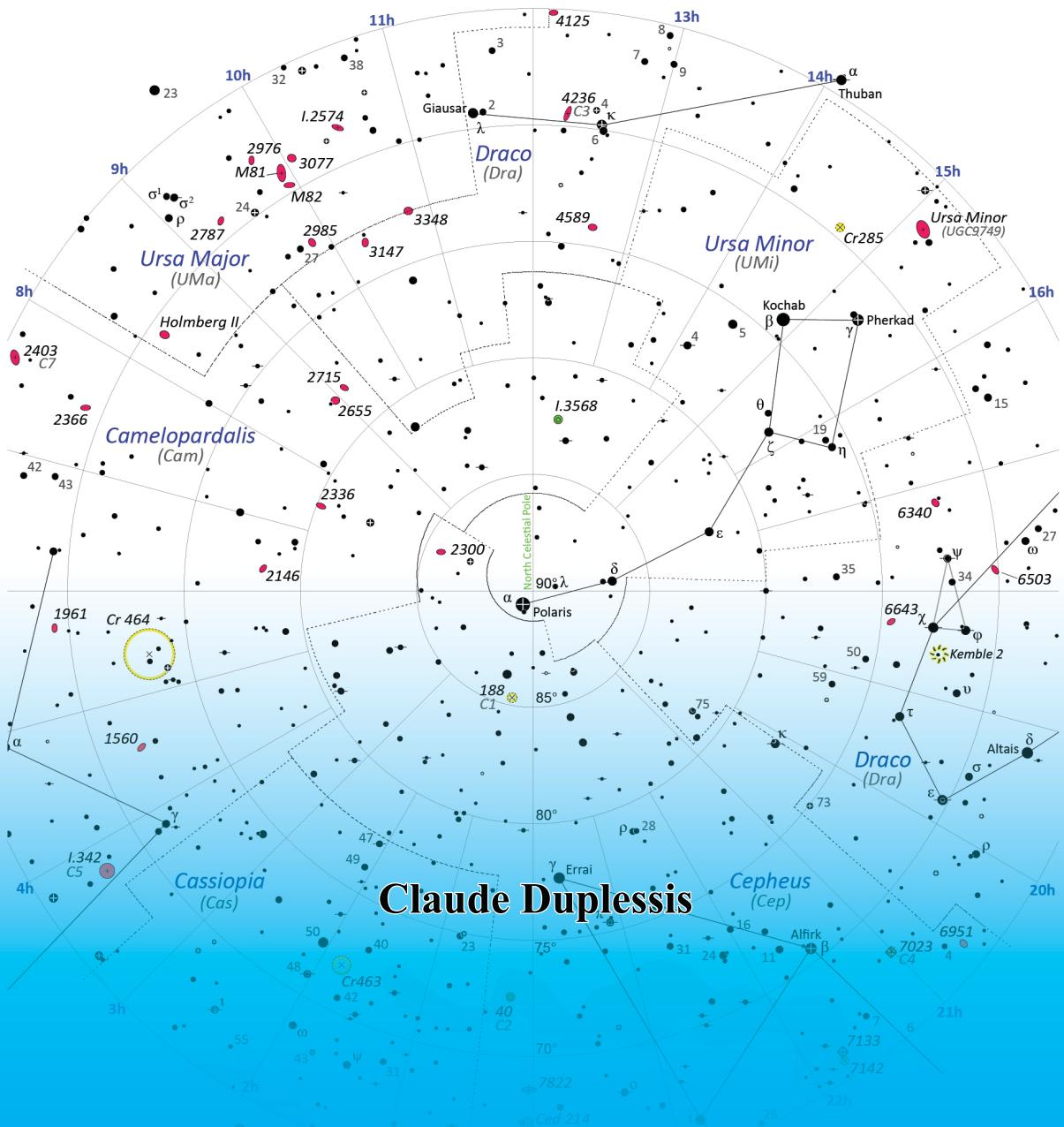
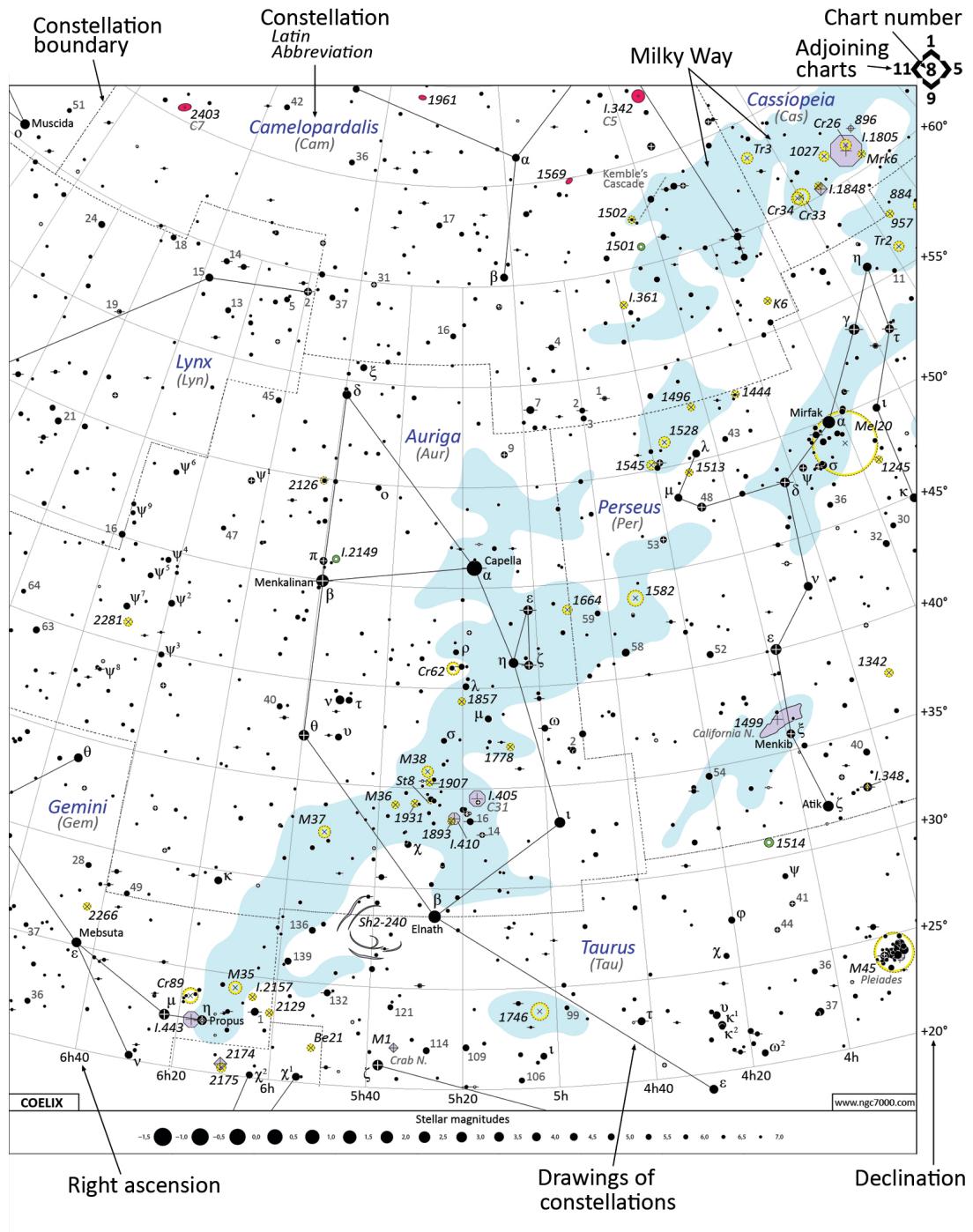


Atlas of the Sky



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This atlas was built with the help of sky maps generated by the COELIX APEX astronomy software.

This astronomy program lets you print detailed maps of the sky that can show a total of more than 15 million stars, 28,000 deep sky objects, paths of planets, comets and over 300,000 asteroids.

Designed for the amateur astronomer, COELIX also generates accurate astronomical ephemeris (satellites of Jupiter, eclipses, occultations and so on) and many catalogues with selection criteria. A search engine enables you to find any celestial body to get its ephemeris data, its related views and graphics.

COELIX can generate a lot of tables and a graphic almanac that show all the phenomena that can occur during one year, one month, or any other period selected by the user.

With its virtual planetarium functions, it contains a multitude of views, tables, graphics and animations to view and analyze the celestial phenomena from any observing site on Earth. You can choose a site in a list or configure and add your own observing station.

Also, COELIX can control several models of motorized telescopes, using the ASCOM platform. Inside COELIX, you can command the telescope to point to a celestial body found with the search engine, on a sky map or listed in one of several lists or catalogues.

*Jean Vallières, software designer
<http://www.ngc7000.com/en/coelix/index.htm>*

The author would like to thank Mr. Jean Vallières for his permission to use his COELIX APEX software which helped create this Atlas of the Sky.

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The majority of the stars that are reproduced in this Atlas are either labelled with a Greek letter or with a number. In the first case, we refer to the Bayer designation and in the second case, to the Flamsteed designation. These are the two main stellar designations of the brighter stars we find in each constellation. Some stars are also labelled with their proper name. For example, Alpha (α) Orionis is identified as Betelgeuse.

For deep-sky objects, different catalogues are used throughout this Atlas. An italic number refers to the NGC catalogue (NGC 7635 becomes **7635**). If a reference is made to any other deep-sky catalogue, the italic number will be preceded by a set of letters. For example, **Ced214**, a nebula situated in Cepheus, refers to the Cederblad catalogue. The letter **M** refers to the Messier catalogue (**M42**, **M1**, etc.). You will find the complete list of catalogues of deep-sky objects used in this Atlas, with their abbreviations, when you turn to the next page.

For certain objects, you may notice that two labels can be found. The second label should be in gray and start with the letter **C**. It refers to the Caldwell catalogue which contains a list of aesthetically pleasing deep-sky objects for amateur astronomers.

Some objects are also identified by their proper name. For example, NGC 7635, the Bubble Nebula is labelled **Bubble N.** (See Star Chart 2). You should note that the letters found after the names refer to different types of objects (**N.** for Nebulas, **G.** for Galaxies and **C.** for Star Clusters.)

Finally, constellations are labelled with their Latin name and abbreviation.

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List of catalogues used in this Atlas

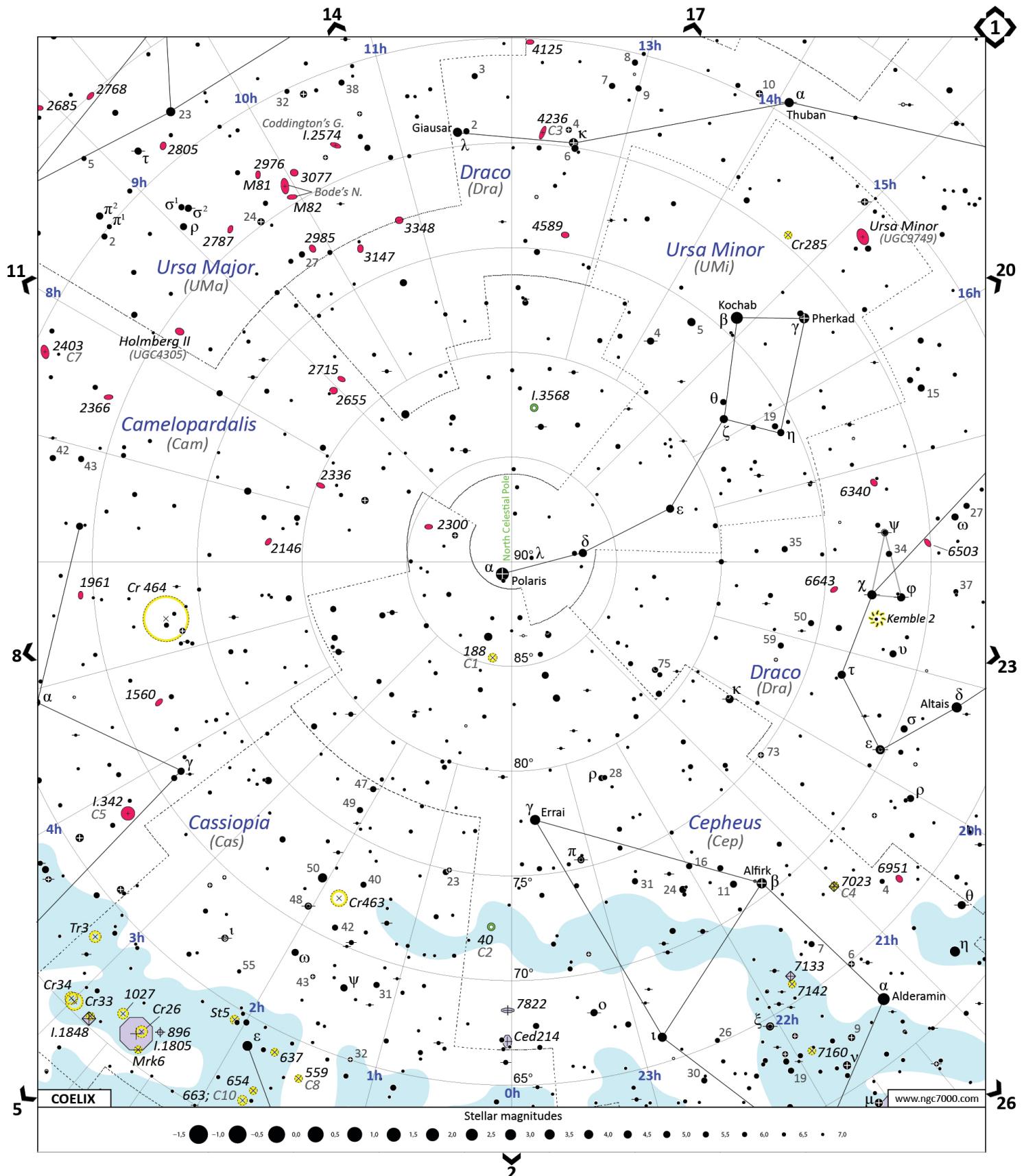
B = Barnard
 Be = Berk
 Blanco
 C = Caldwell
 Ced = Cederblad
 Cr = Collinder
 Djorg = S. Djorgovski
 E = A. Lauberts
 ESO = European Southern Observatory
 GUM = C.S. Gum
 H= Harvard
 Haf = Hafner
 HP = Haute Provence
 IC noté I. = Index Catalog
 K = King
 M = Messier
 Mel = Melotte
 Mrk = Markarian
 NGC = New General Catalog
 Pal = Palomar
 Pi = Pismis
 PK = Perek-Kohoutek
 Ru = Ruprecht
 Sh2 = Sharpless
 St = Stock
 Tr = Trümpler
 UGC = Uppsala General Catalogue of Galaxies

Greek Letters

α = Alpha	ν = Nu
β = Beta	ξ = Xi
γ = Gamma	\omicron = Omicron
δ = Delta	π = Pi
ϵ = Epsilon	ρ = Rho
ζ = Zeta	σ = Sigma
η = Eta	τ = Tau
θ = Theta	υ = Upsilon
ι = Iota	φ = Phi
κ = Kappa	χ = Chi
λ = Lambda	ψ = Psi
μ = Mu	ω = Omega

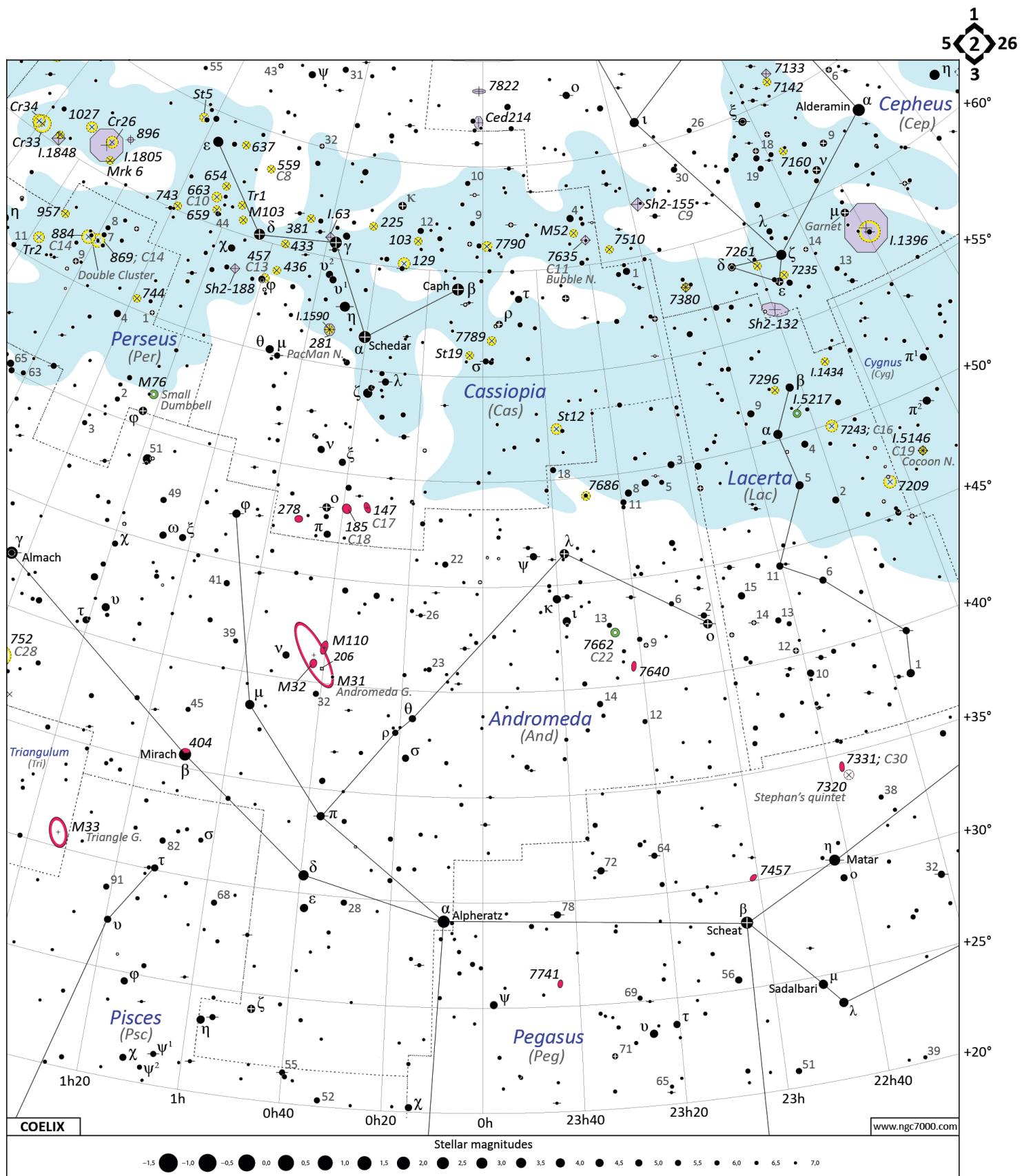
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Open star clusters	Globular clusters	Planetary nebulae	Diffuse nebulae	Dark nebulae	Galaxies	Double or multiple stars	
 	 	 	 	 	 	   	
						Galaxy clusters	Variable stars
						(X) Abell 179	    

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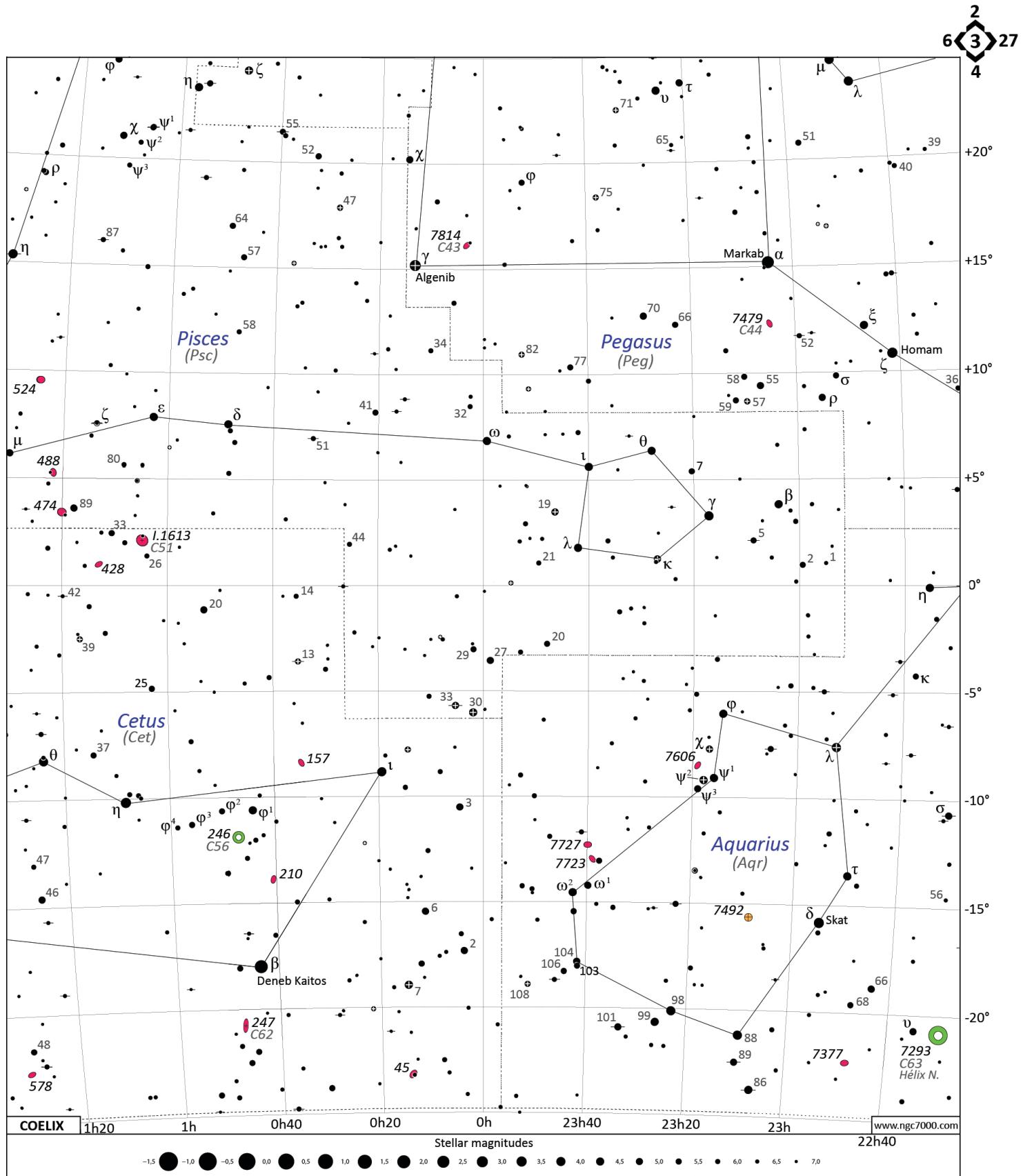
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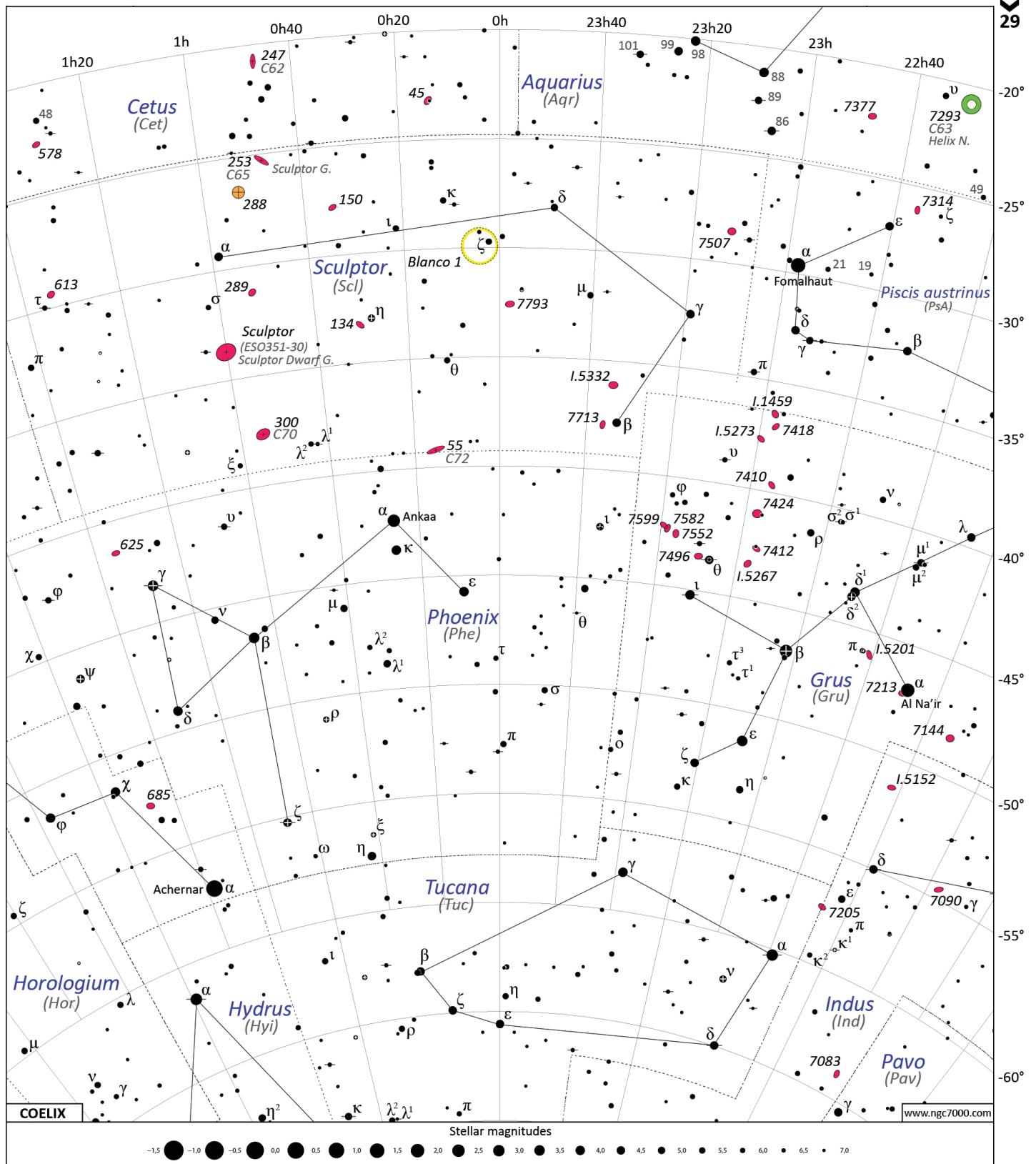
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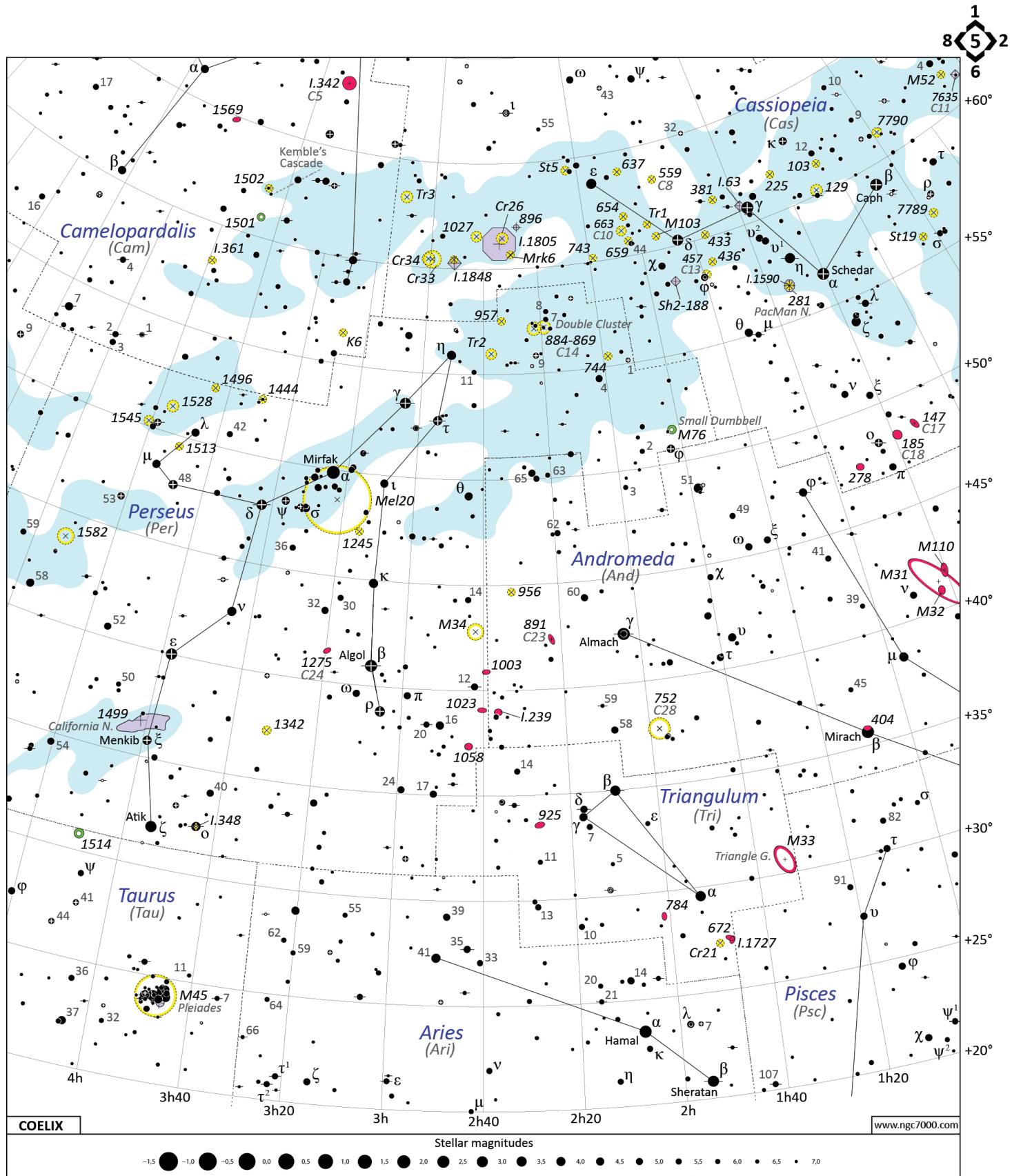
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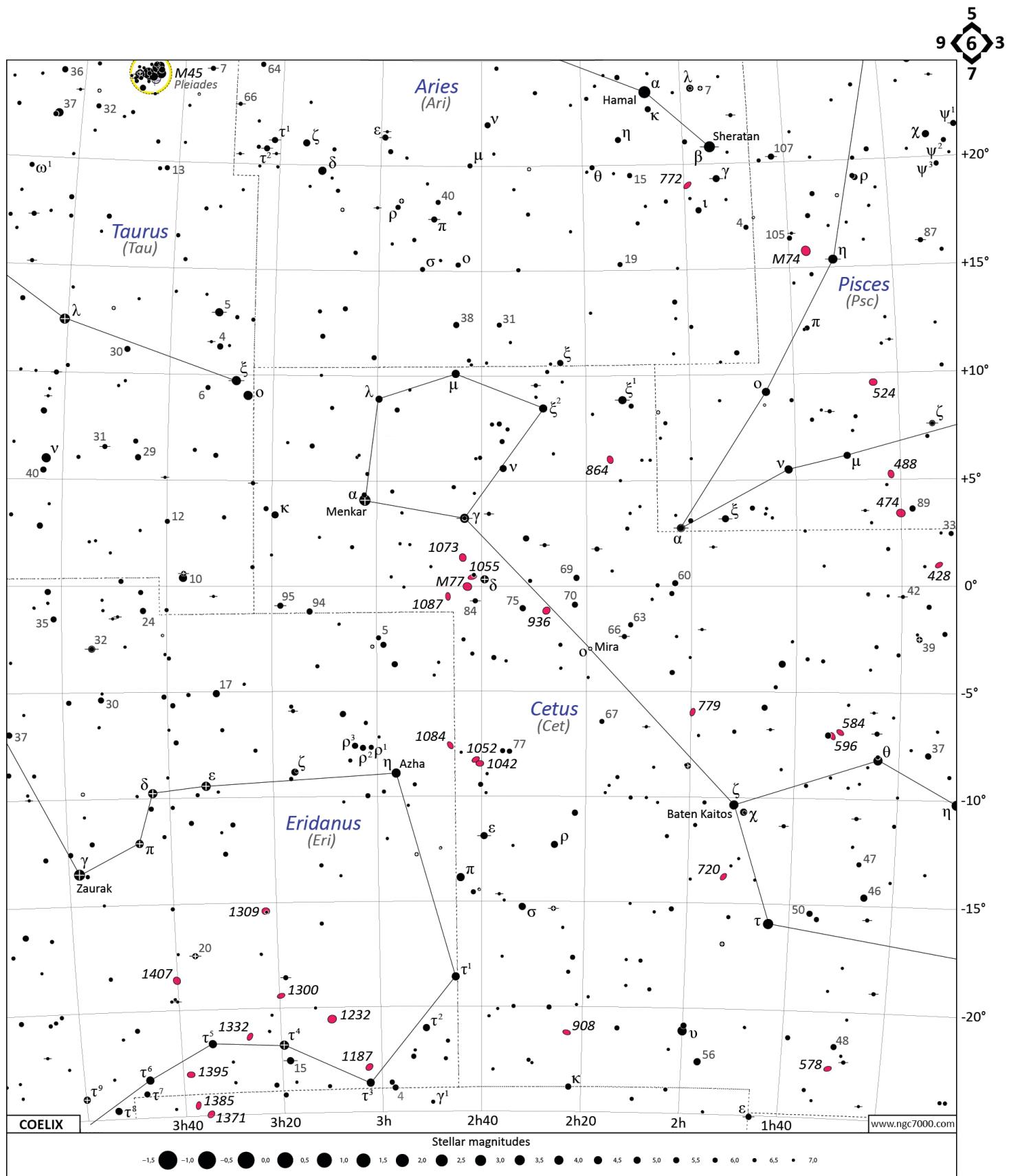
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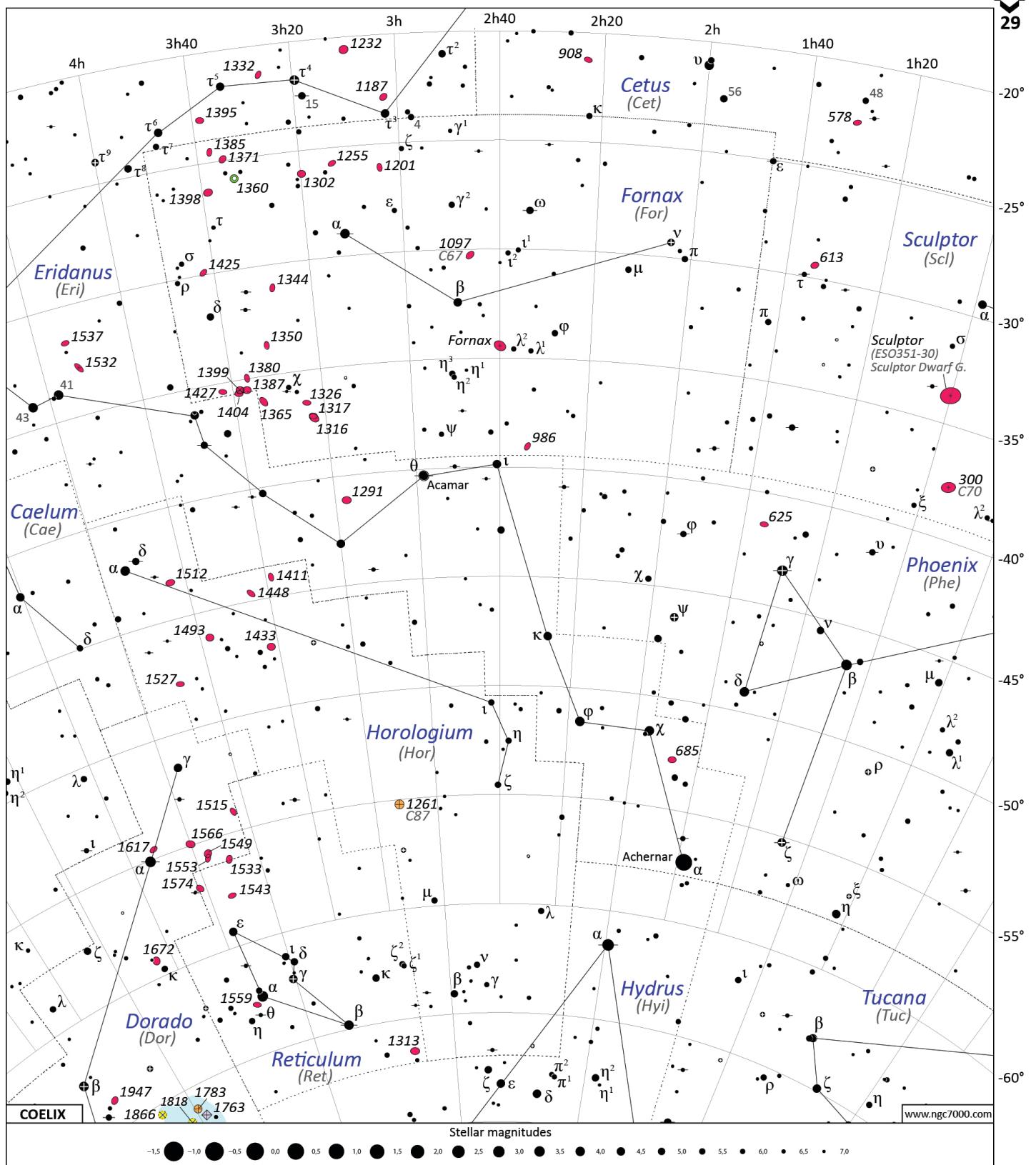
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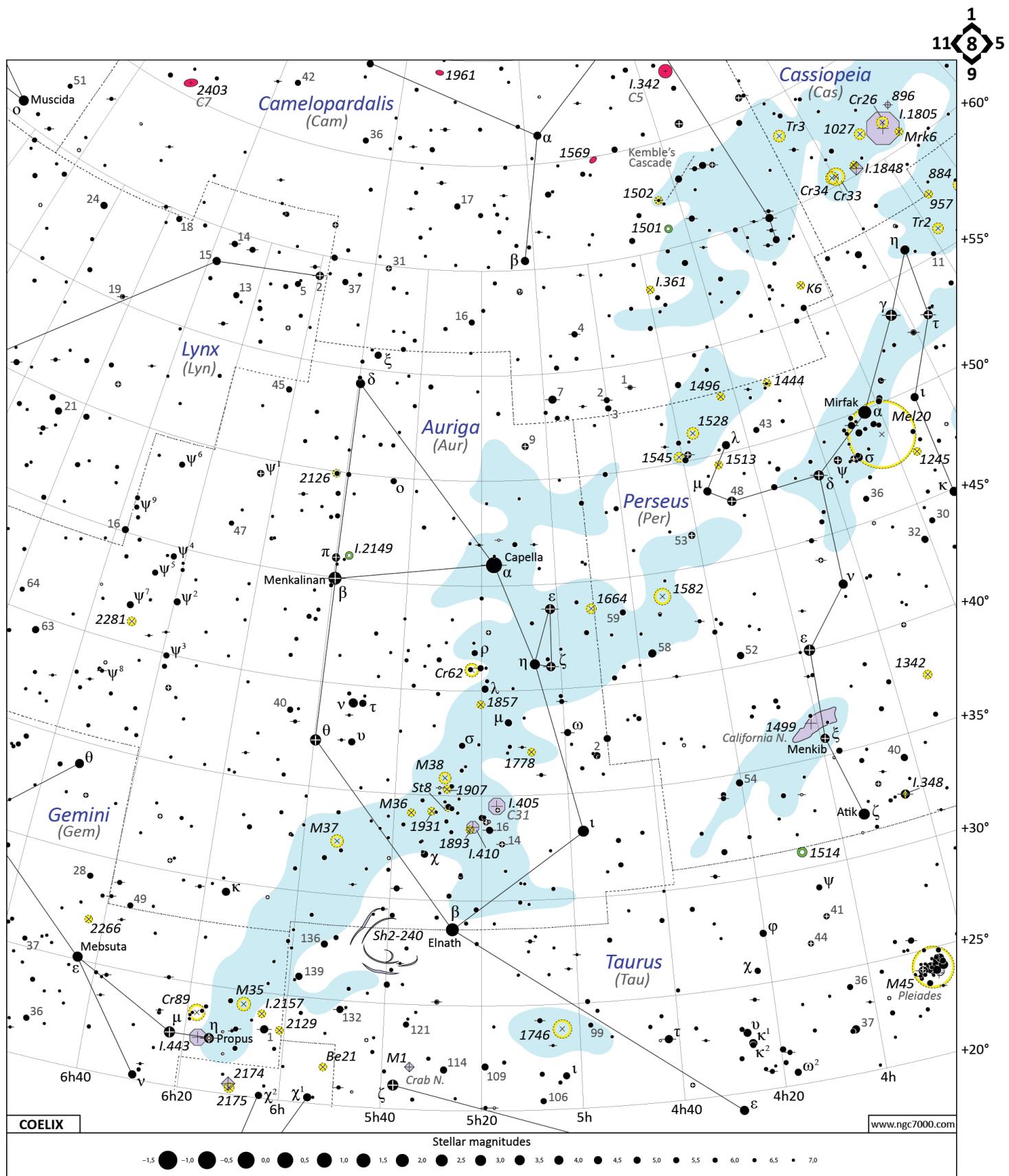
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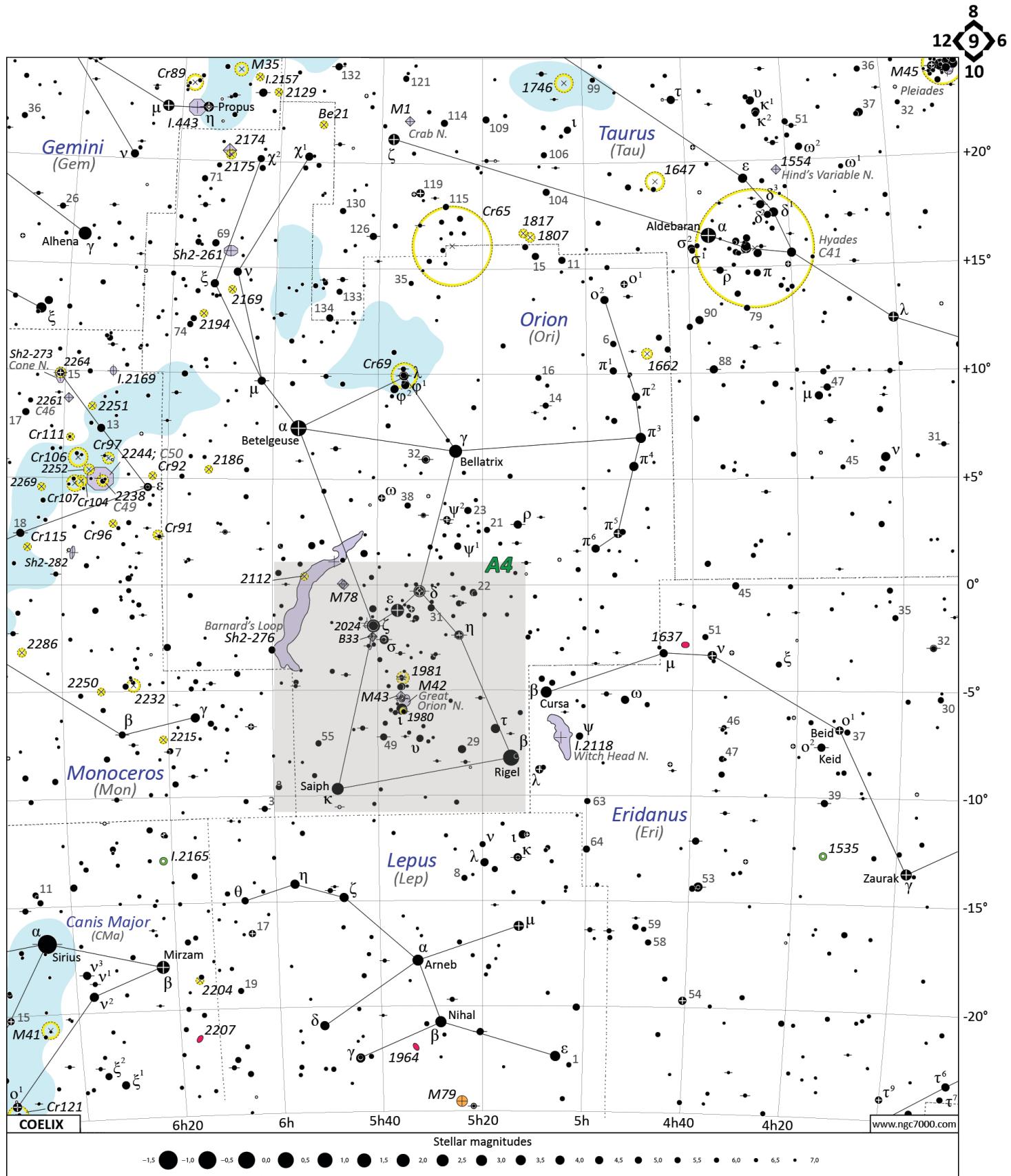
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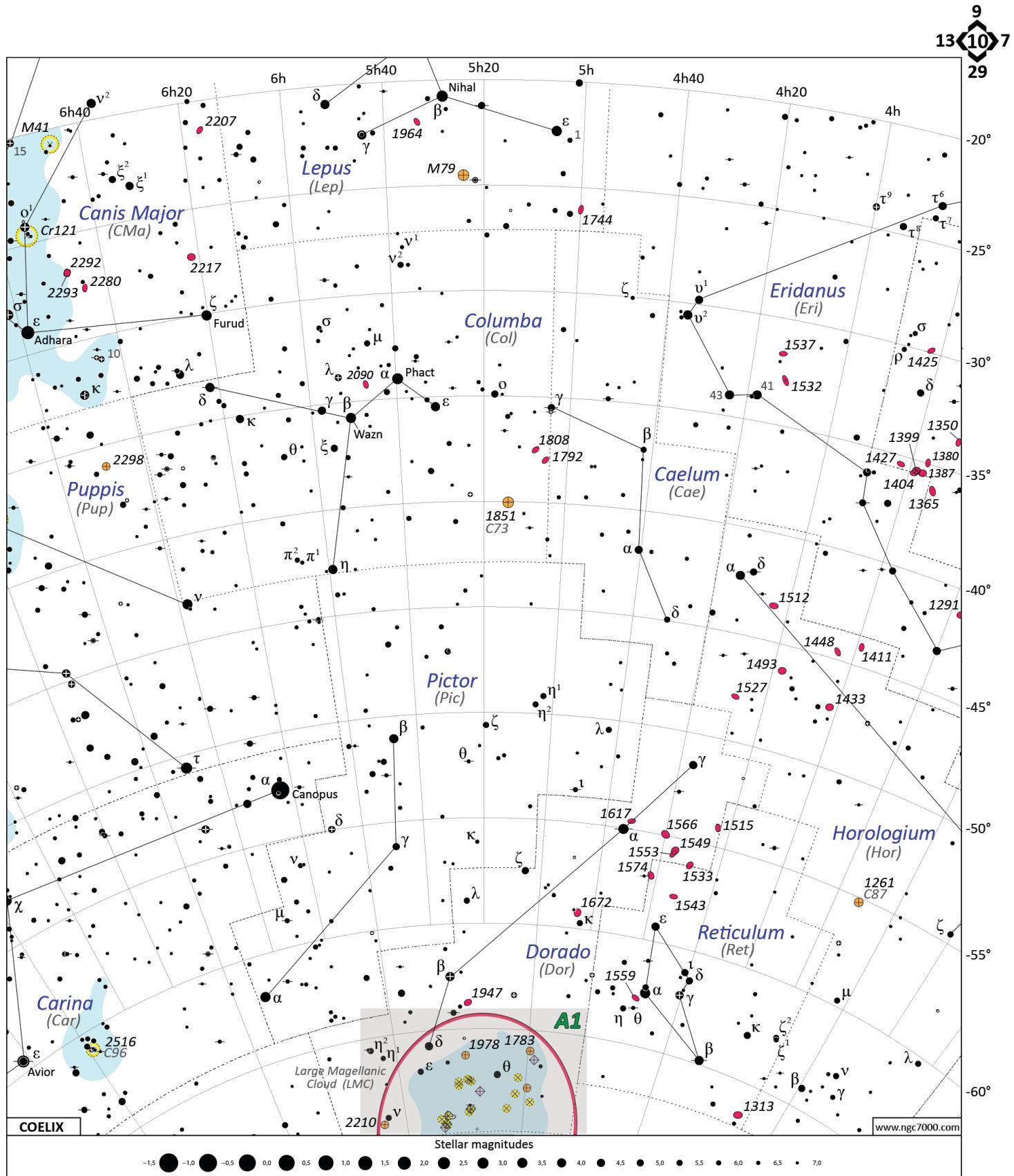
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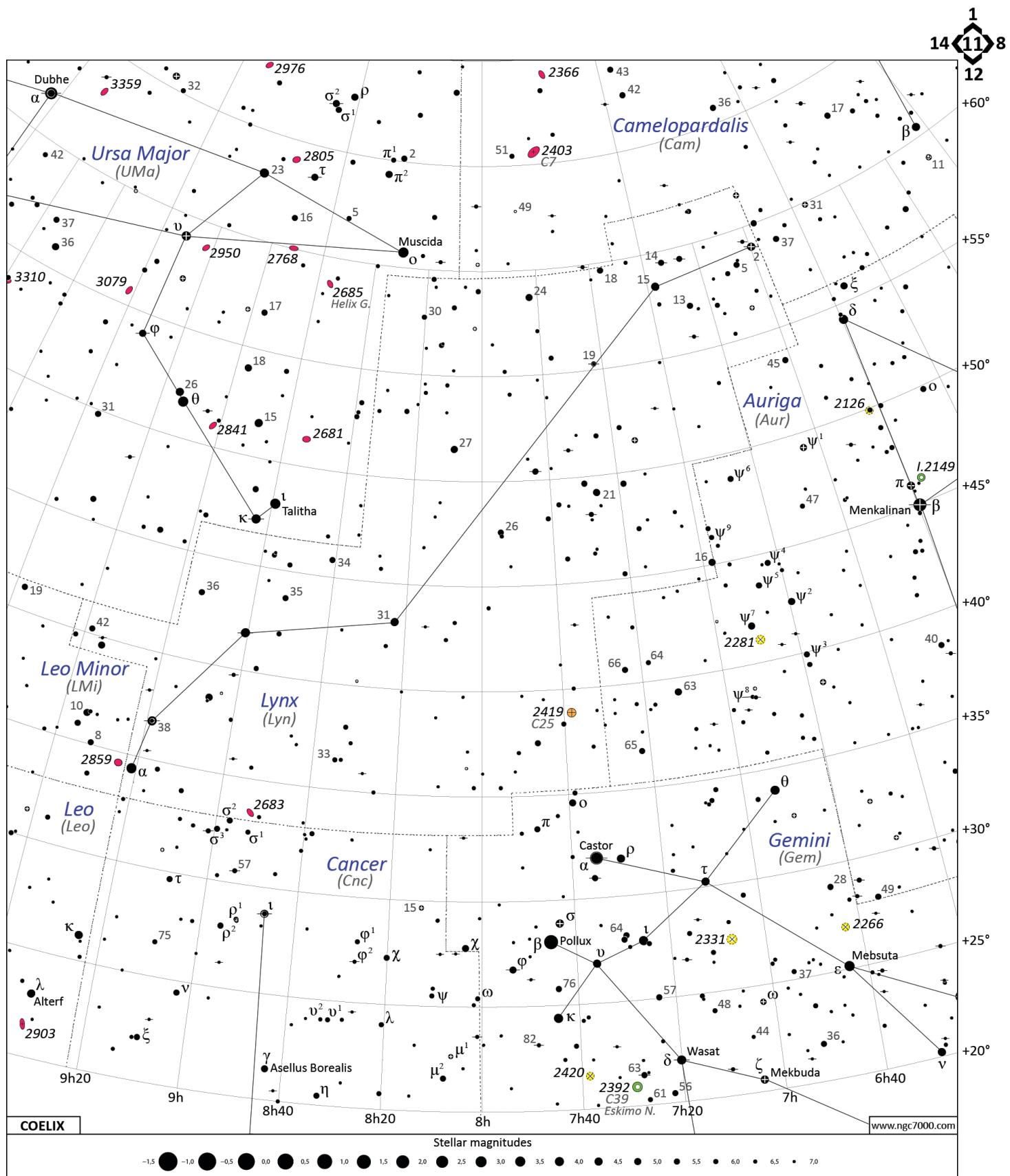
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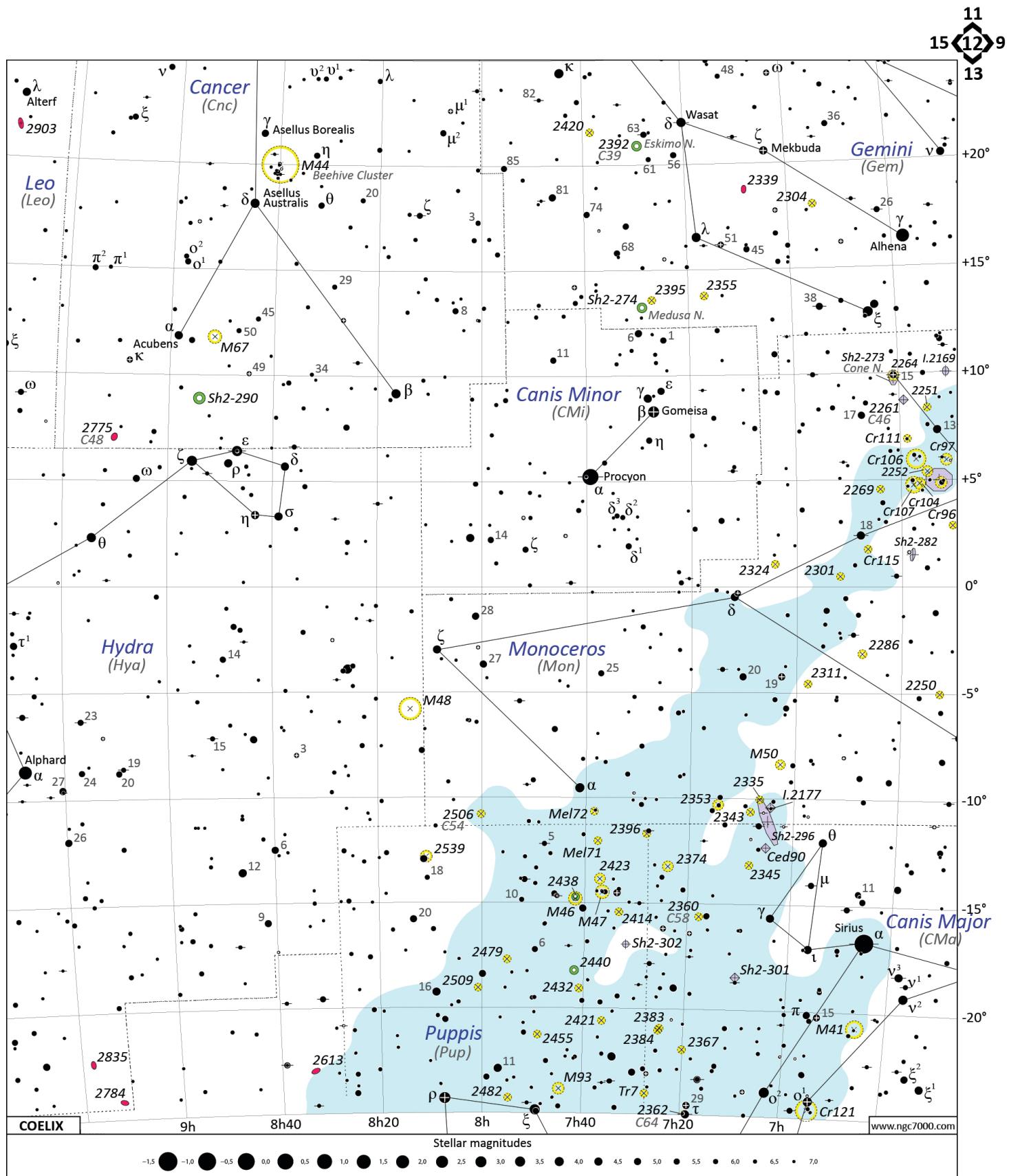


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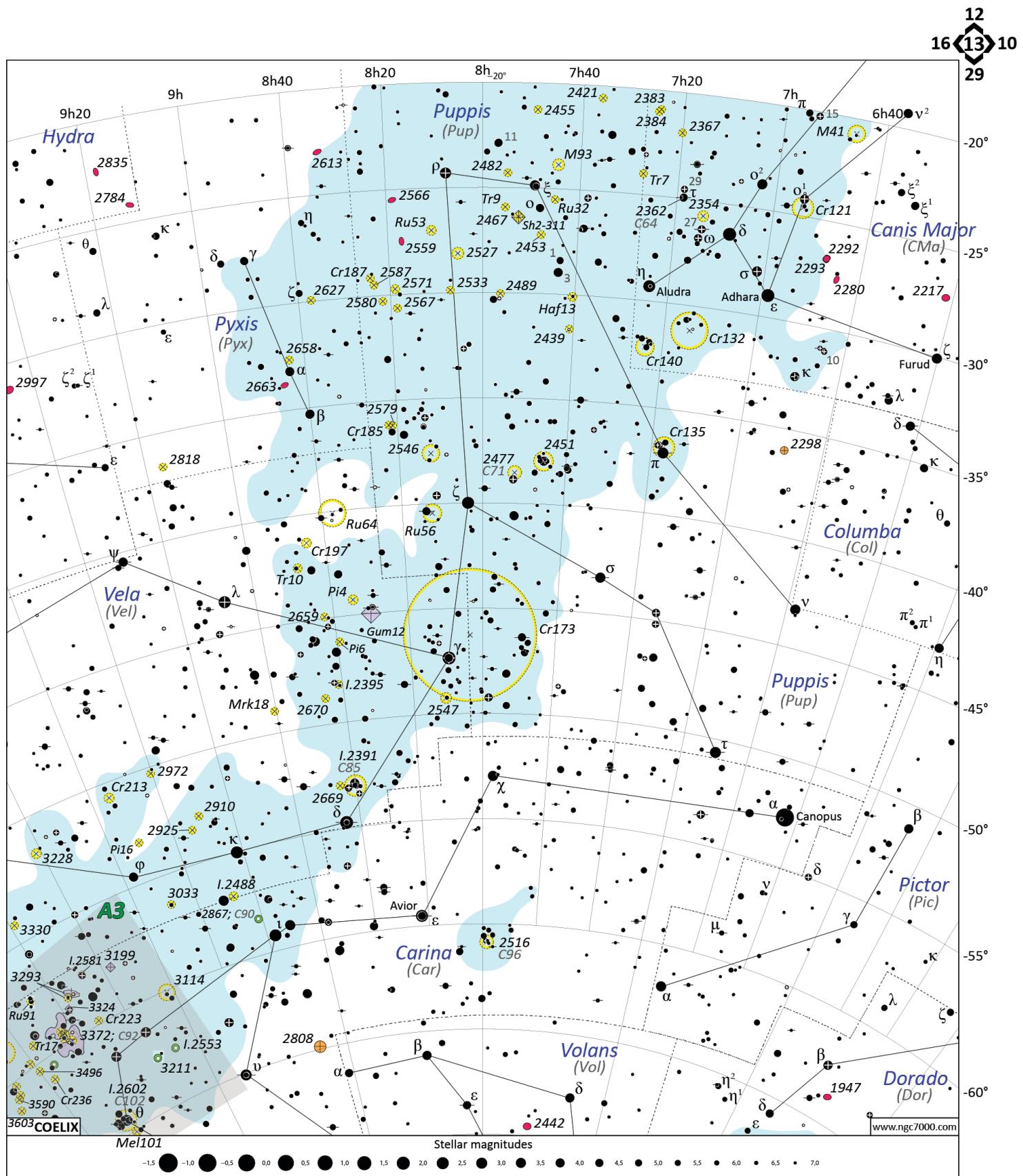


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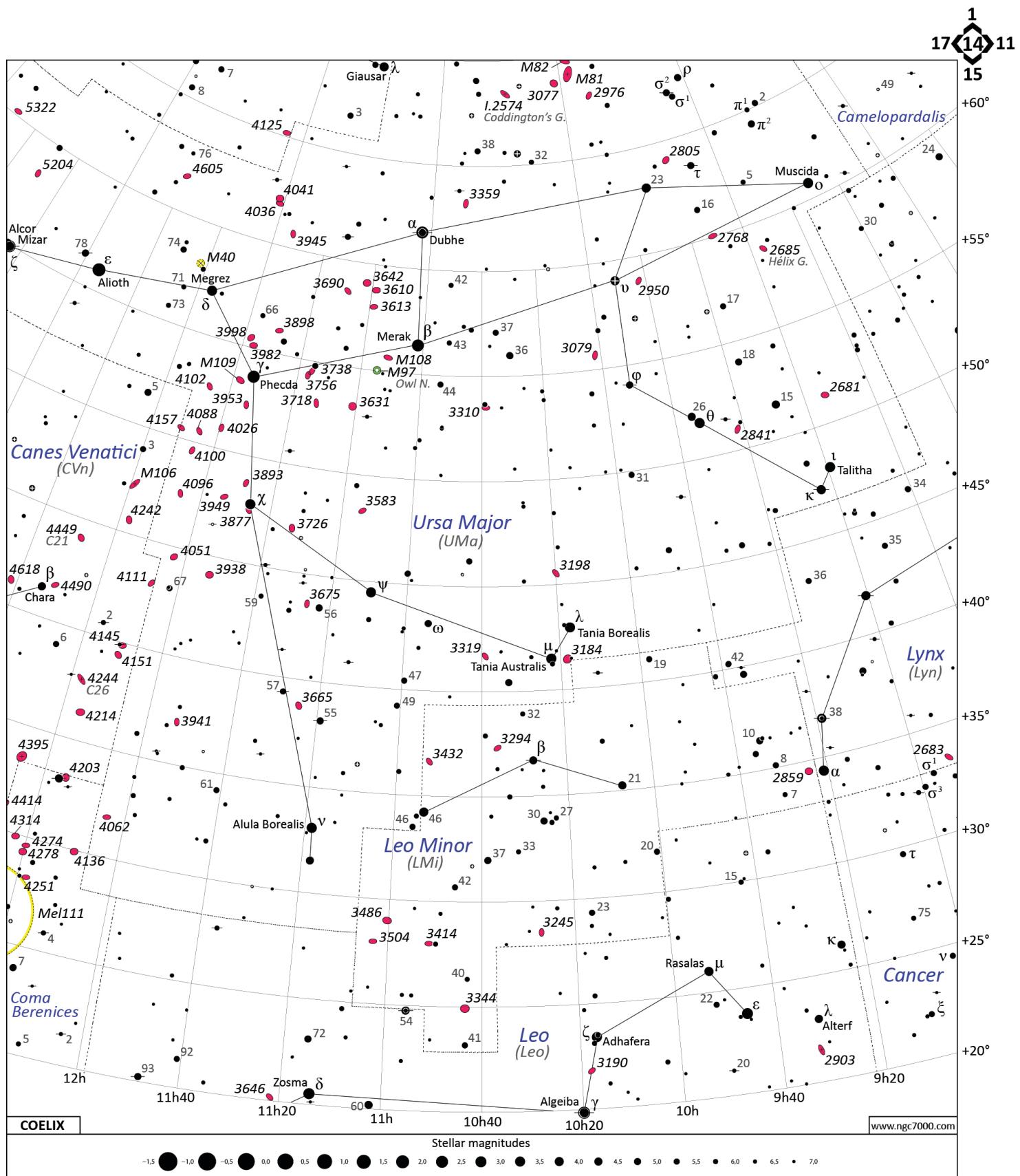
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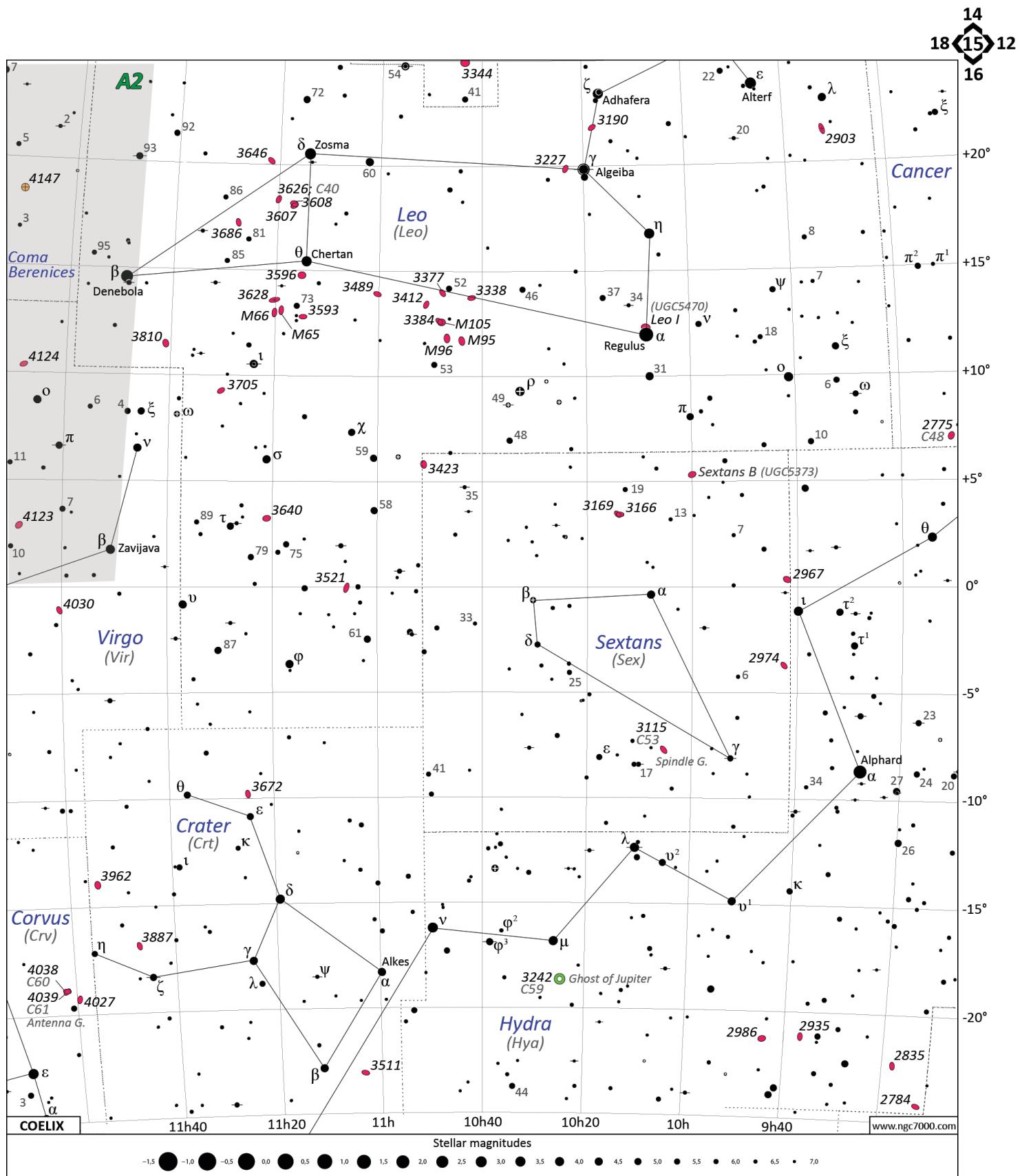
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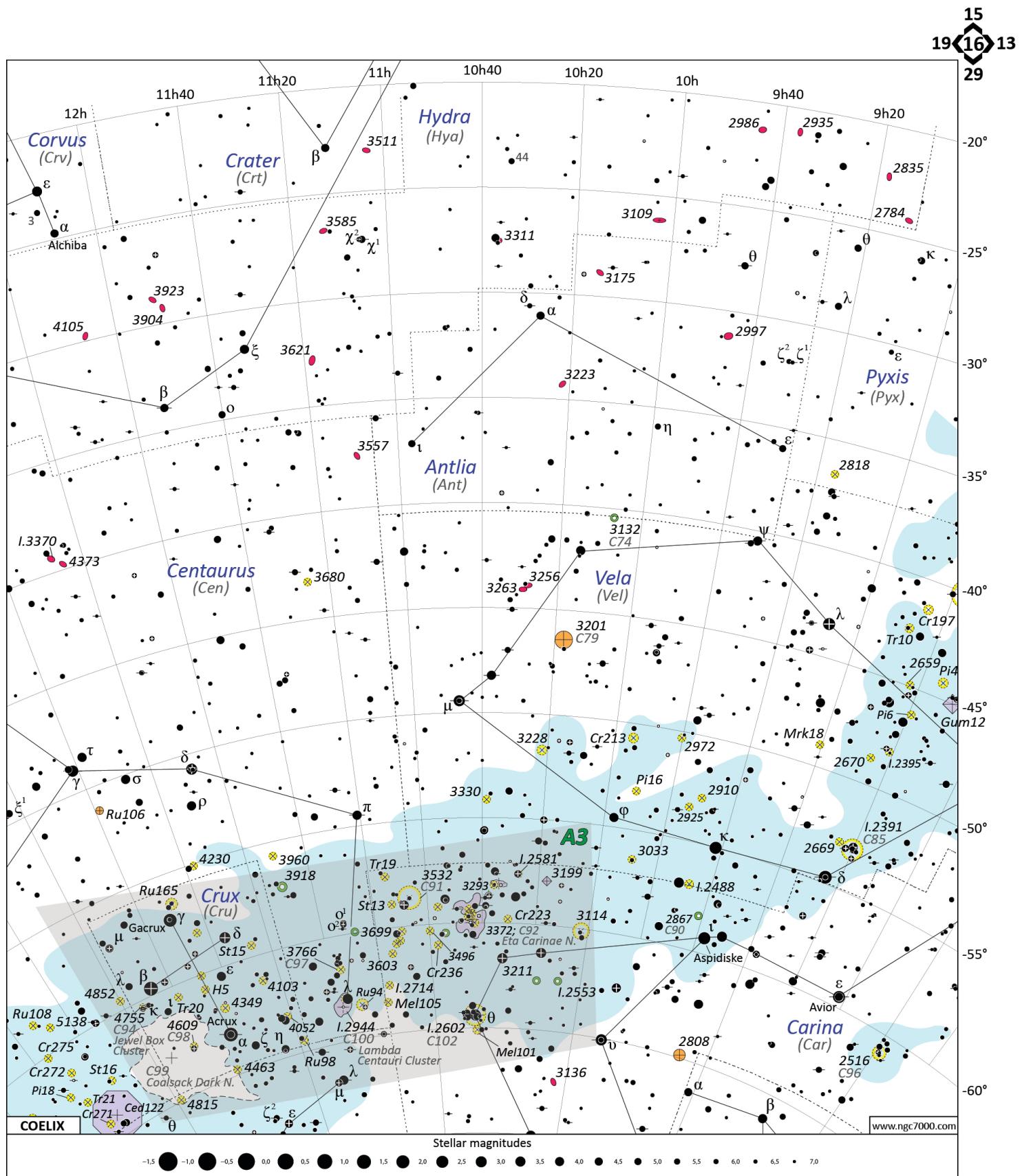
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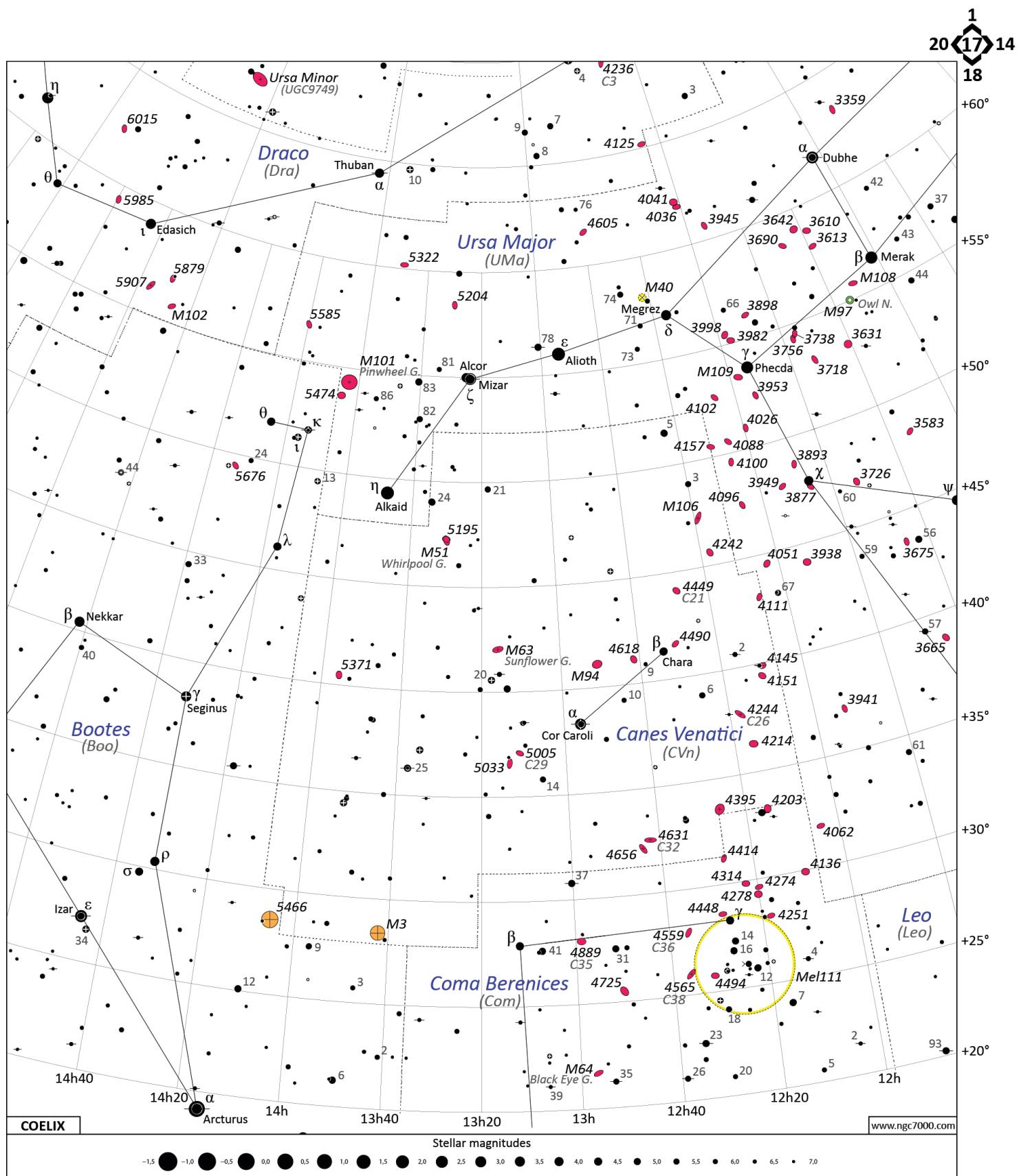
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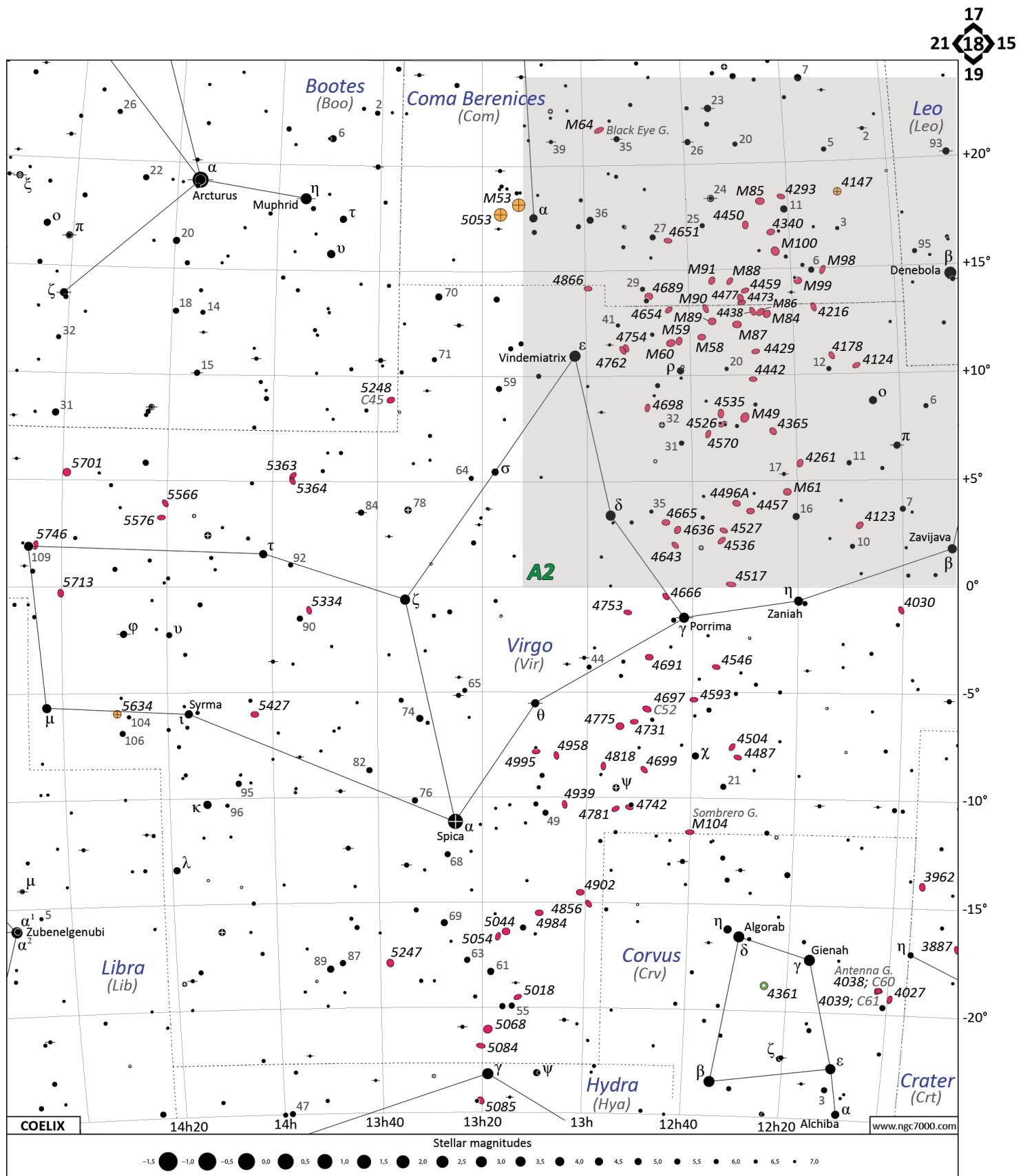
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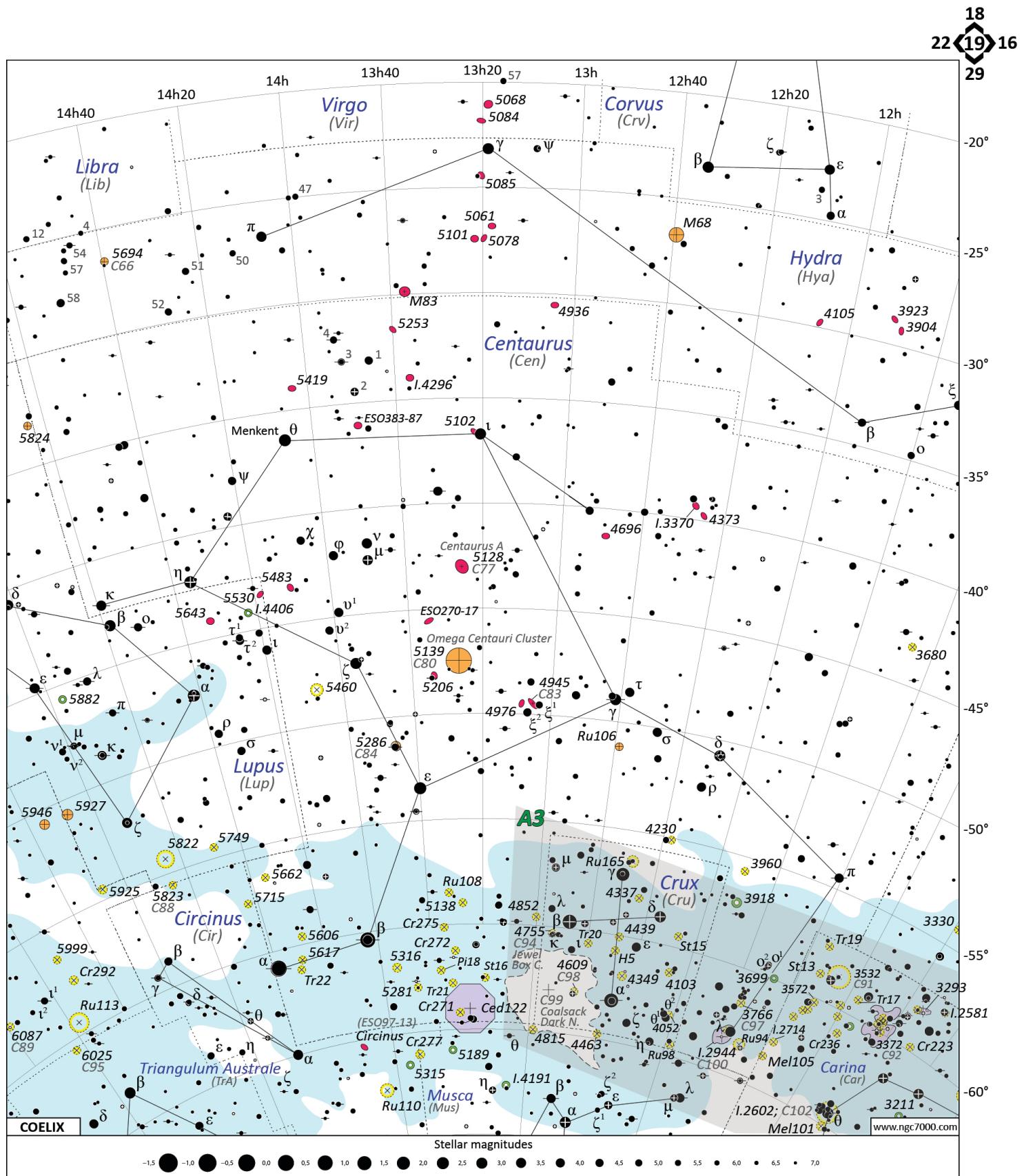
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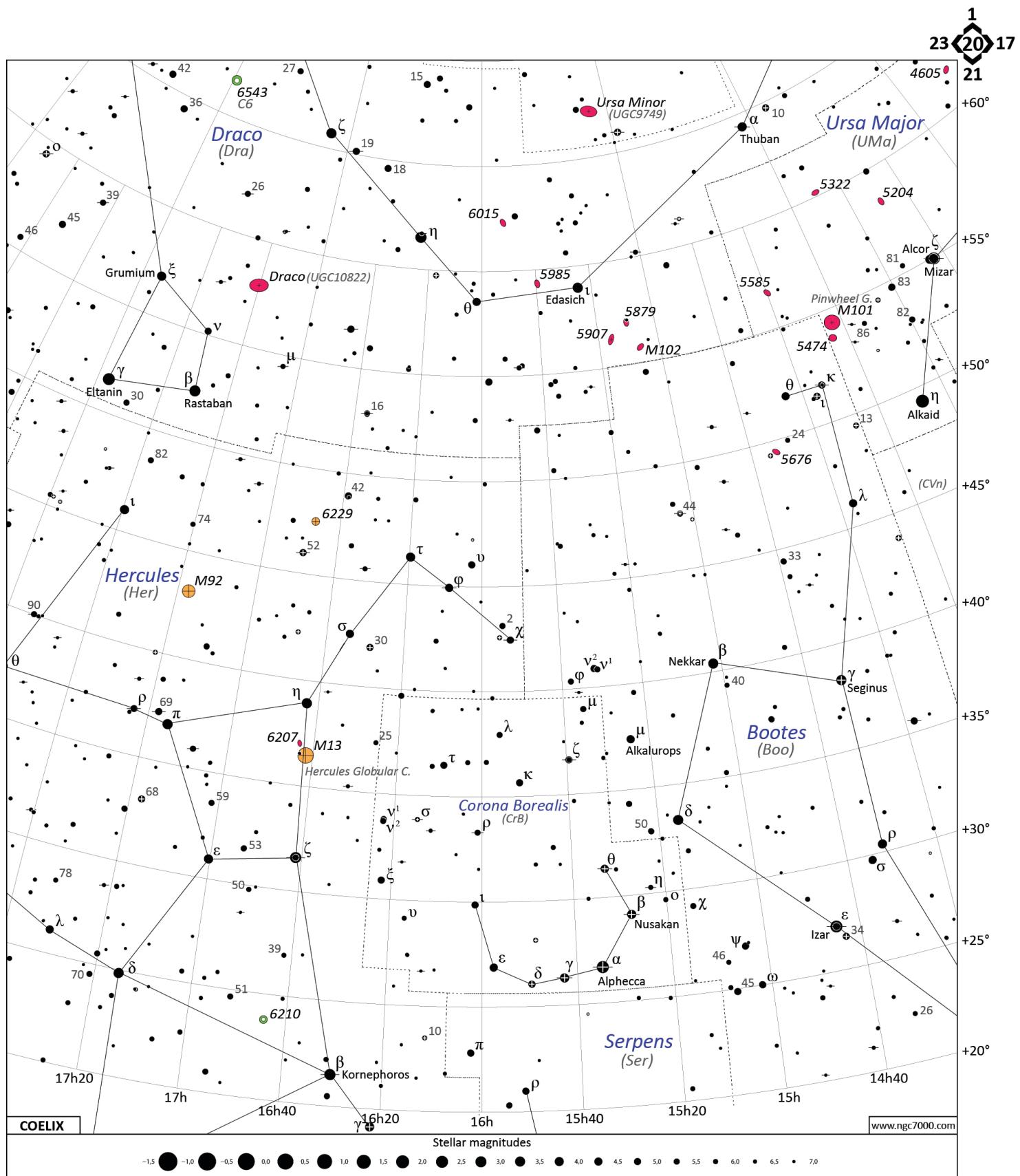
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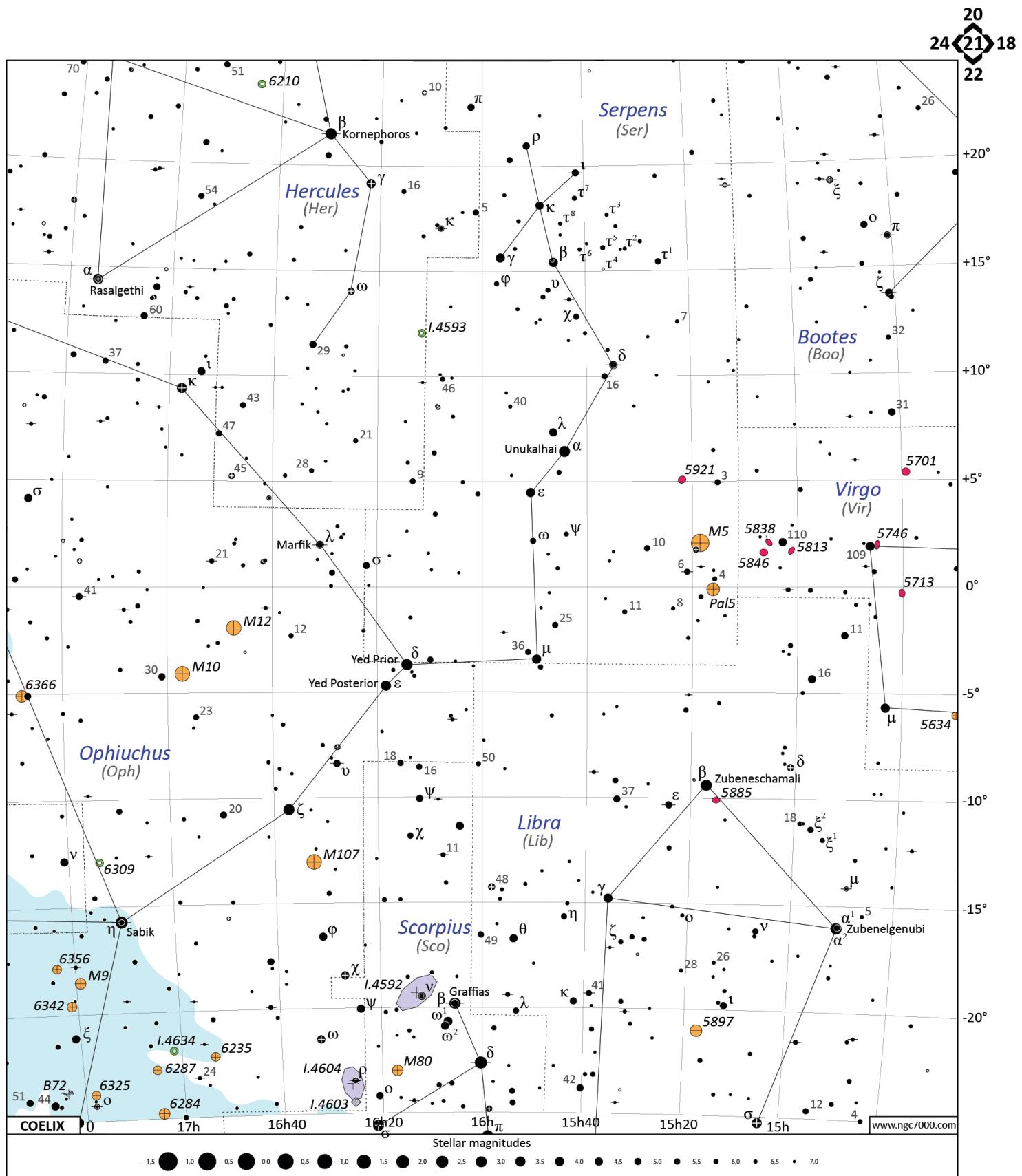
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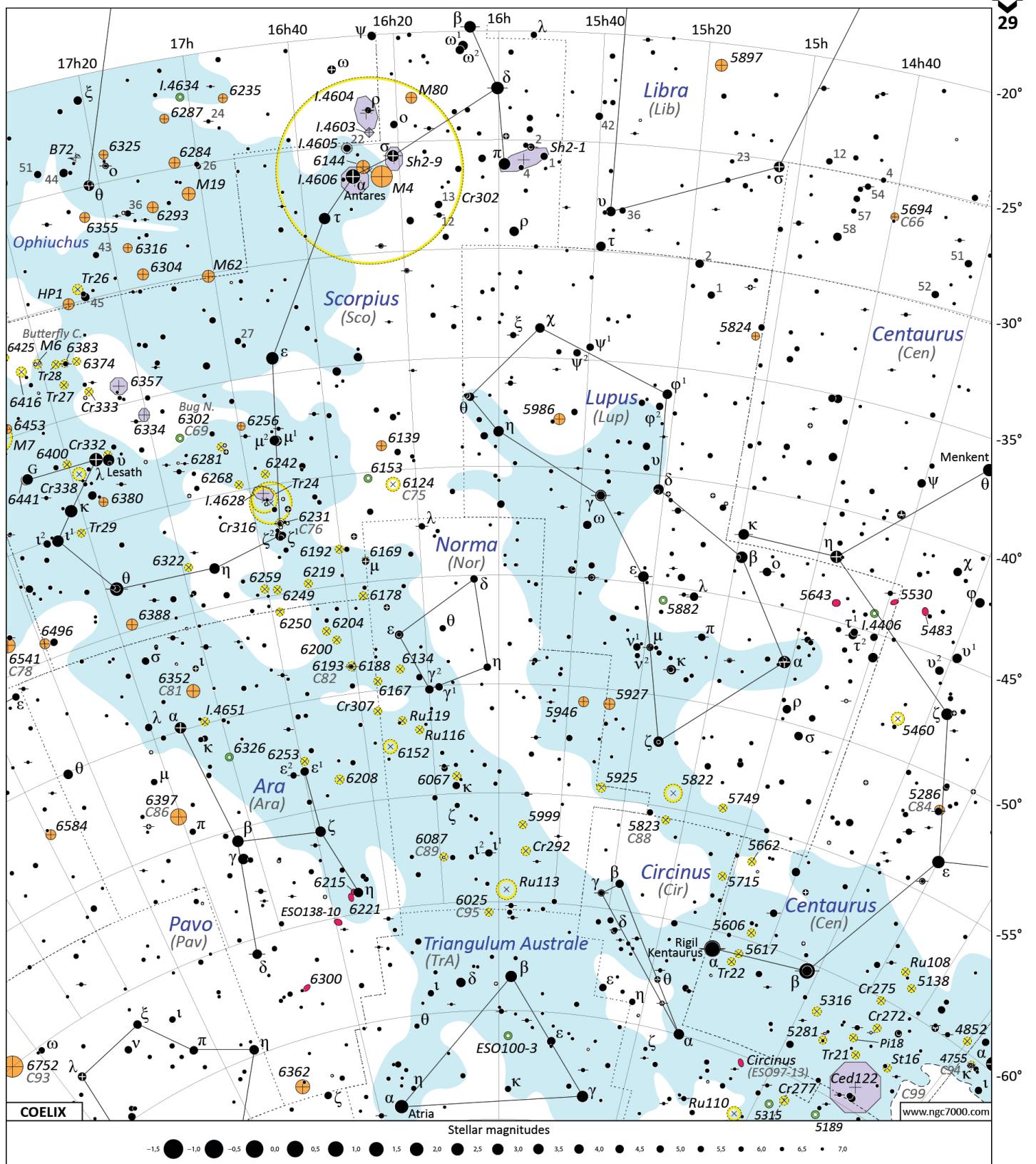
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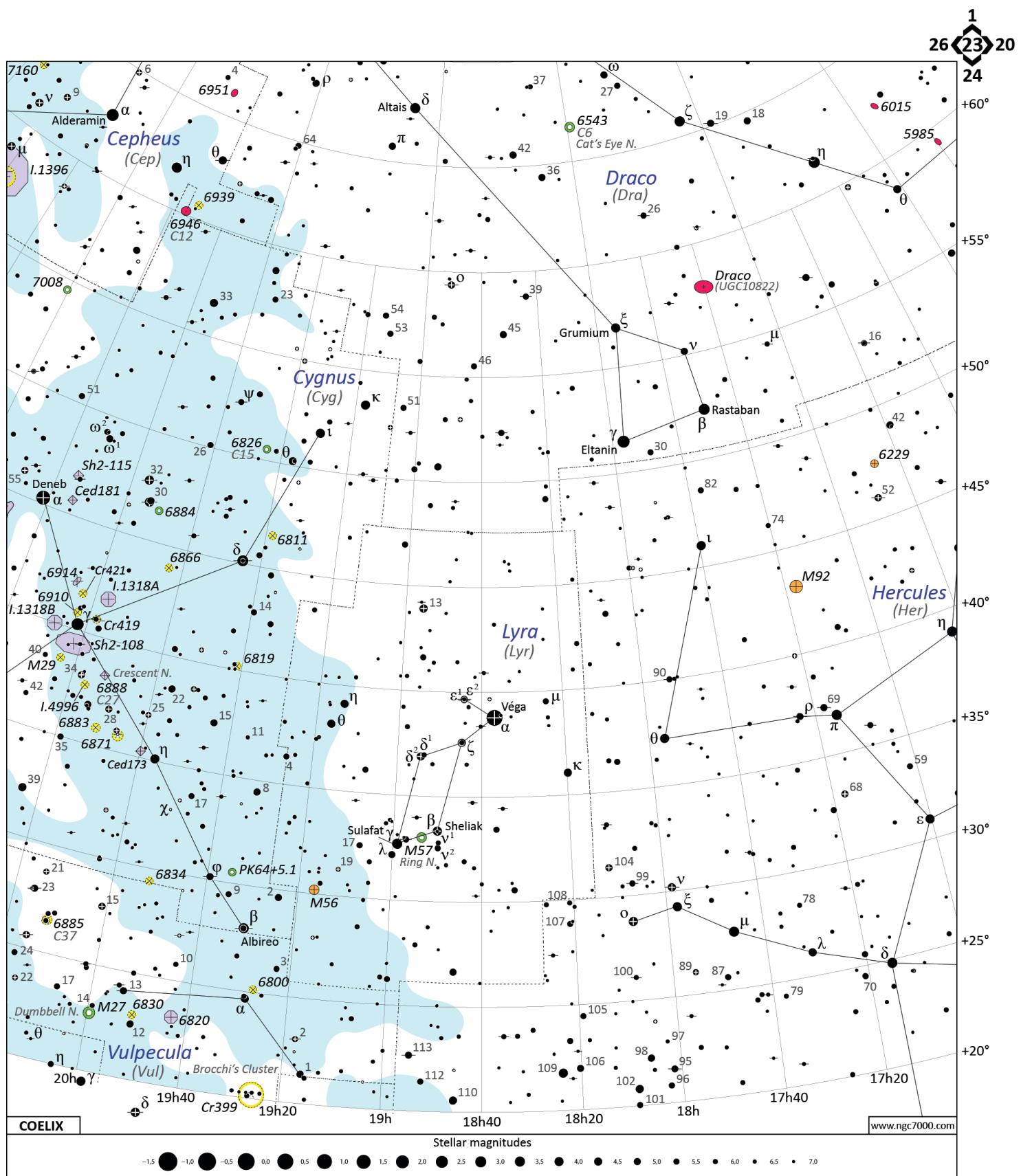
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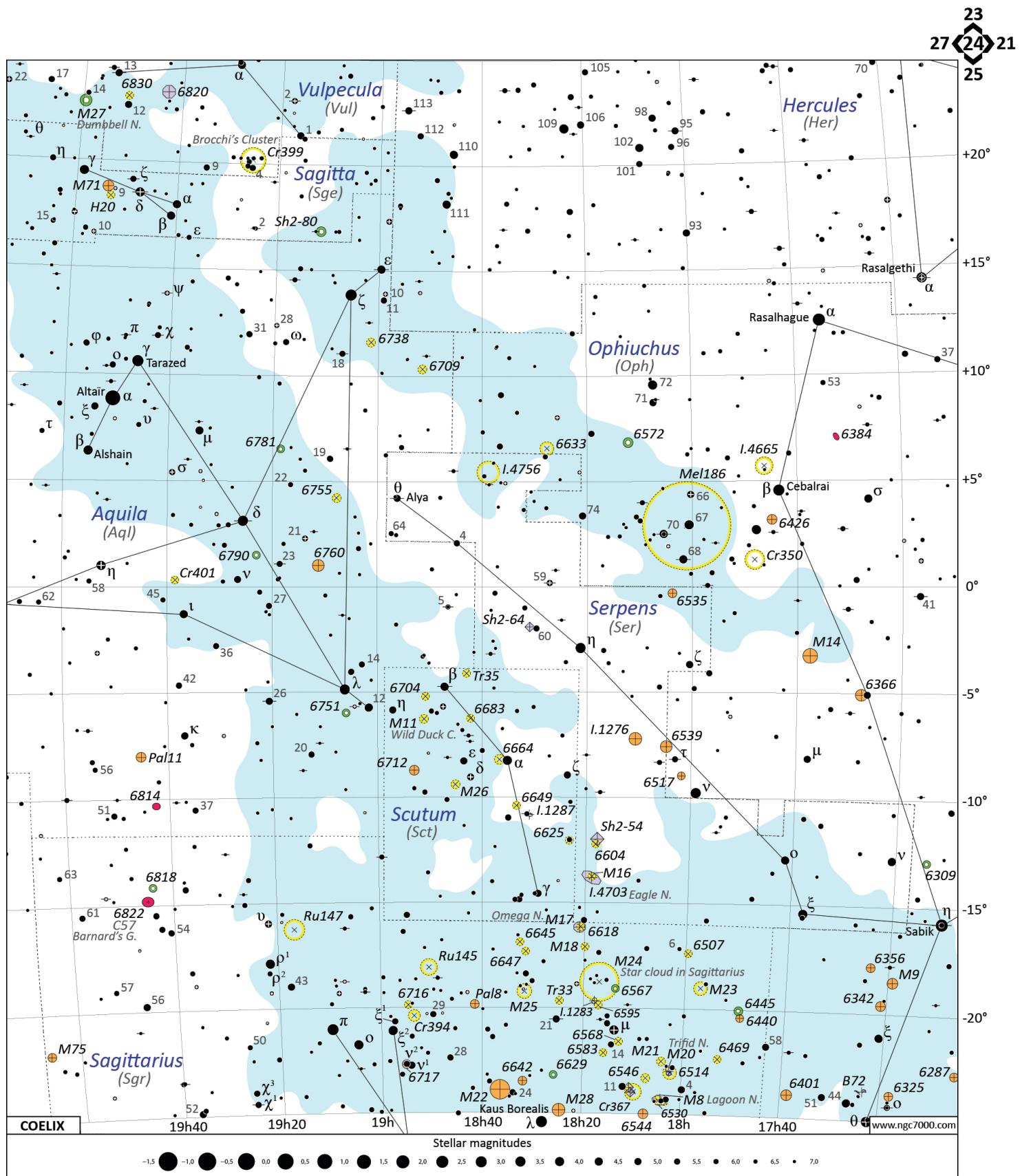


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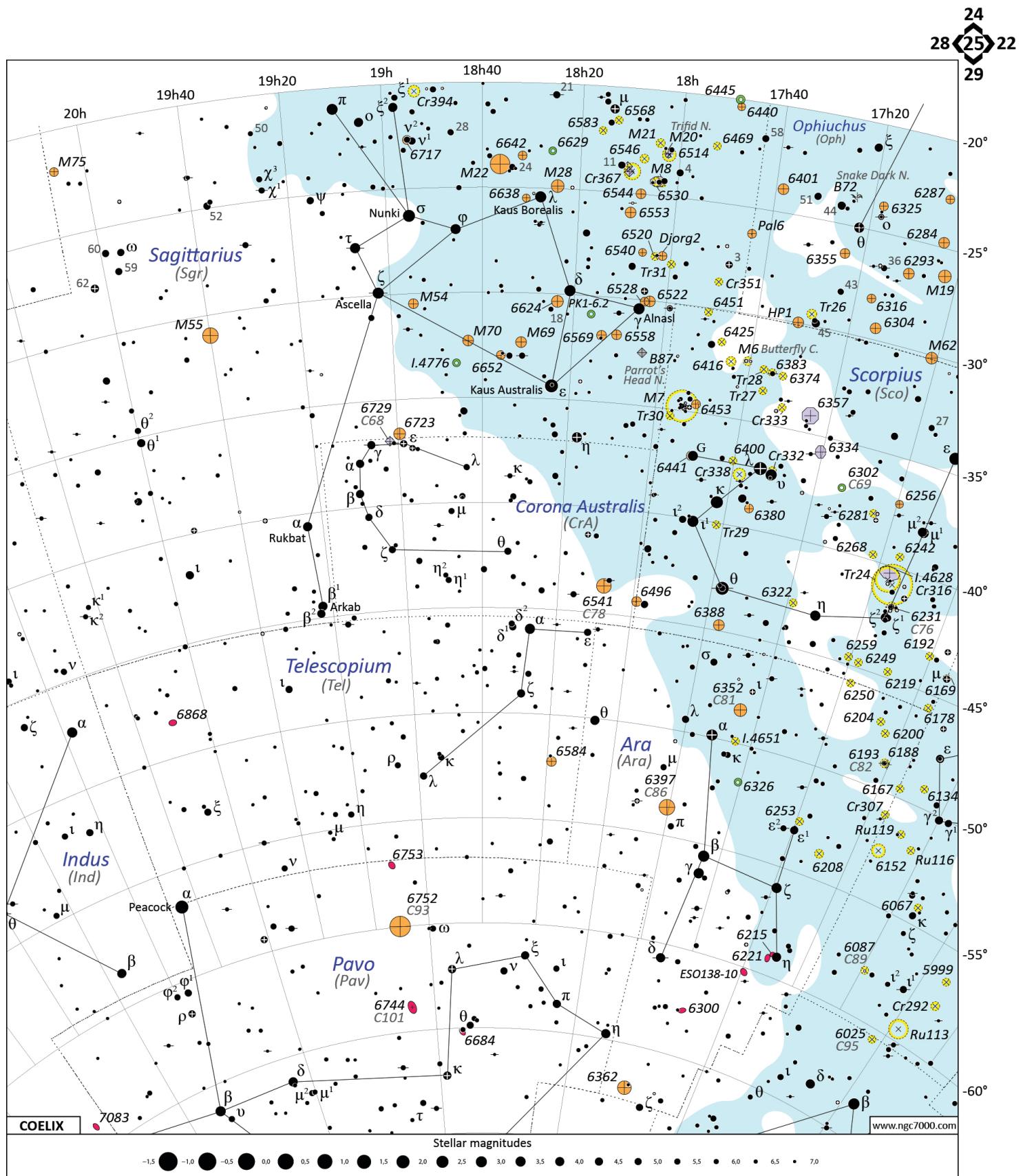
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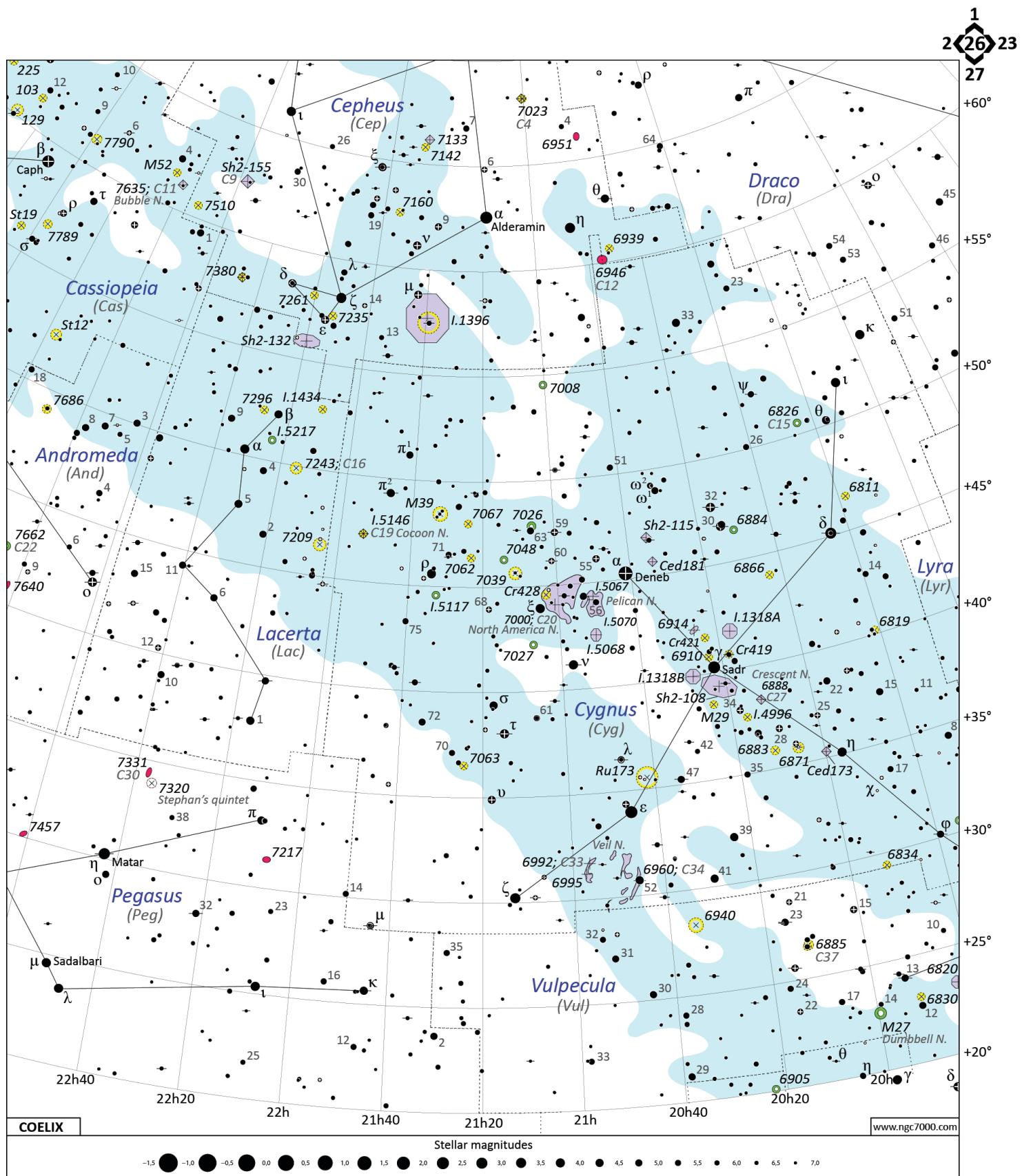
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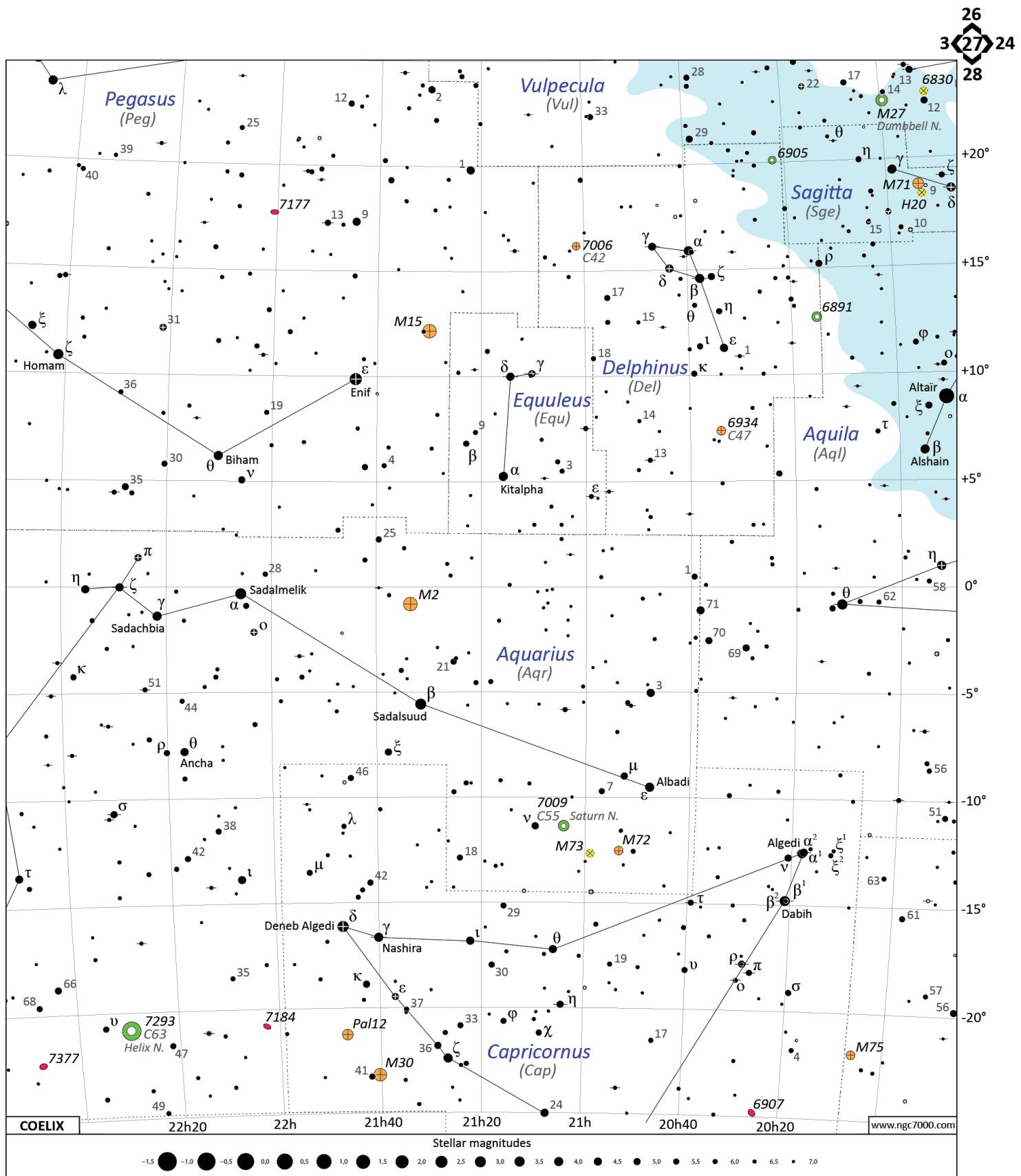


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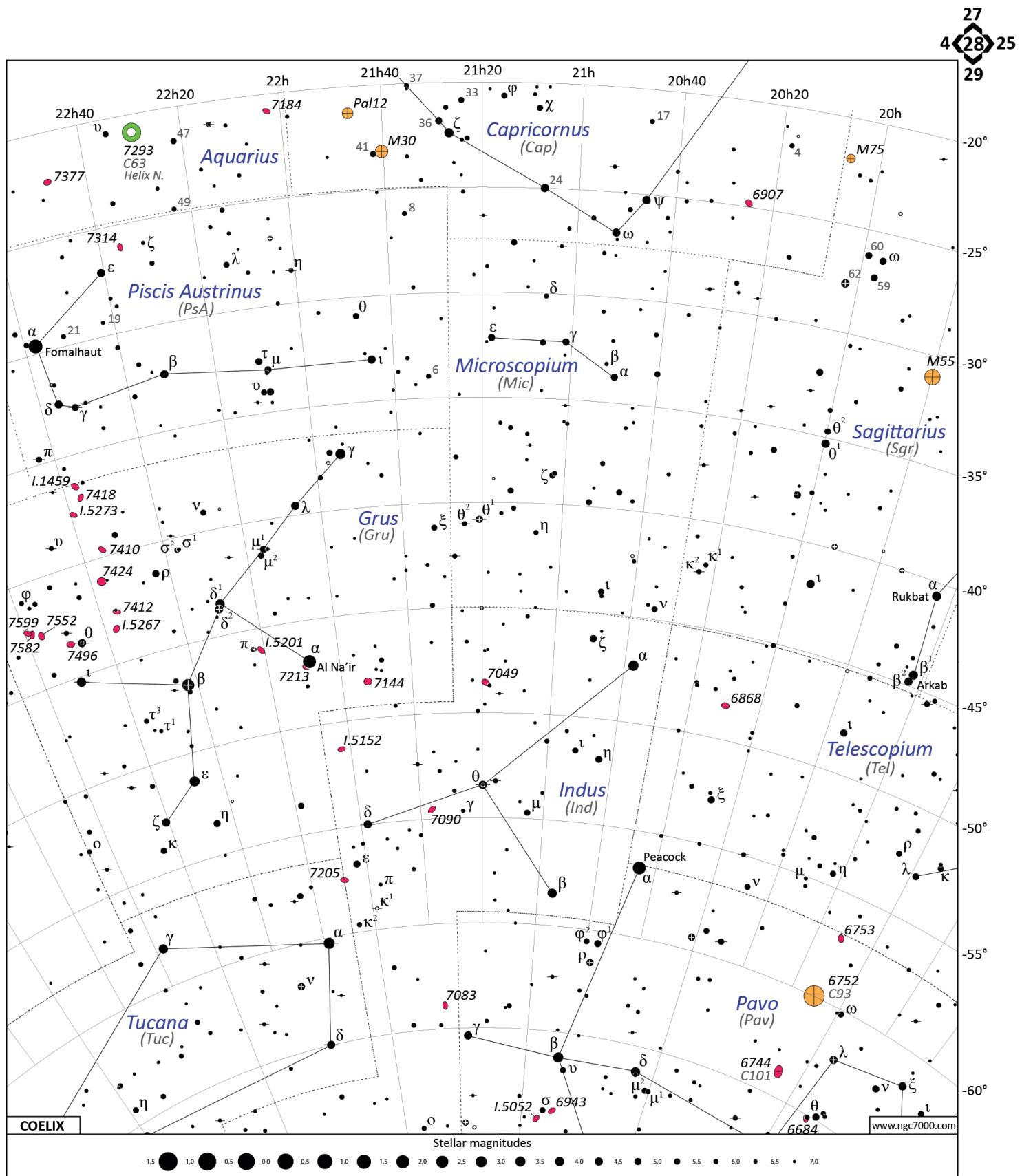


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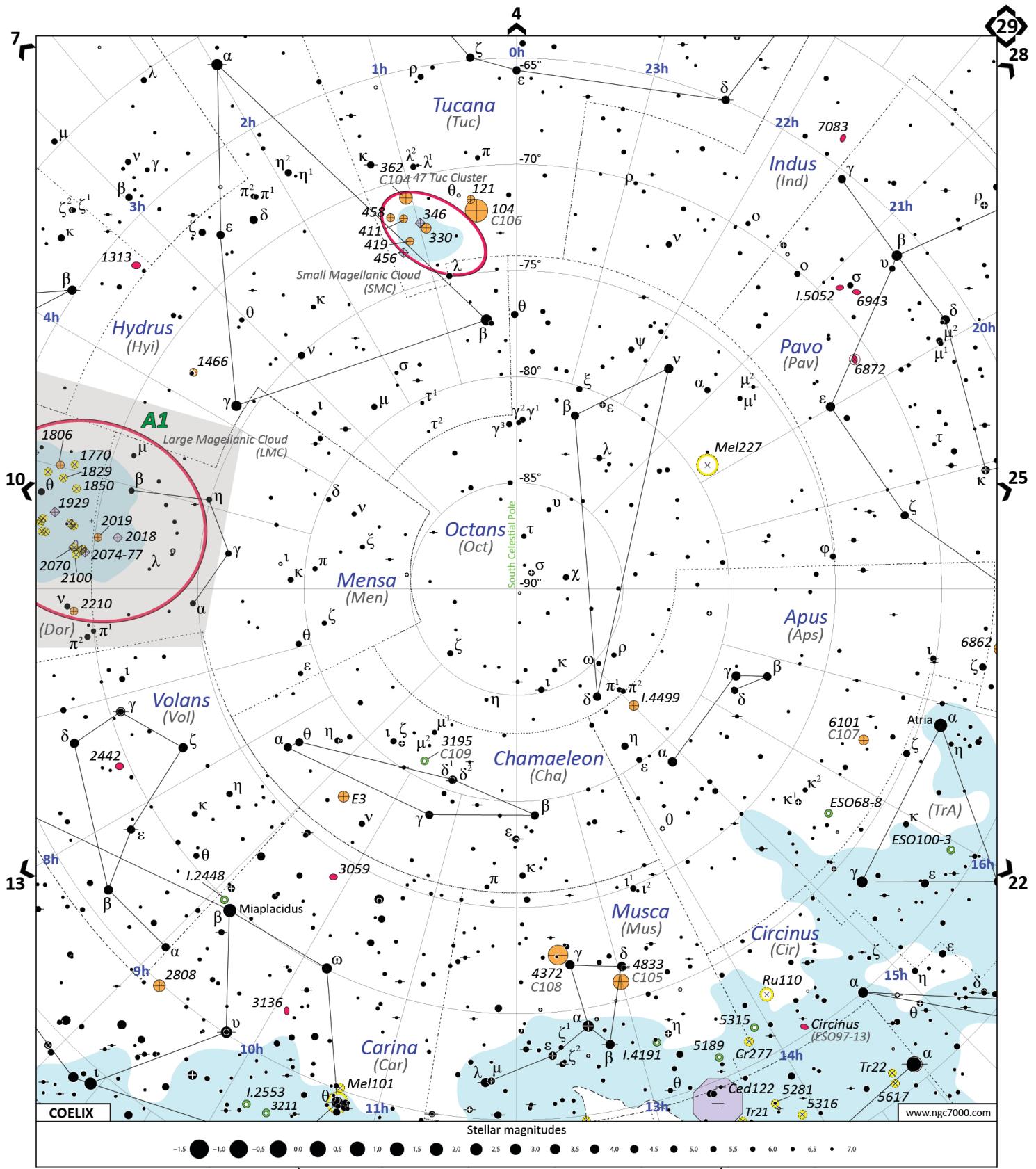
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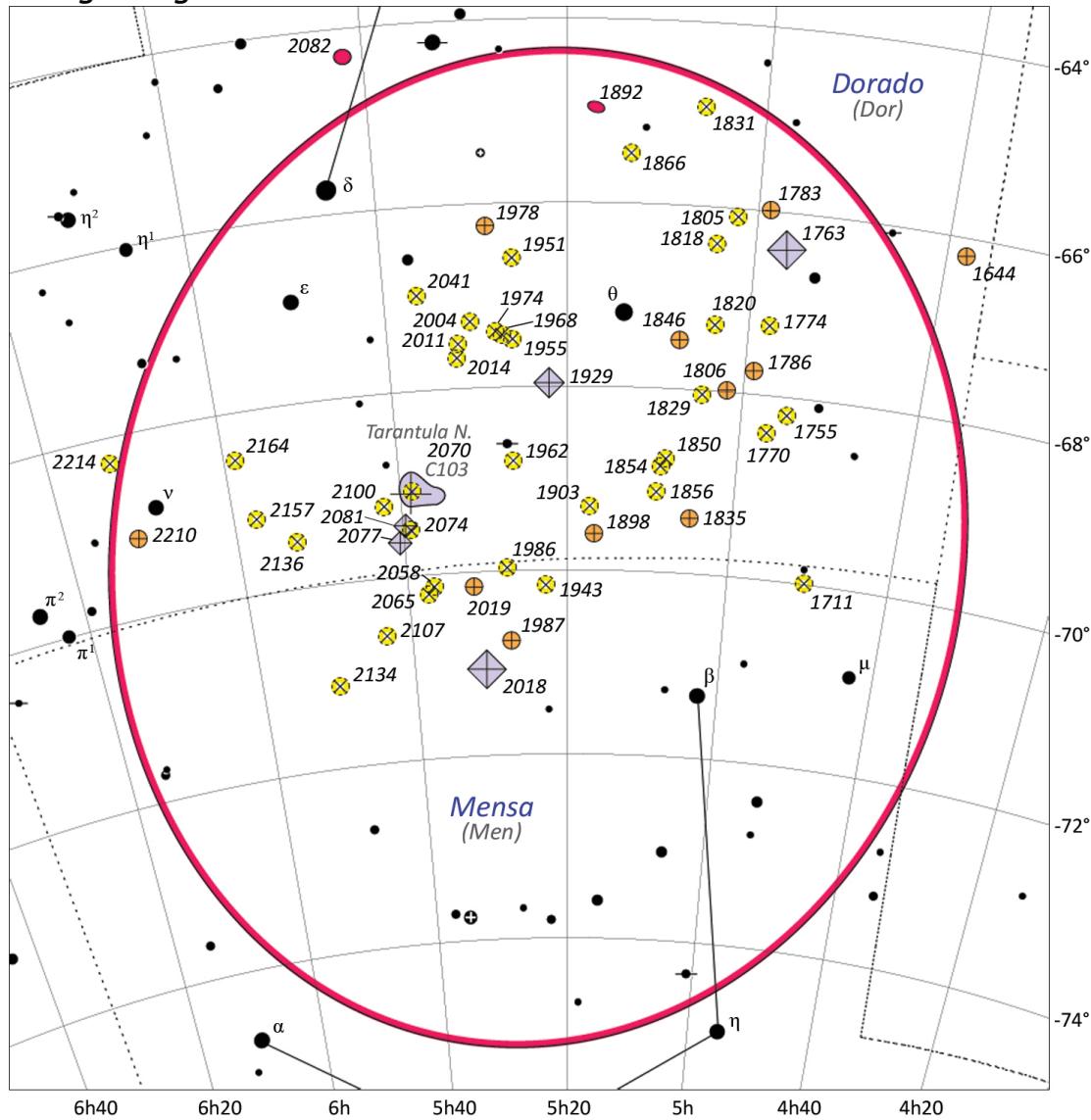
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A1

Large Magellanic Cloud

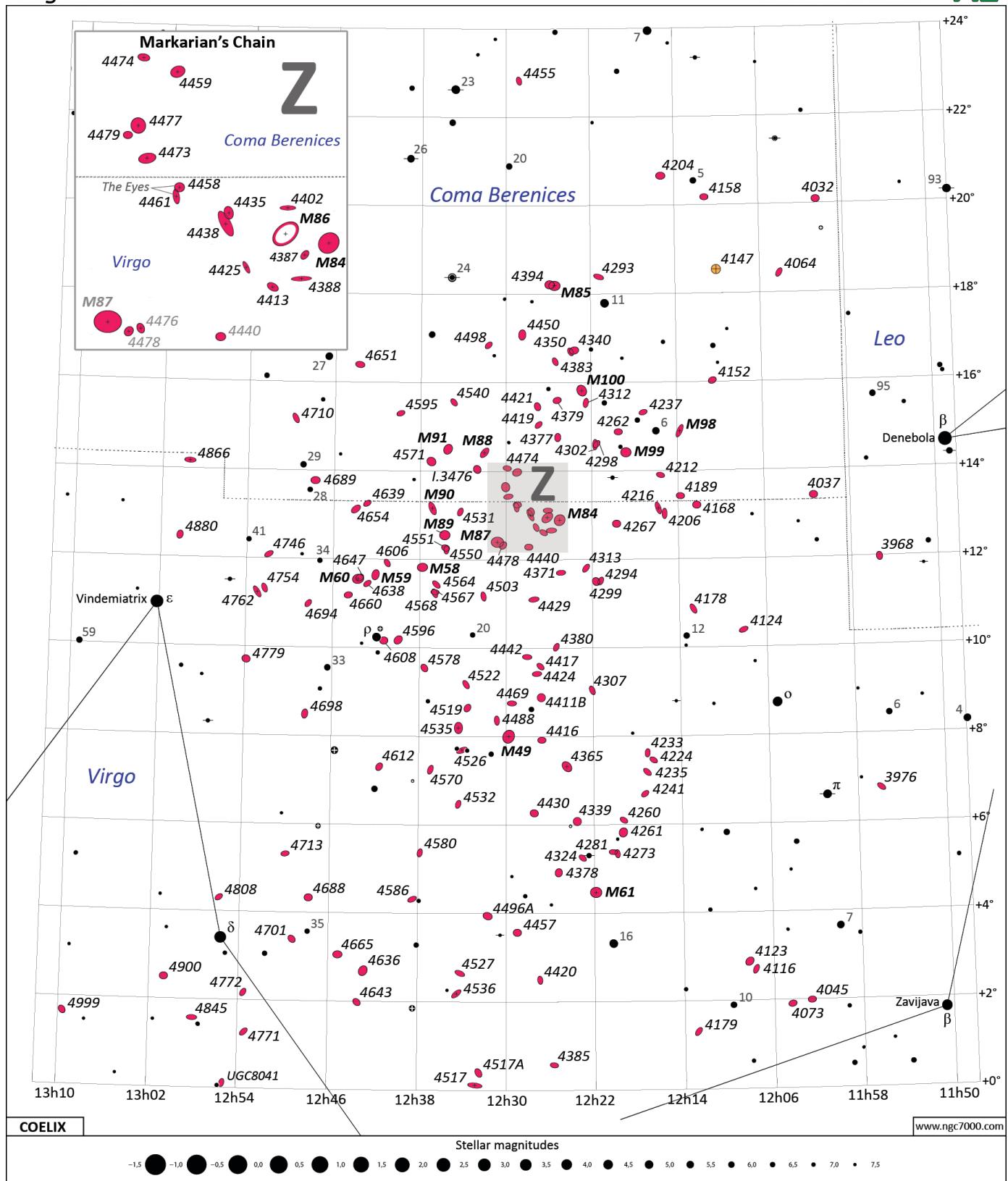
Charts 10 & 29



Virgo Cluster

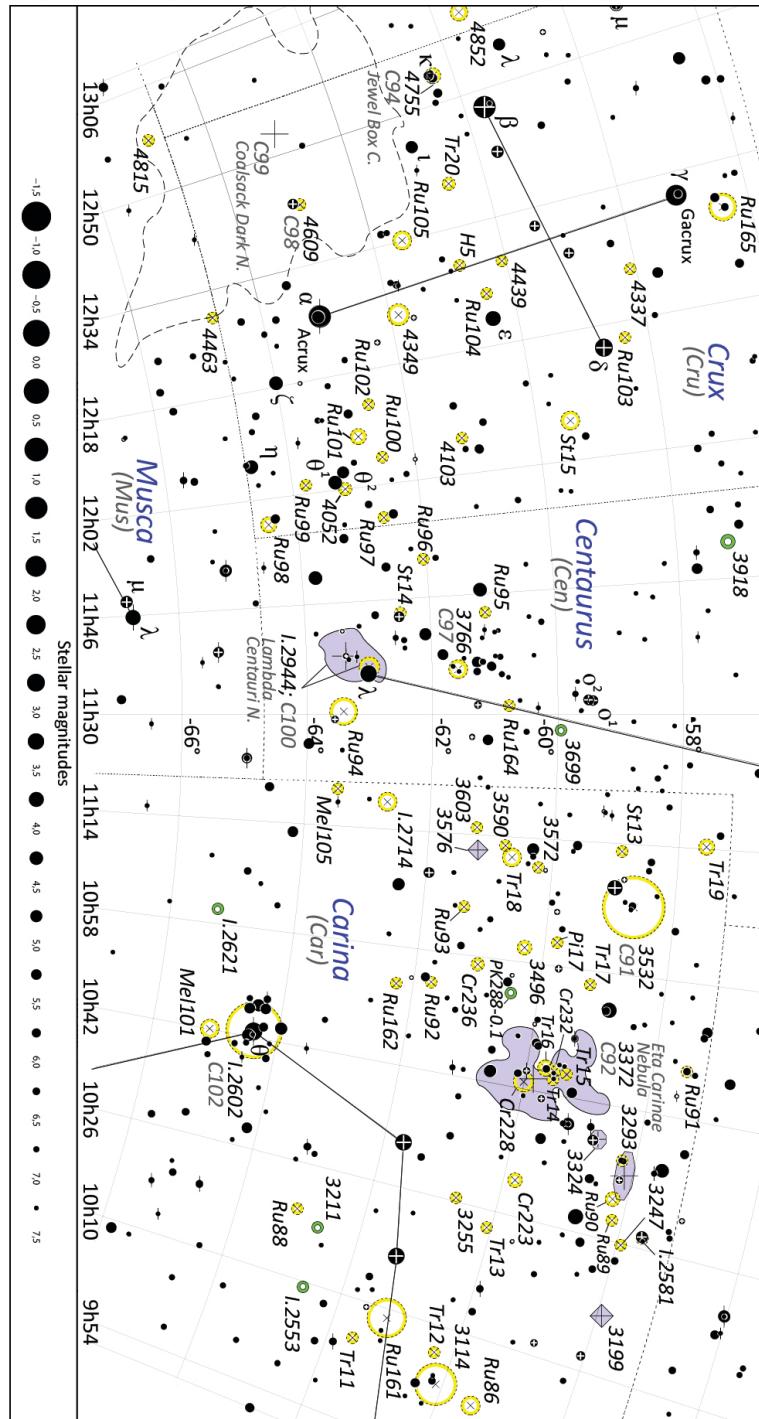
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A2



A3

Area *Carina-Centaurus-Crux* *Charts 16 & 19*

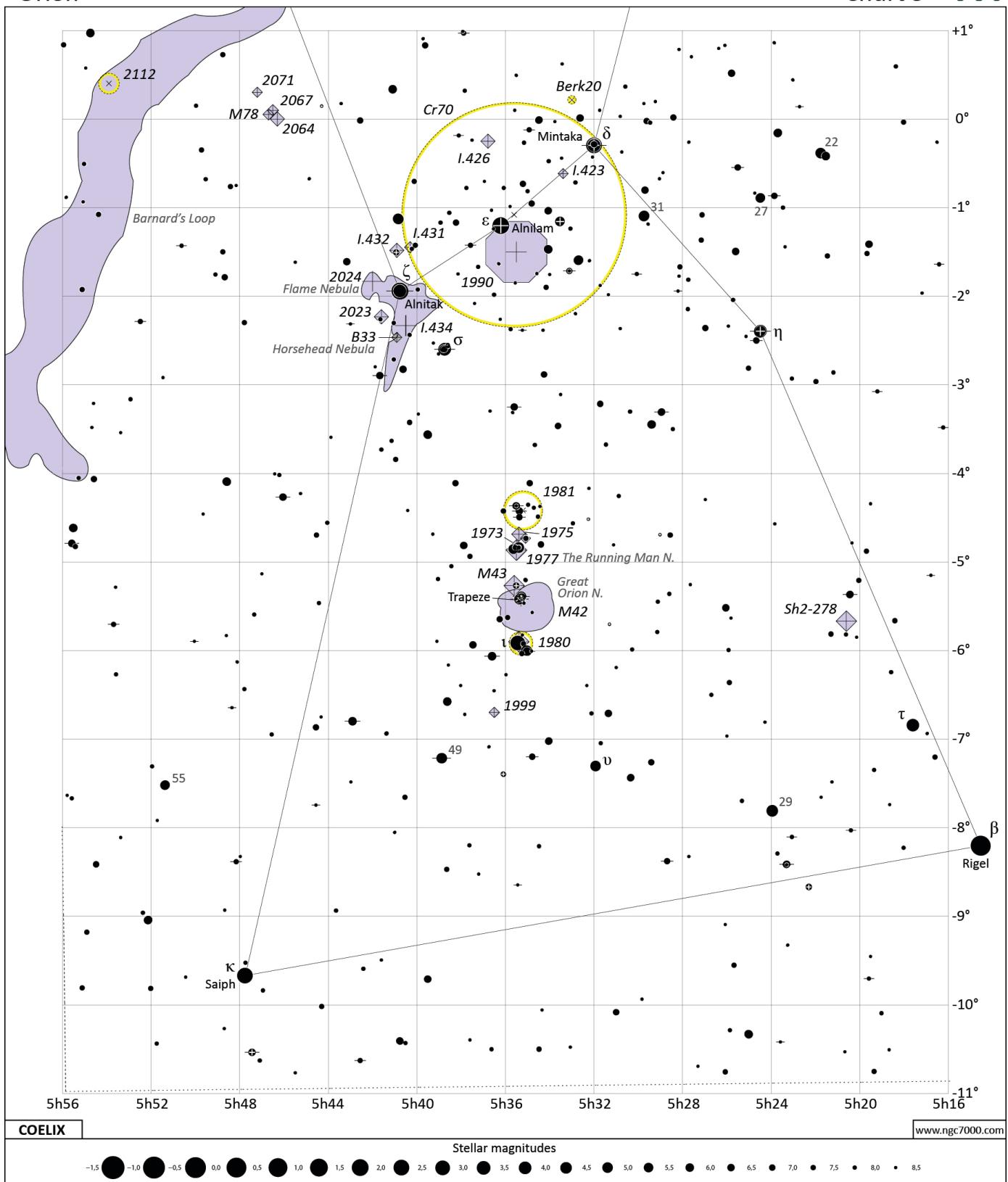


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Orion

Chart 9

A4



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 - Wikipedia

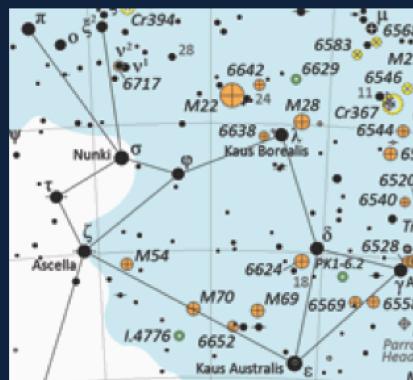
Software

- **Coelix v2.088** *Jean Vallières*
- Guide v9.0 *Project Pluto*
- MegaStar5 v5.0.13 *Willmann-Bell Inc.*

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Claude Duplessis is also the author of two other books: *Gazing at the sky* (2012) and *The Planets* (2010). Passionate about astronomy, he is a great believer in sharing his passion and knowledge.