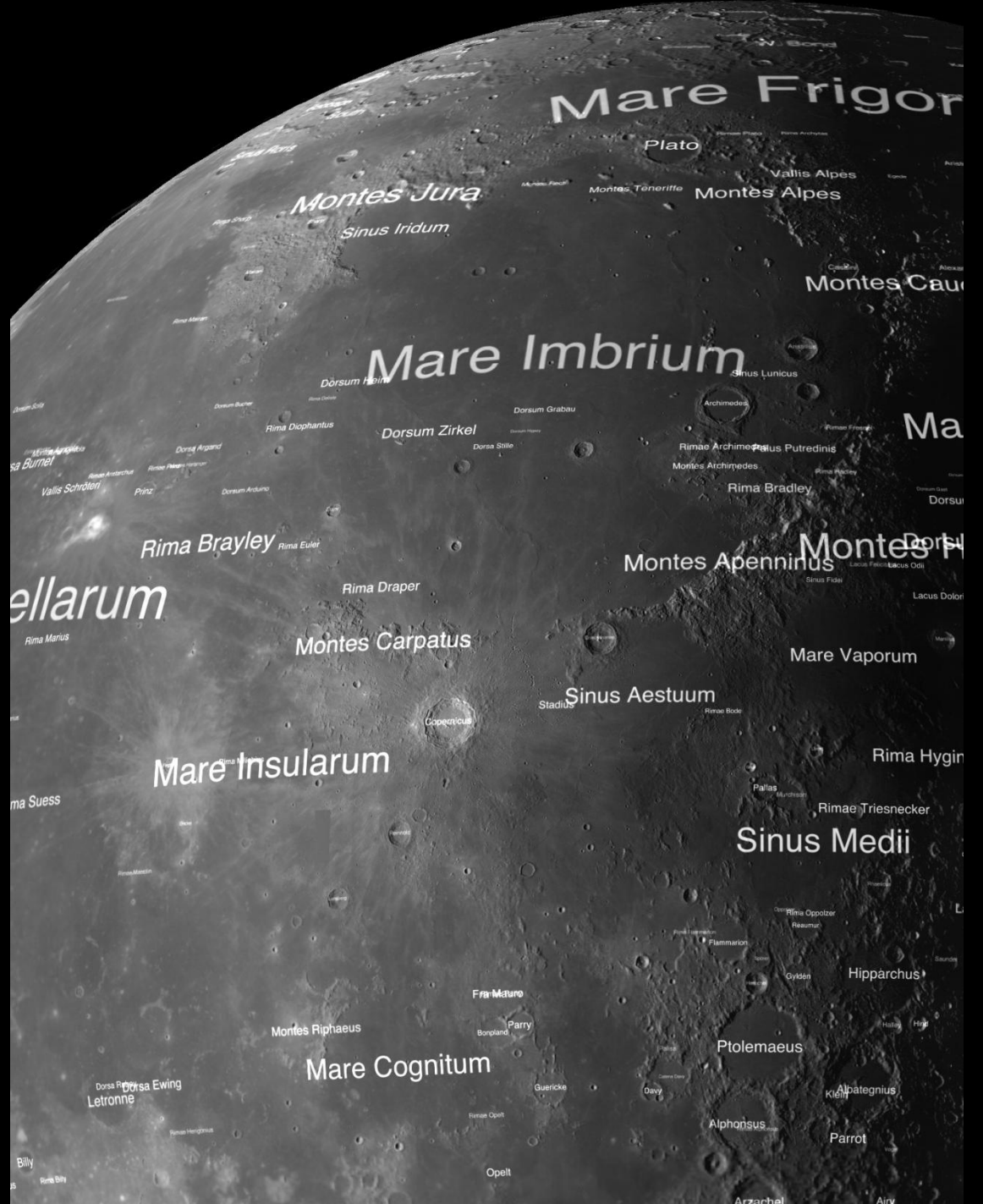
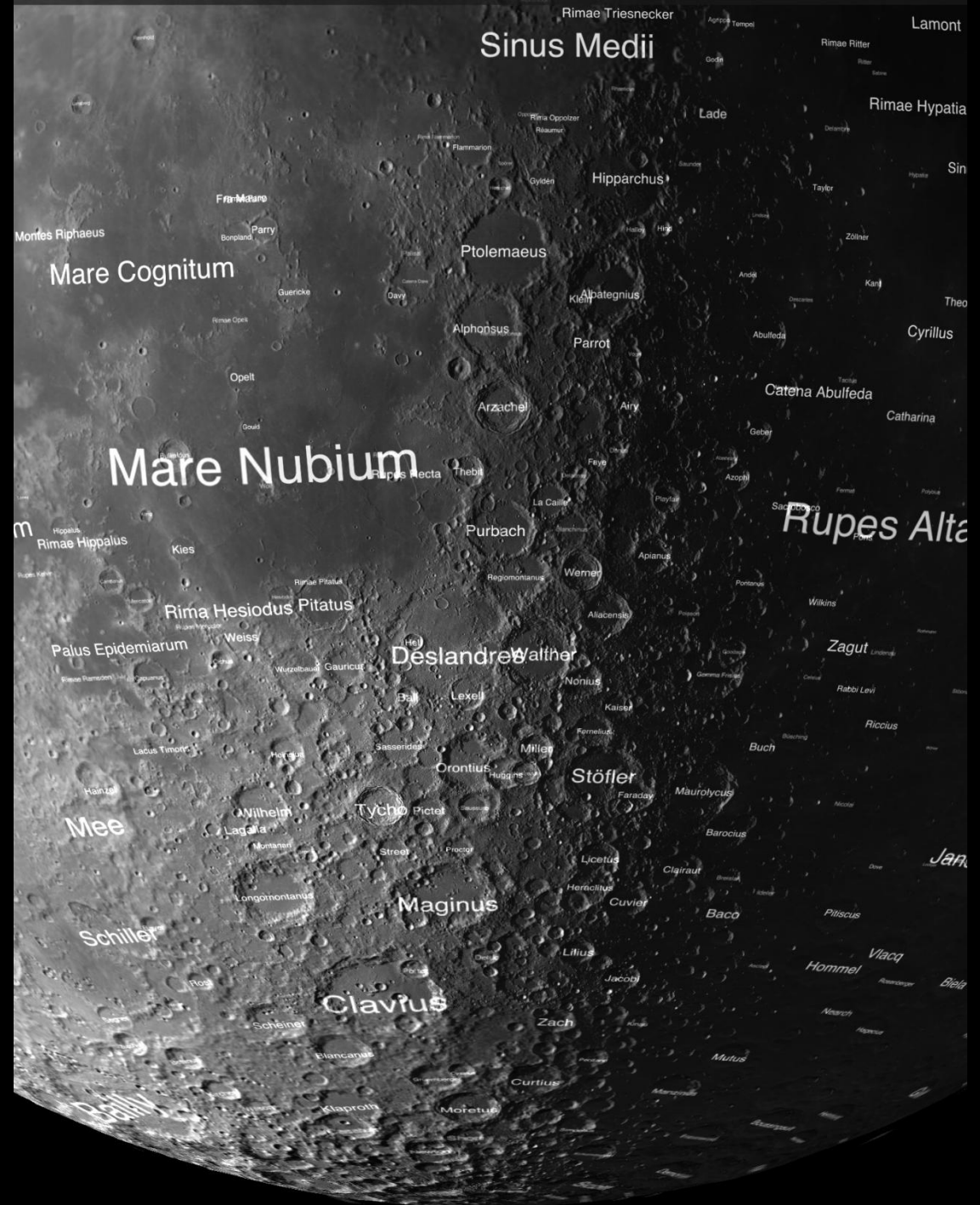


What's Up

Presented by Nicky Fleet

November/December 2022





Sinus Medii

Mare Cognitum

Mare Nubium

Rupes Alta

Deslandre

Tycho

Maginus

Clavius

Hipparchus

Ptolemaeus

Alphonsus

Arzachel

Purbach

Lexell

Orontius

Stöfler

Cuvier

Zach

Rimae Hypatia

Cyrrillus

Catena Abulfeda

Wilkins

Zagut

Riccus

Barocius

Baco

Hommel

Mutus

Montes Rhiphaeus

Rimae Hippalus

Palus Epidemiarum

Rima Hesiodus Pitatus

Mee

Schiller

Scheiner

Lade

Lamont

Sin

Theo

Catharina

Sac

Wilkins

Rabbi Levi

Jar

Pitiscus

Vlacq

Biel

Lade

Sin

Theo

Catharina

Sac

Wilkins

Rabbi Levi

Jar

Pitiscus

Vlacq

Biel

Mutus

Curtius

Motetus

Klaproth

Motetus



Moon

SE

S



Credit – NASA/JPL Caltech

Date and time

×

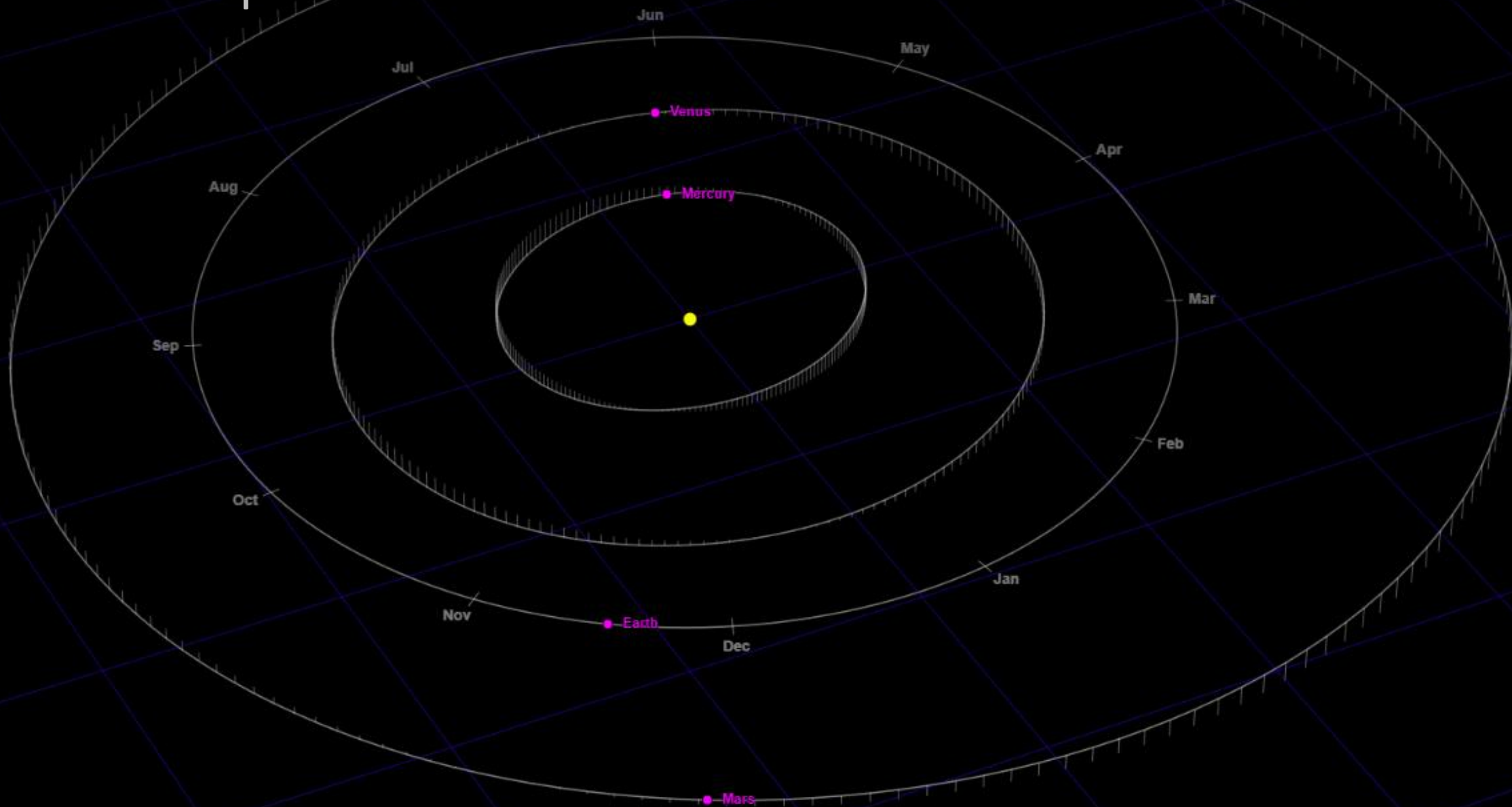
Date and time

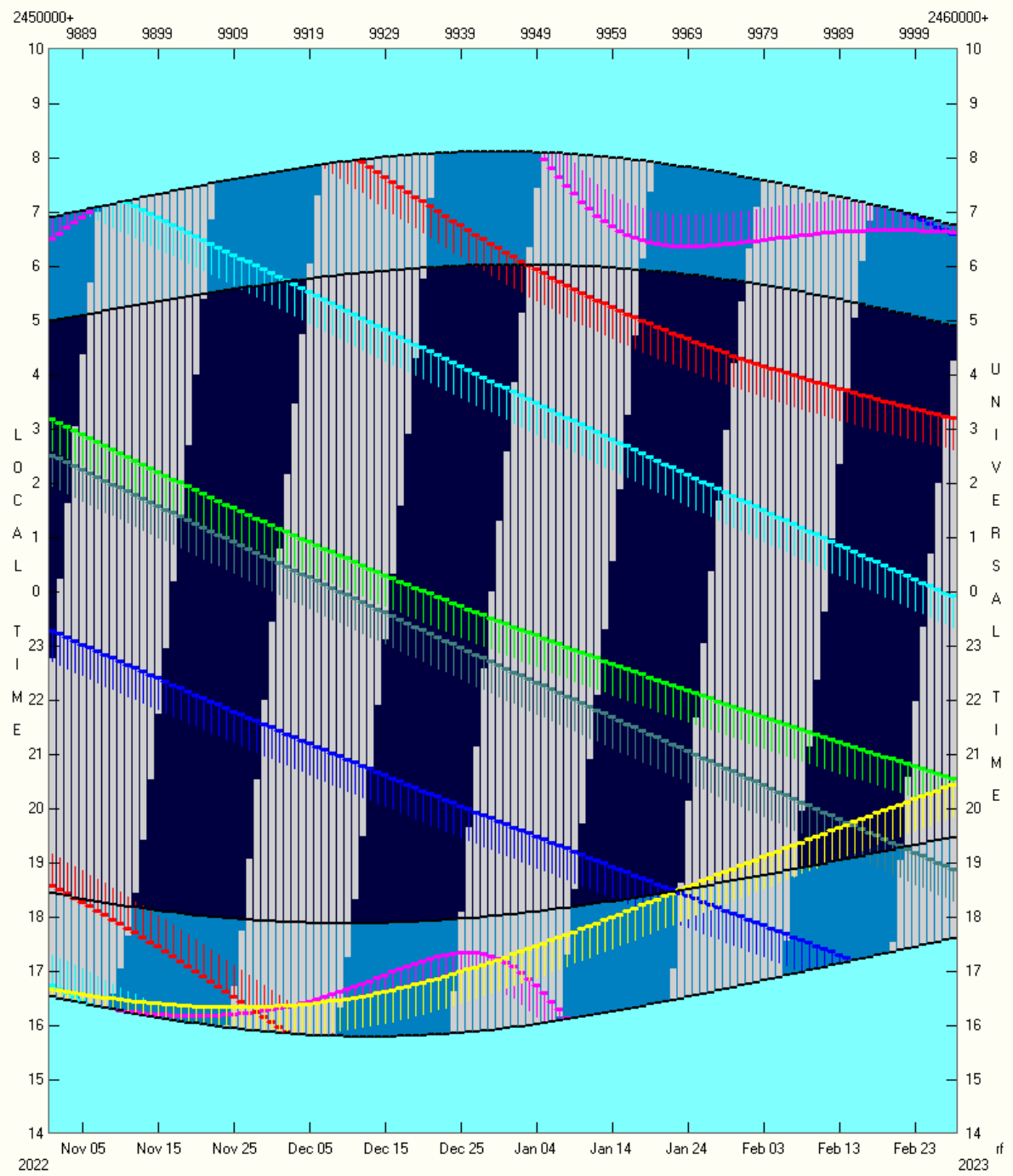
Julian Day

2022 - 11 - 19

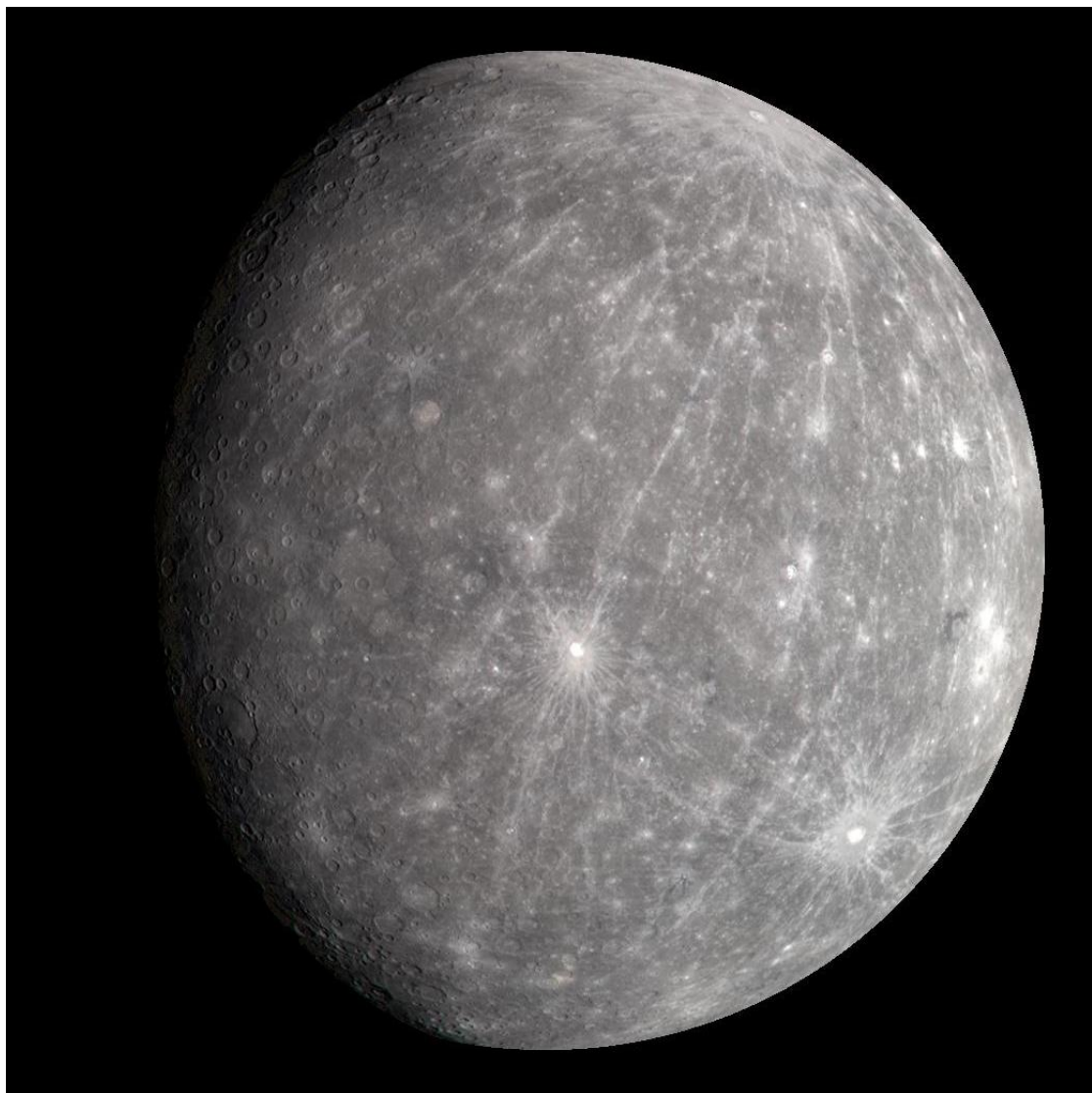
7 : 0 : 0

The inner planets

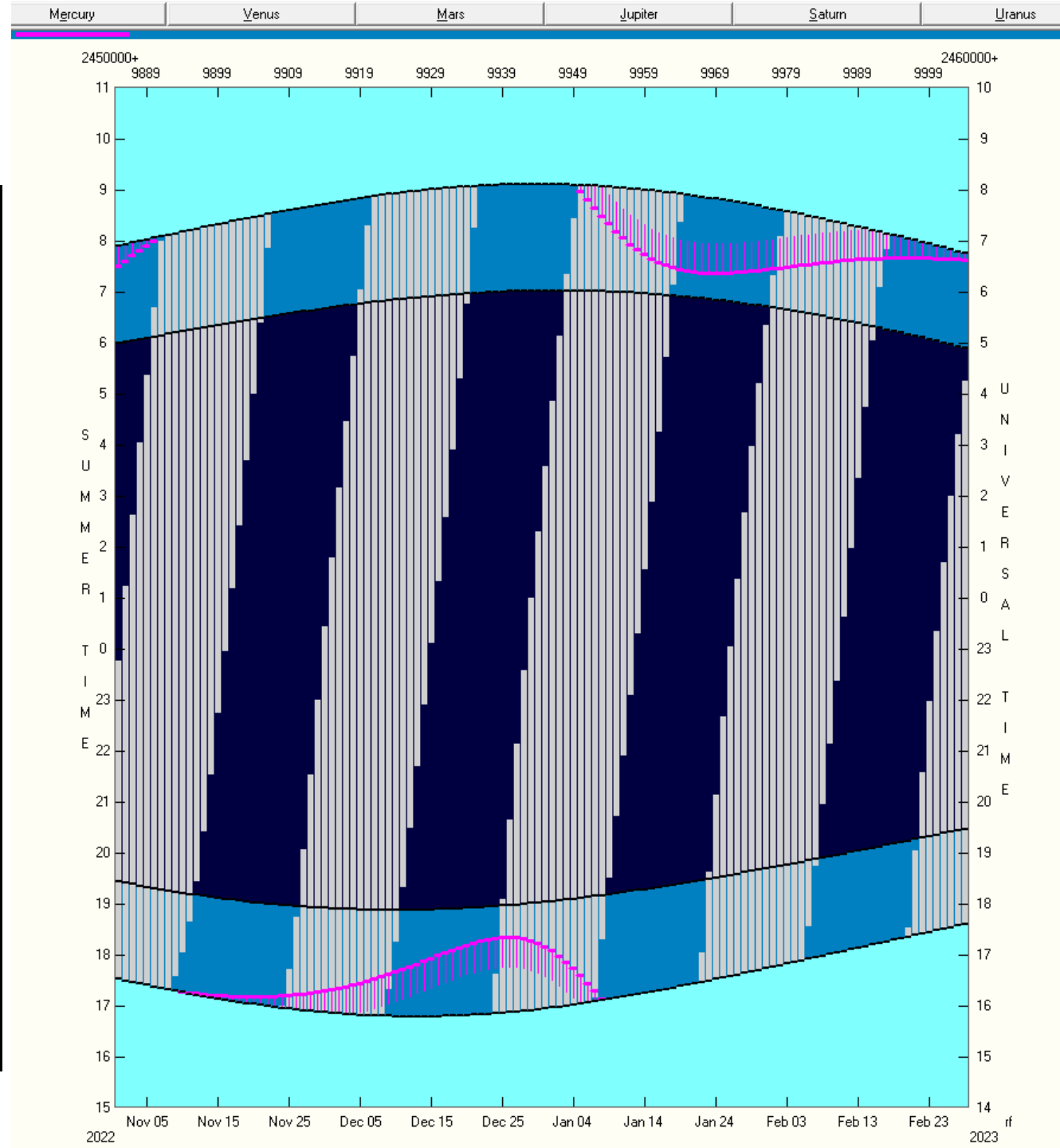




Mercury



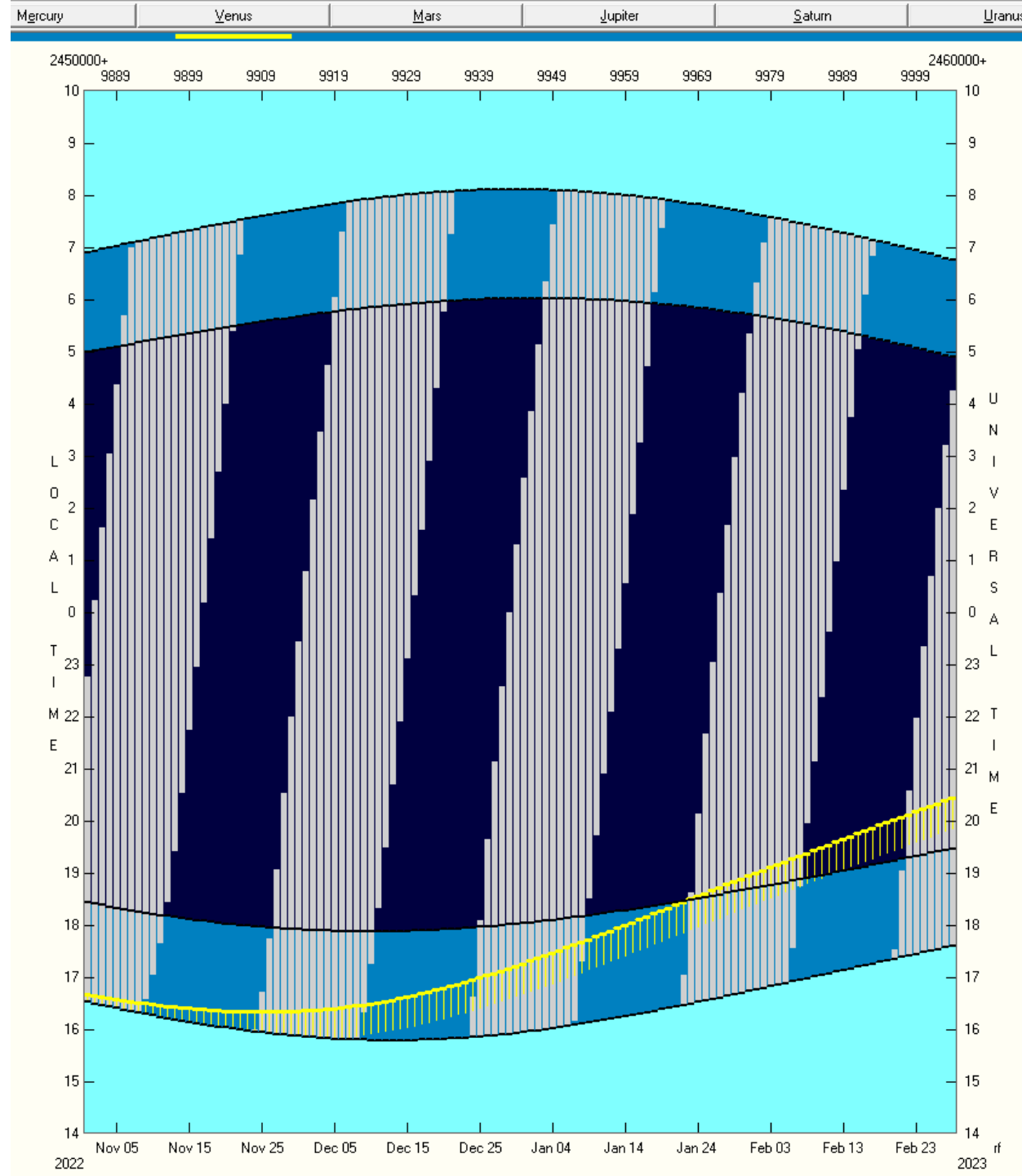
Messenger -2008



Venus



Statis Kalyvas - VT-2004 programme, Attribution, via Wikimedia Commons

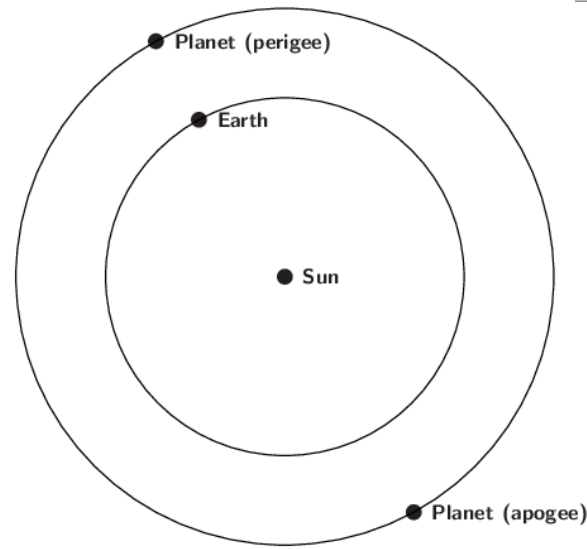


Mars

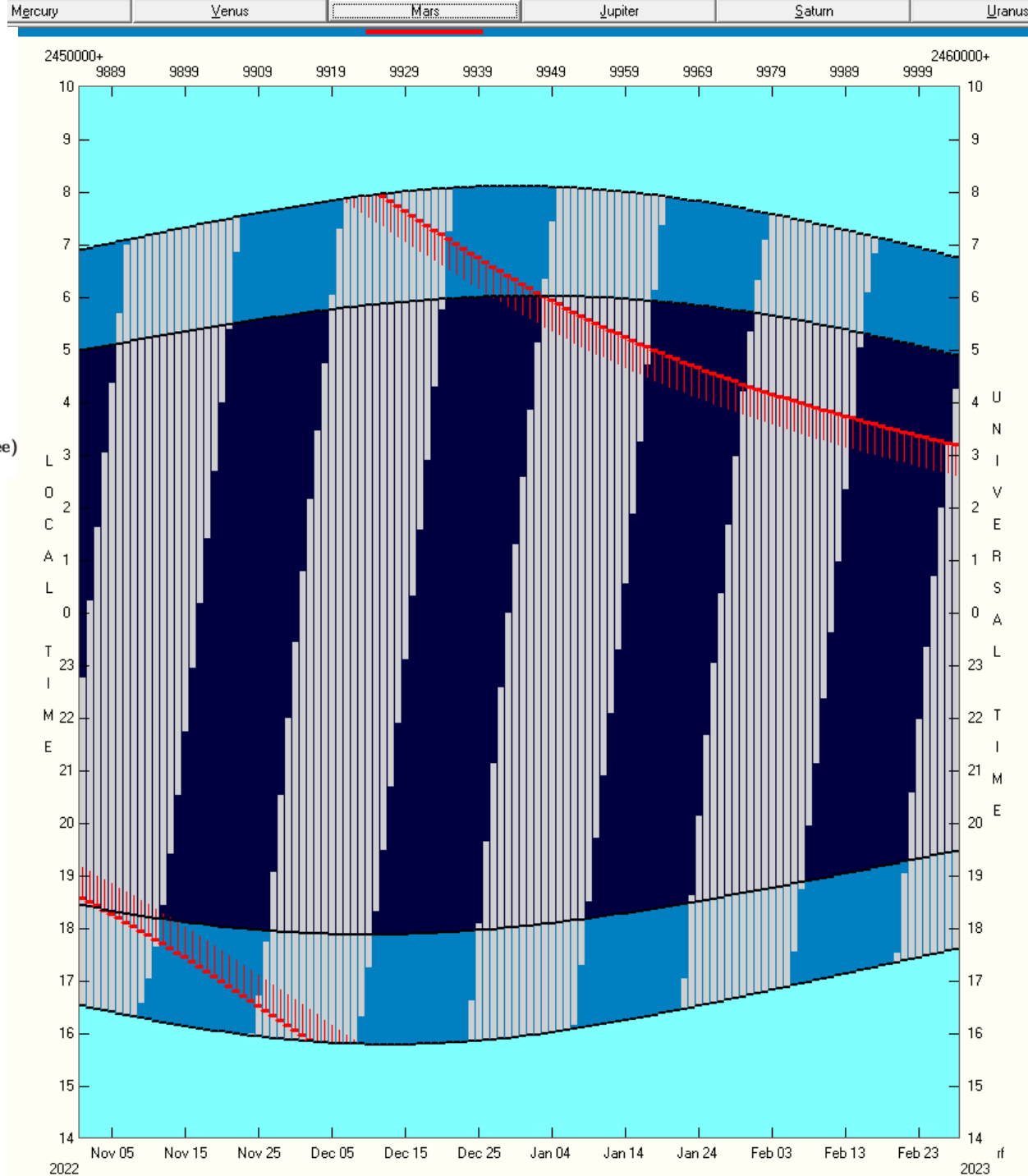
Currently in Taurus

Magnitude -1.9

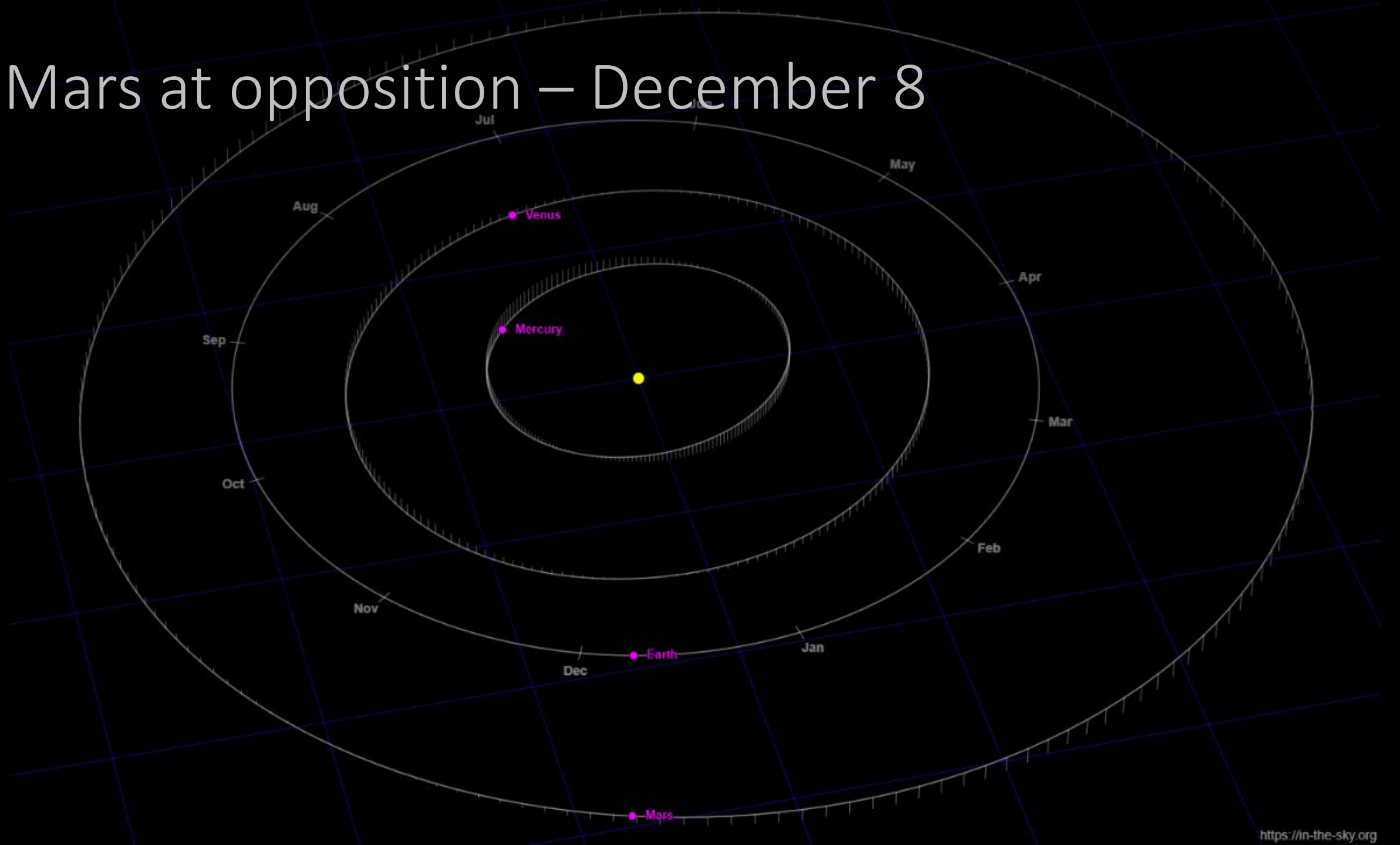
Size – 17.2 arc seconds



Credit: Pete Lawrence



Mars at opposition – December 8



Mars

December 8

Occulted by the 15 day old moon

Disappears – 04.58

Reappears – 05.59

[Virtual Telescope's WebTV - The Virtual Telescope Project 2.0](#)

THE VIRTUAL TELESCOPE PROJECT 2.0
REMOTELY CONTROLLED ROBOTIC TELESCOPES, ONLINE
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ONLINE EVENTS

- Artemis 1: the Orion spacecraft on its way to the Moon (17 Nov. 2022)
- Mars 2022 at its closest to Earth (30 Nov. 2022)
- Mars occultation by the Moon at opposition (8 Dec. 2022)

EVENT / OCCULTATIONS / PLANETS / THE MOON

The Moon occults Mars at opposition: online observation – 8 Dec. 2022

BY GIANLUCA MASI | 11/11/2022

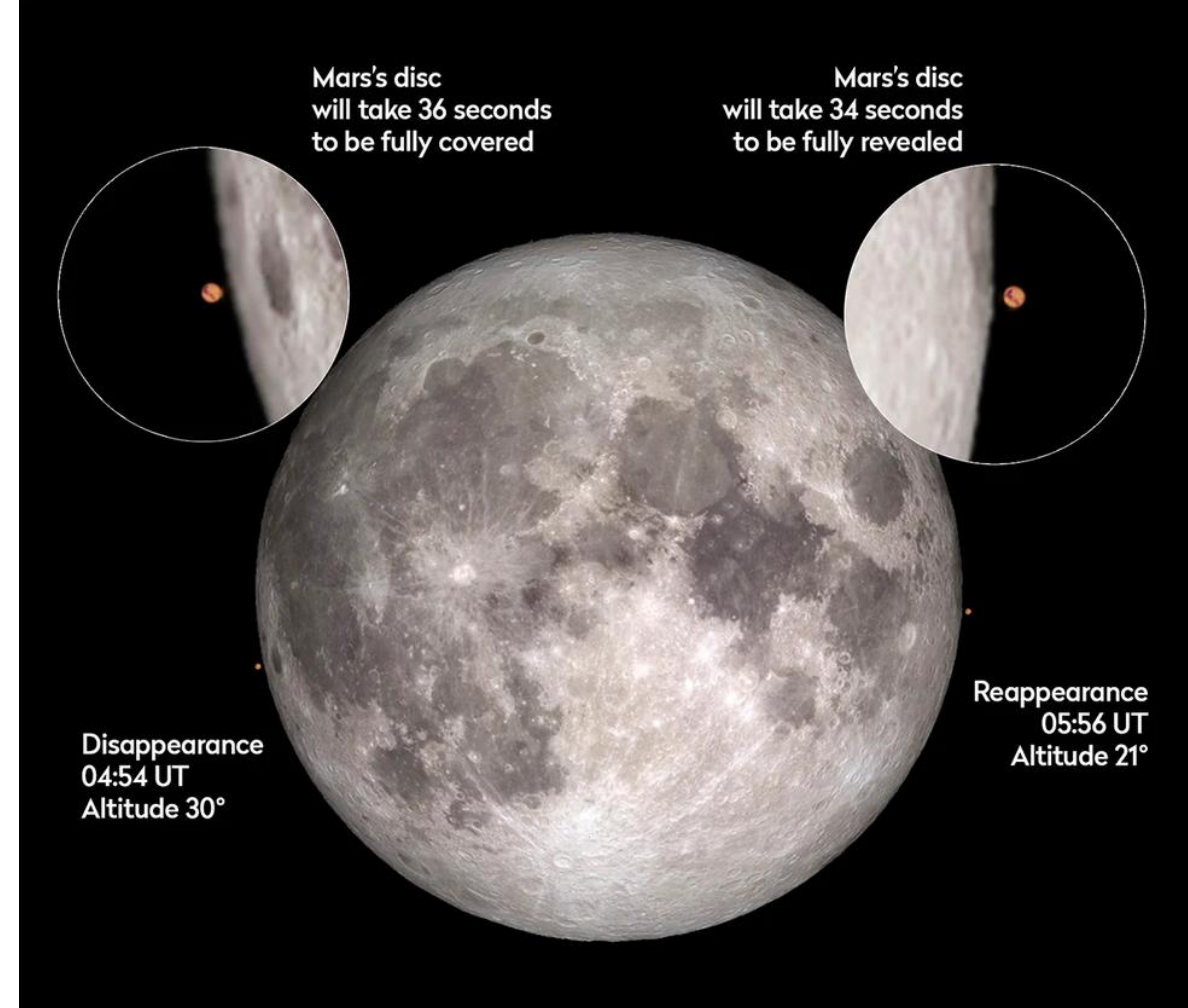
Next 8 Dec. 2022, we will have an **occultation of Mars by the Moon**. While already very rare, it will be even more special, as it happens on the night **the Red Planet will be at opposition**. The Virtual Telescope Project will show it live: join the show from the comfort of your home!

RECENT ARTICLES

- The Moon occults Mars at opposition: online observation – 8 Dec. 2022
- Mars 2022: the Red Planet at its closest to Earth, online observation – 30 Nov. 2022
- Supernova SN 2022wsp in NGC 7448 galaxy: a image – 15 Oct. 2022
- Potentially Hazardous Asteroid (55003) Dymos and its tail: a image – 1 Nov. 2022
- Supernova SN 2022wq in NGC 1784



Credit: Andrew Chaikin (7/7/2003)



Credit: Pete Lawrence

Moon – mag -12

Mars – mag -1.6



Procyon

Mars

Betelgeuse

Sirius

Moon

Uranus

W

Date and time

X

Date and time

Julian Day

2022 - 12 - 6

5 : 0 : 0

Procyon

Mars

Betelgeuse

Moon

Sirius

Uranus

W

Date and time

X

Date and time

Julian Day

2022 - 12 - 7

5 : 0 : 0

Procyon

Meloon

Betelgeuse

Sirius

Uranus

W

Date and time

✕

Date and time

Julian Day

2022 - 12 - 8

5 : 0 : 0



k Tau

Moon

Ma

99 Tau

Date and time

✕

Date and time

Julian Day

2022 - 12 - 8

4 : 59 : 0



Moon

Mars

Date and time

×

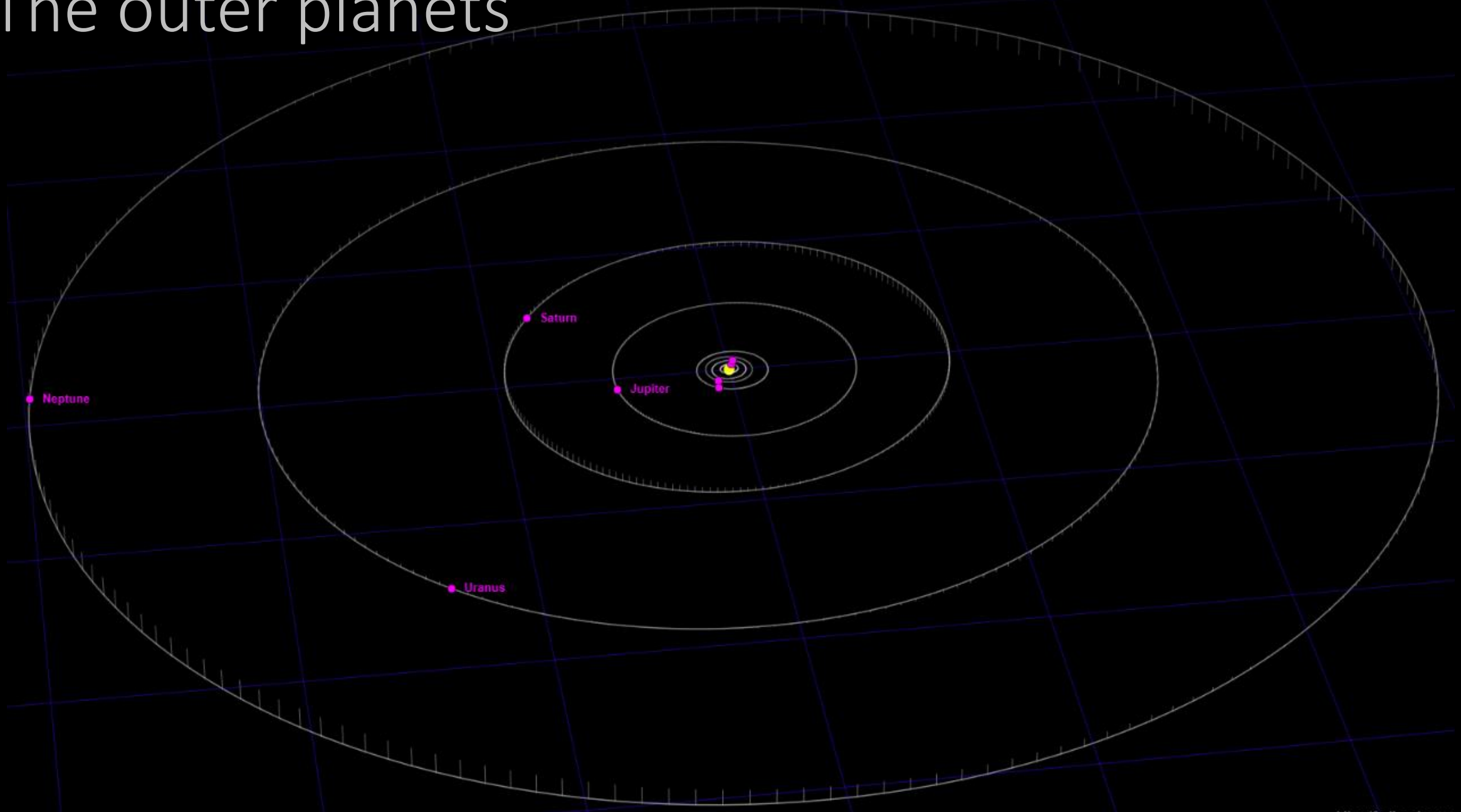
Date and time

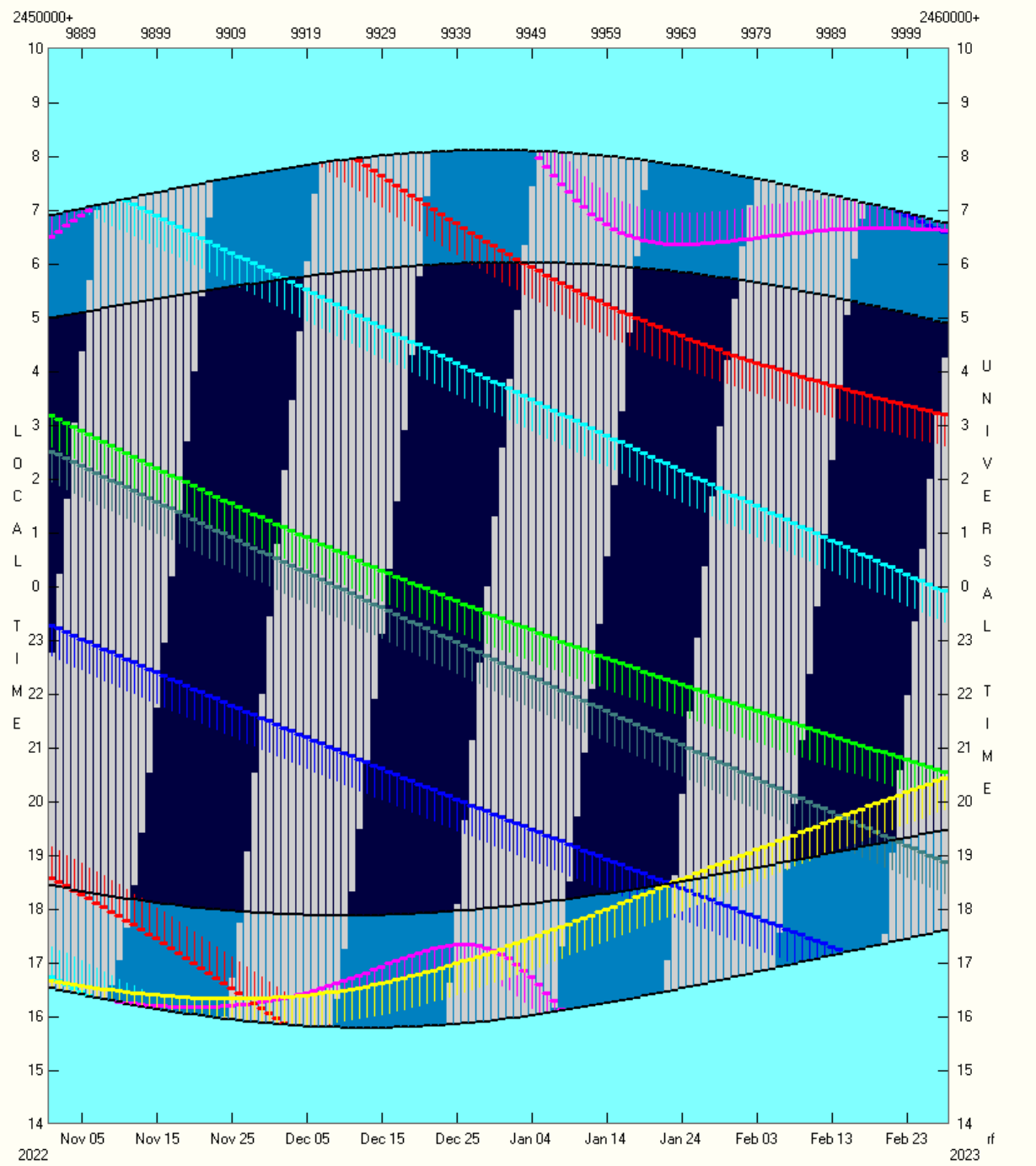
Julian Day

2022 - 12 - 8

6 : 0 : 0

The outer planets





Jupiter

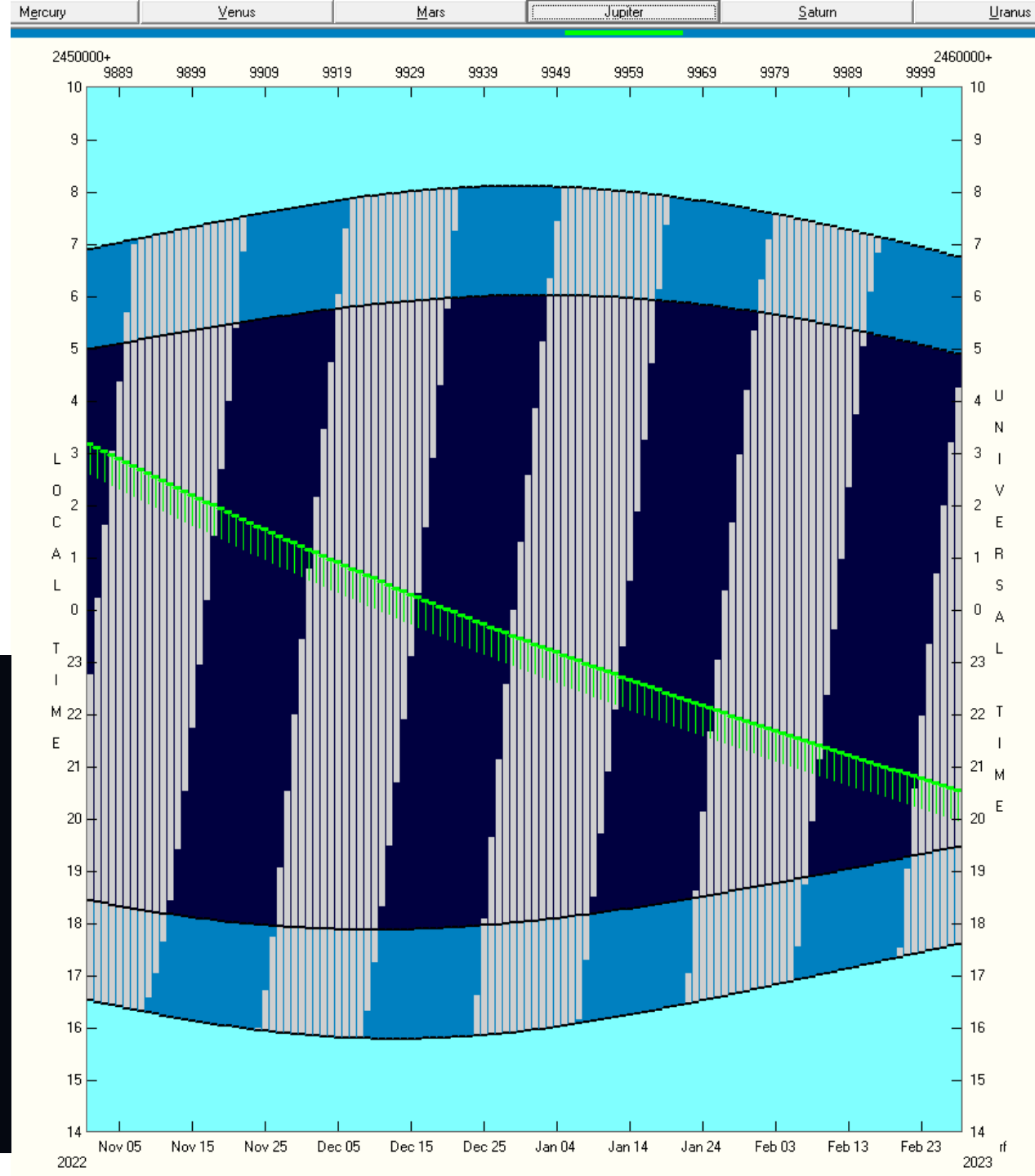
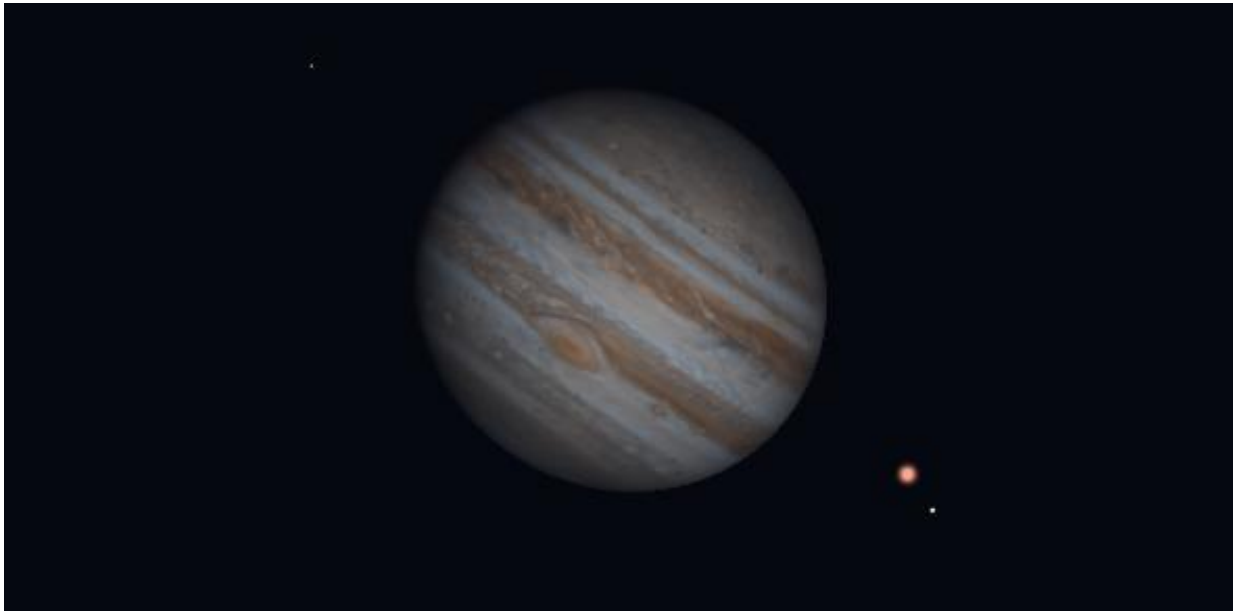
Brightest object in early evening sky
(apart from moon!)

Reached opposition September 26

Still well placed in Pisces (near Circlet)

Around 35 degrees up in SSW at 21.00

Magnitude around -2.5



Jupiter & the moon – December 1



Date and time

Date and time				Julian Day					
2022	-	12	-	1	21	:	0	:	0

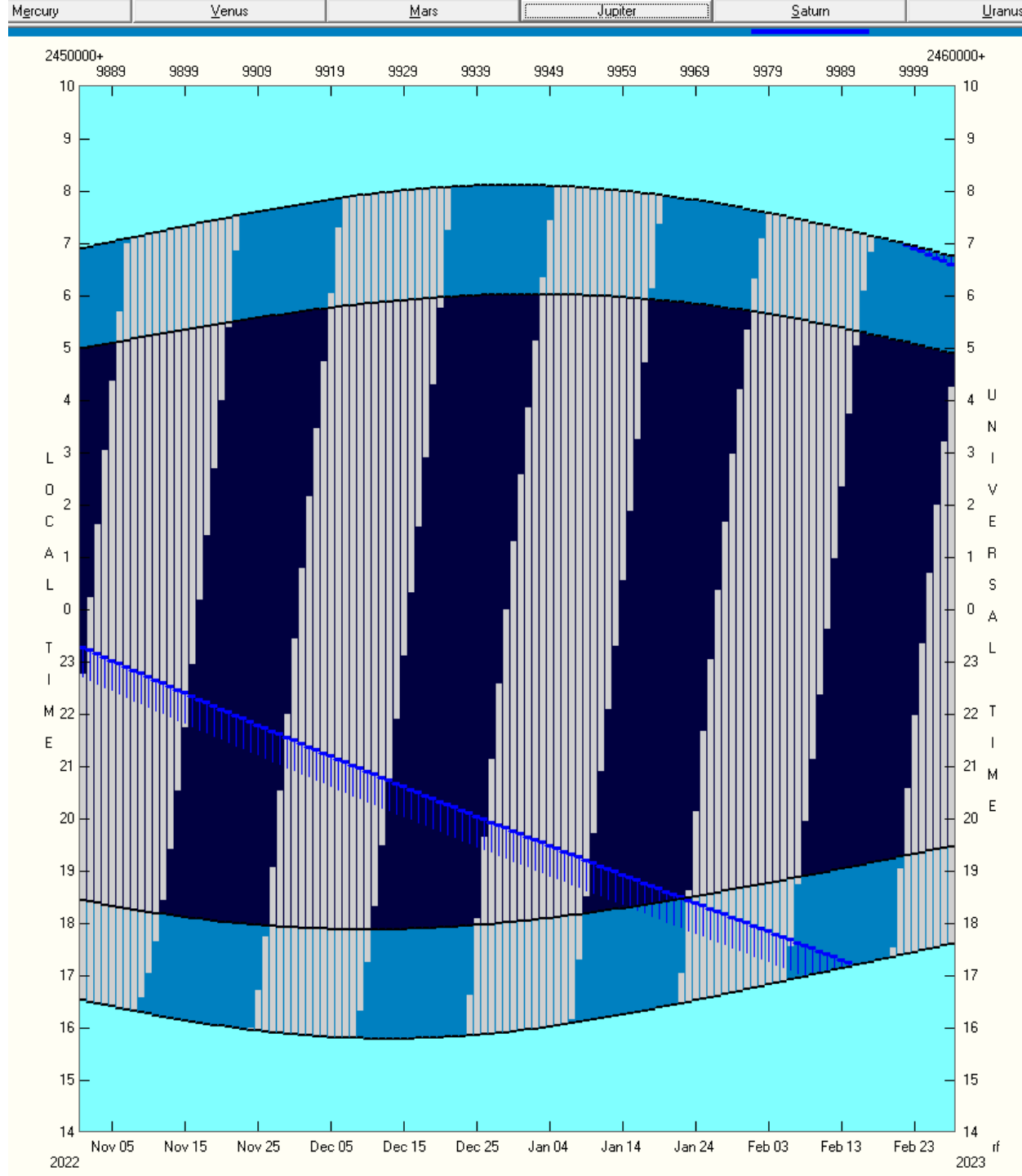
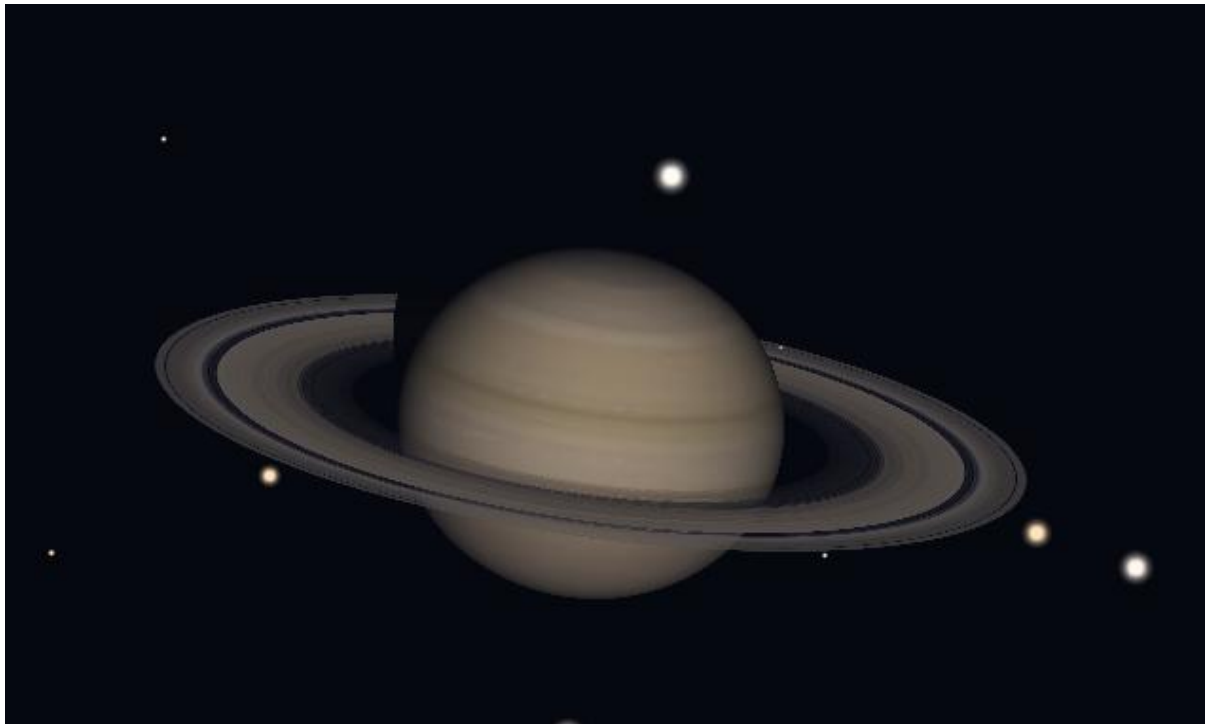
Saturn

Reached opposition last August

Setting about 22.00 – low down in Capricorn

Around 15 degrees up in SSW at 20.00

Magnitude around 1.25





Uranus

Pisces

Cetus

Jupiter

Aquarius

Saturn

Sculptor

SE

S

SW

Date and time		Julian Day				
2022	- 11 - 23	21	:	0	:	0

Uranus & Neptune

Uranus - opposition was November 8

Well placed in Aries

SE

About 46 degrees up at 21.00

Magnitude around 5.8

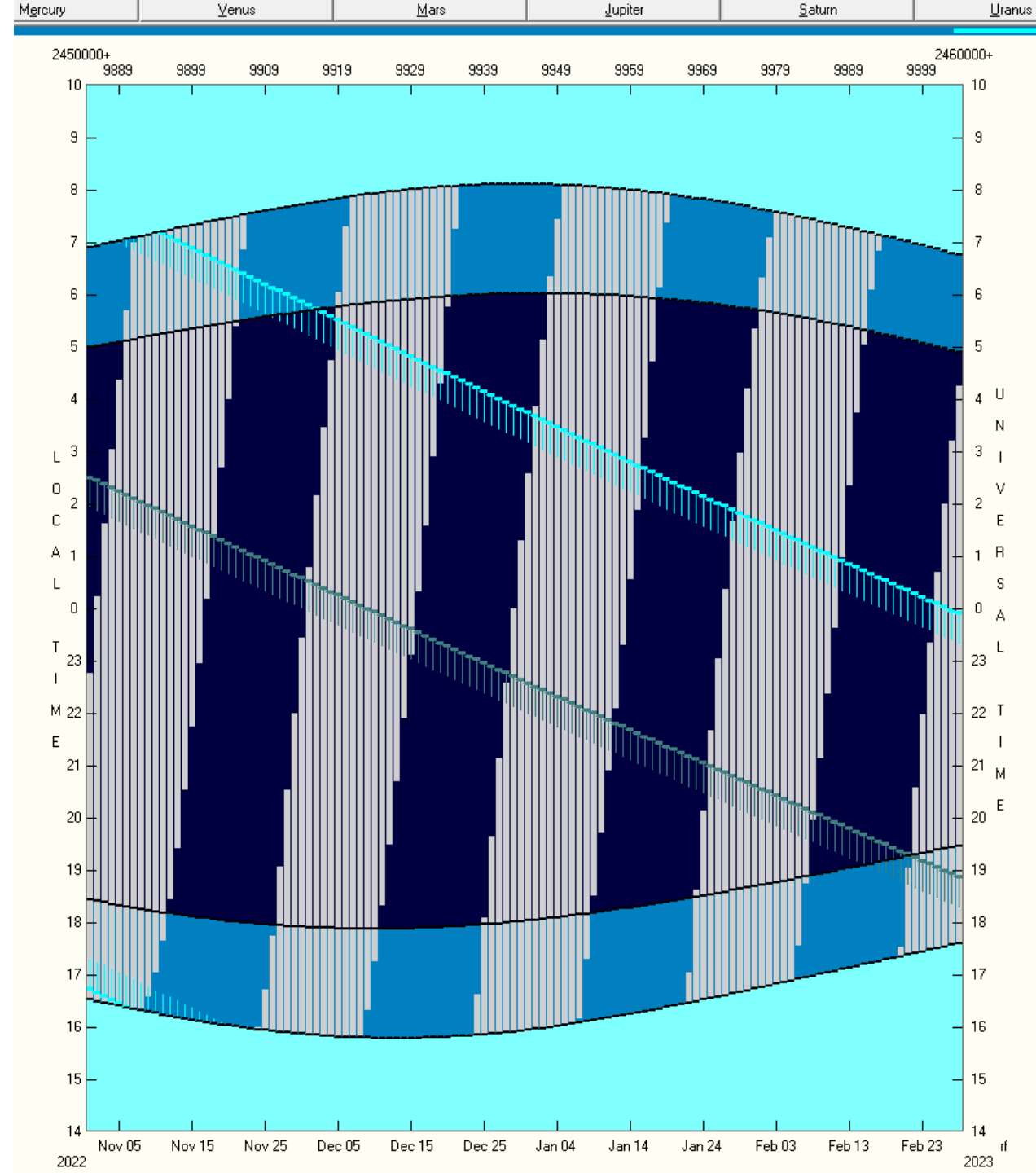
Neptune – opposition was September 16

About 7½ degrees below right from Jupiter

Around 30 degrees up at 21.00

SSW

Magnitude 8





Capella

Perseus

Triangulum

Auriga

Aries

Pisces

Jupiter

Uranus

Mars

Taurus

Cetus

Orion

Sculptor

E

S

SE

Eridanus

Fornex

Date and time						Date and time			Julian Day		
2022	-	11	-	17		21	:	0	:	0	

Occultation of Uranus – December 5

From London:

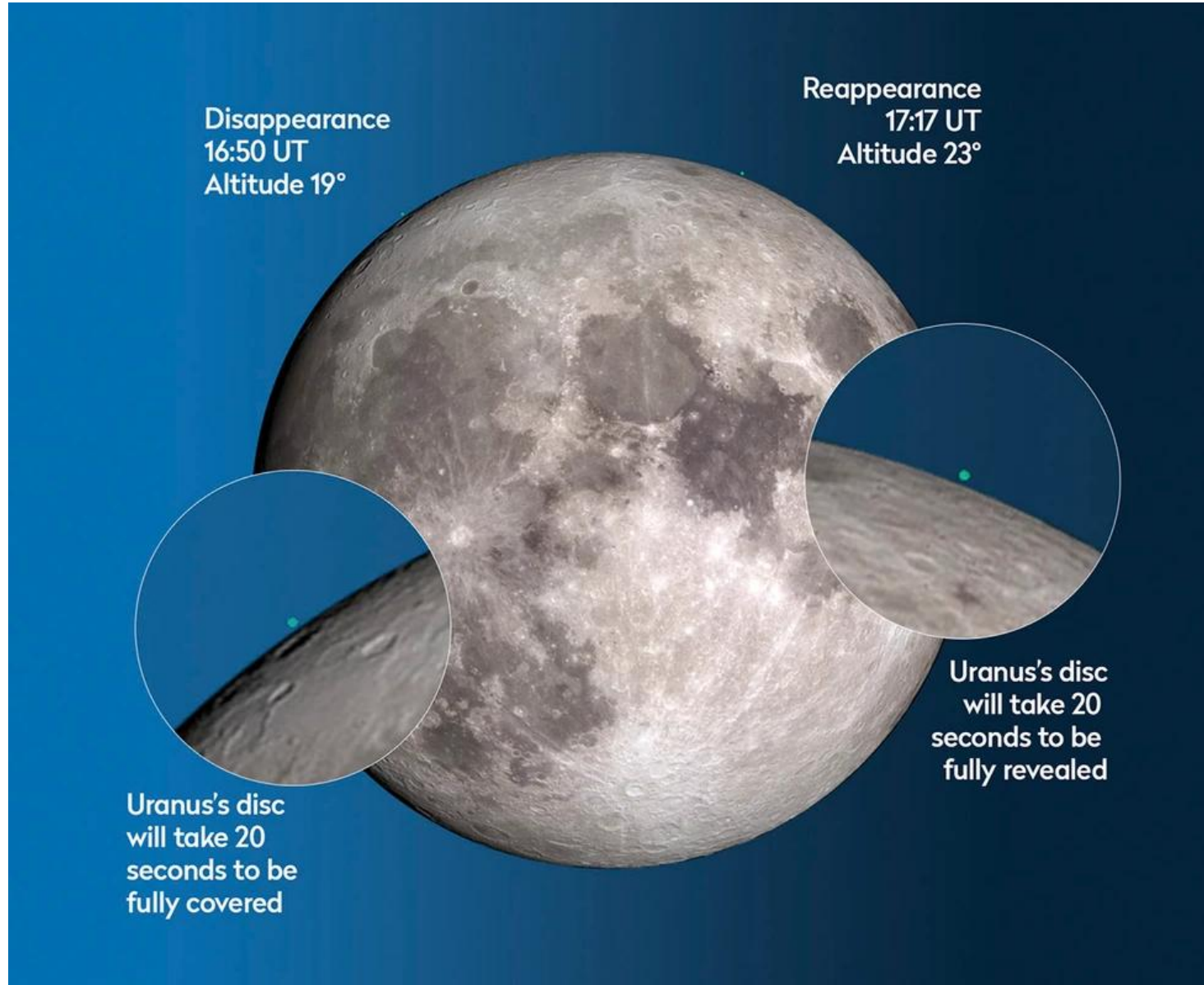
Disappears 16.44 (twilight)

Reappears 17.20 (still twilight!)

Moon 12 days old (94% lit)

Uranus disappears behind unlit side

Reappears on lit side





Urs

Moon



Urs

Moon

Date and time ✕

Date and time				Julian Day					
2022	-	12	-	5	16	:	44	:	0

Date and time ✕

Date and time				Julian Day					
2022	-	12	-	5	16	:	46	:	0



Date and time ✕

Date and time				Julian Day					
2022	-	12	-	5	17	:	19	:	0

Date and time ✕

Date and time				Julian Day					
2022	-	12	-	5	17	:	20	:	0