

February Constellations of the Month

Camelopardalis

Small Scope Objects:

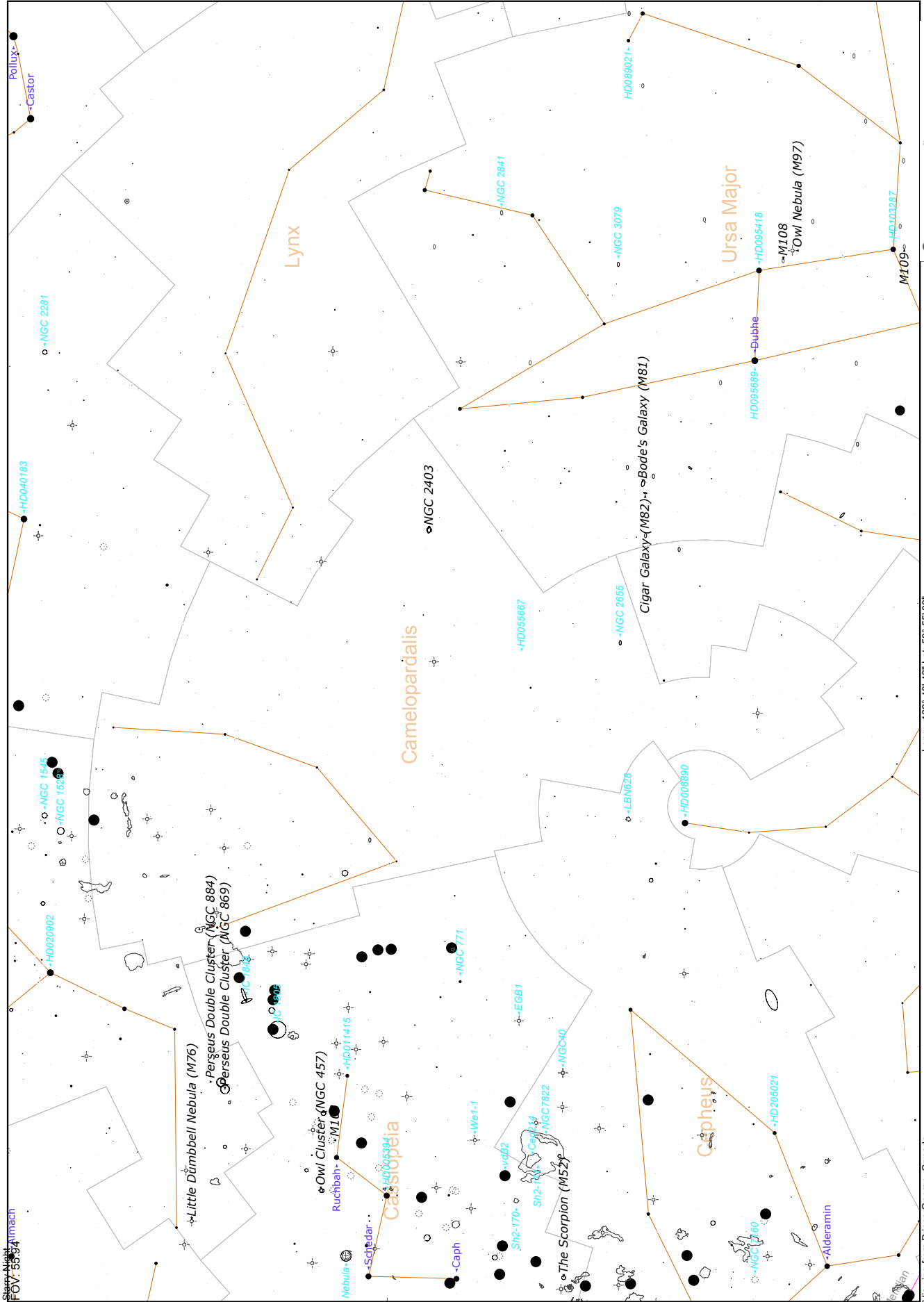
✓	Name	R.A.	Decl.	Details
	NGC 2403 ^{II}	07hr 36.9m	+65° 36'	A large face-on Sc spiral galaxy, 18 x 11 arc minutes in size. Easy in small scopes at magnitude 8.4. Resembles M33 in Triangulum. (110NGC)
	NGC 1502	04hr 08m	+62° 20'	An easy open cluster of 45 stars, crowded into an area only 8 arc minutes across. Magnitude 5.7, located at the bottom of "Kemble's Cascade".

Big Scope Objects:

✓	Name	R.A.	Decl.	Details
	NGC 1501 ^I	04hr 07.0m	+60° 55'	A reasonably bright planetary nebula , 55 x 48 arc seconds in size. Bluish in colour, this 12th mag. planetary has a 13.5 magnitude central star. (110NGC)
	IC 3568	12hr 33m	+82° 33'	This small planetary nebula is only 6 arc seconds across. Small and bright at mag 11.6, with a 13th mag central star visible during steady seeing.
	Tombaugh 5	03hr 48m	+59° 03'	A dim open cluster of 60 stars, 17 arc min. across. Mag. 8.4.
	Stock 23	03hr 16m	+60° 02'	A bright loose cluster of 25 stars, 15 arc min. across.
	King 6	03hr 28m	+56° 27'	A fairly rich cluster, 35 stars, only 7 arc minutes in size.
	NGC 2523	08hr 15m	+73° 35'	A bright, barred Sb spiral, 3 x 2 arc minutes in size. Magnitude 12. Resembles a "theta" shape, a real treat in larger scopes.
	NGC 2366	07hr 29m	+69° 13'	An 11th mag. irregular galaxy, 7.6 x 3.5 arc minutes. About 4° north of NGC 2403.
	NGC 2146	06hr 19m	+78° 21'	Another bright Sb barred spiral, mag 10.5, 6 x 3.8 arc minutes.
	NGC 2336	07hr 27m	+80° 11'	A large, bright Sb spiral. Easy pickin's at mag 10.5, 6.9 x 4.0 arc minutes in size with a nearly stellar core in larger scopes.
	NGC 2655 ^I	08hr 55.6m	+78° 13'	A 10.1 mag barred Sb spiral, 5.1 x 4.4 arc minutes. (110NGC).

Challenge Objects:

✓	Name	R.A.	Decl.	Details
	IC 342	03hr 47m	+68° 06'	A 9.1 magnitude face-on S(B)c galaxy, 17.8 x 17.4 arc minutes. Located just outside the Local Group at 3 Megaparsecs, in a rich, starry field. Surface brightness is very low. Look for a chain of stars just off the nucleus.



Starry Night
FOV: 35.34
Alt: 6.4

Viewing from Prince George, Canada
Chart centre (J2000): RA: 6h 49m 27.3s Dec: 72° 16' 06"
Altitude: 69° 45.492' Azimuth: 17° 39.542' (north)

Long: -122° 43' 42" Lat: 53° 55' 09"
2010/02/14 8:00:49 PM (Local)
Limiting Magnitude: 6.4

- Galaxy
- ⊙ Globular Cluster
- ⊙ Cluster
- ⊙ Variable
- ⊙ Multiple
- ⊙ Planetary
- + Quasar

Gemini

Small Scope Objects:

✓	Name	R.A.	Decl.	Details
	M35' (NGC 2168)	06hr 08.9m	+24° 20'	Gemini's finest open cluster, visible to the naked eye under good conditions. Contains 120 stars, 8th magnitude and fainter in an area 30 arc minutes in diameter. Total magnitude is 5.5 - 2,200 light years distant.
	NGC 2158	06hr 07m	+24° 06'	A fainter, compact open cluster, only 4 arc minutes in size. Located SW of M35 , in the same low power field of view. 150 stars, 13th mag. and fainter. Appears as a smudge in smaller scopes. Physically similar to M35 , but 16,000 LY distant.
	^a Gem (Castor)	07hr 35m	+21° 59'	A double star, separated by 2.3 arc seconds in P.A. 98°. Castor A shines at mag.2.0, Castor B at mag. 2.9. Castor C, a red dwarf at mag. 9.1 is 72.5 arc seconds away at P.A. 164°. All 3 components are spectroscopic binaries.
	NGC 2129	06hr 01m	+23° 18'	A compact open cluster of 50 stars, SW of M35 . 5 arc minutes in size, magnitude 6.7.

Big Scope Objects:

✓	Name	R.A.	Decl.	Details
	NGC 2266	06hr 44m	+26° 59'	A magnitude 9.1 open cluster, 4.5 arc minutes in size. 35 stars, magnitudes 11 to 15.
	NGC 2420	07hr 38m	+21° 34'	Another 9th magnitude open cluster, 7 arc minutes in size. 30 stars, magnitudes 10 to 18.
	NGC 2339	07hr 08m	+18° 47'	An Sc spiral galaxy, glowing at mag. 12.5 against a rich starfield. 2.0 x 1.4 arc minutes.
	NGC 2392^{!!}	07hr 29.2m	+20° 55'	The "Eskimo Nebula" - a bright planetary nebula. 8th magnitude with a 10th magnitude central star, 40 arc seconds in size. 3000 LY distant, use high power for details. (110NGC)
	NGC 2371[!] and NGC 2372[!]	07hr 25.6m	+29° 29'	A double lobed planetary nebula, magnitude 12.5. 50 x 30 arc seconds, with a 12.5 magnitude central star. (110NGC)

Challenge Objects:

✓	Name	R.A.	Decl.	Details
	IC 443	06hr 17m	+22° 47'	A difficult supernova remnant, SE of M35 . 25 x 5 arc minutes in size. Low power, UHC or OIII filters and a viewing hood are recommended.
	Abell 21 (SH2-274, PK205+14.1)	07hr 29m	+13° 15'	The "Medusa Nebula" - a large planetary nebula, much larger than plotted in Uranometria. Use the same viewing techniques as IC 443 .

Leo Minor

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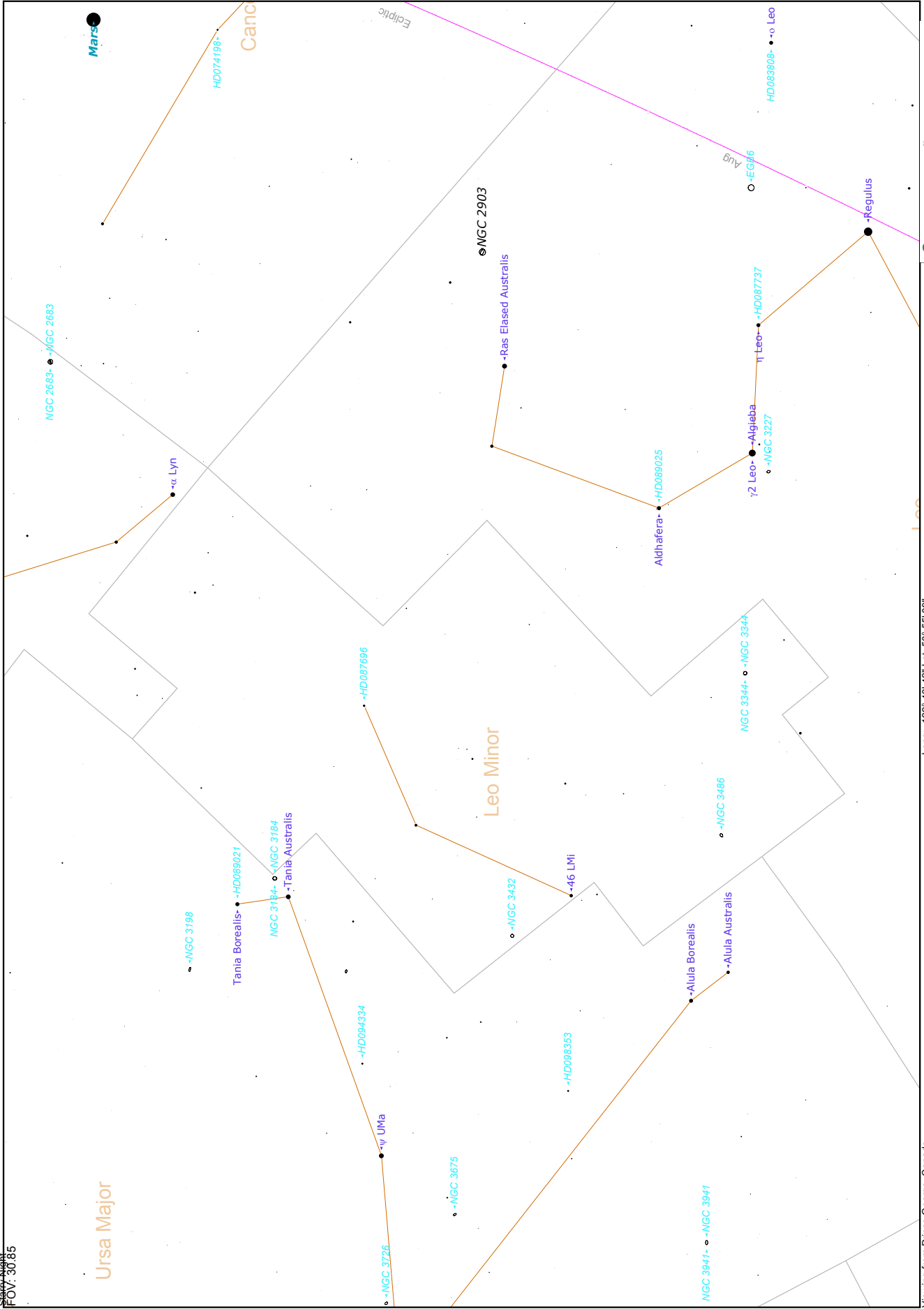
✓	Name	R.A.	Decl.	Details
	NGC 3344 ¹	10hr 43.5m	+24° 55'	A large face-on Sc spiral, difficult for a mag. 9.9 galaxy, due to it's large size - 6.9 x 6.5 arc minutes. (110NGC) and H400
	NGC 3003 ¹	09hr 48.6m	+33° 25'	An SBc galaxy, nearly edge-on. Mag 11.7, measuring 5.9 x 1.7 arc minutes in size. (110NGC)
	NGC 3432 ¹	10hr 52.5m	+36° 37'	Another bright edge-on galaxy, mag 11.3. 6.2 x 1.5 arc minutes in size. (110NGC) and H400

Big Scope Objects:

✓	Name	R.A.	Decl.	Details
	NGC 3277	10hr 33m	+28° 31'	A compact Sb spiral. 1.9 x 1.6 arc min, mag 12.5. (H400)
	NGC 3486	11hr 01m	+28° 59'	A nice face-on multi-armed Sc spiral galaxy, but of low surface brightness. 5.5 x 4.2 arc minutes across.
	NGC 3395 and NGC 3396	10hr 49m	+32° 59'	An interacting pair of spiral galaxies, Sc/Irr separated by 1.7 arc minutes. Magnitudes are 12.4 and 12.8. Sizes are 1.8 x 1.6 and 4.2 x 1.2 arc minutes.
	NGC 3414	10hr 51m	+27° 58'	A mag 12.1 lenticular galaxy, 3.5 x 2.5 arc minutes in size. (H400)
	NGC 3245	10hr 27m	+28° 30'	A mag 11.7 S0 galaxy, 3.2 x 1.7 arc minutes. Look for mag. 14.7 NGC 3245A 9 arc minutes to the NNW, a 4.2 x .4 arc minute SBb edge-on. (H400)
	NGC 3504	11hr 03m	+27° 58'	A compact, bright Sb spiral. Mag 11.6, 2.4 arc minutes in diameter. Look for NGC 3512 12 arc minutes ENE, a 13th mag Sc spiral, 1.4x1.3 min. (H400)

Challenge Objects:

✓	Name	R.A.	Decl.	Details
	NGC 3158 Group	10hr 14m	+38° 46'	Brightest member of a small group of galaxies in a 15 arc minute field. E2 elliptical mag 12.9, 2.0 x 1.8 arc minutes. Other galaxies range from mag 13 to 15+. Look for NGC's 3150(15.5), 3151(14.8), 3152(15.2), 3159(13.6), 3160(15.2), 3161(14.5), 3163(13.3).



Monoceros

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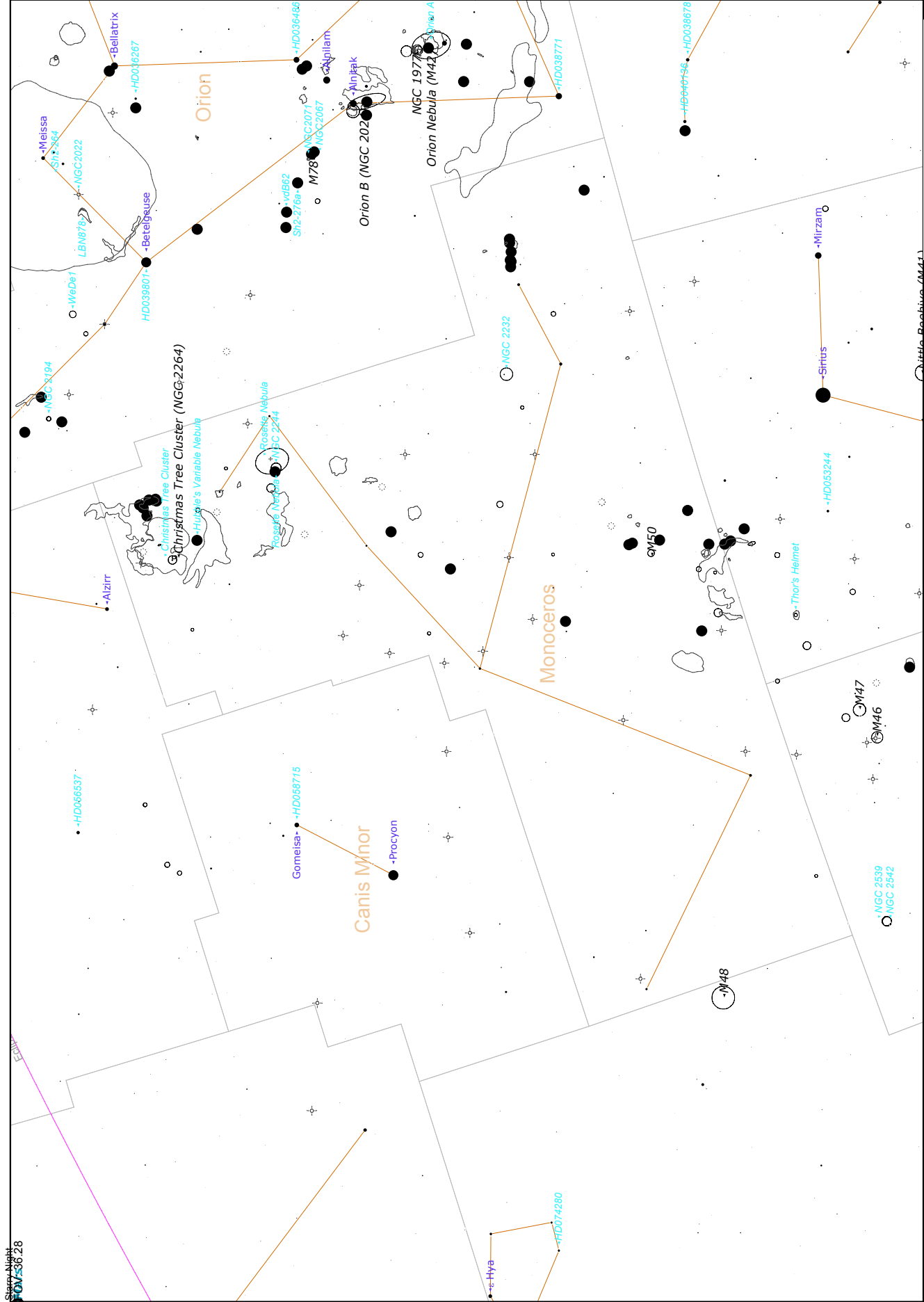
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- Cluster
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- + Quasar