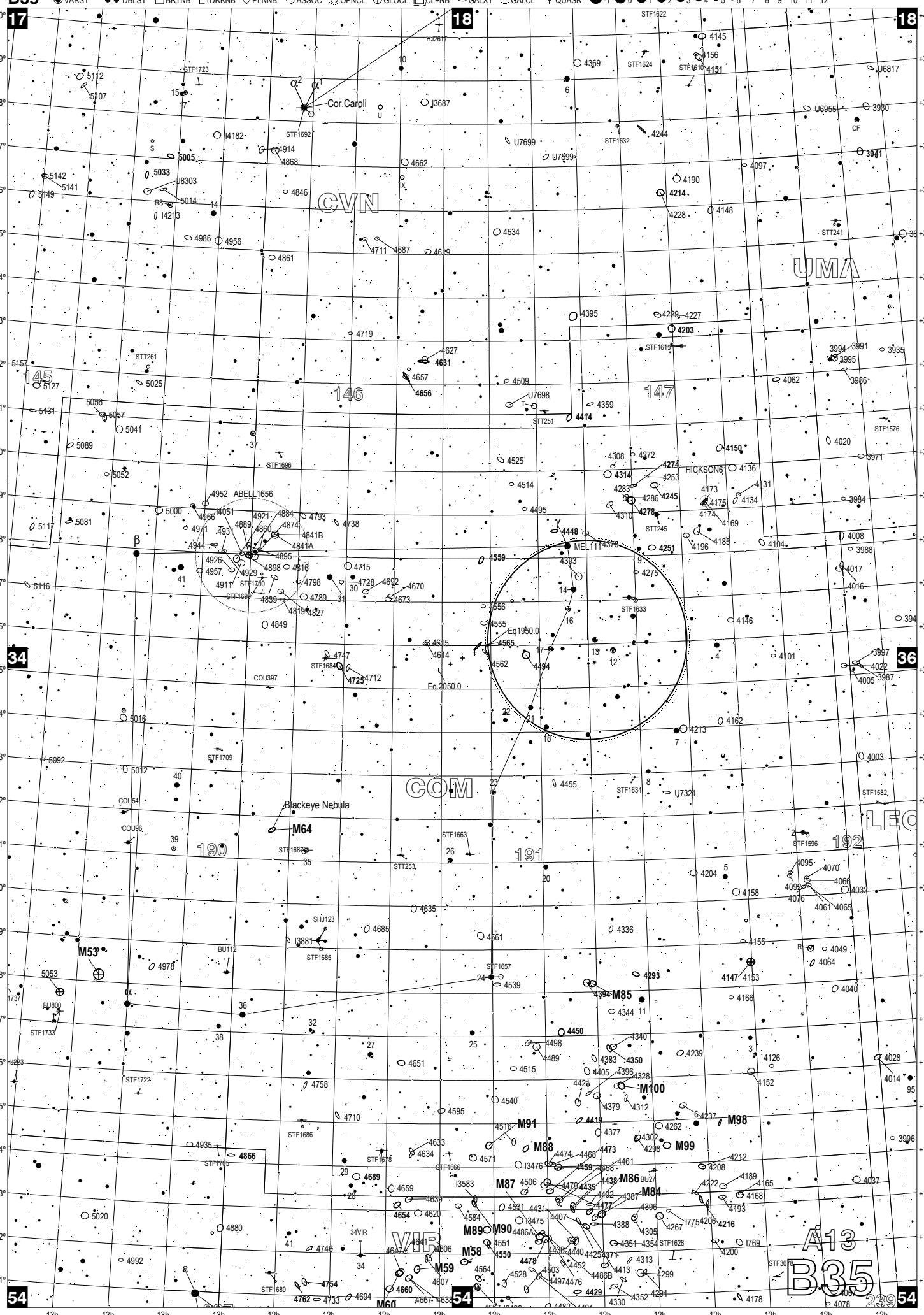
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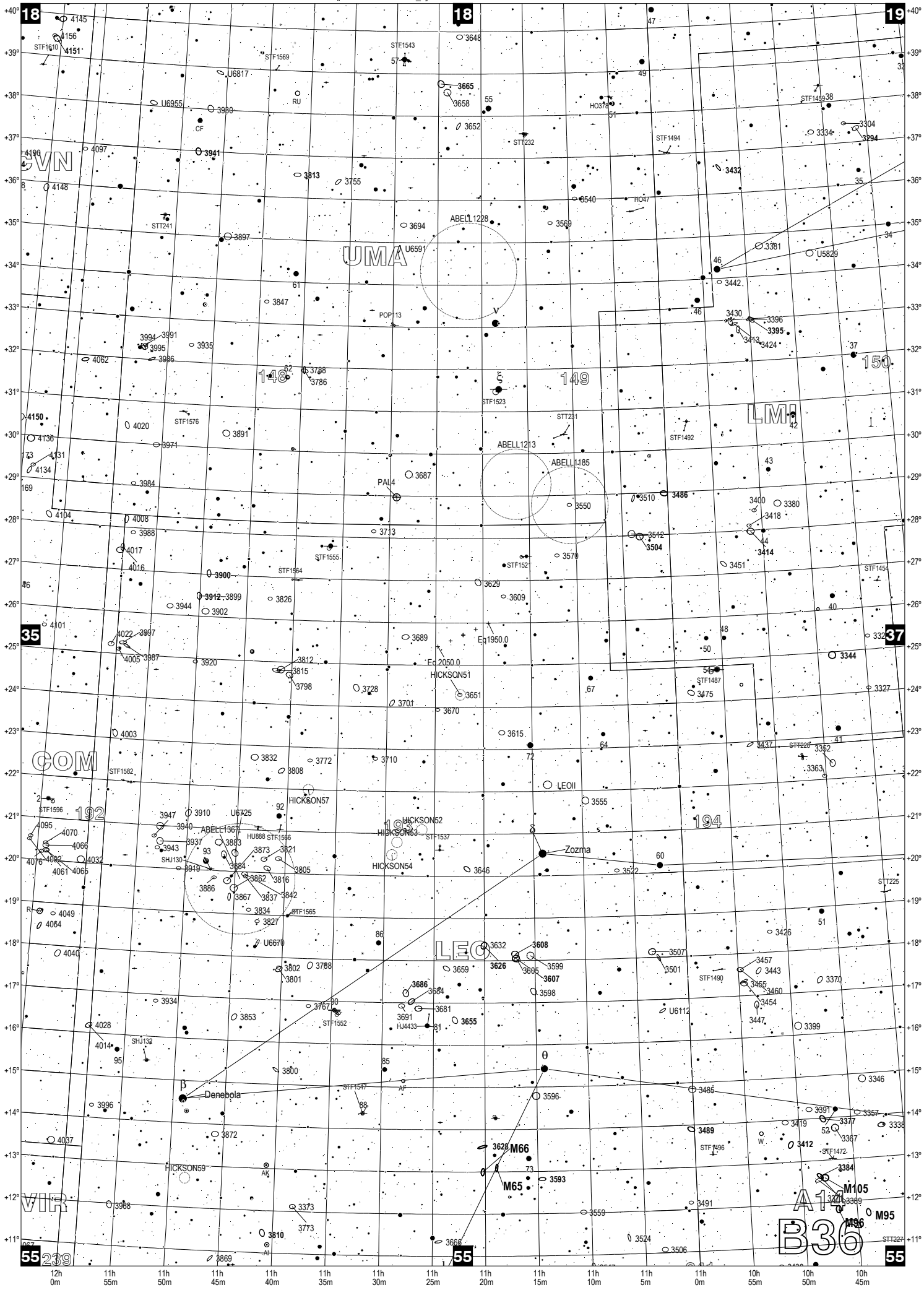
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13h 15m 13h 10m 13h 5m 13h 0m 12h 55m 12h 50m 12h 45m 12h 40m 12h 35m 12h 30m 12h 25m 12h 20m 12h 15m 12h 10m 12h 5m 12h 0m



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12m 55m 50m 45m 40m 35m 30m 25m 20m 15m 10m 5m 1h 55m 50m 45m