

# *A Little Astronomy*

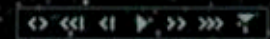


# Hubble

8 Apr 2008

06:23:08 GMT+2

Rate: 1x



Set Time

Ambient Light Level: 0,00



Magnitude limit: 9,90



Galaxy Light Gain: 10%



Set Render Options

Solar System Browser

FOV: 34° 30' 31" (0,75x)

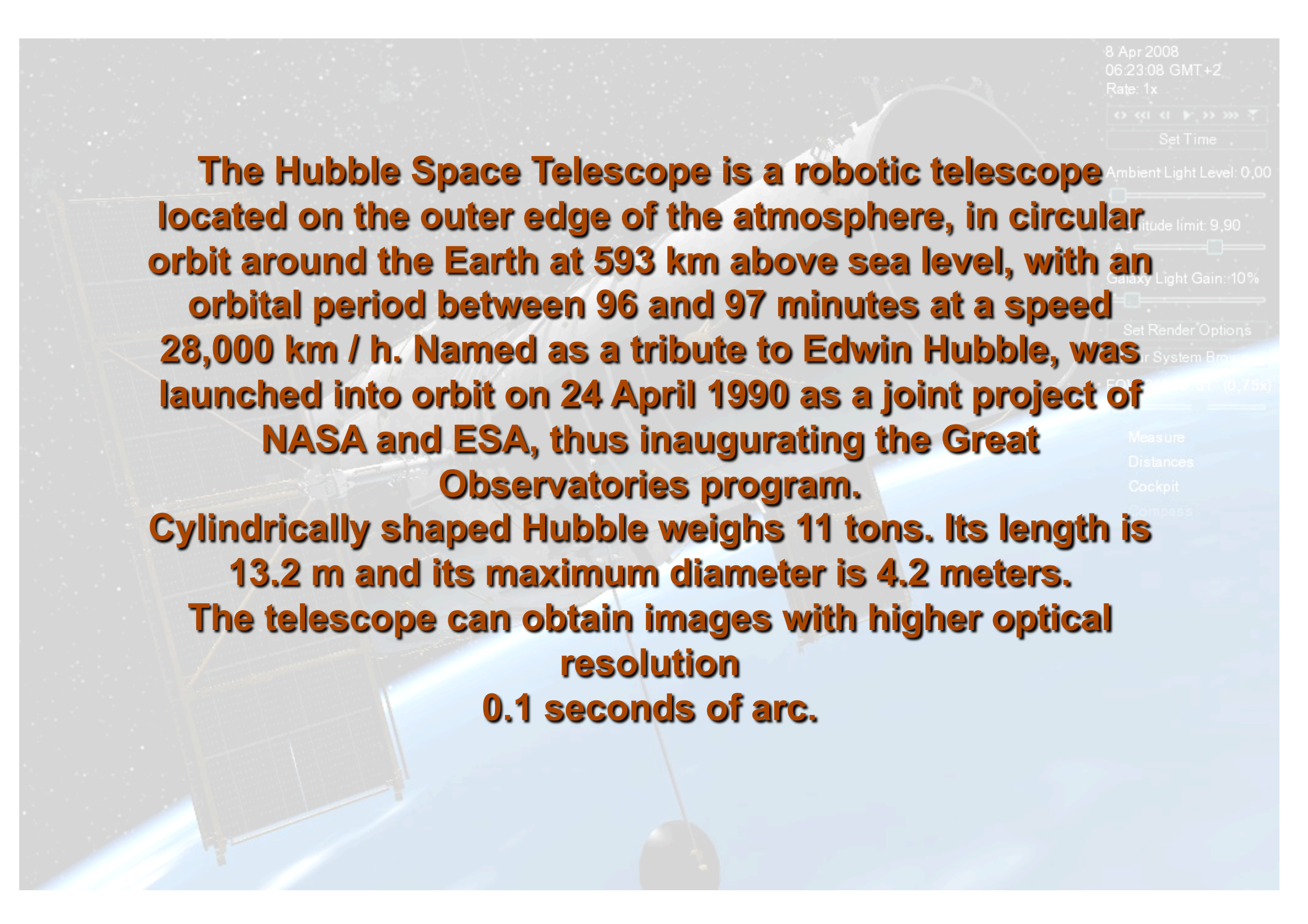


Measure

Distances

Cockpit

Compass



**The Hubble Space Telescope is a robotic telescope located on the outer edge of the atmosphere, in circular orbit around the Earth at 593 km above sea level, with an orbital period between 96 and 97 minutes at a speed 28,000 km / h. Named as a tribute to Edwin Hubble, was launched into orbit on 24 April 1990 as a joint project of NASA and ESA, thus inaugurating the Great Observatories program.**

**Cylindrically shaped Hubble weighs 11 tons. Its length is 13.2 m and its maximum diameter is 4.2 meters. The telescope can obtain images with higher optical resolution 0.1 seconds of arc.**

# ISS-C

Distancia: 66,963 m  
Radio: 30,000 m  
Diámetro aparente: 36° 02' 44,8"  
Phase angle: 6,7°  
Duración del día: 1,529 horas  
Temperatura: 274 K

13 Sep 2008  
13:14:31 GMT+2  
Rate: 1x

Navigation: <> << < > >> >>>

Set Time

Ambient Light Level: 0,05

AutoMag at 45°: 9,00

Galaxy Light Gain: 10%

Set Render Options

Solar System Browser

FOV: 31° 59' 60" (0,80x)

Measure   
Distances   
Cockpit   
Compass



## The International Space Station

Velocidad: 0,00000 m/s

Seguir ISS-C  
Campo visual: 31° 59' 60,0"

**View from inside the ship**



# Hubble





***First we see the Galaxy Hat, also called M 104 in the Messier catalog, distance of about 28 million light-years it is considered the best photograph taken by Hubble***



***Now the famous nebula MZ3, called Fourmi, between 3000 and 6000 light years***



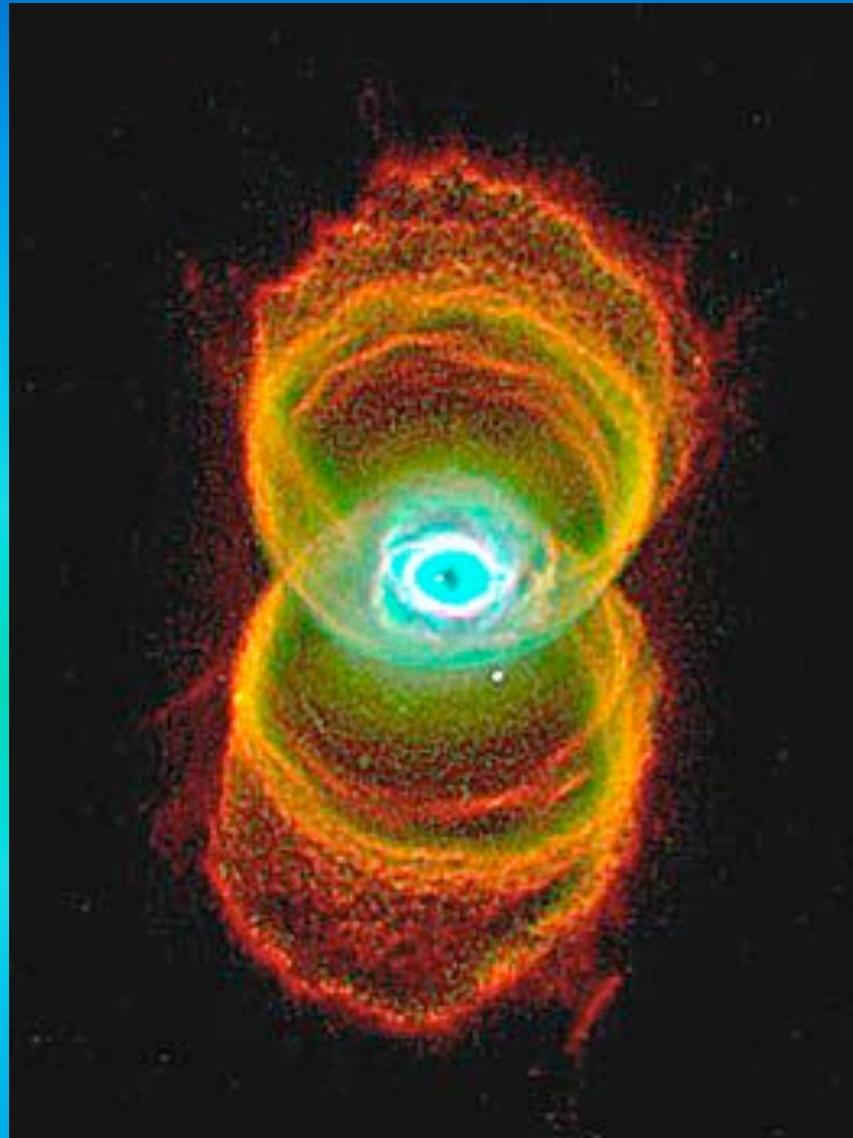


*Third is the Eskimo Nebula NGC 2392 located 5000 light years*

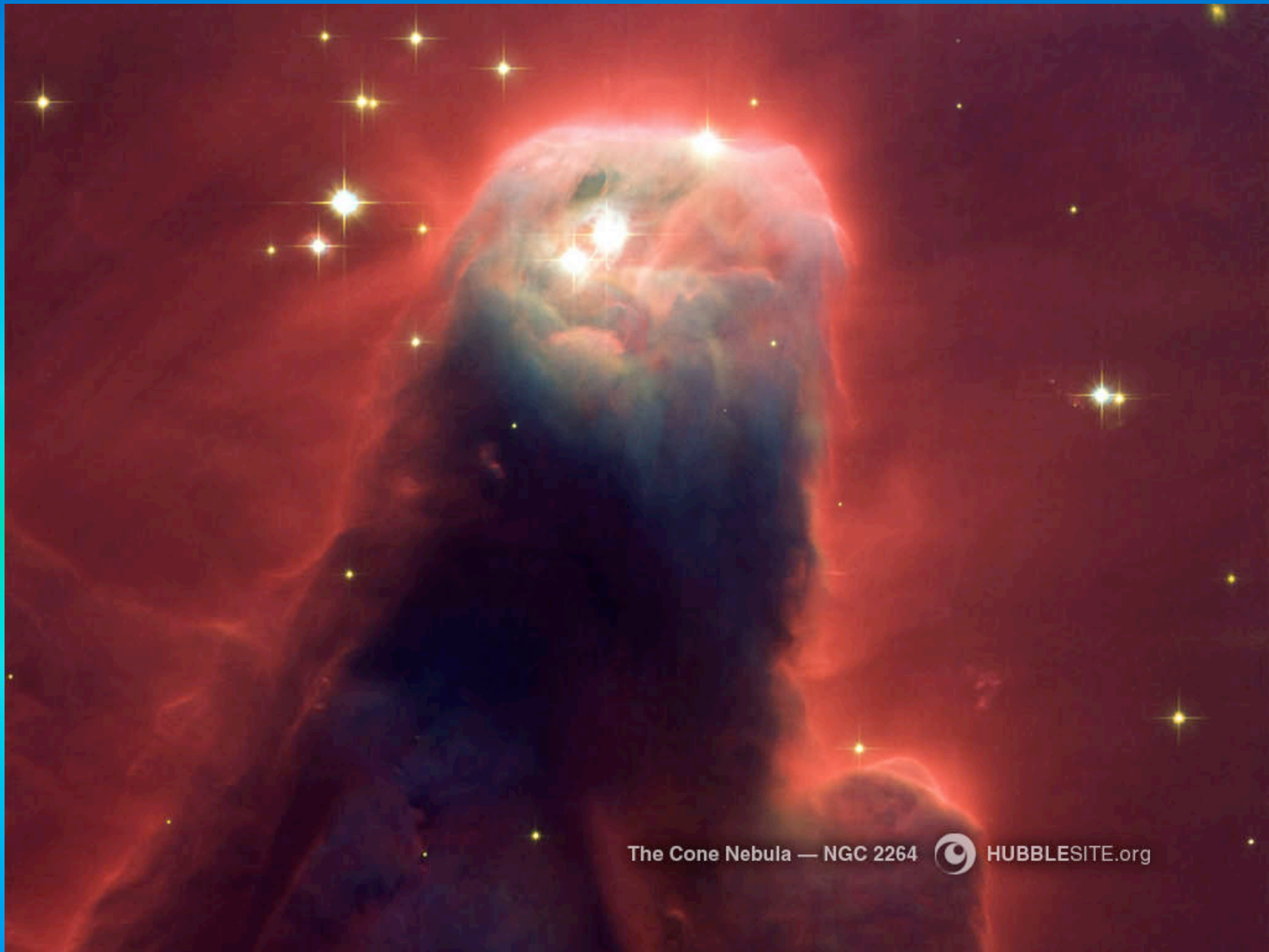


The Cat's Eye Nebula — NGC 6543  HUBBLESITE.org

*Fourth, we can recognize the impressive Nebula  
Cat's Eye*



*Fifth, here is the Hourglass Nebula located 8000 light years away, a beautiful nebula with a narrowing in its central part.*



The Cone Nebula — NGC 2264  HUBBLESITE.org

*In sixth place we see the Cone Nebula, 2.5 light-years*



*Seventh, we find a fragment of the Swan Nebula, located at 5500 light years away, described as "a bubbling ocean of hydrogen with small amounts of oxygen, sulfur and other elements"*



*Eighth, a beautiful picture called "Starry Night"*



*In ninth place, two swirling galaxies, the NGC 2207 and IC 2163 located 114 million light-years.*



*Tenth, we see a fragment of the Trifid Nebula, a stellar cradle to 9000 light-years.*



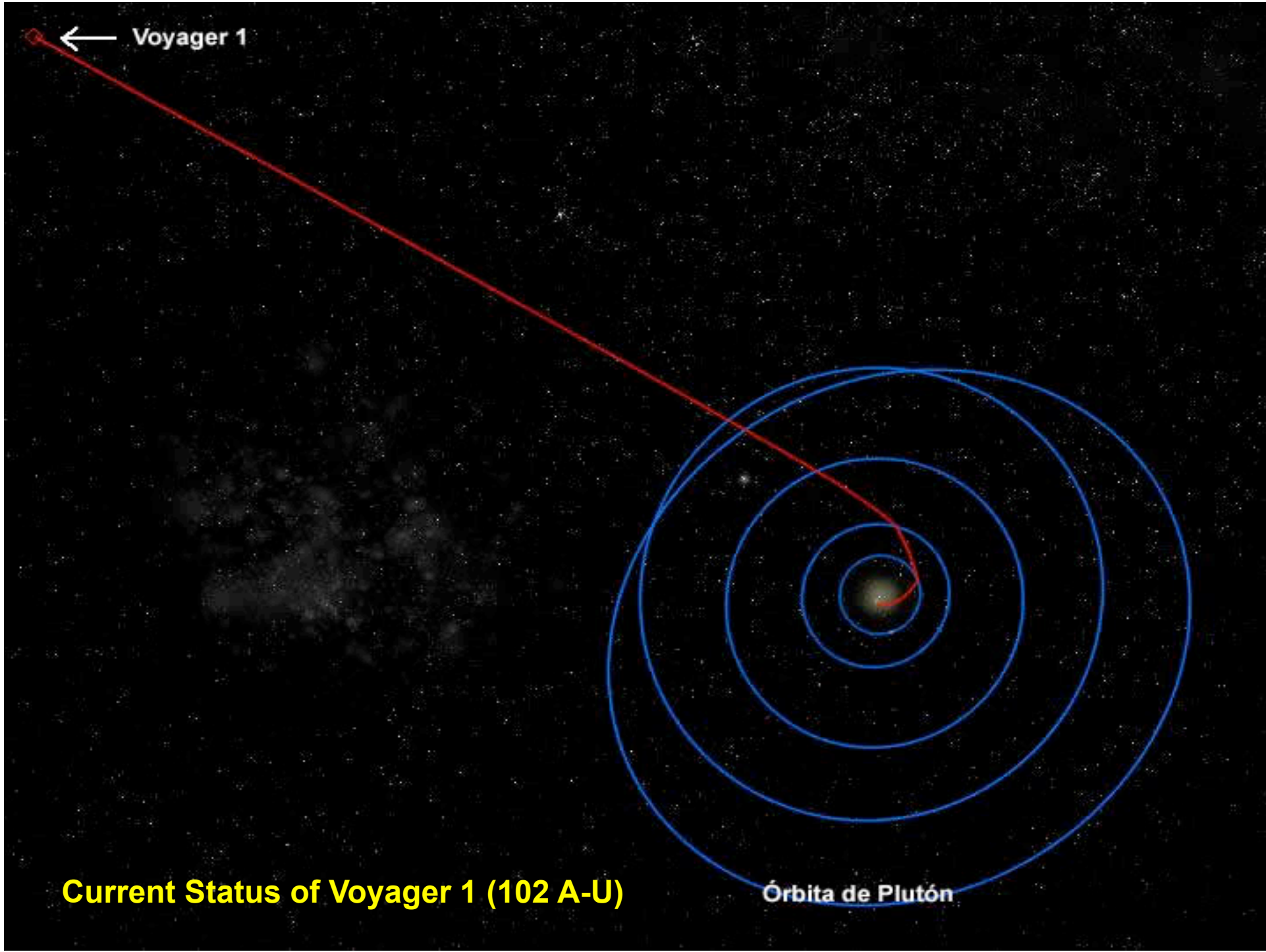
# More pictures from Hubble



**Voyager 1**

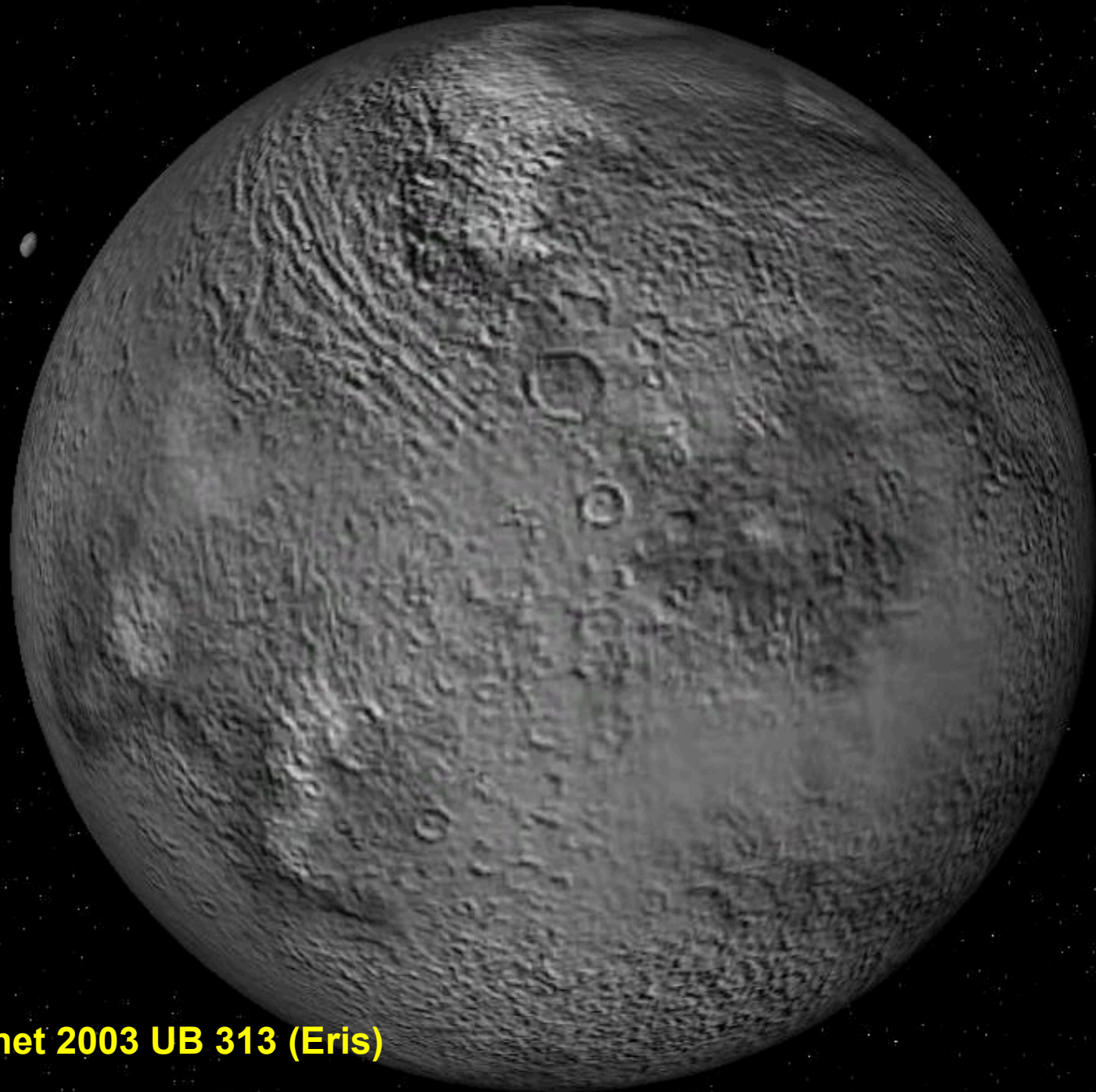


← Voyager 1



**Current Status of Voyager 1 (102 A-U)**

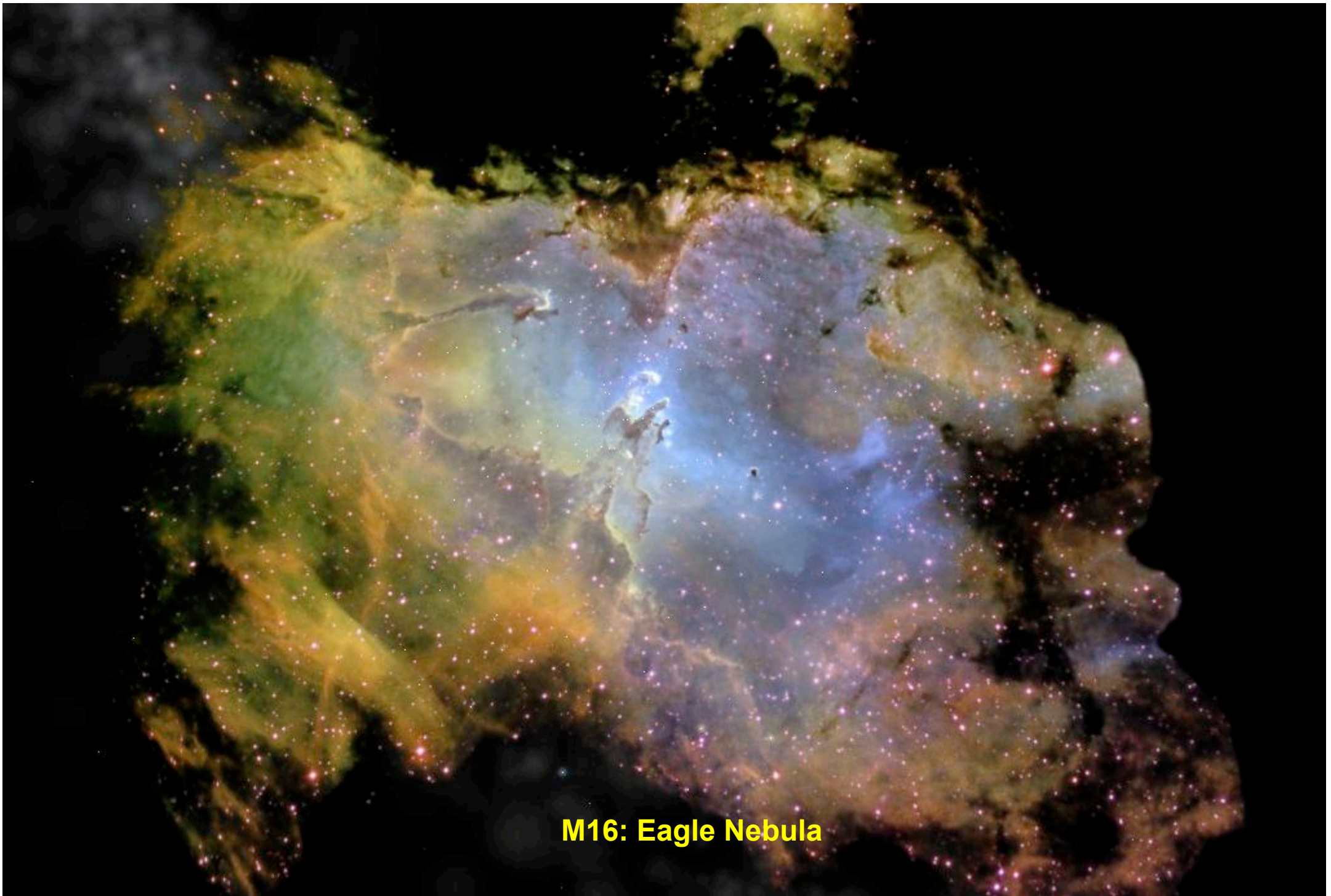
Órbita de Plutón



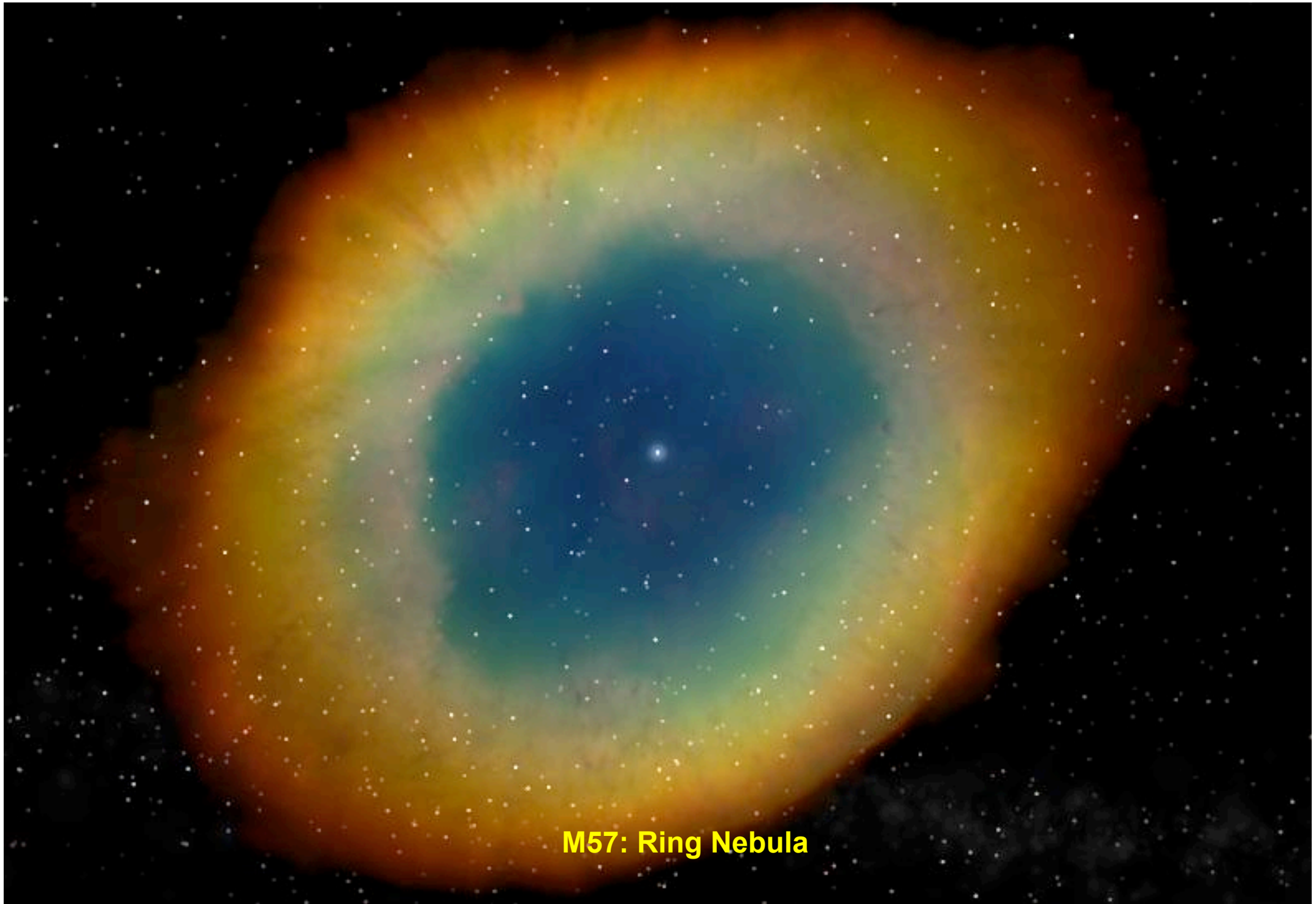
**The dwarf planet 2003 UB 313 (Eris)**



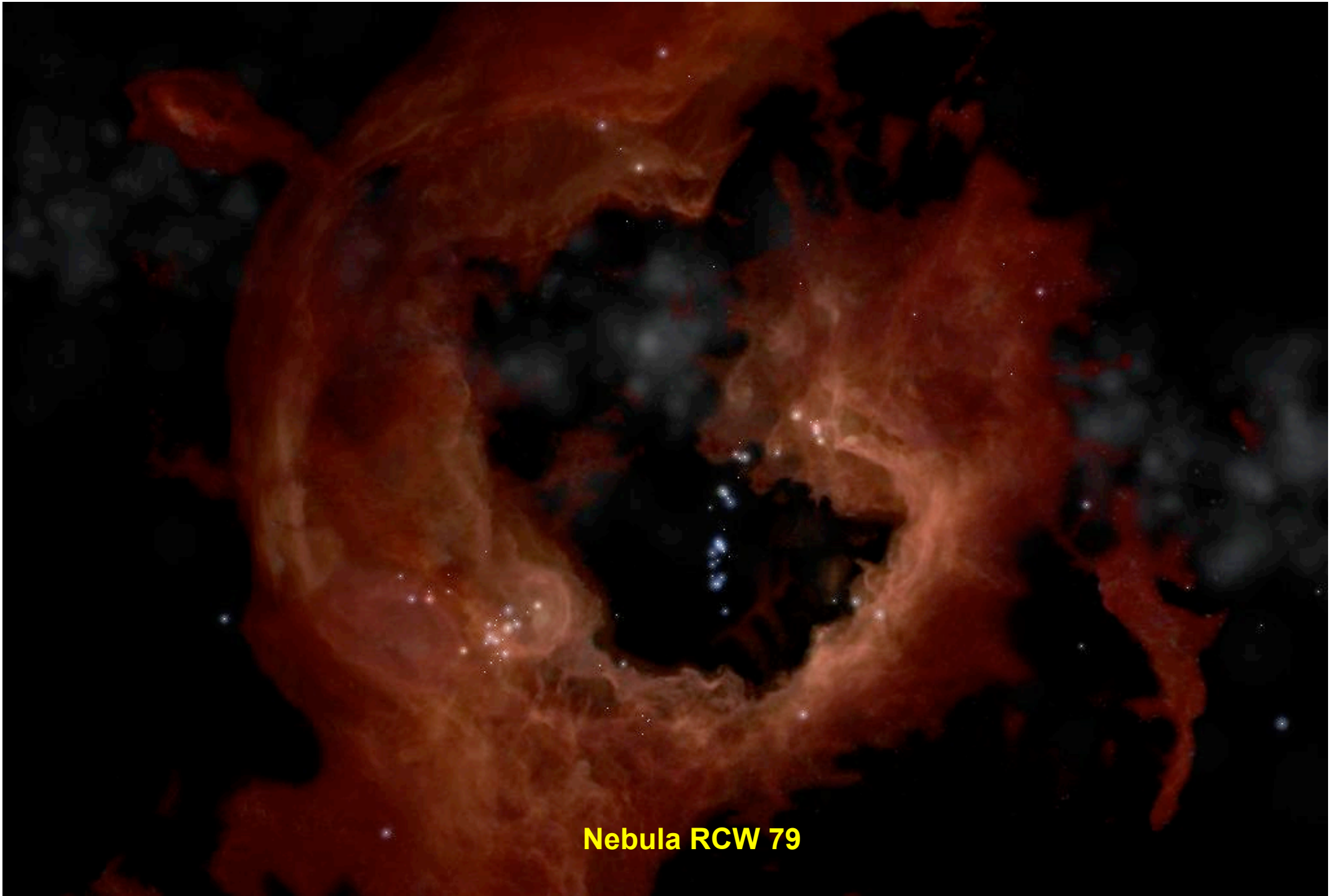
Comet Halley



**M16: Eagle Nebula**

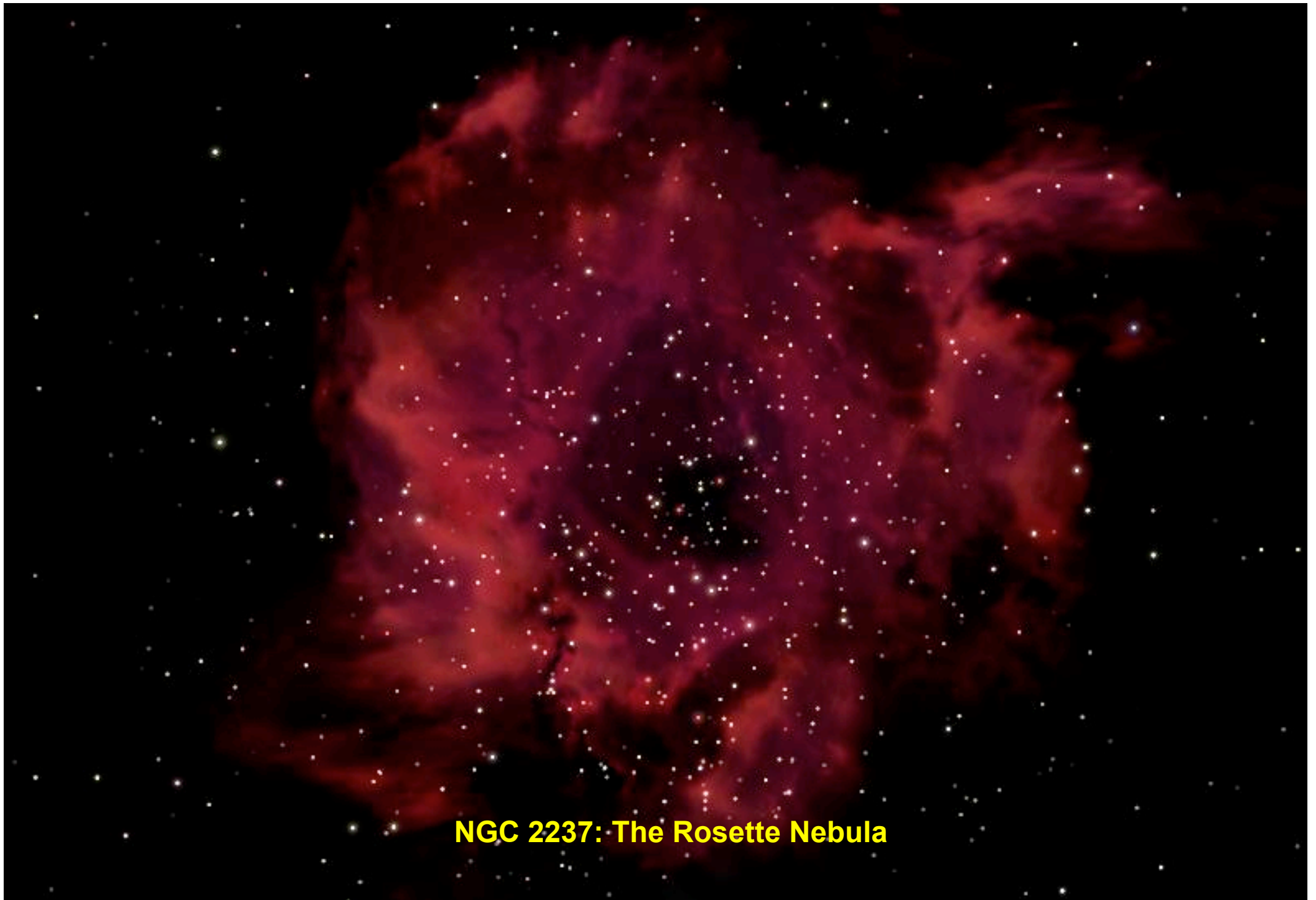


**M57: Ring Nebula**



**Nebula RCW 79**





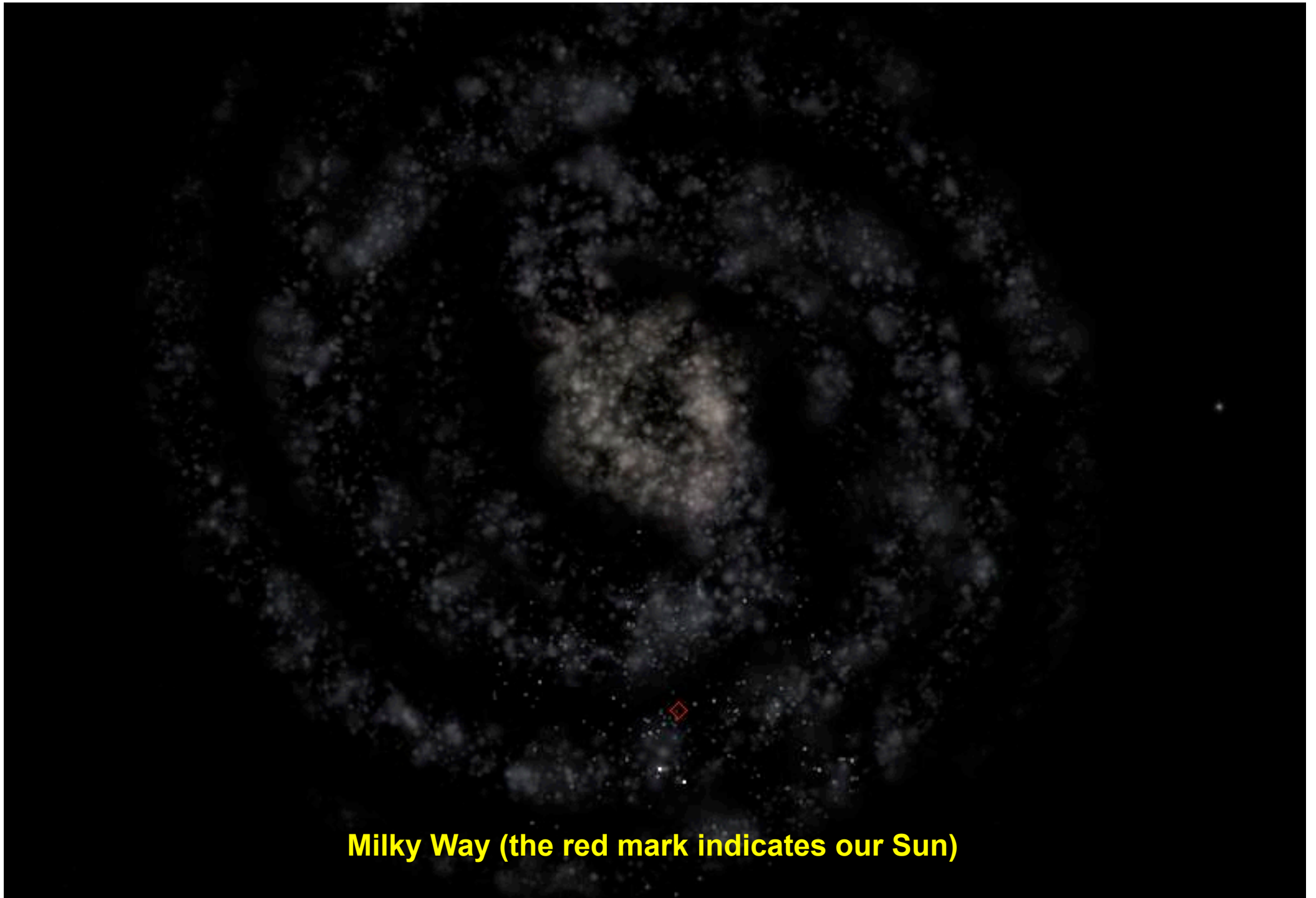
**NGC 2237: The Rosette Nebula**



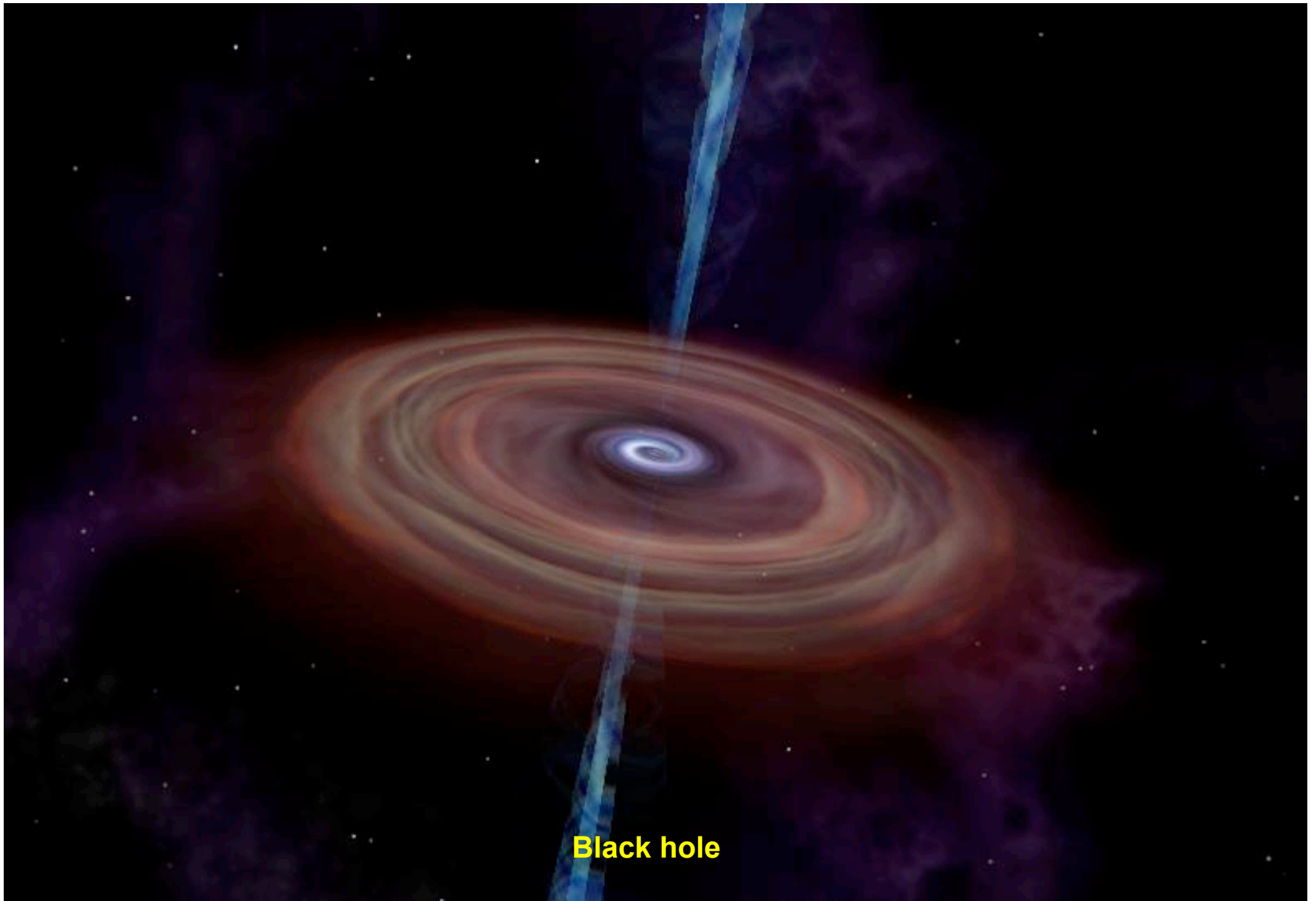
**M42: Orion Nebula**



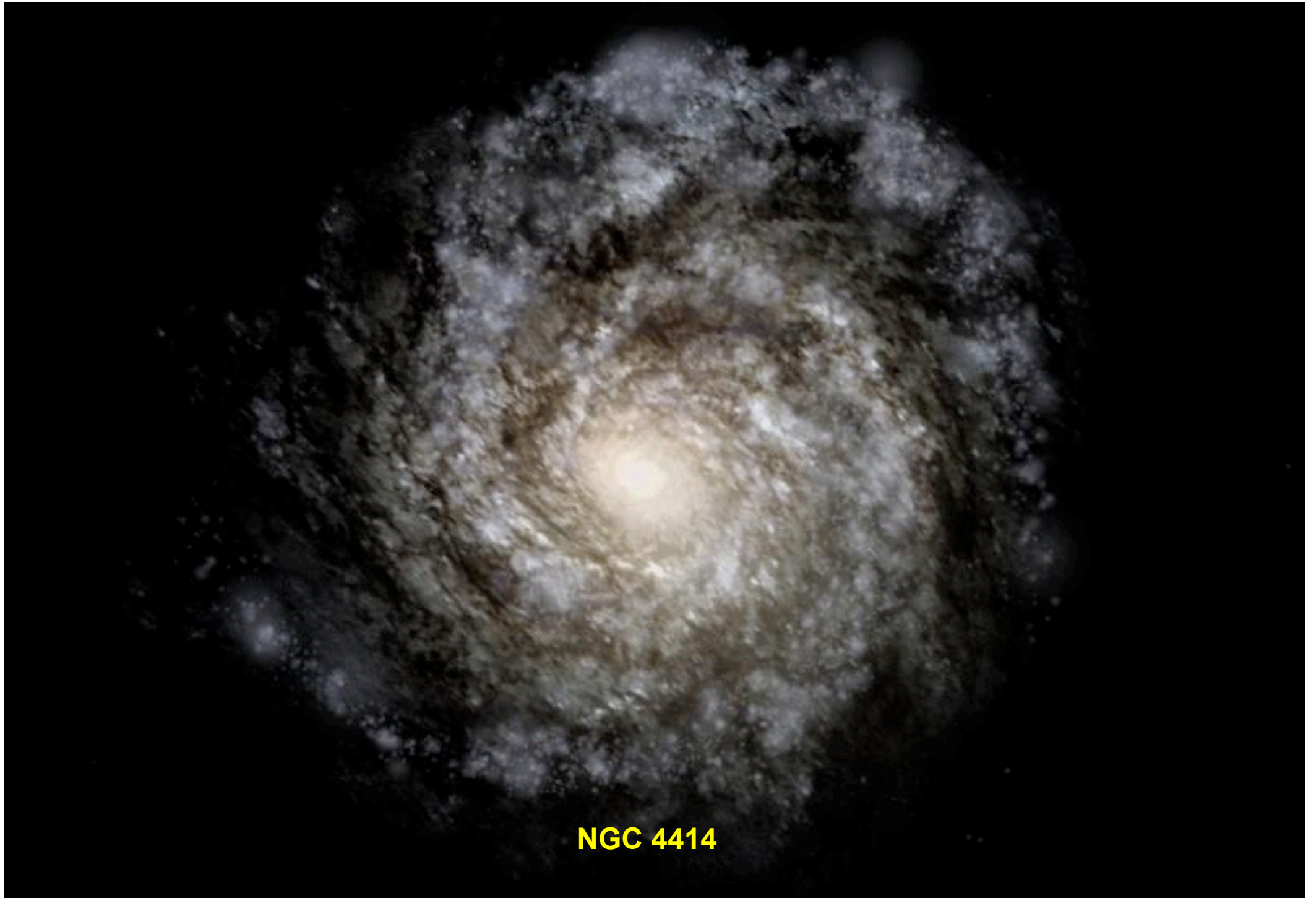
**Proto-star**



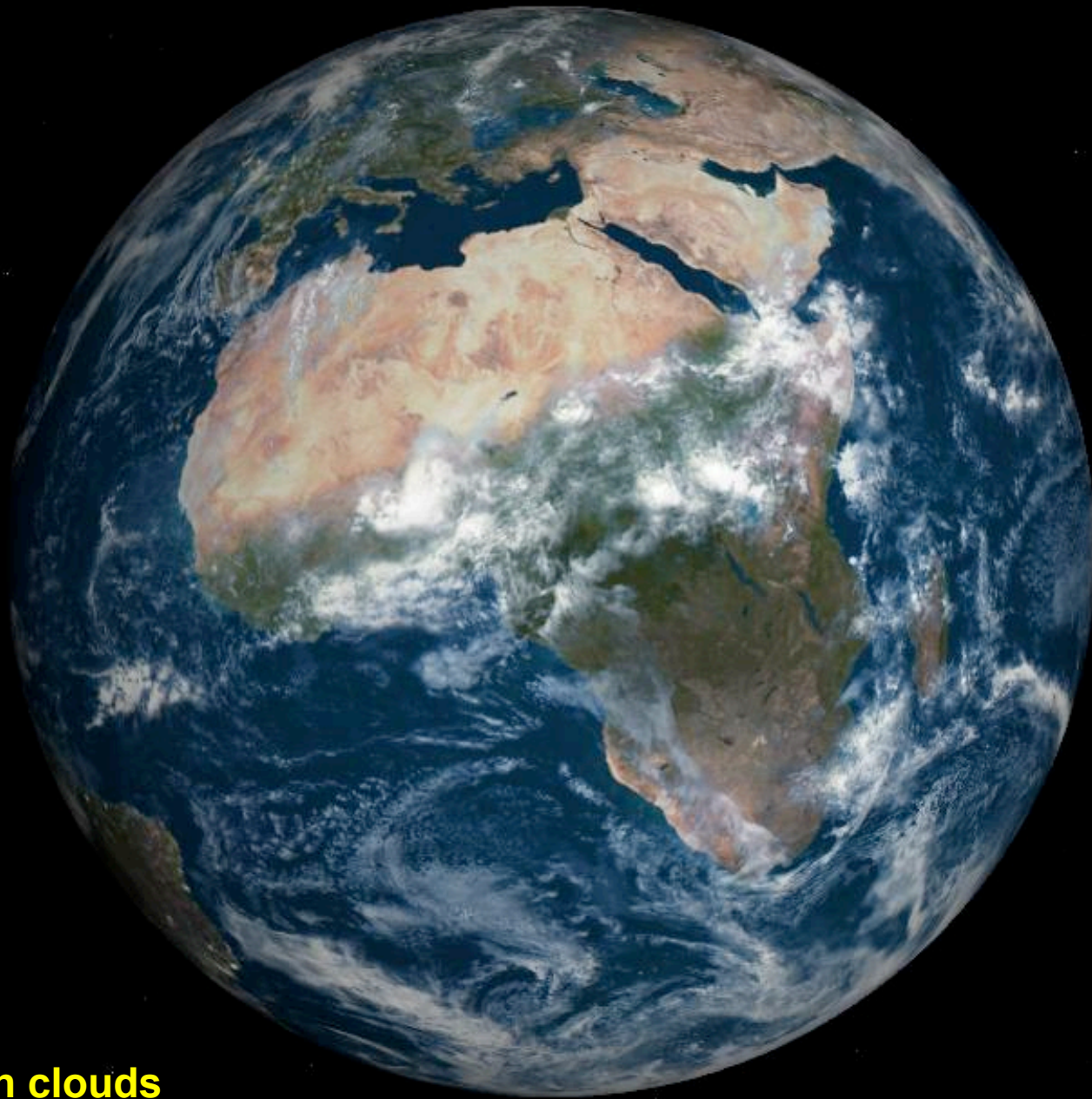
**Milky Way (the red mark indicates our Sun)**



**Black hole**



**NGC 4414**



**Earth with clouds**



**Earth without clouds**





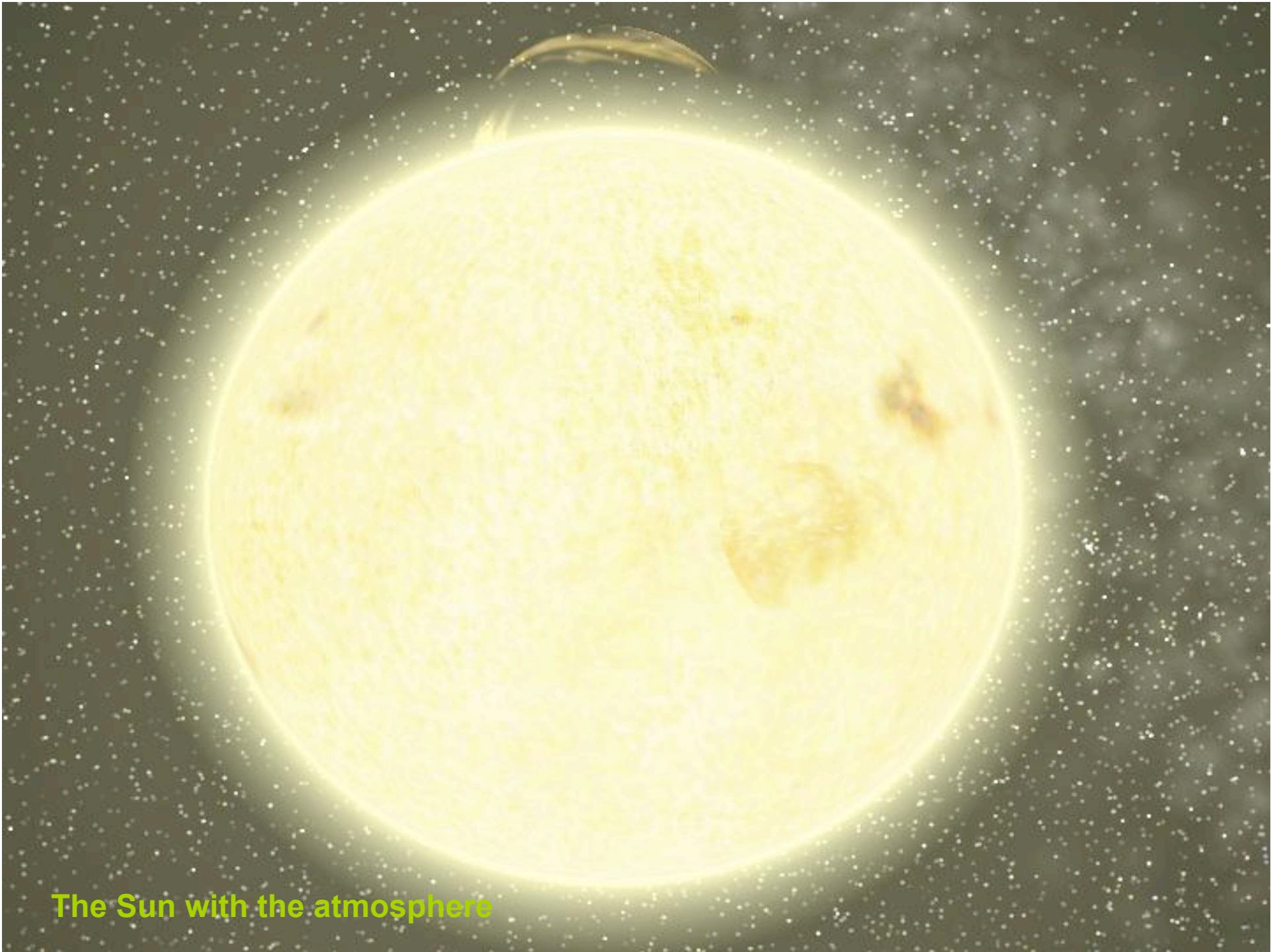
**The Earth with the moon rising**



**The Earth with the New Moon**



**The Earth with the Full Moon**



The Sun with the atmosphere



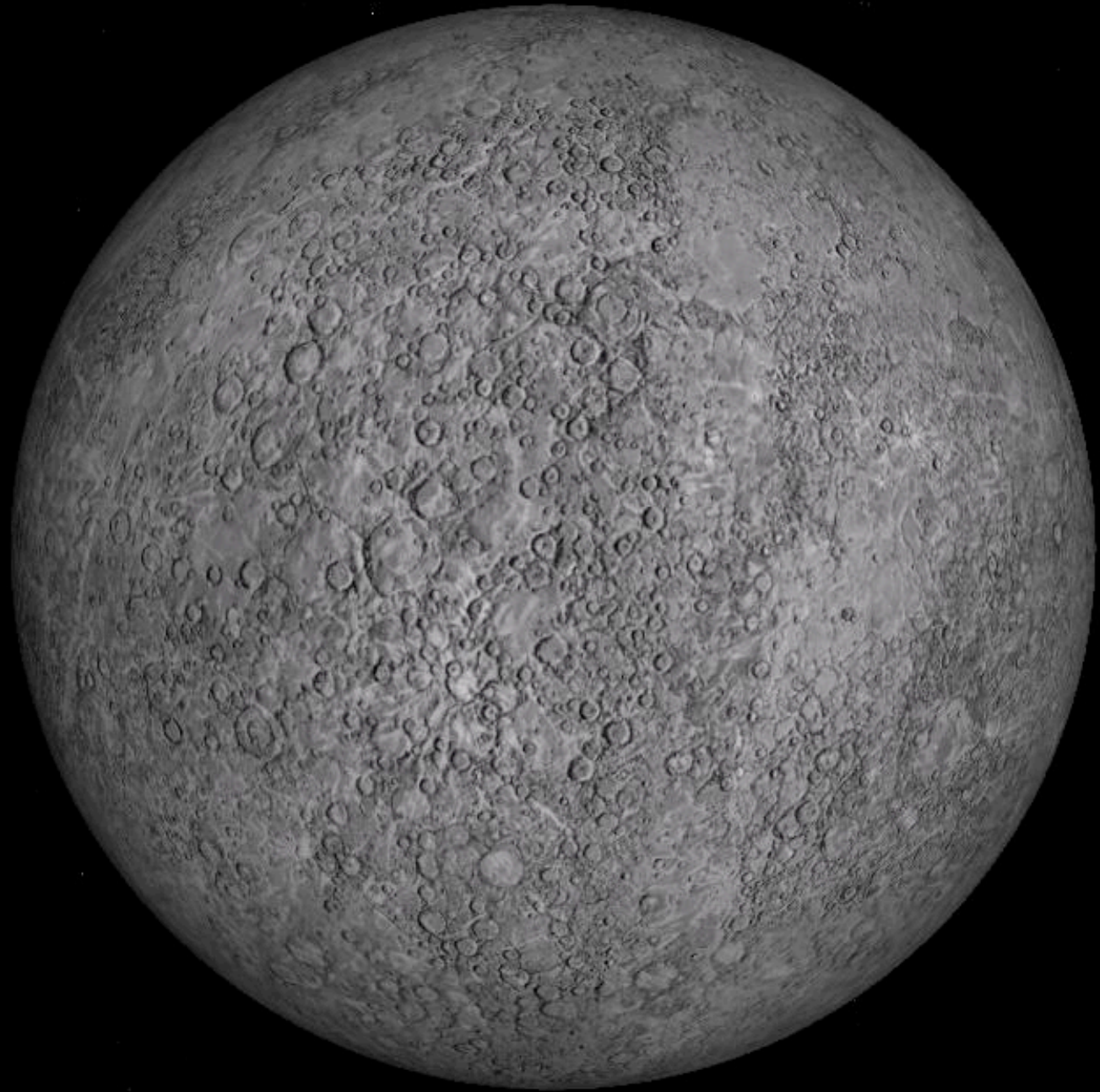
Atmosphere without the sun



**Venus cloudless**

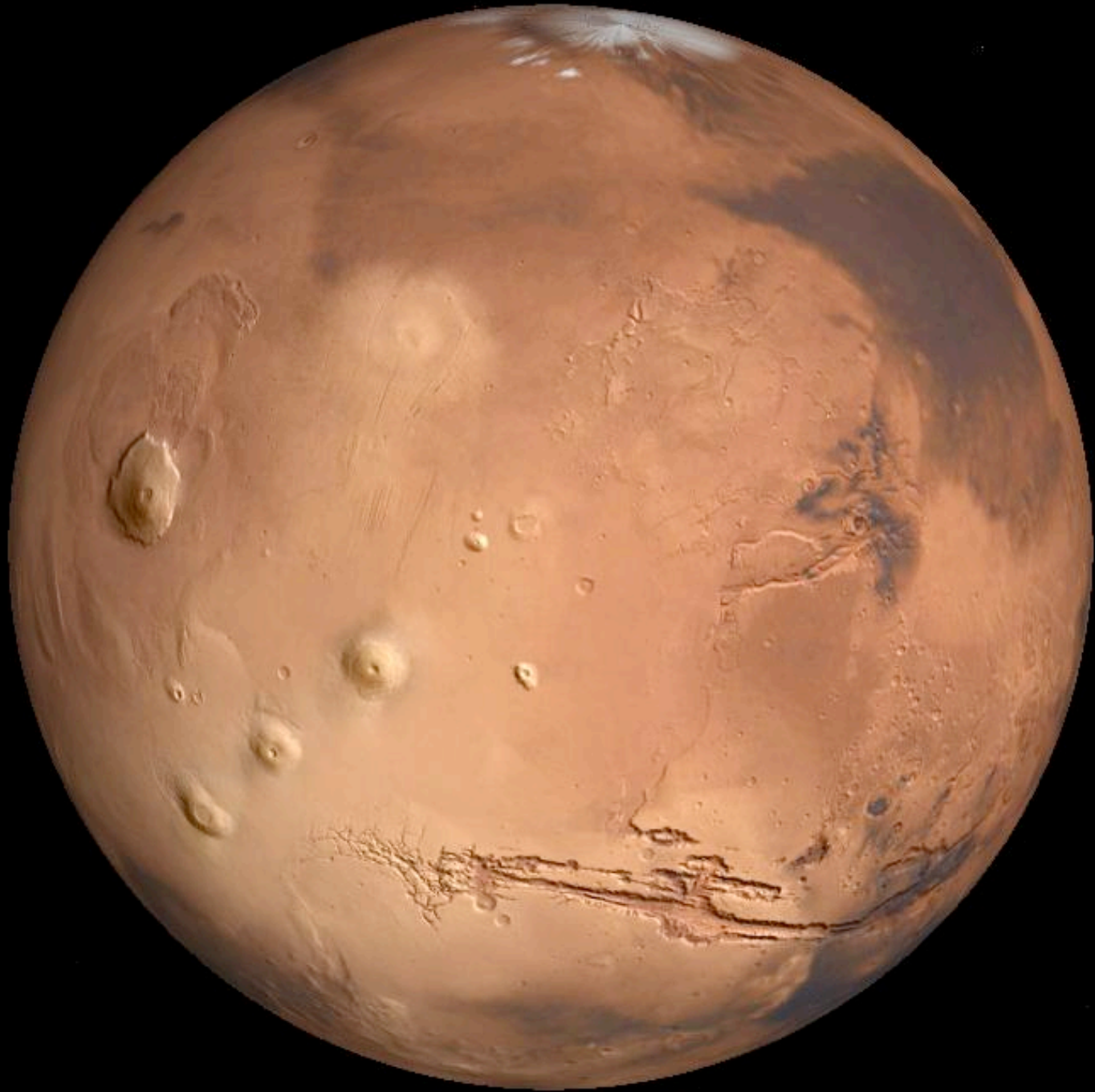


**Venus with clouds**

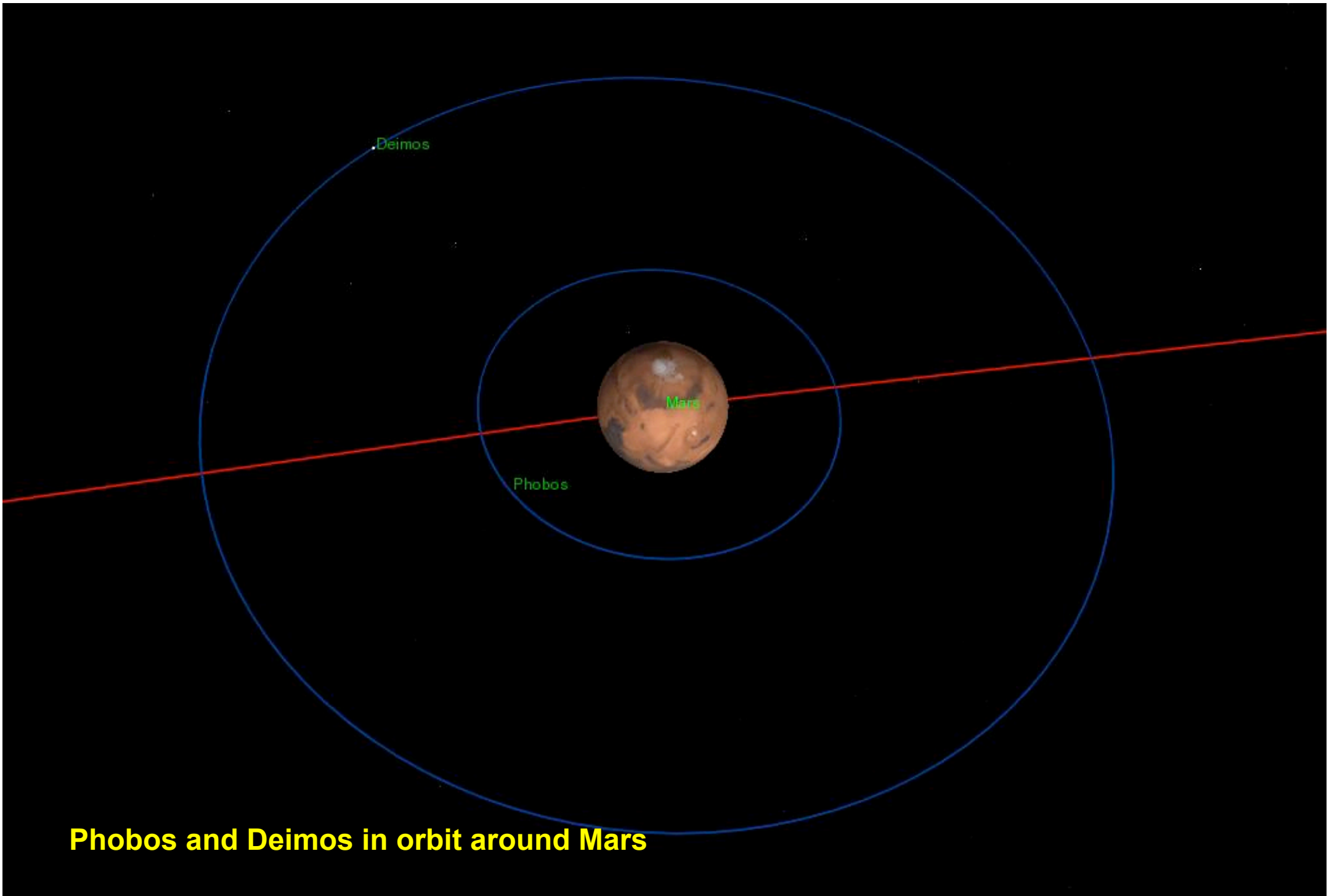


**Mercury**





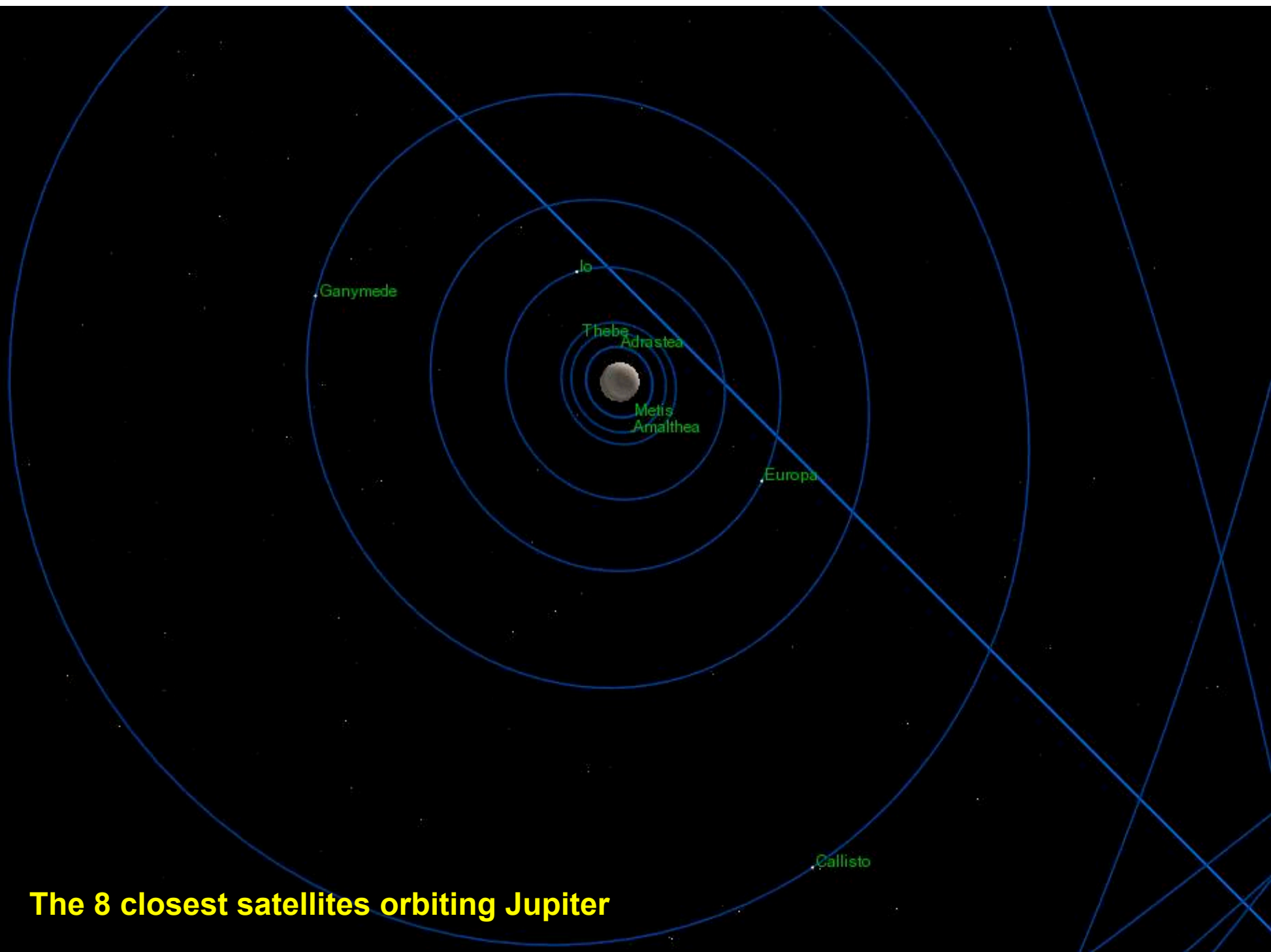
**Mars**



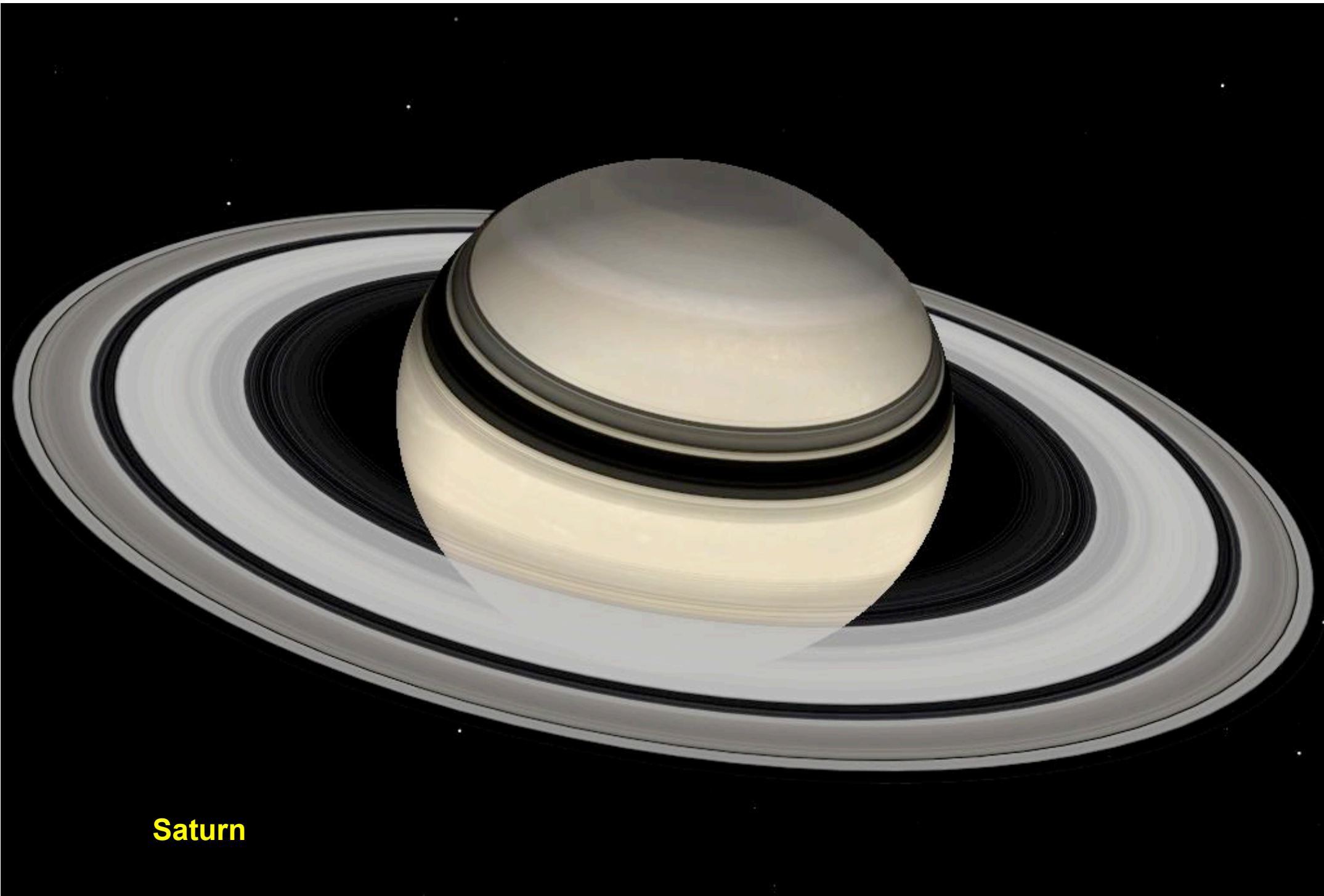
**Phobos and Deimos in orbit around Mars**



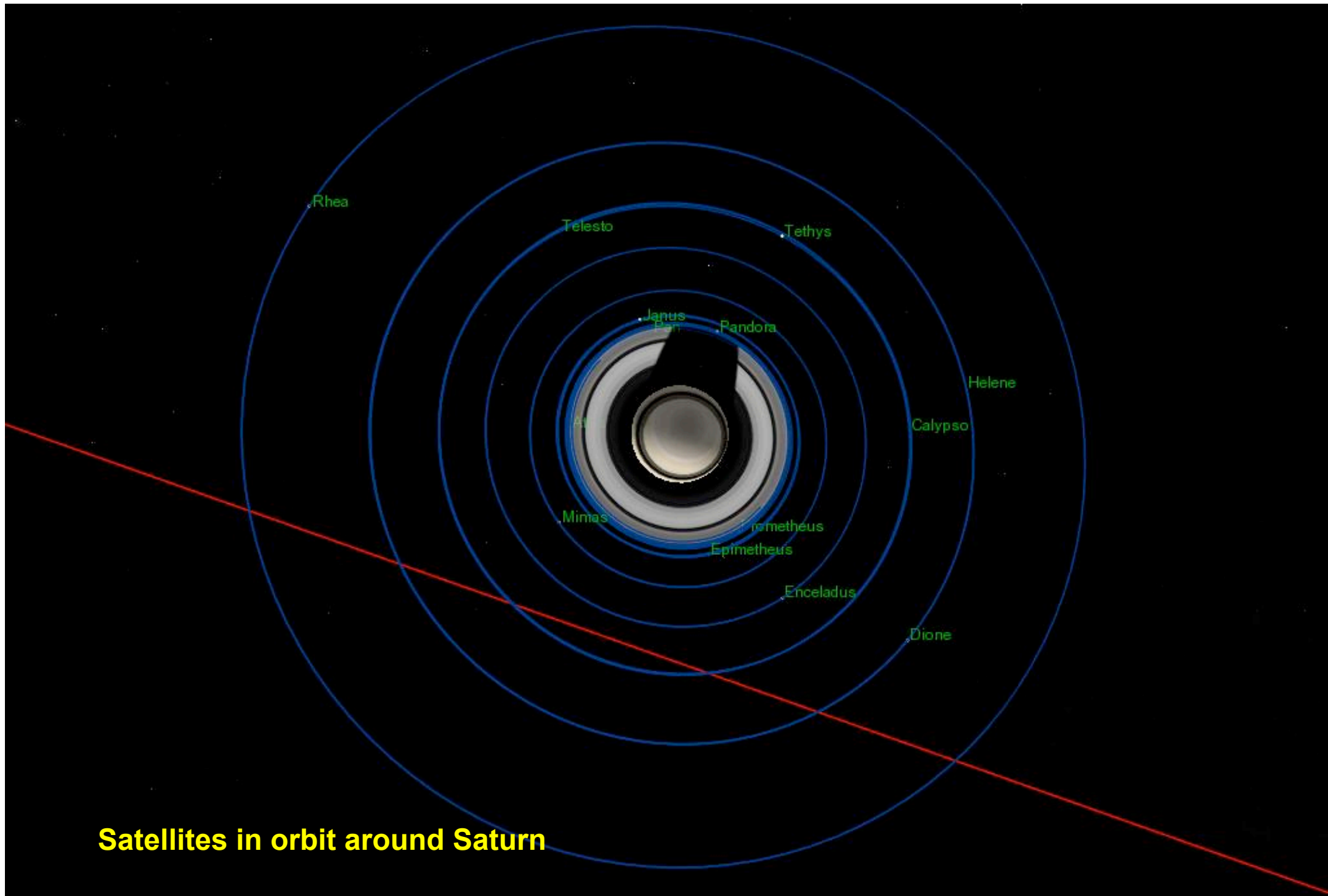
**Jupiter**



**The 8 closest satellites orbiting Jupiter**



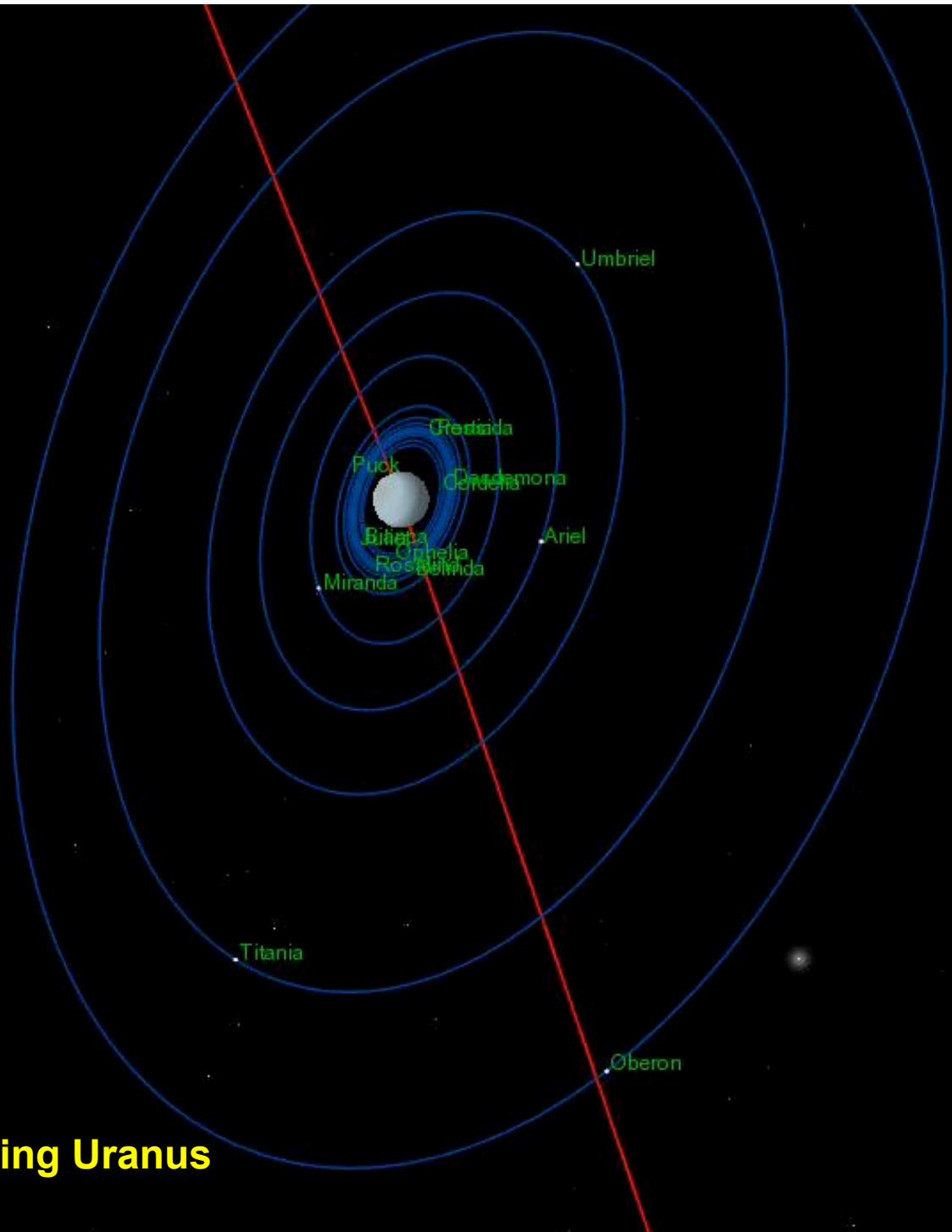
**Saturn**



**Satellites in orbit around Saturn**

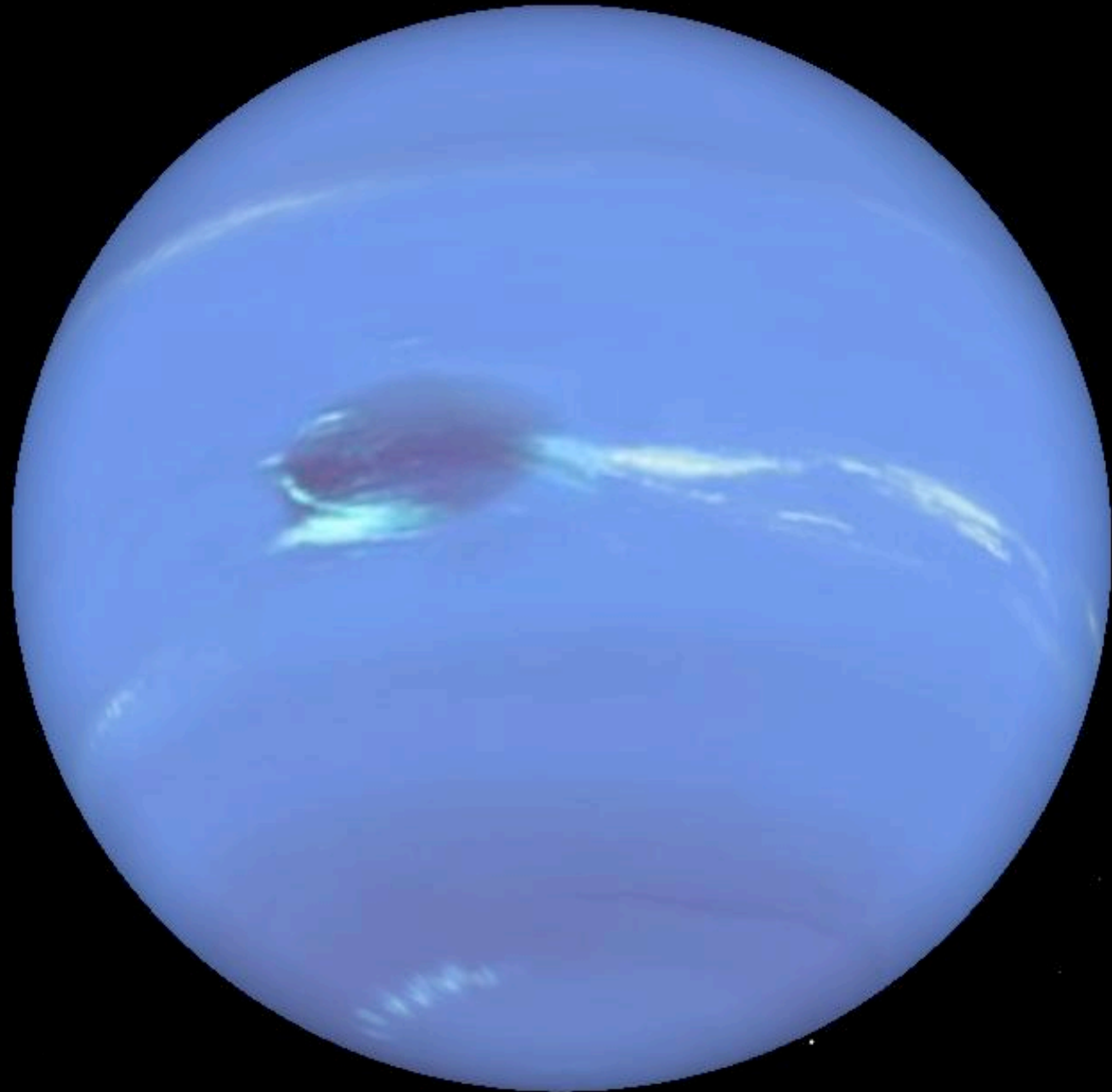


**Uranus**

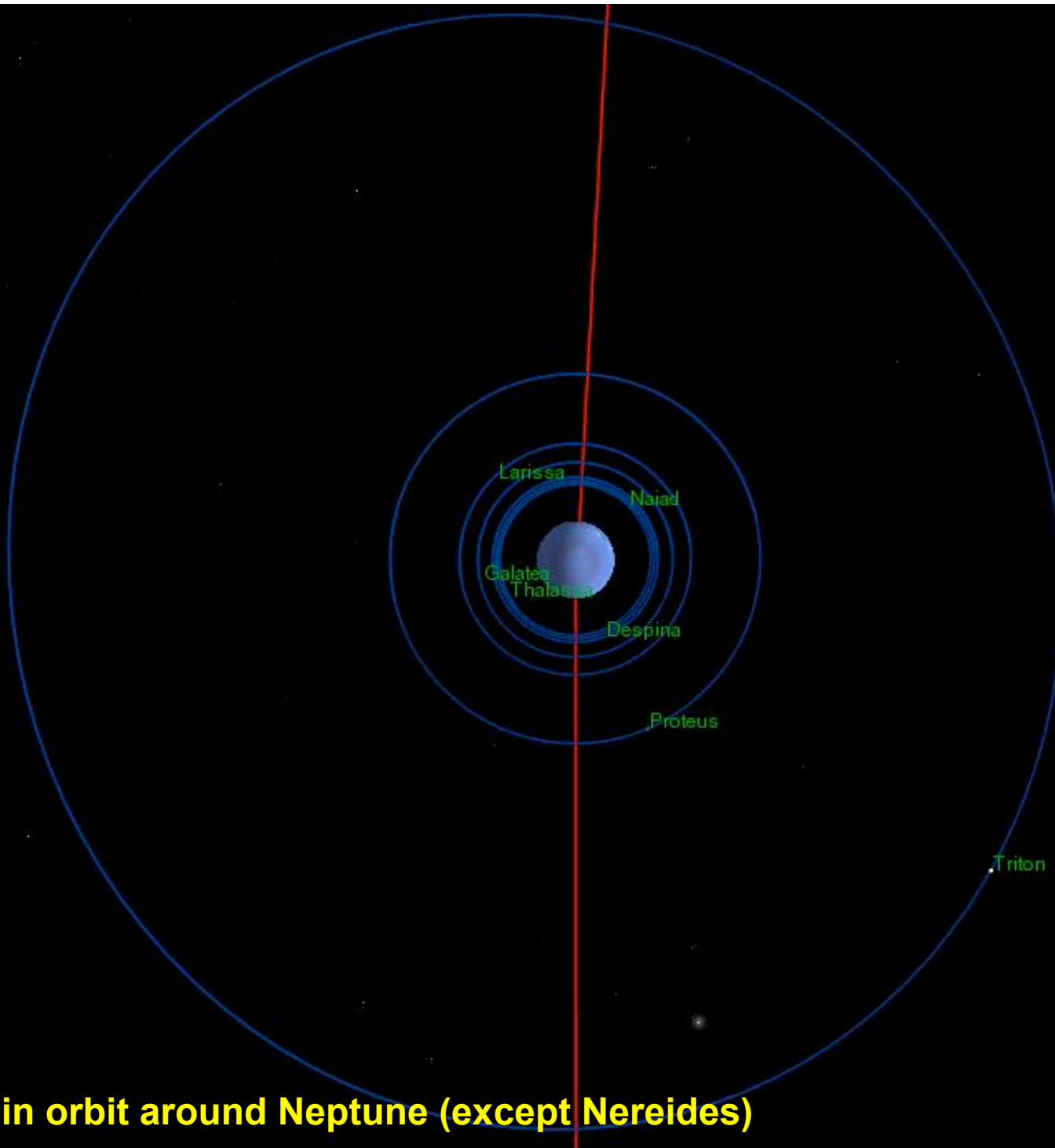


**Satellites orbiting Uranus**

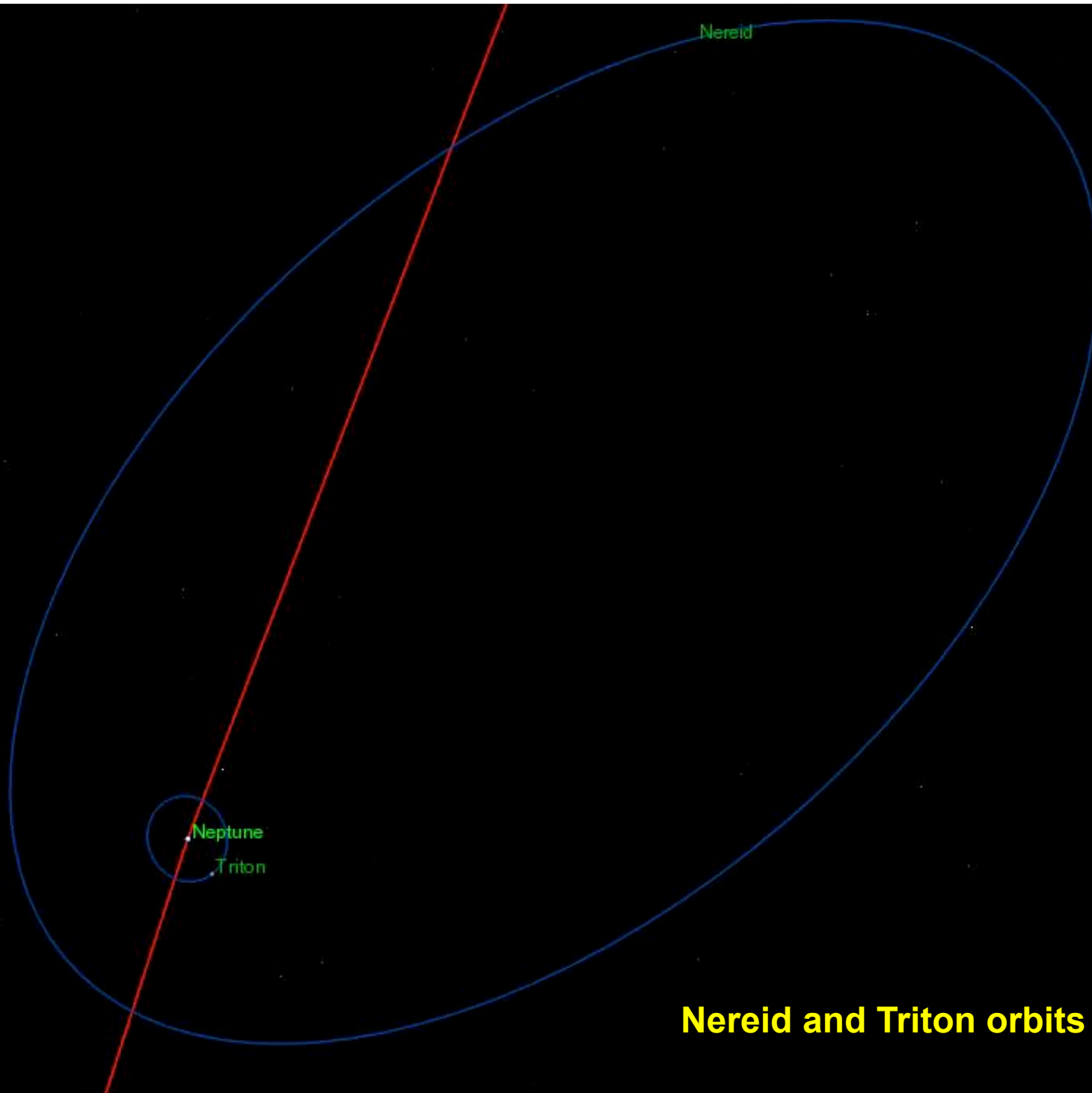




Neptune



**Satellites in orbit around Neptune (except Nereides)**



**Nereid and Triton orbits Neptune**



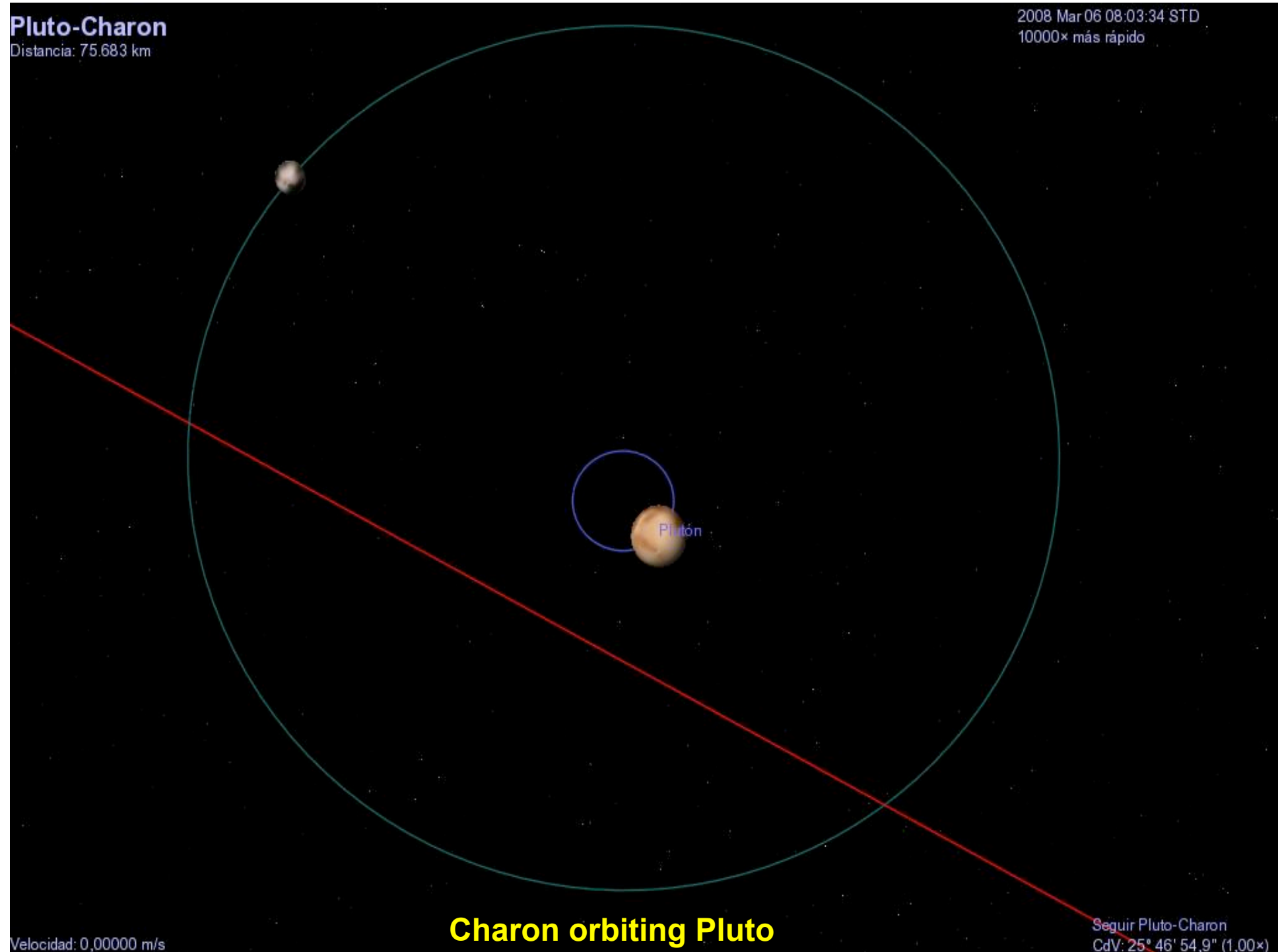
**Pluto**

# Pluto-Charon

Distancia: 75.683 km

2008 Mar 06 08:03:34 STD

10000× más rápido



Velocidad: 0,00000 m/s


**Charon orbiting Pluto**

Seguir Pluto-Charon

CdV: 25° 46' 54,9" (1,00×)



**The Milky Way**



**The words are useless when we are confronted with such monuments  
of light and color.**

**We can meet with the Eagle Nebula or M16 in the constellation Serpens  
is a window in the middle of the starry night. On the inside, clusters of  
young stars are in the process of creation, creating a wonderful  
spectacle of gaseous emissions.**

# *The End*

*Who knows ... I'm sure not.*

*Thème musical: BO de "Blade Runner"*

*LMG*

*Décembre 2008*