

Full Moon !



and



the



Planets



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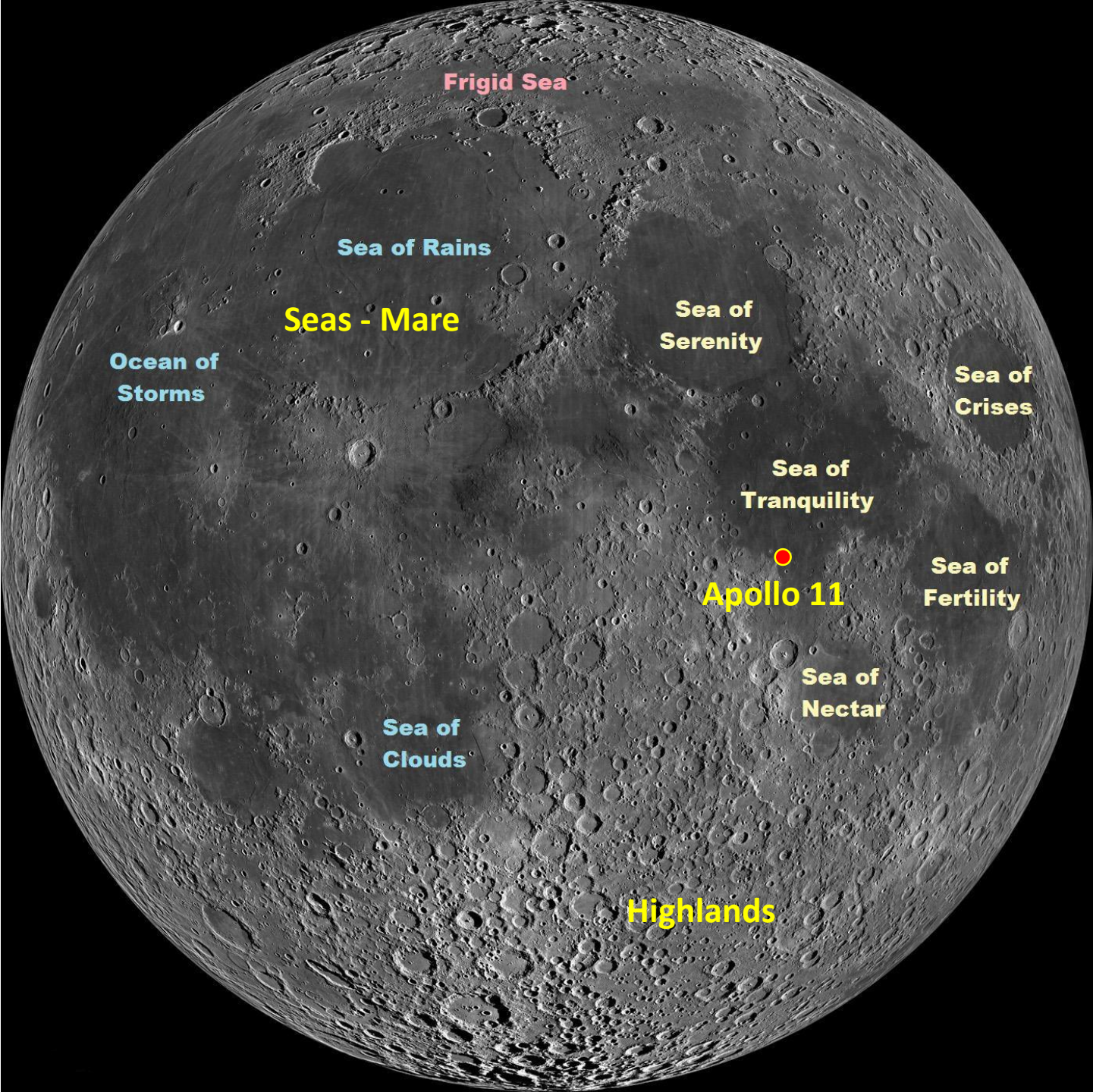


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Frigid Sea

Sea of Rains

Seas - Mare

Ocean of Storms

Sea of Serenity

Sea of Crises

Sea of Tranquility

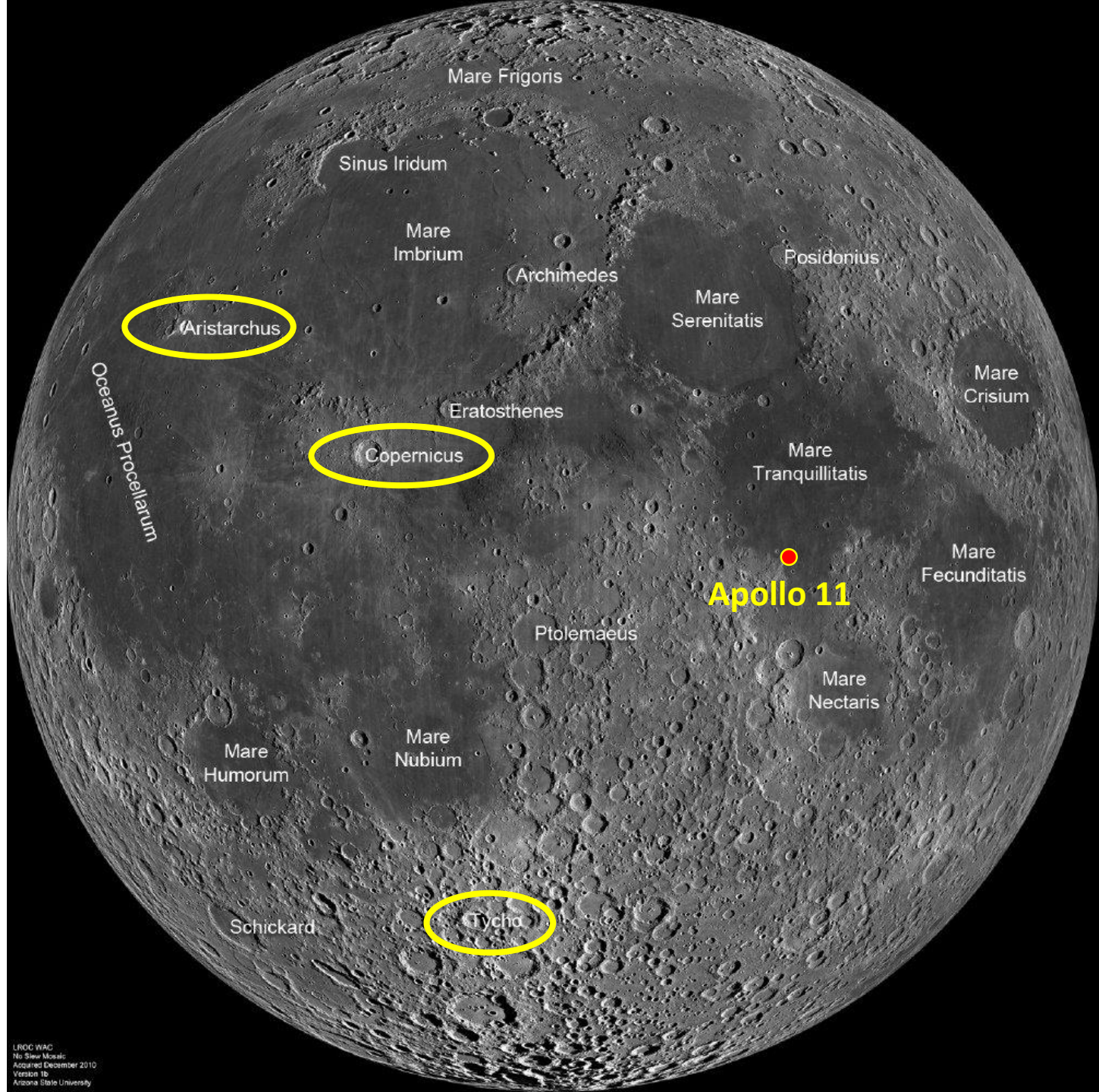
Apollo 11

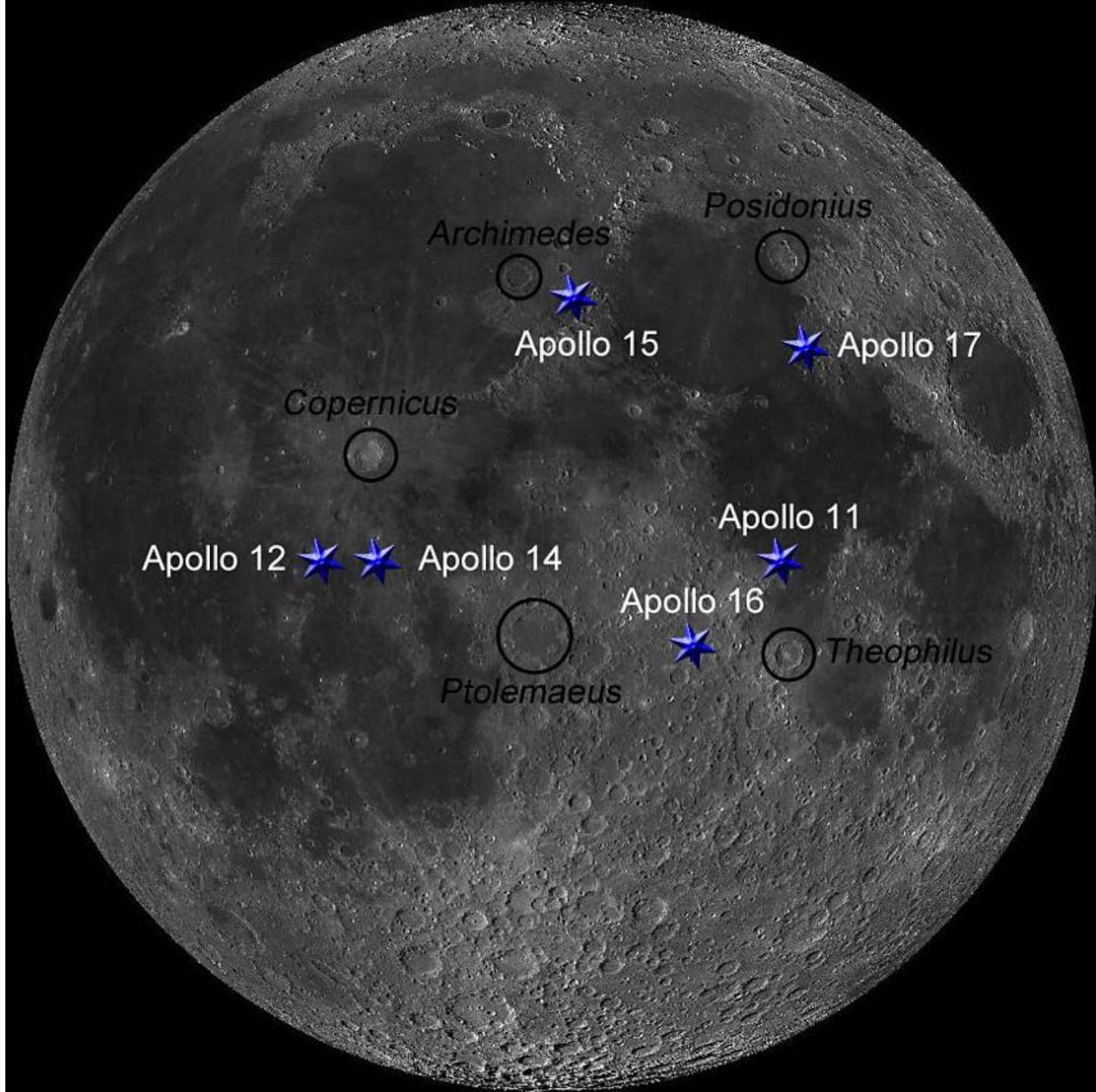
Sea of Fertility

Sea of Nectar

Sea of Clouds

Highlands





Archimedes

Posidonius

Apollo 15

Apollo 17

Copernicus

Apollo 11

Apollo 12

Apollo 14

Apollo 14

Apollo 16

Ptolemaeus

Theophilus

Phases of the Moon

Waxing
Gibbous
Moon



First
Quarter
Half
Moon



Waxing
Crescent
Moon



Aug. 18



Aug. 26

Full Moon



Aug. 11
Sept. 9



New
Moon



Sept. 3

Waning
Gibbous
Moon

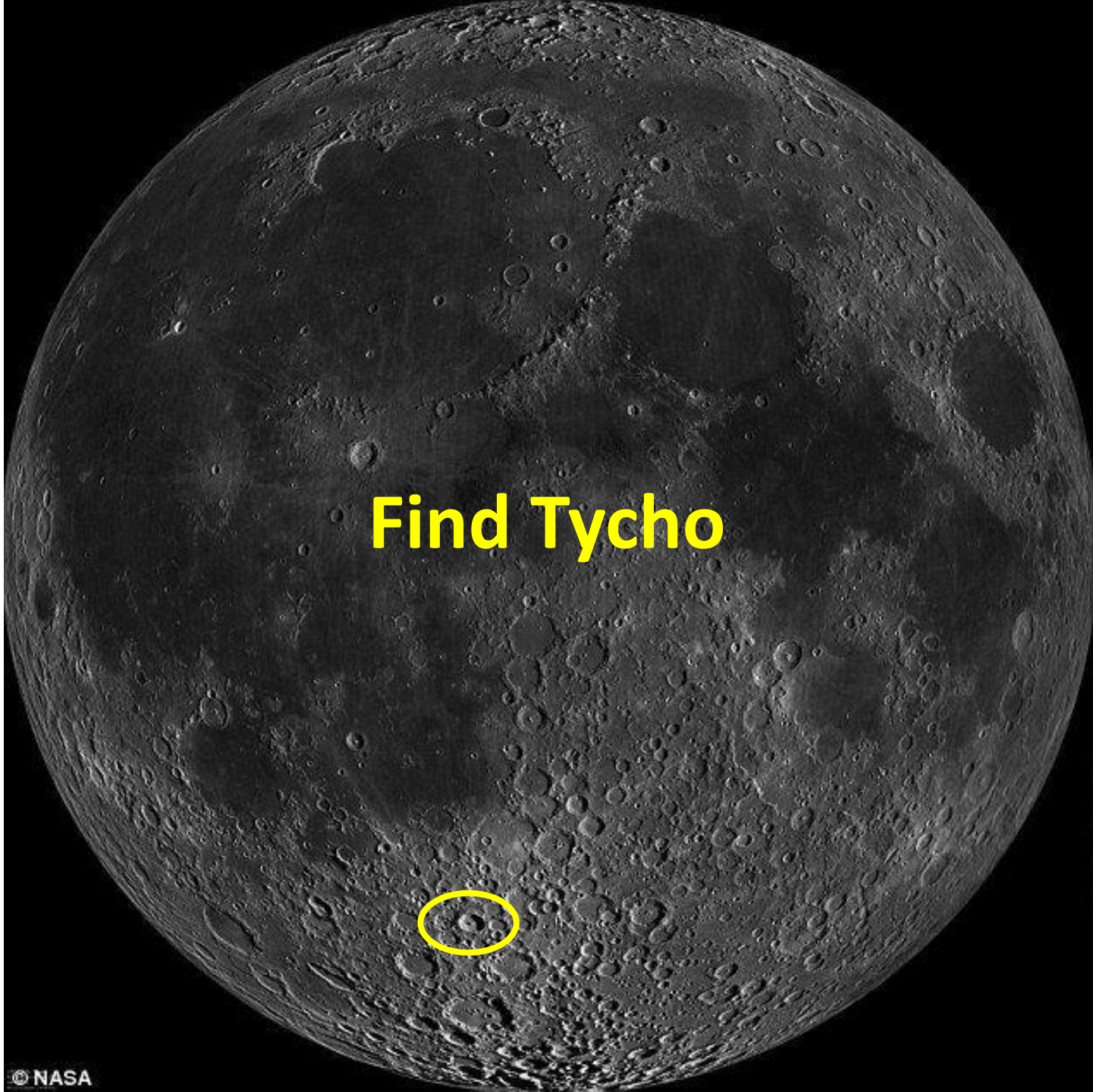


Three
Quarter
Half
Moon

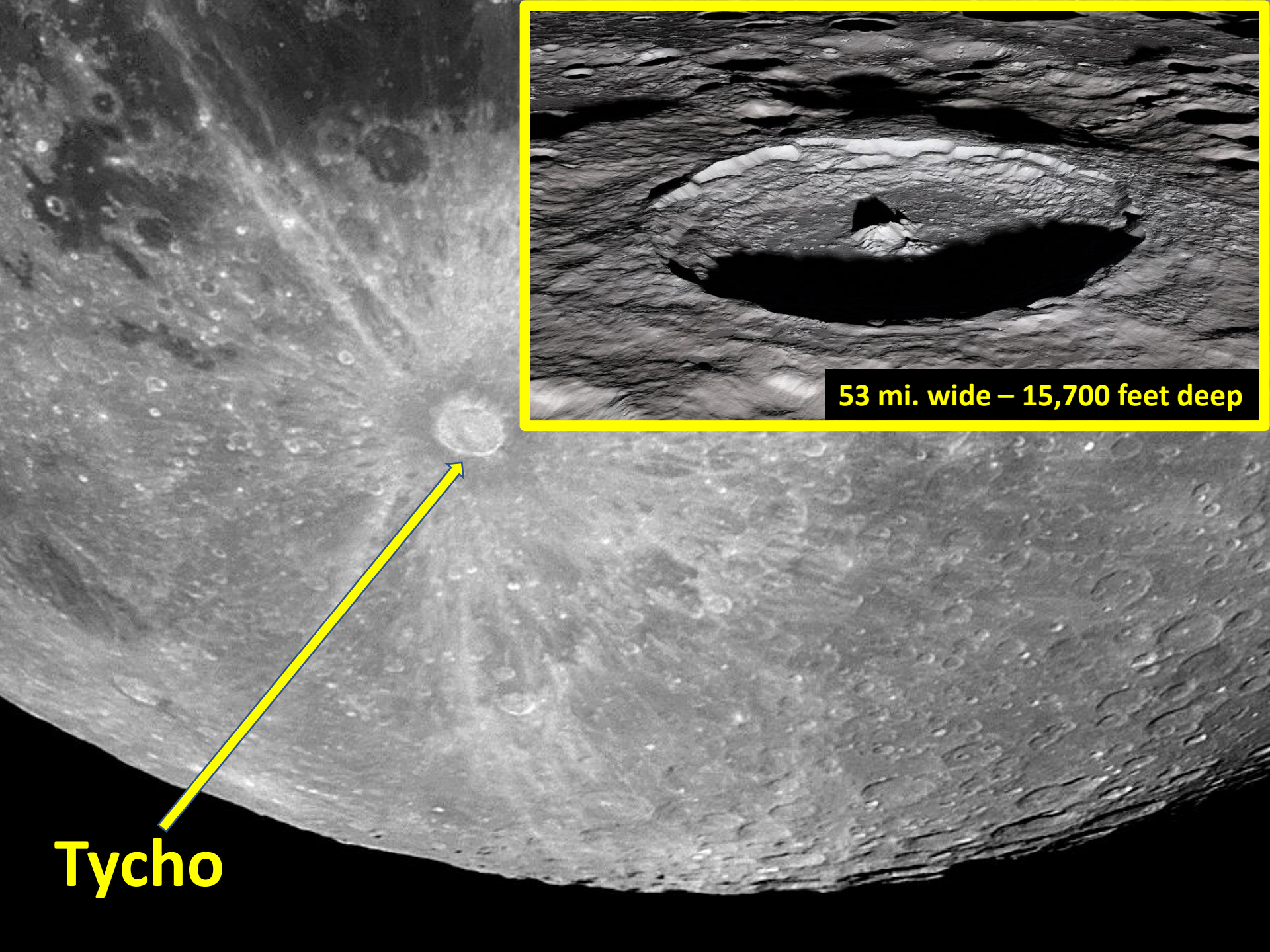


Waning
Crescent
Moon

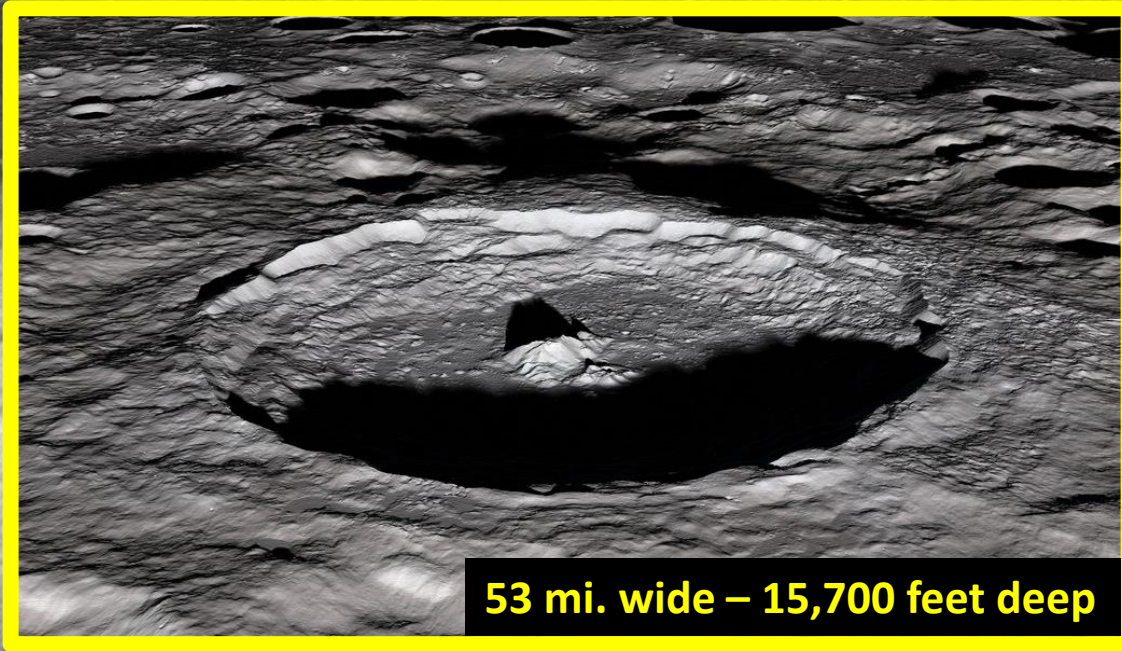




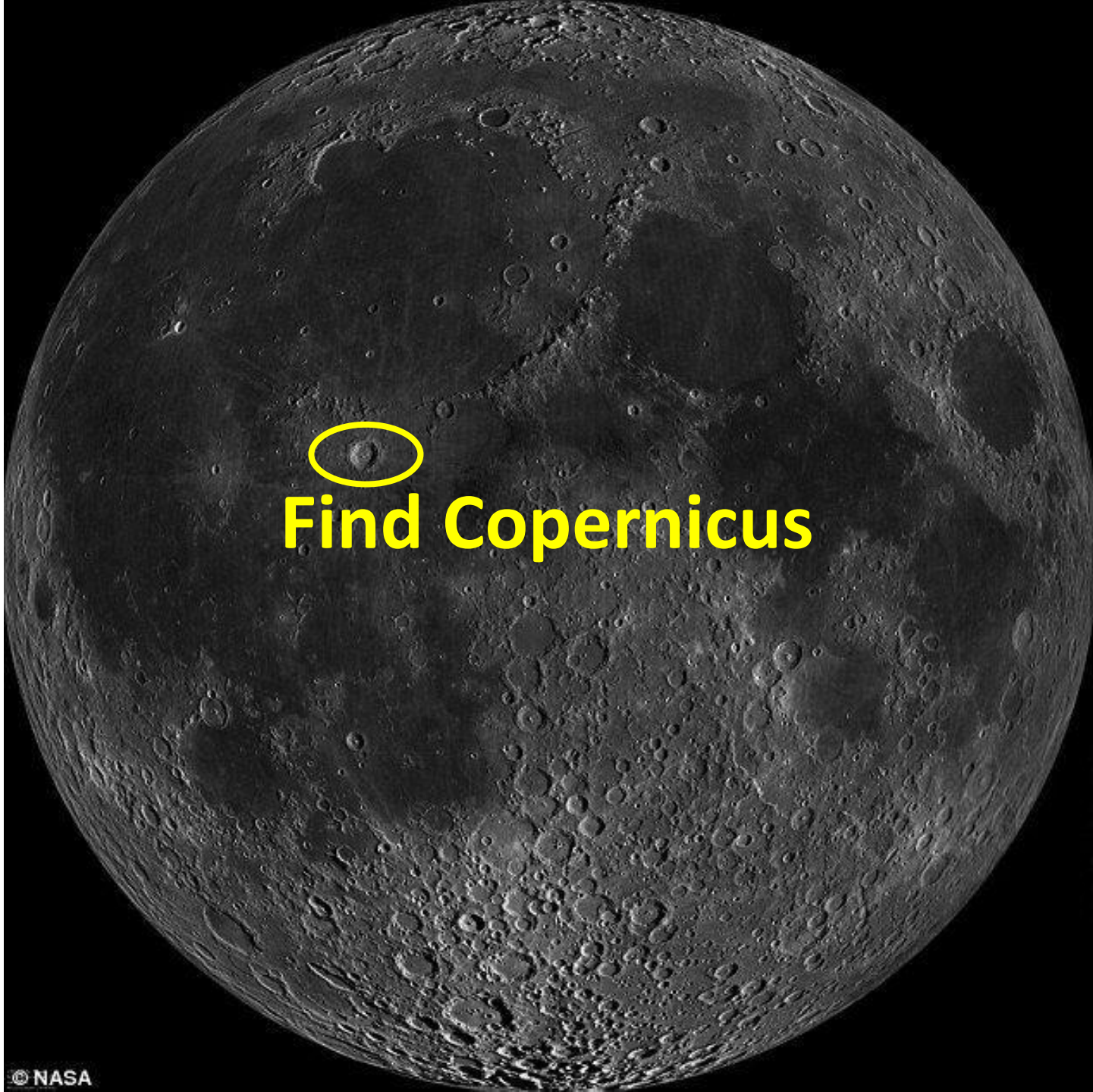
Find Tycho



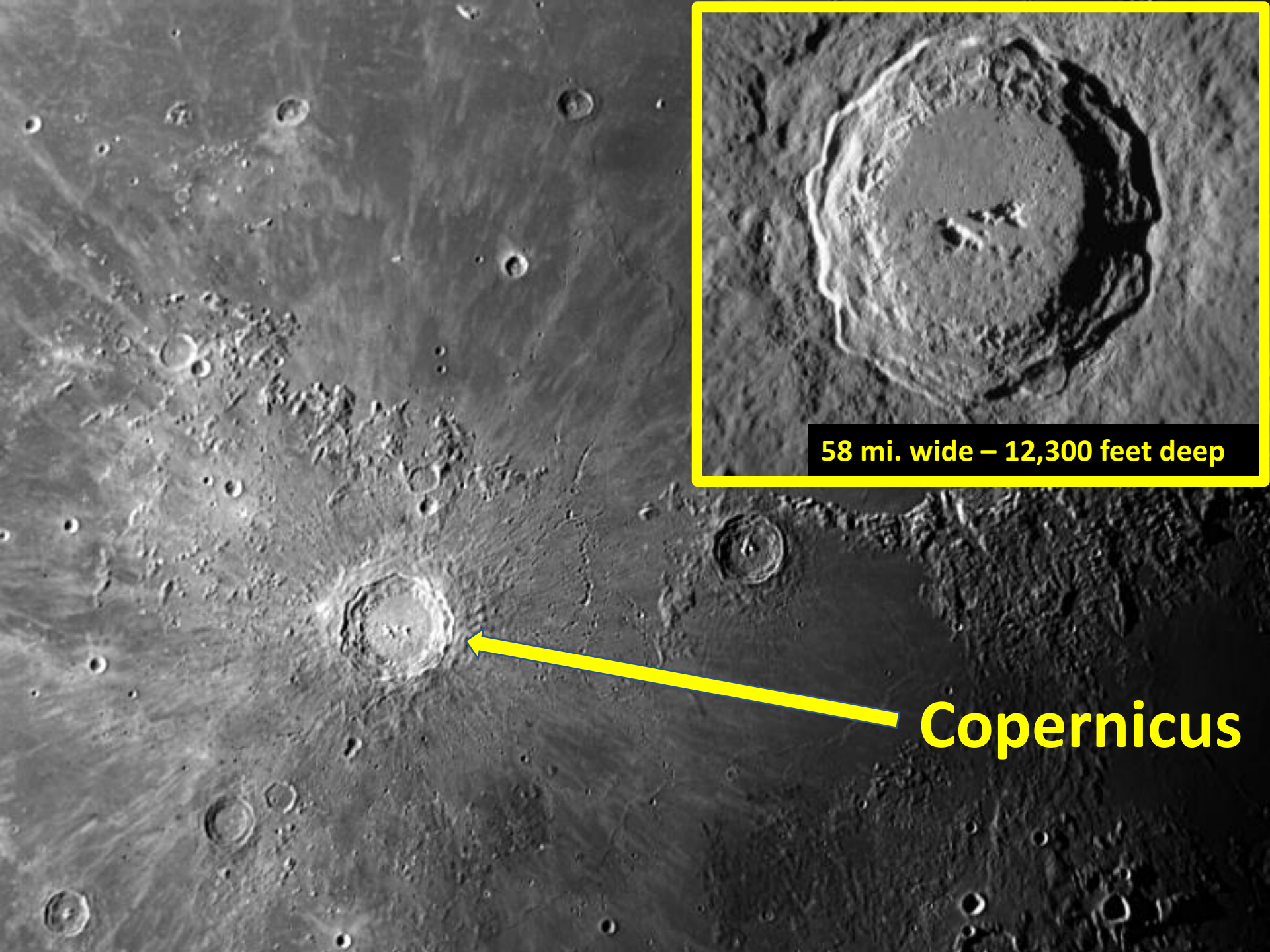
Tycho



53 mi. wide – 15,700 feet deep

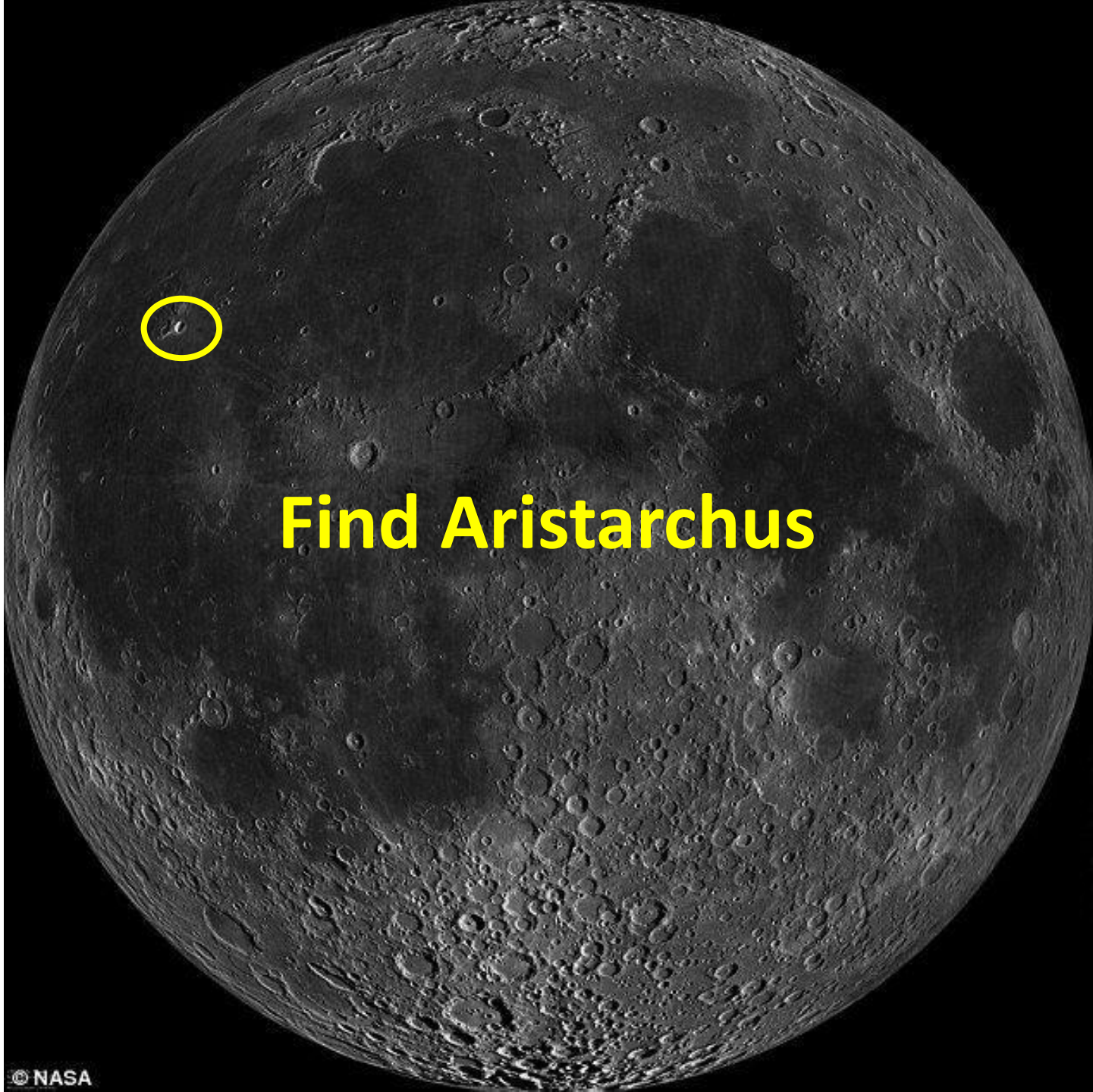


Find Copernicus



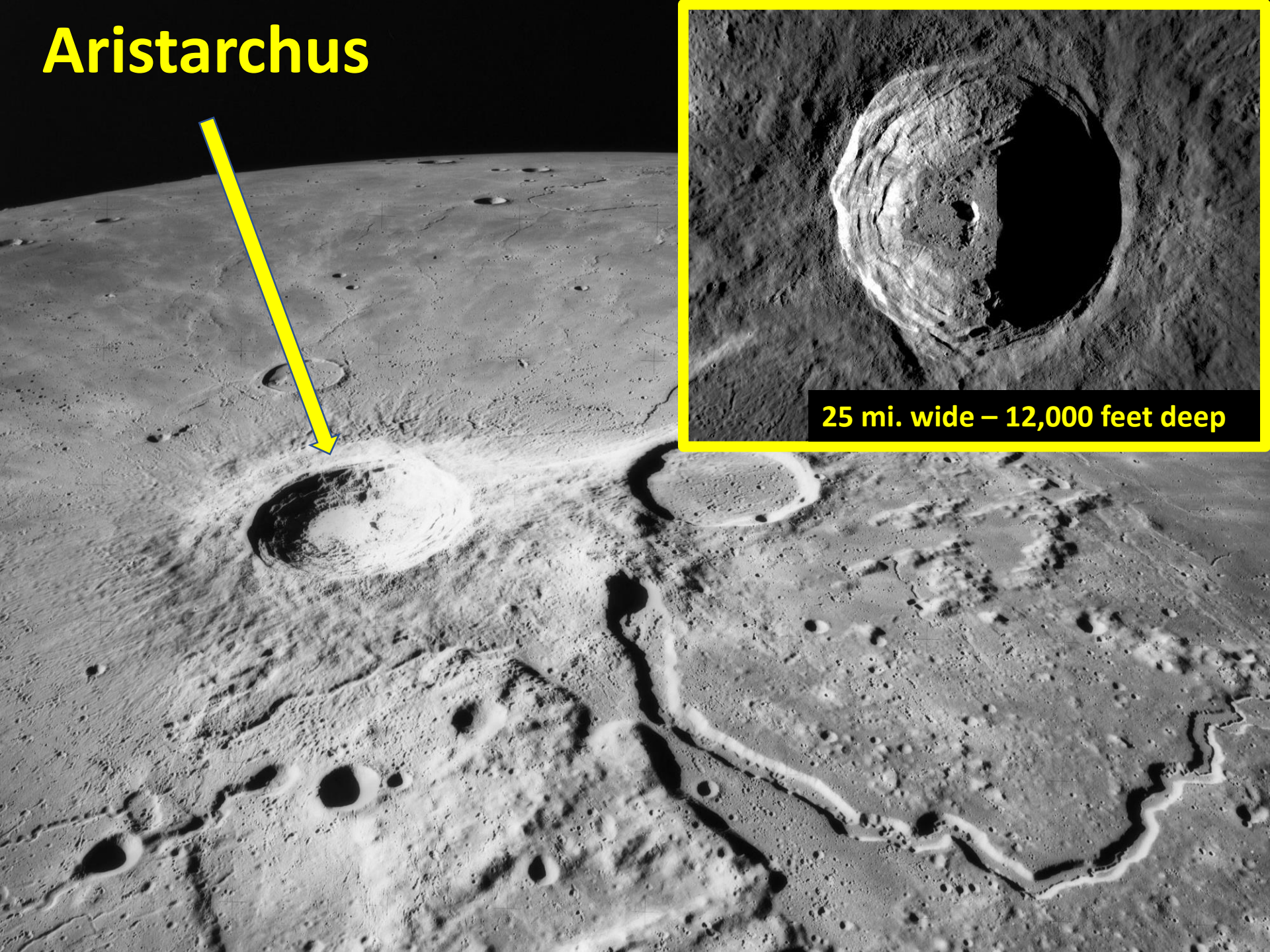
58 mi. wide – 12,300 feet deep

Copernicus



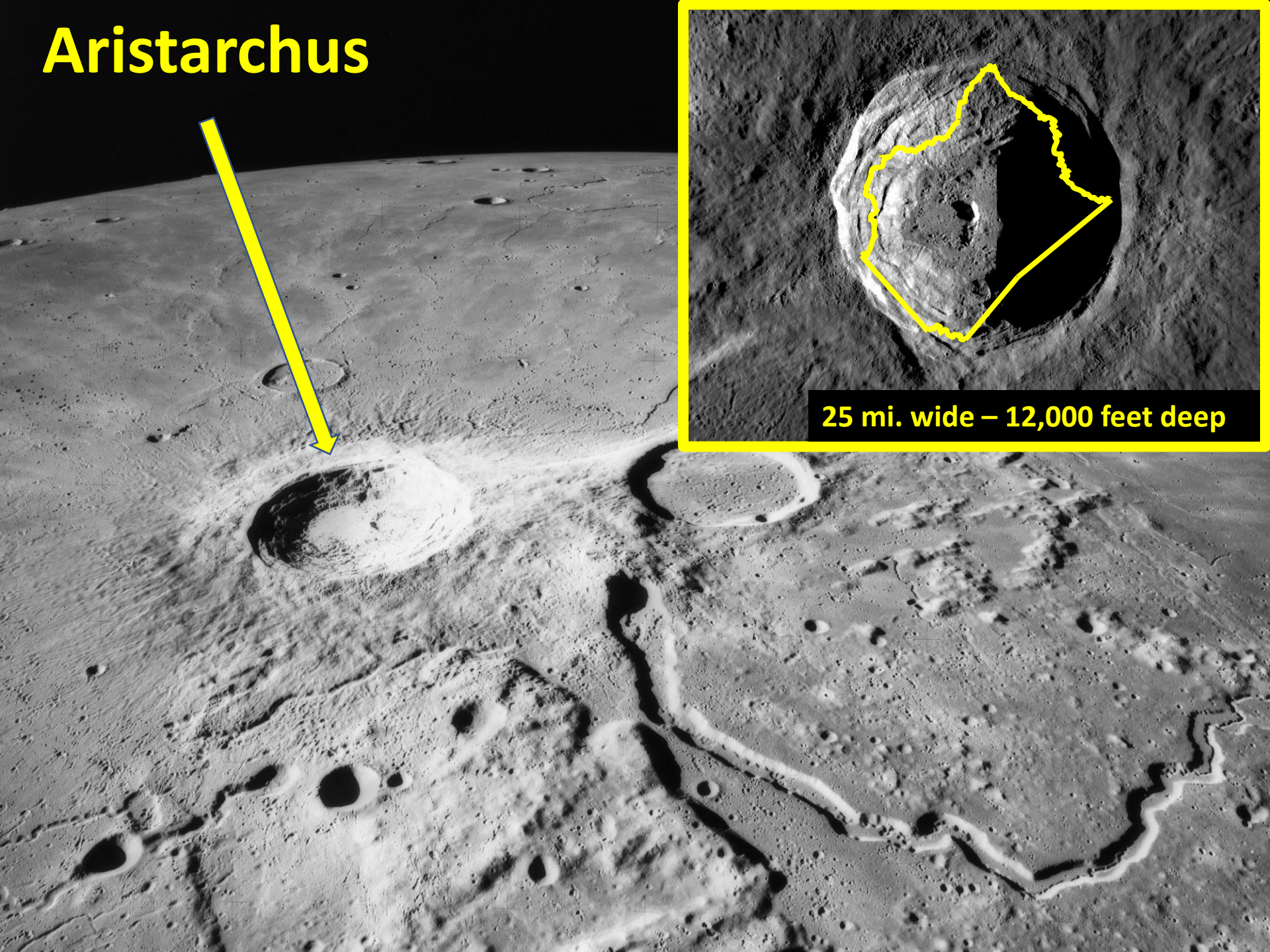
Find Aristarchus

Aristarchus



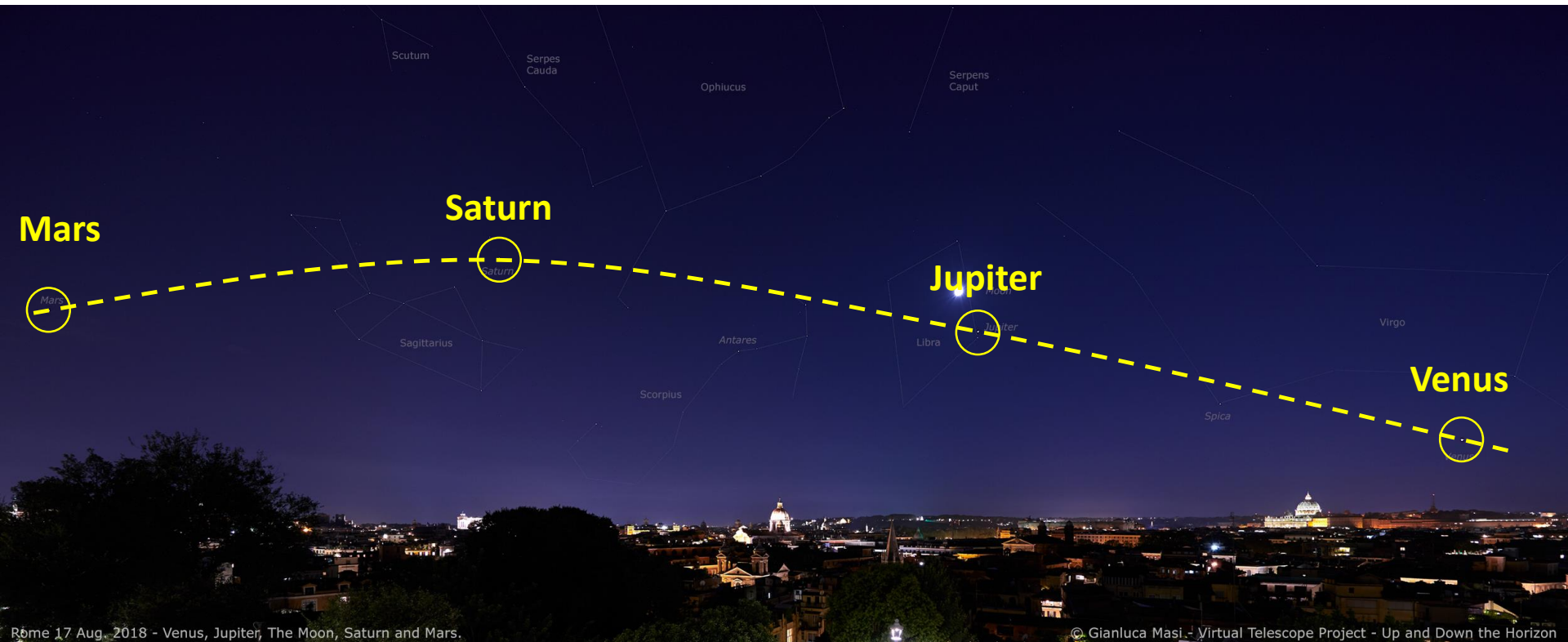
25 mi. wide - 12,000 feet deep

Aristarchus



25 mi. wide - 12,000 feet deep

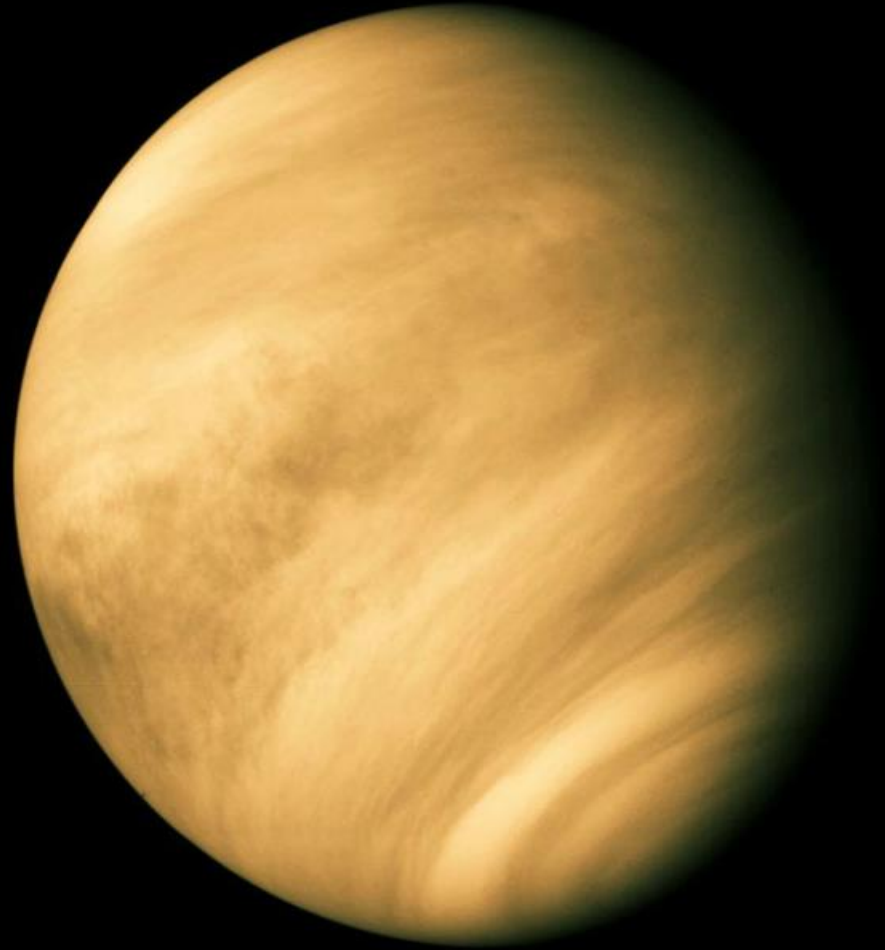
The Planets on Display



Rome 17 Aug. 2018 - Venus, Jupiter, The Moon, Saturn and Mars.

© Gianluca Masi - Virtual Telescope Project - Up and Down the Horizon

VENUS



(In ultraviolet)

Phases of Venus

January thru May 2012



Jan. 17th	Mar. 08th	Mar 19th	Apr. 11th	May 04th	May 12th	May 20th	May 23rd
78.4 % Illum.	60.3 % Illum.	55.0 % Illum.	41.6 % Illum.	23.4 % Illum.	16.8 % Illum.	7.8 % Illum.	5.9 % Illum.
Diam. 13.97	Diam. 19.66	Diam. 21.79	Diam. 28.39	Diam. 39.88	Diam. 44.67	Diam. 51.09	Diam. 53.10

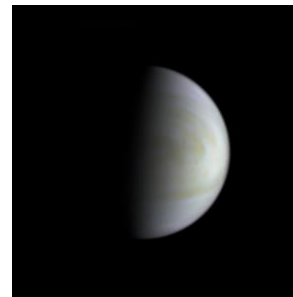
Efraín Morales Rivera

All Imaged with same equipment : LX200ACF 12 in. OTA, CGE mount, PGR Flea3 Ccd, TeleVue 3x barlows.

Aguadilla, Puerto Rico



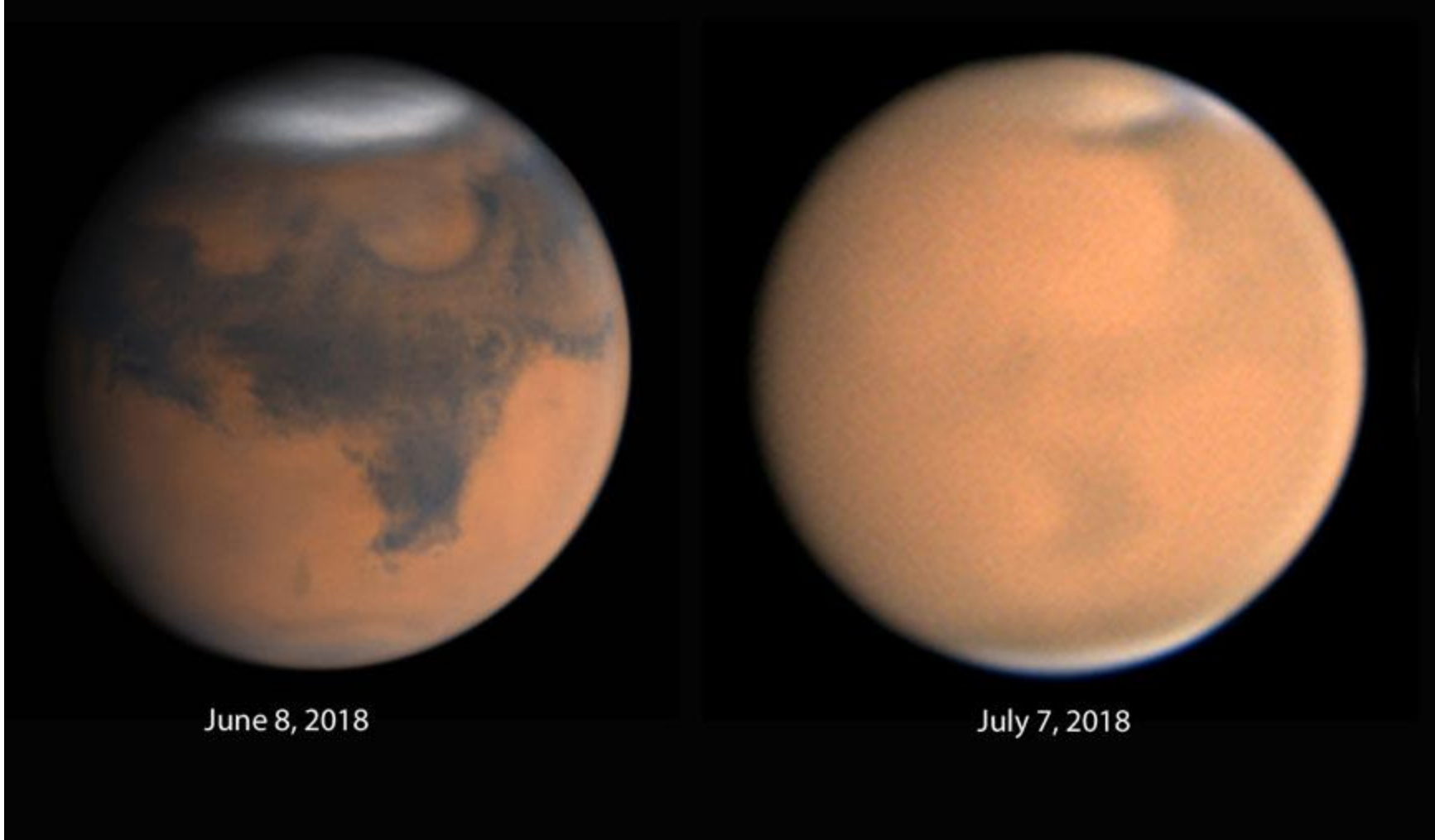
(small telescope)



(larger telescope)

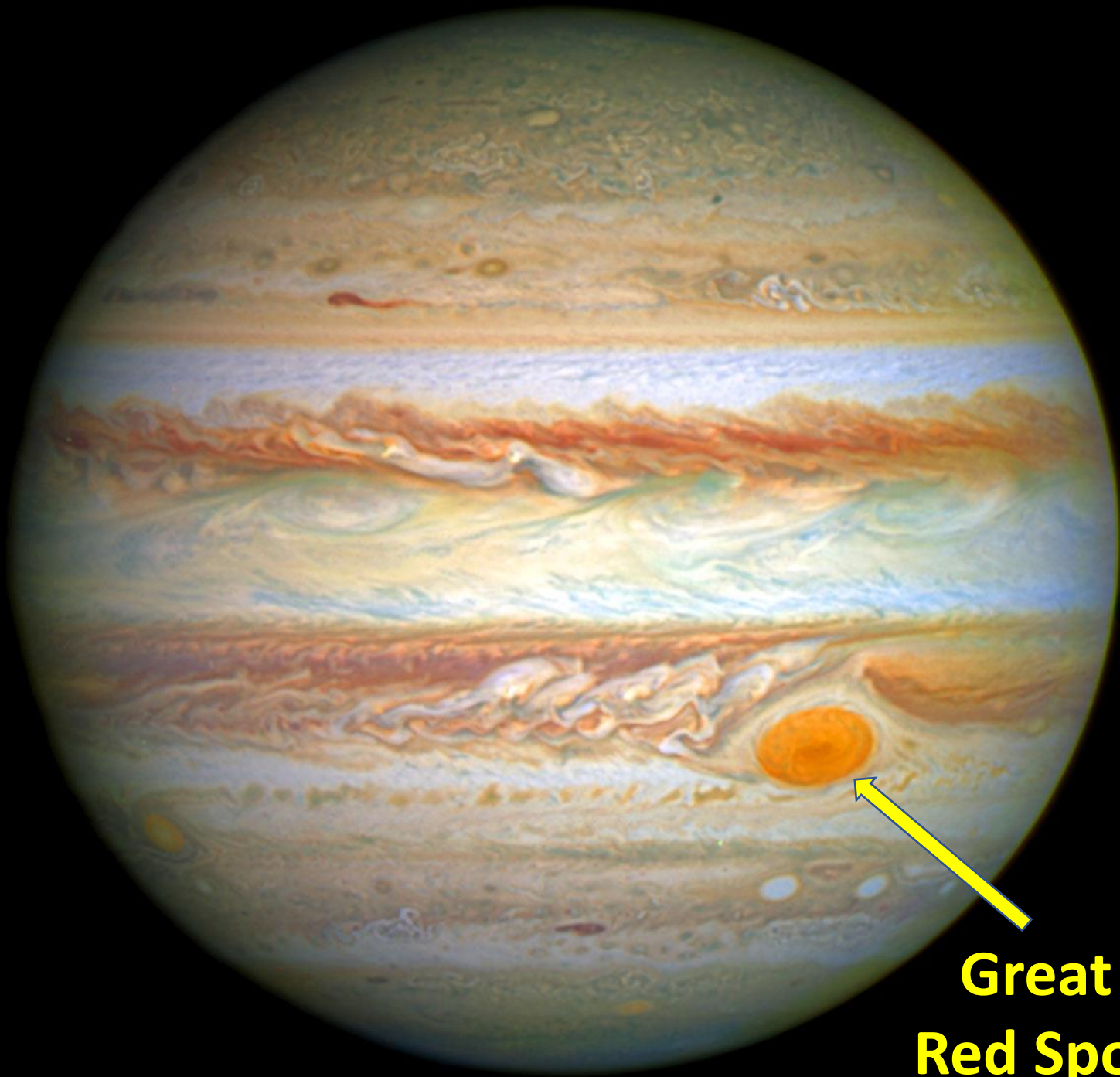


**M
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**Impact of
dust storms**

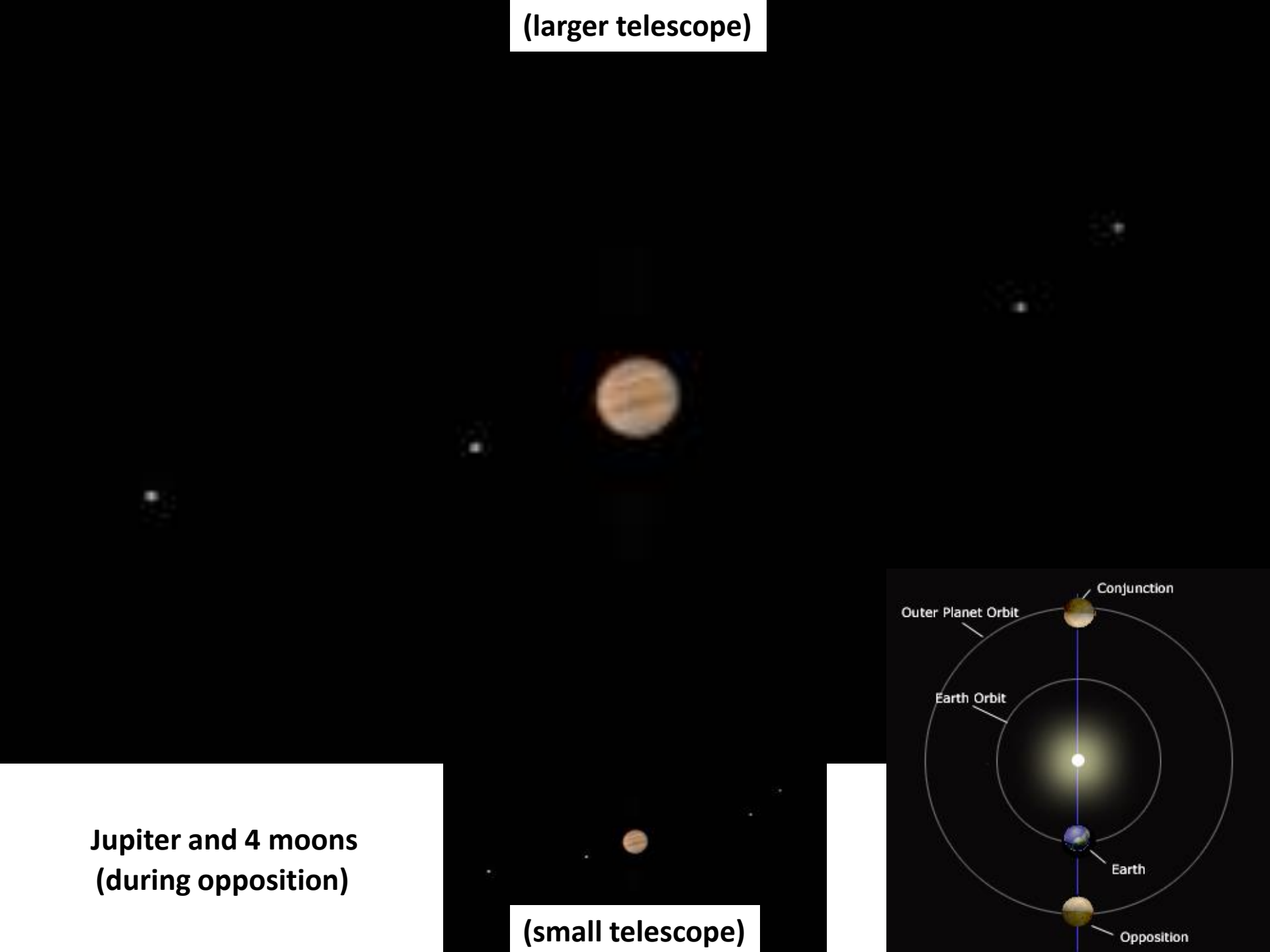




J
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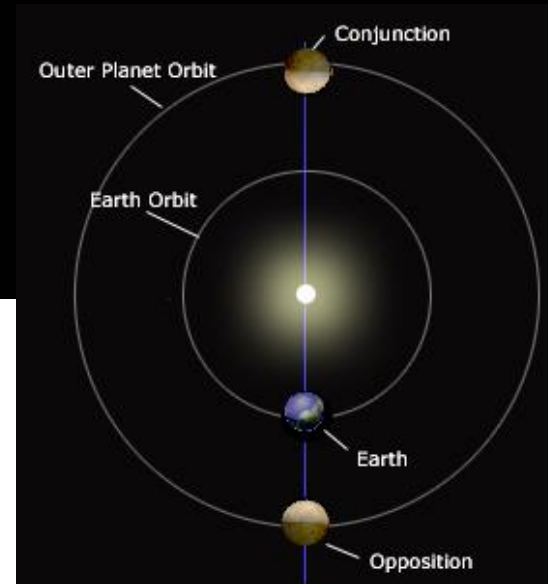
**Great
Red Spot**

(larger telescope)



Jupiter and 4 moons
(during opposition)

(small telescope)



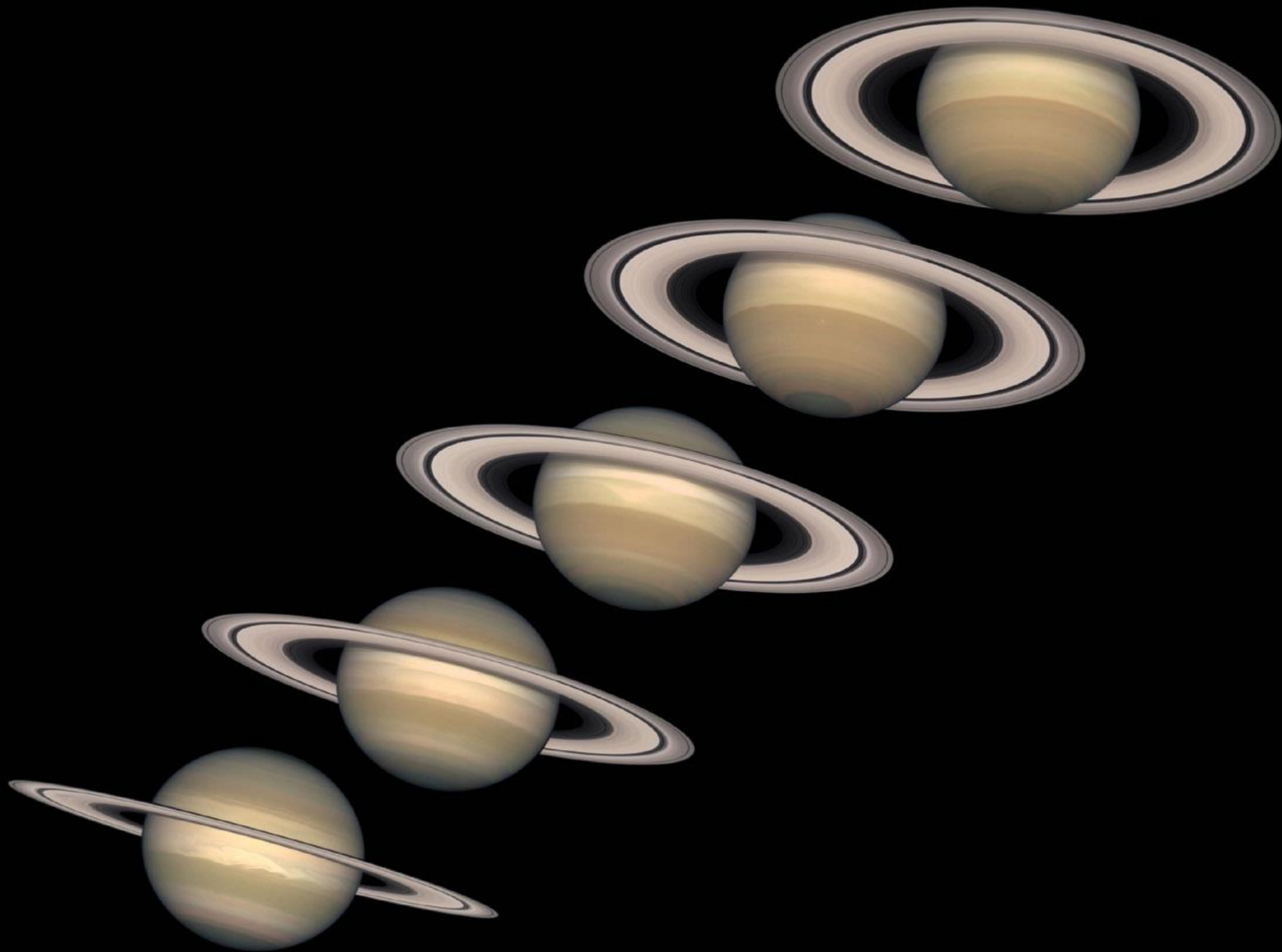


From Juno spacecraft on approach – view not available from earth

SATURN

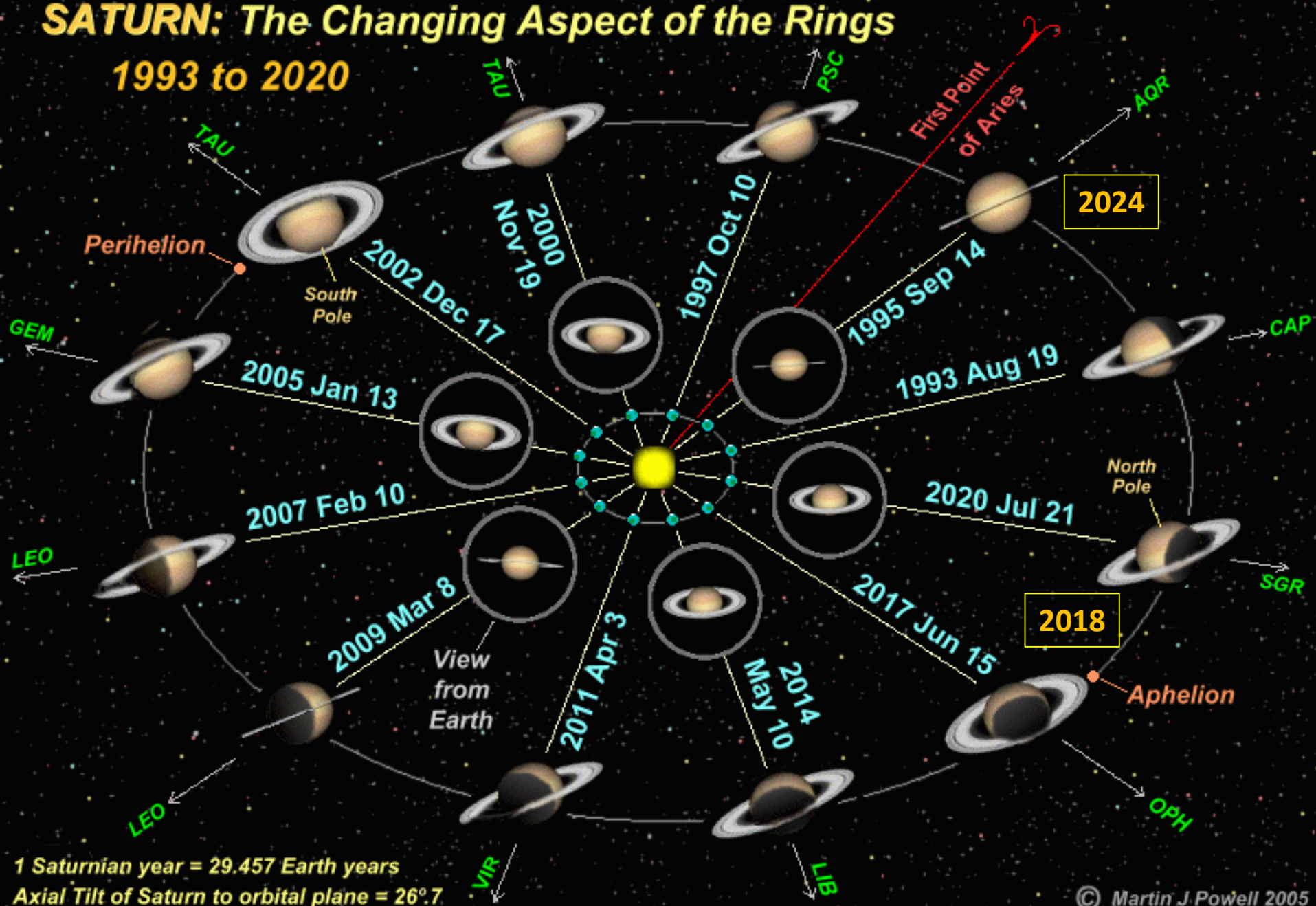


Taken by Hubble telescope



SATURN: The Changing Aspect of the Rings

1993 to 2020



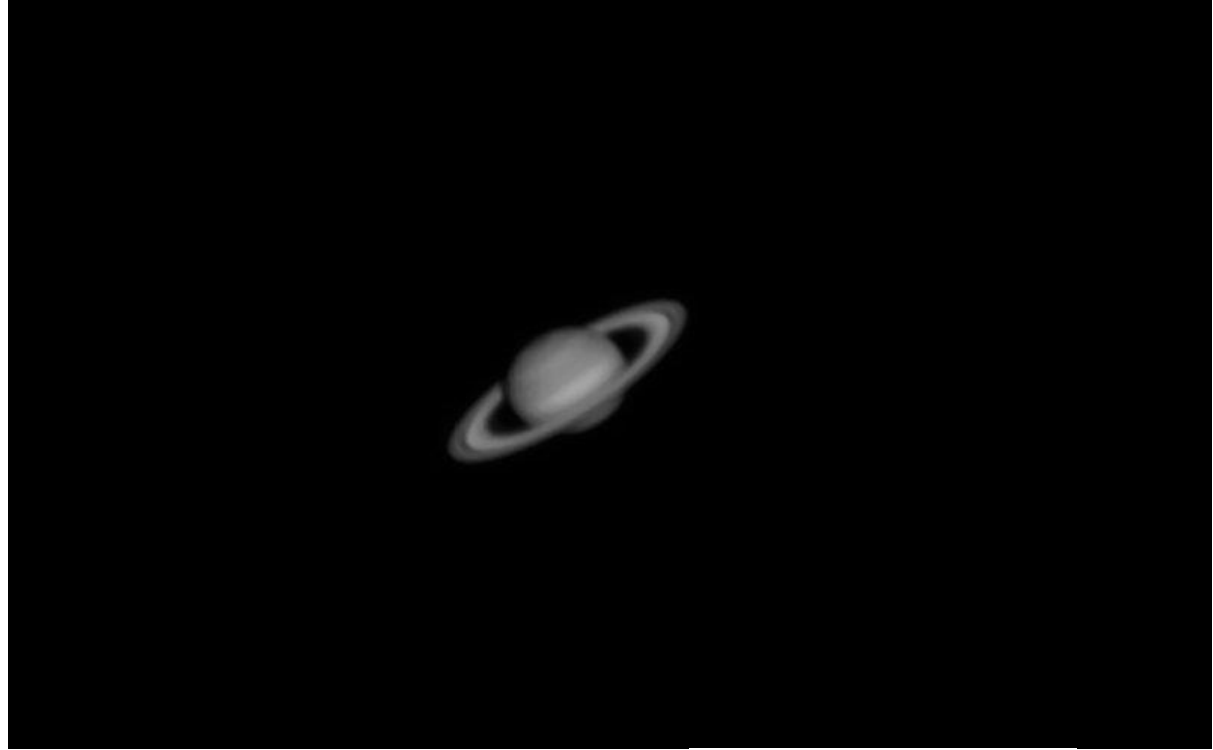
© Martin J. Powell 2005

Saturn images modified from NASA JPL's Solar System Simulator ('SPACE') at <http://samadhi.jpl.nasa.gov/other/space>

Orbit diagram based upon a graphic by David A Hardy in the book 'The Solar System' by Patrick Moore (Methuen & Co Ltd, 1958)

SATURN

(small telescope)



(larger telescope)



Saturn with moons (2 exposures)