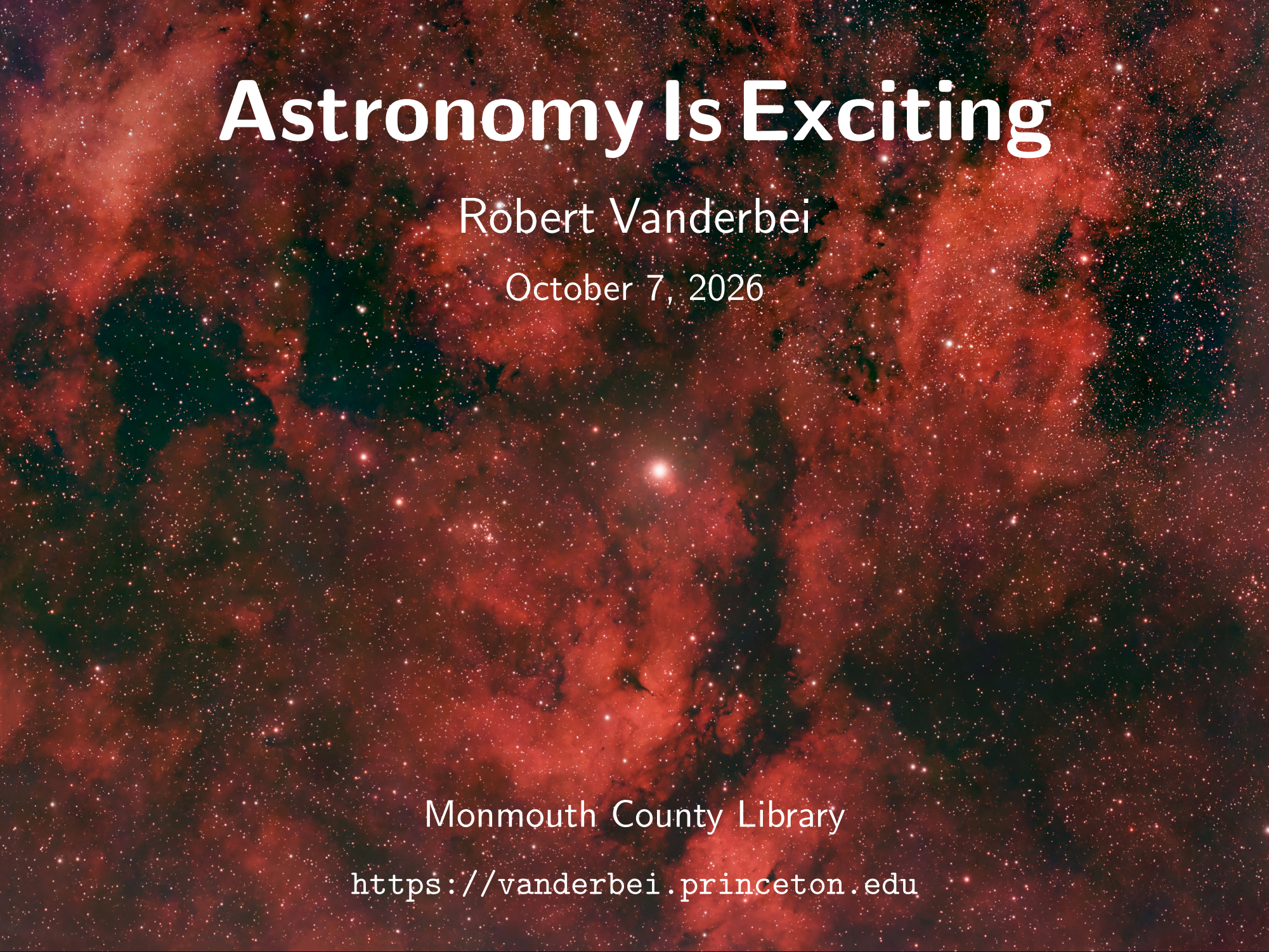


Astronomy Is Exciting

Robert Vanderbei

October 7, 2026

Monmouth County Library

https://vanderbei.princeton.edu

My Telescope



Full Moon

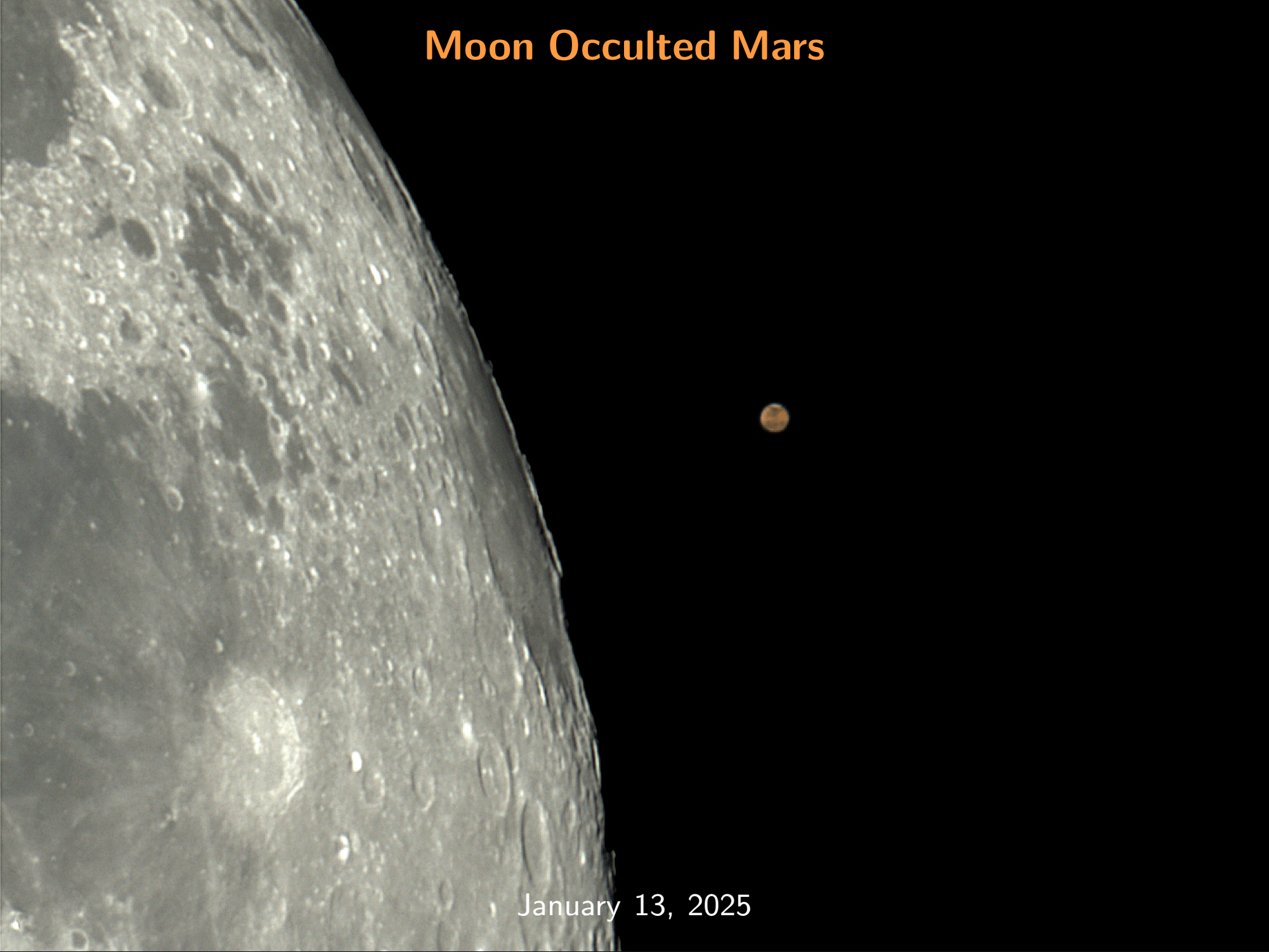


June 14, 2022

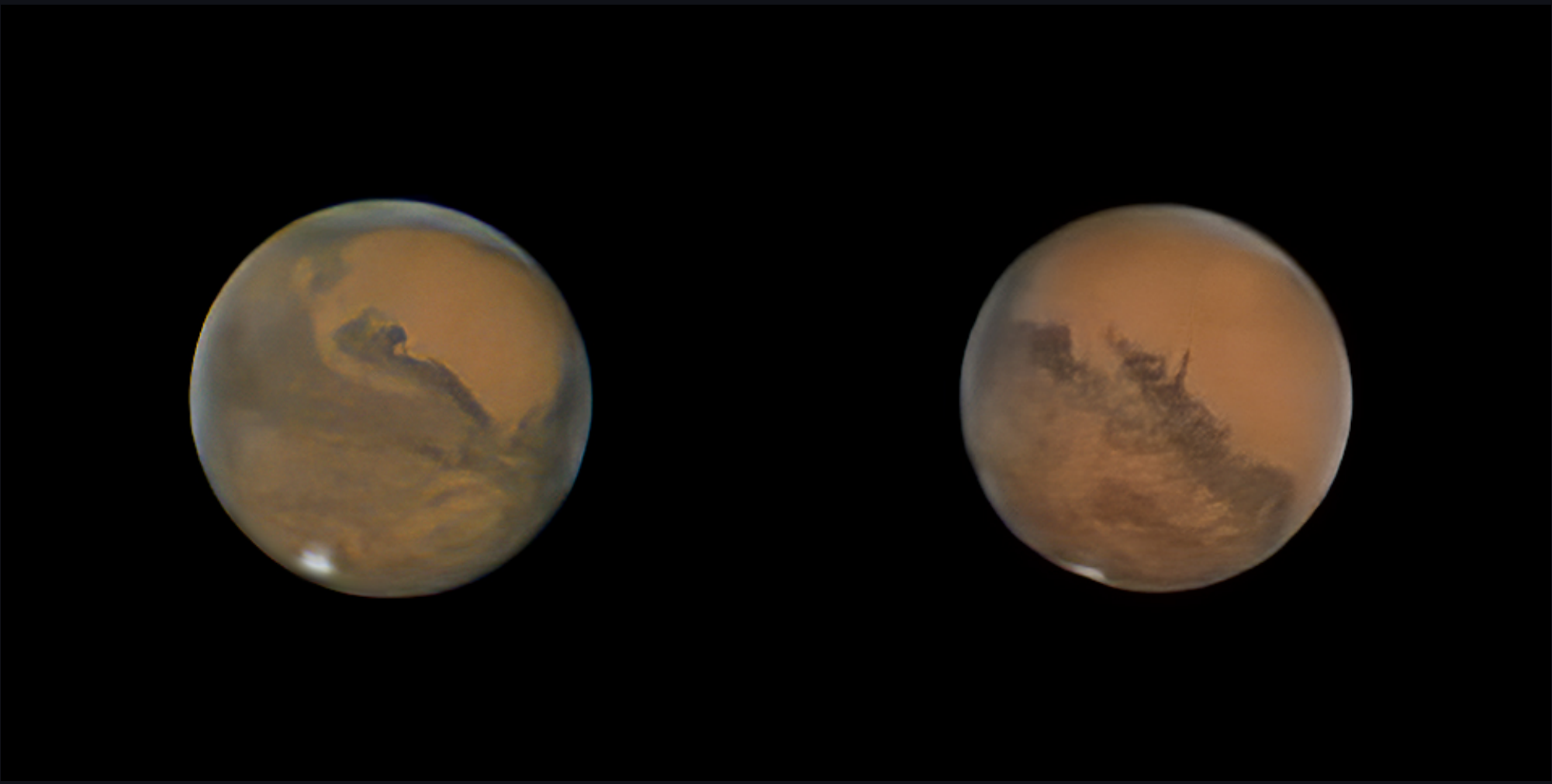
Crescent Moon



4:07pm Nov. 5, 2021


Moon Occulted Mars
January 13, 2025

Mars



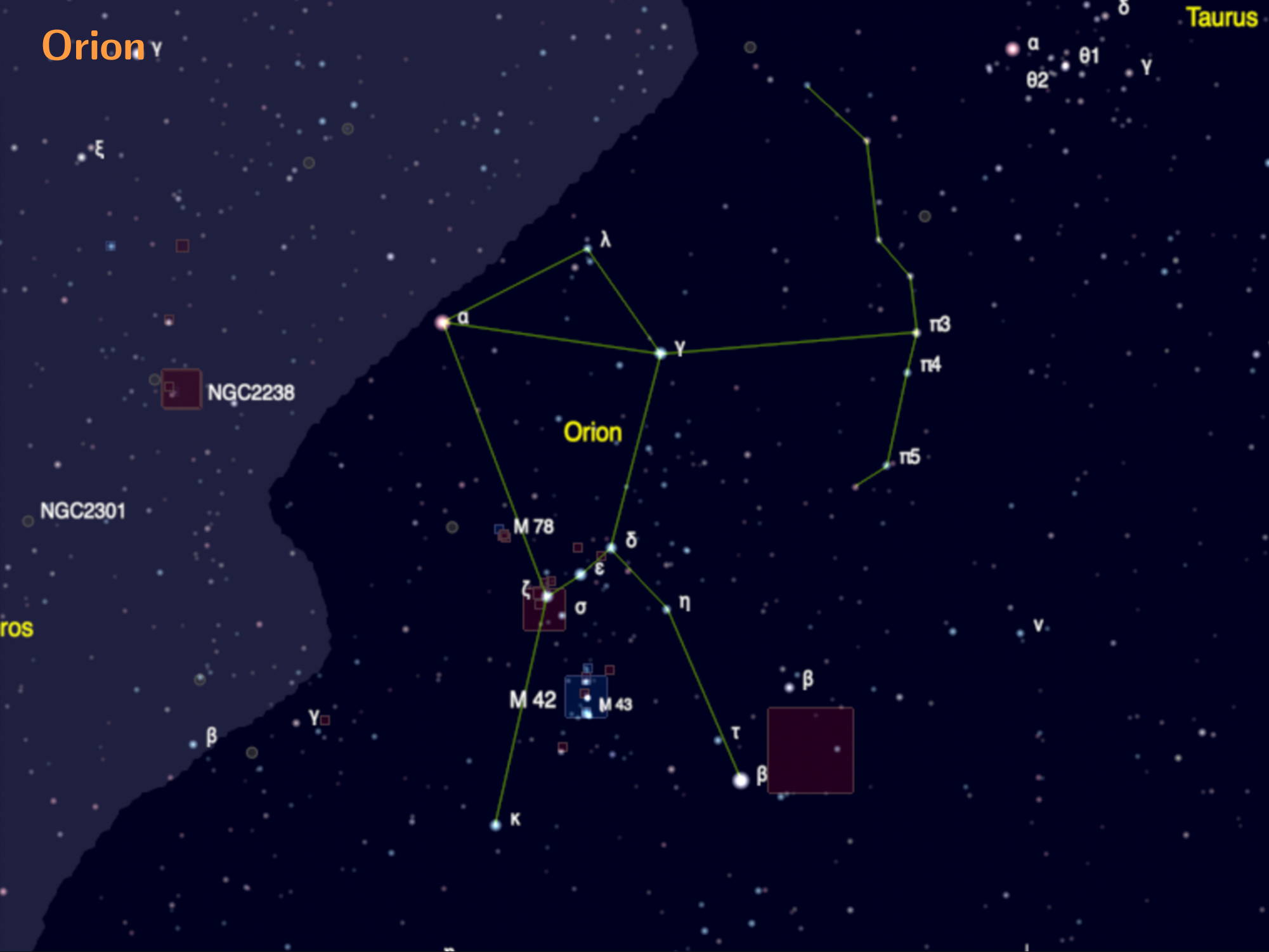
Oct. 6 and 18, 2020

Jupiter and Saturn



32 and 67 min

Looking Out Beyond Our Solar System


Orion
γ
ξ
NGC2238
NGC2301
ros
β
γ
λ
α
γ
π3
π4
π5
Orion
M 78
δ
ε
ζ
σ
η
M 42
M 43
κ
τ
β
β
ν
α
θ2
θ1
γ
δ
Taurus

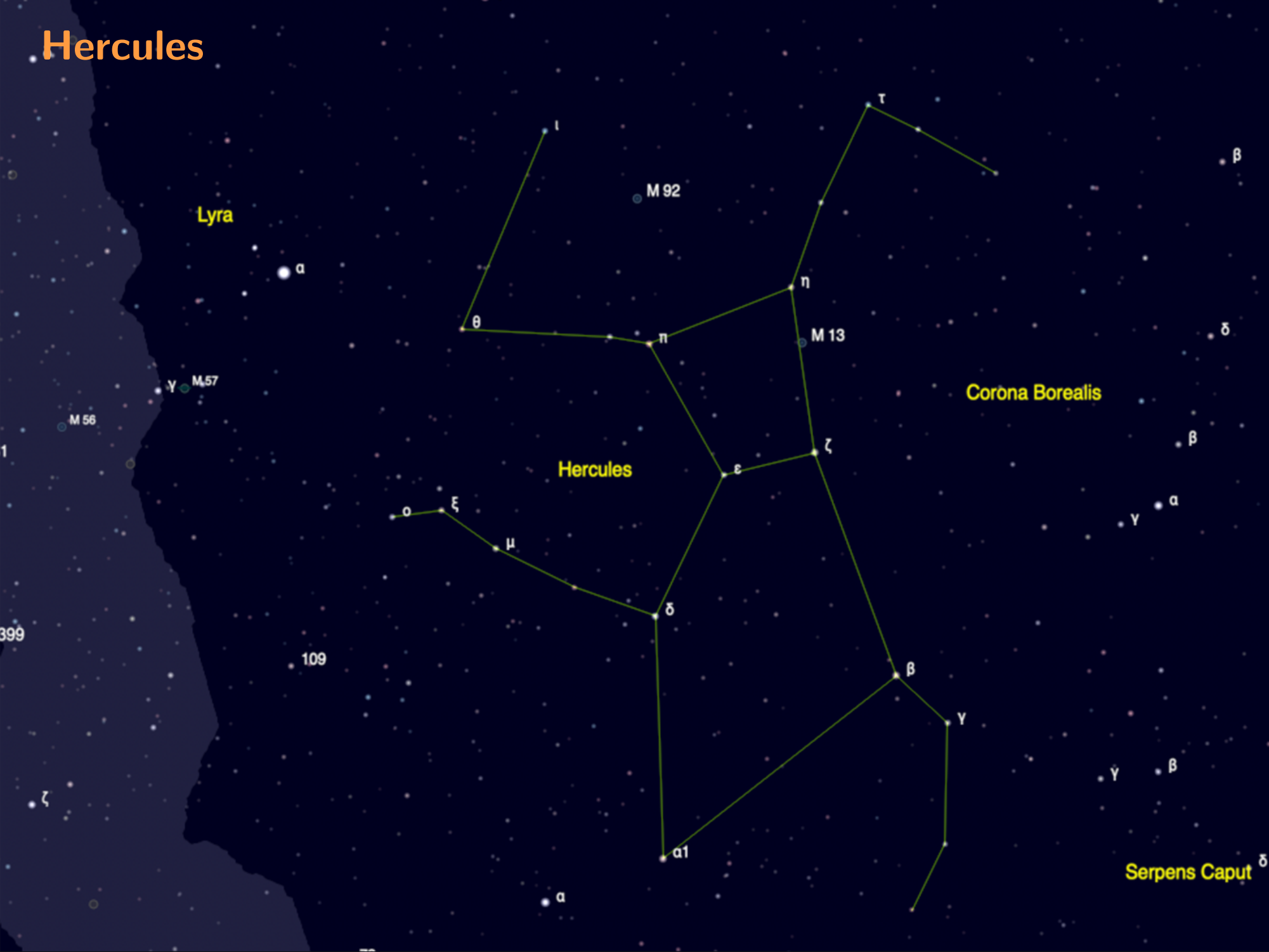
Orion Nebula



Star Forming Region 1,344 ly

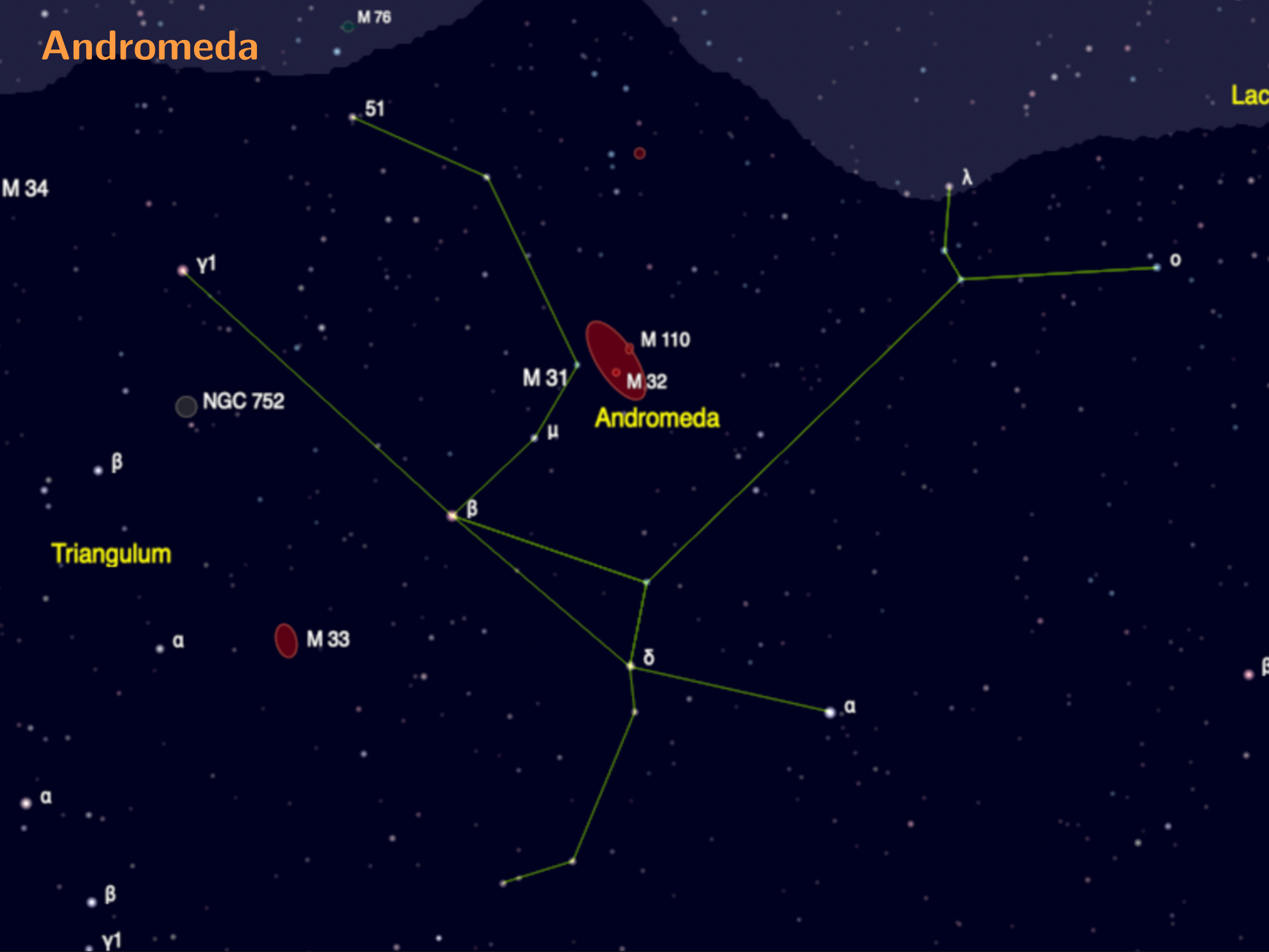
Horsehead and Flame Nebulas




Hercules
Lyra
Hercules
Corona Borealis
Serpens Caput
M 92
M 13
M 57
M 56
109
399
ι
τ
β
α
η
θ
π
δ
γ
ζ
ε
ξ
ο
μ
β
γ
α1
α
δ
γ
β
γ
α
ζ

Globular Cluster in Hercules

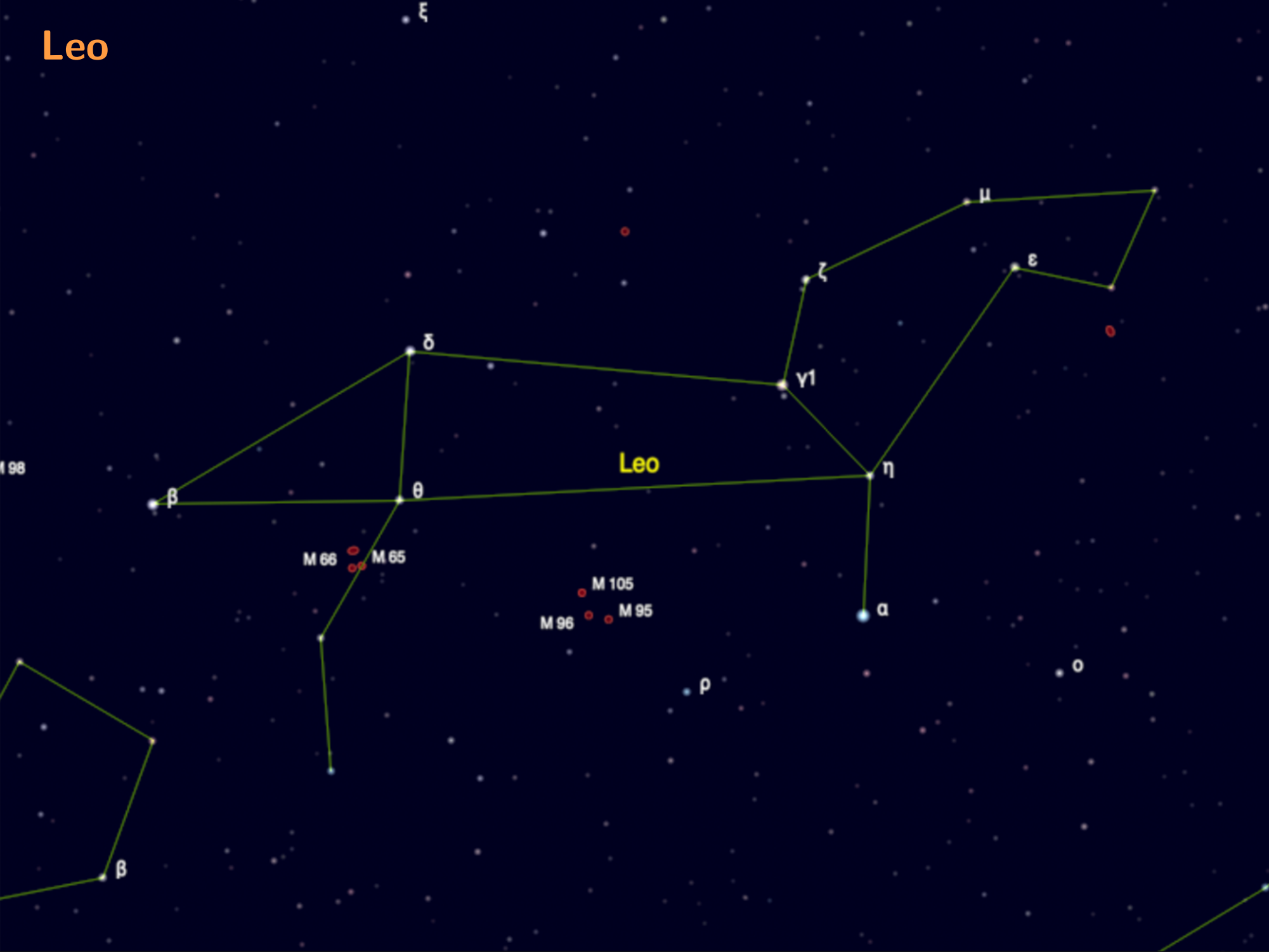



Andromeda
M 76
51
Lac
M 34
λ
γ1
ο
M 110
M 31
M 32
NGC 752
Andromeda
μ
β
β
Triangulum
α
M 33
δ
α
β
α
β
γ1

The Andromeda Galaxy



$2,450,000$ ly


Leo
ξ
μ
ε
ζ
δ
γ1
Leo
η
θ
β
M 66
M 65
M 105
M 95
M 96
α
ο
ρ
β

The Leo Trio



$32,000,000$ ly

More Photos...

Dumbbell Nebula



Dying Star 1,360 ly

Ring Nebula



2,567 ly

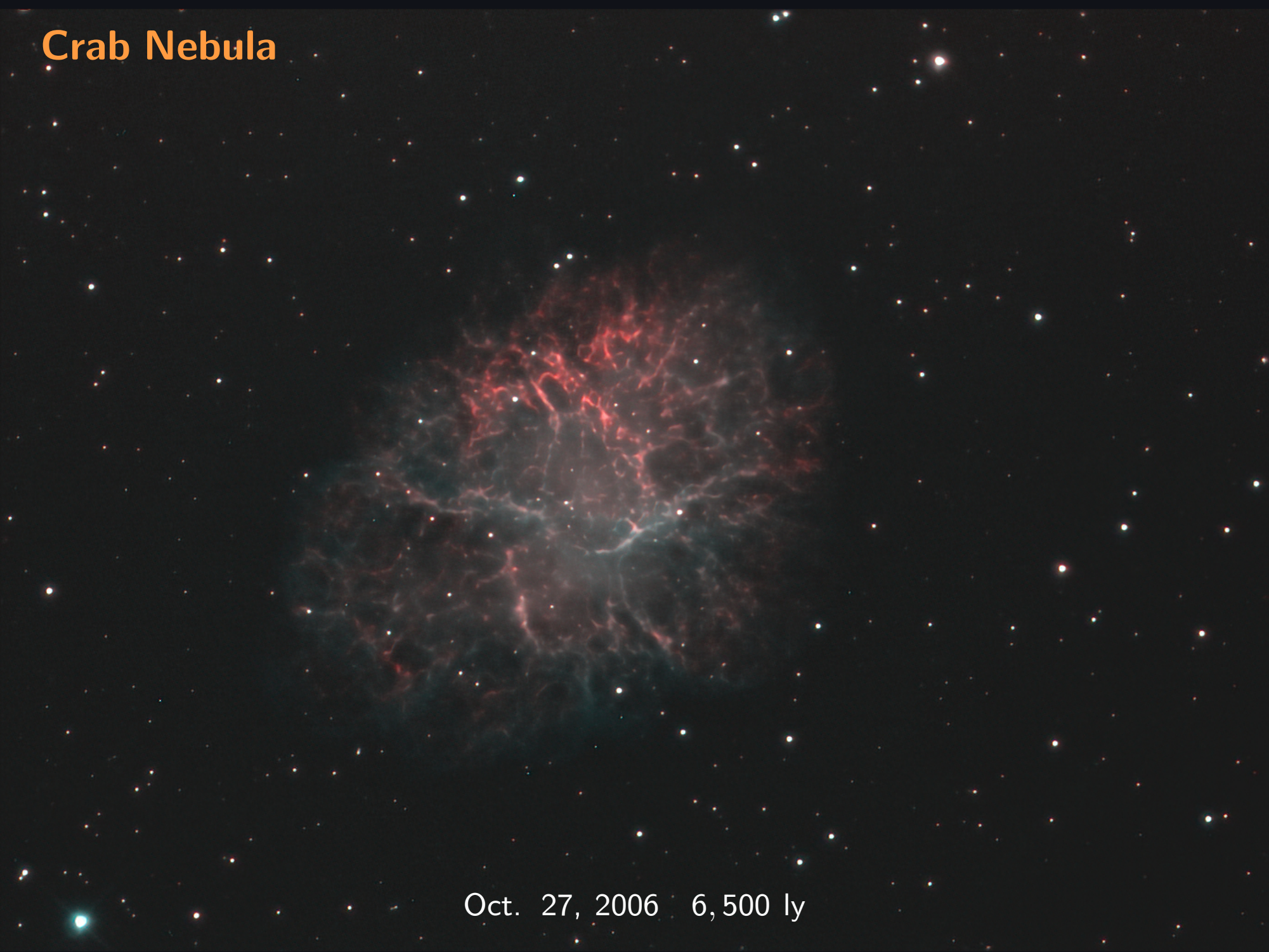
Jellyfish Nebula



Eagle Nebula

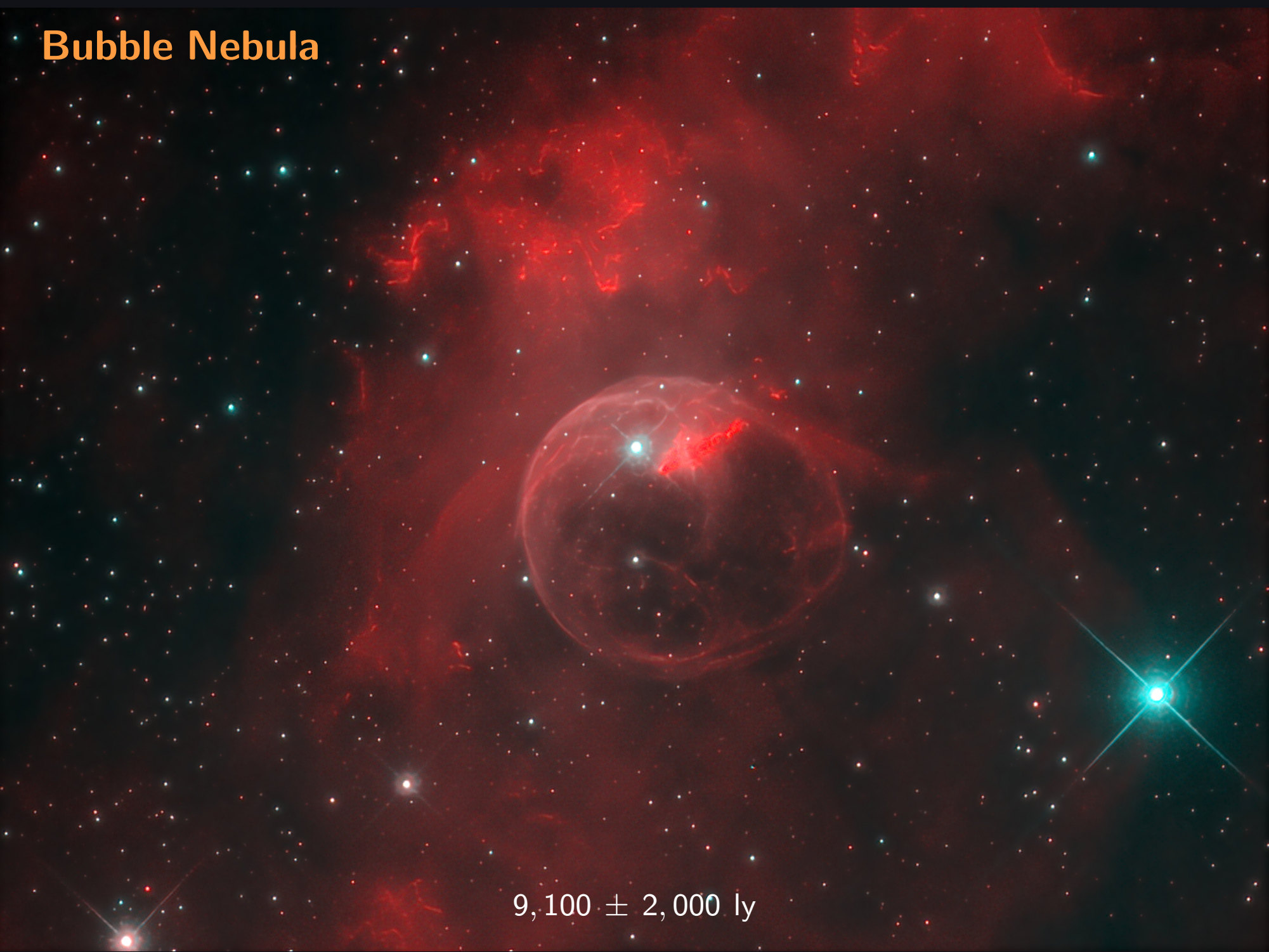


Crab Nebula



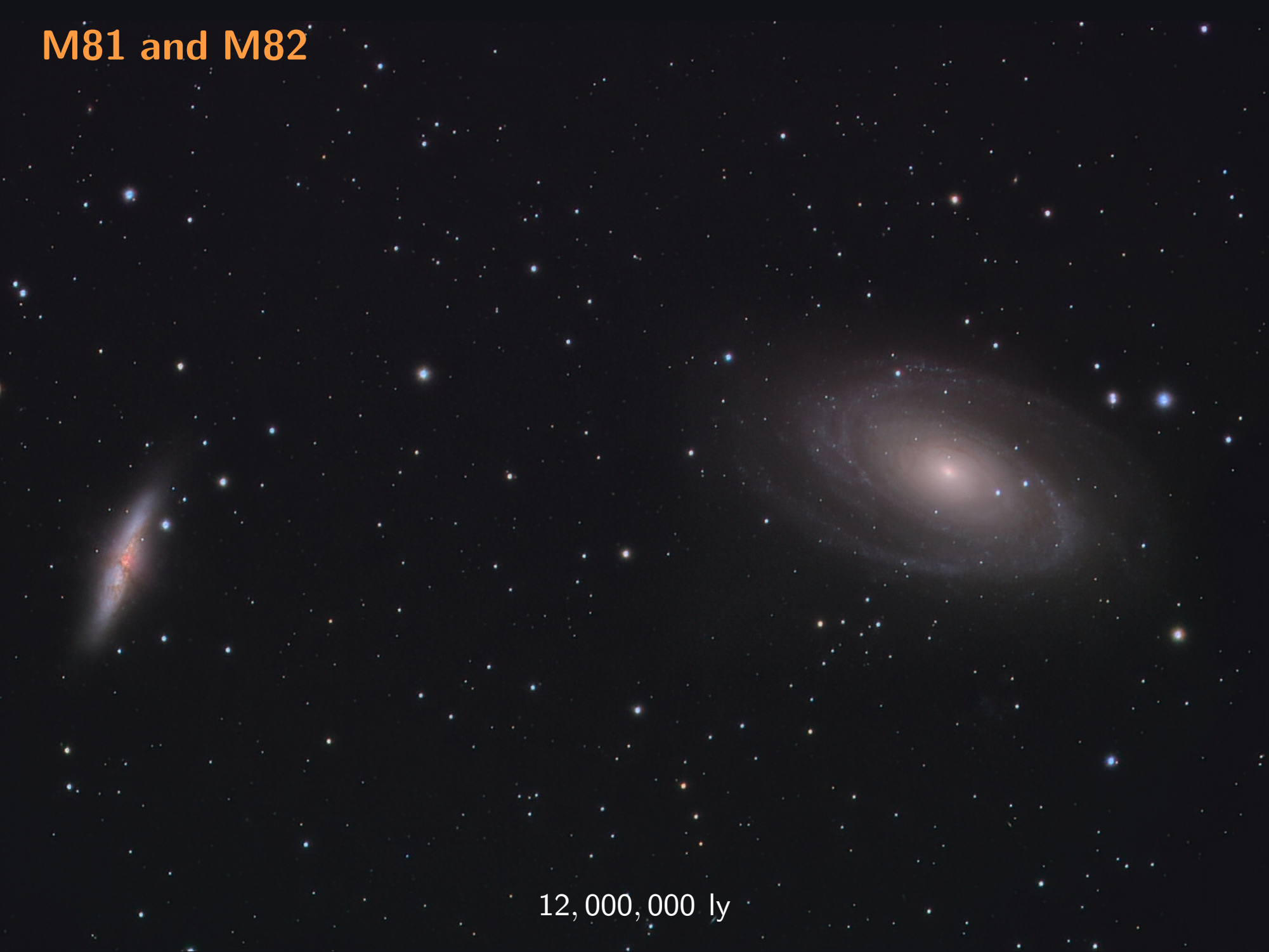
Oct. 27, 2006 6,500 ly

Bubble Nebula



$9,100 \pm 2,000$ ly

M81 and M82



12,000,000 ly

The Whirlpool Galaxy



$31,000,000$ ly

Comet 103P / Double Cluster



1.2 min / 7,460 and 7,640 ly

Some Recent Photos...

Moon Occulting Jupiter – Ingress



4:22am, October 6, 2026

Moon Occulting Jupiter – Egress



5:26am, October 6, 2026

Triangulum Galaxy



Orion Nebula



Today at 3:30-5:30am