

Michael Lee

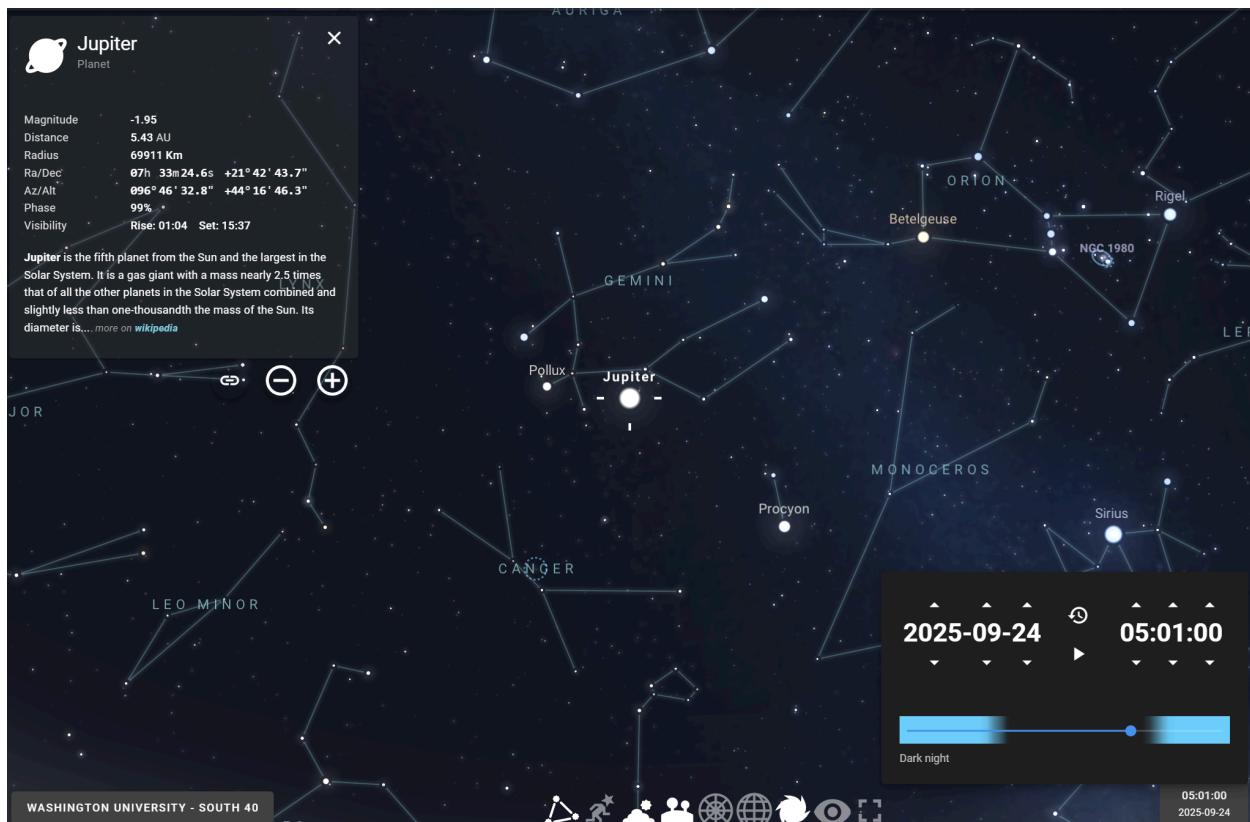
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9/23/2025

1.

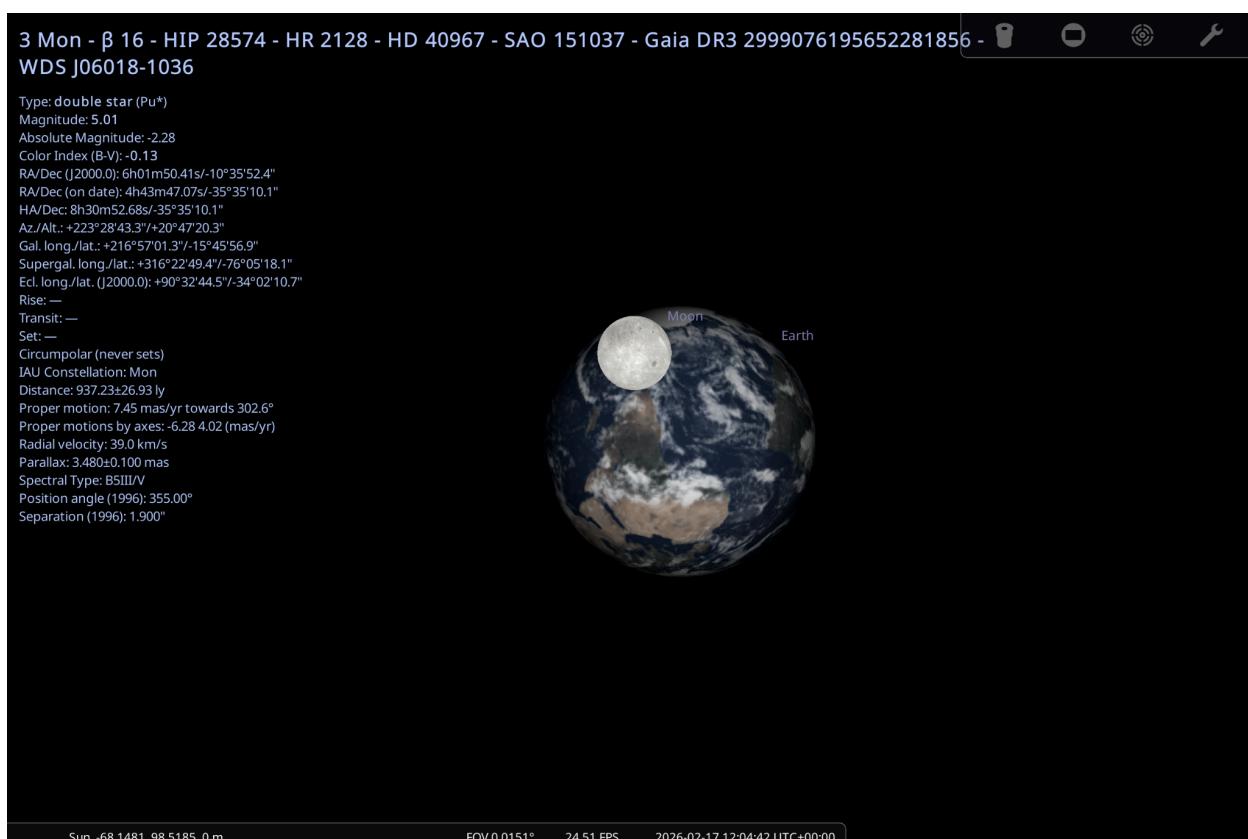
Planet	Rise Time	Set Time	Visibility Interval
Mercury	07:36	19:19	07:36 - 19:19
Venus	04:44	17:58	04:44 - 17:58
Mars	09:21	20:10	09:21 - 20:10
Jupiter	01:04	15:41	01:04 - 15:41
Saturn	18:54	06:39	00:00 - 06:39; 18:54 - 23:59
Sun	06:52	18:55	06:52 - 18:55
Moon	09:37	20:02	09:37 - 20:02

Jupiter



In this photo, we can observe that is located on the far side of the left twin in Gemini

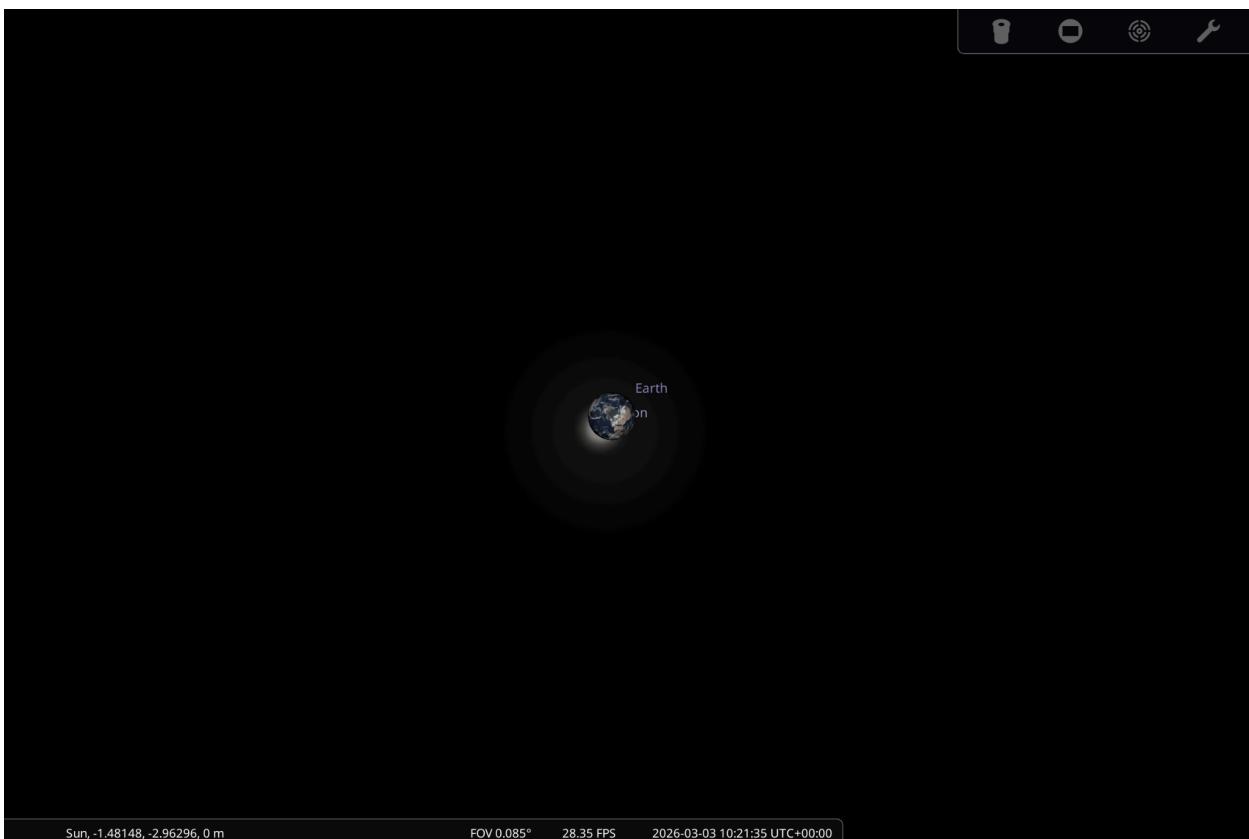
2. The next solar eclipse will be on 2/17/2026. It will be visible Antarctica and parts of Africa and South America.



This solar eclipse will NOT be visible in St. Louis



3. The next lunar eclipse will be on 3/3/2026, as we can determine by looking at this screenshot from Stellarium



In St. Louis, we will be able to witness this eclipse:

Moon

Type: moon
Magnitude: -1.47 (reduced to -0.78 by 5.35 Airmasses)
Absolute Magnitude: 0.21
Mean Opposition Magnitude: -12.74
RA/Dec (J2000.0): 10h51m55.91s/+5°57'36.3"
RA/Dec (on date): 10h53m17.92s/+5°49'14.3"
HA/Dec: 5h24m33.95s/+5°52'23.9" (apparent)
Az./Alt.: +269°04'54.2"/+10°34'35.1" (apparent)
Gal. long./lat.: +244°11'53.9"/+4°34'33.6"
Supergal. long./lat.: +100°54'16.9"/-27°29'54.7"
Ecl. long./lat. (J2000.0): +162°02'08.6"/-1°10'31.9"
Ecl. long./lat. (on date): +162°24'11.5"/-1°10'29.9"
Ecliptic obliquity (on date): +23°26'18.2"
Mean Sidereal Time: 16h18m07.5s
Apparent Sidereal Time: 16h18m08.0s
Rise: 18h25m
Transit: 0h01m
Set: 6h32m
Parallactic Angle: +51°43'18.3"
IAU Constellation: Leo
Zodiac: ♌ 13°19'
Hourly motion: +0°32'23" towards 121.0°
Hourly motion: da=+0°2'753" dδ=-0°16'44"
Elongation: 178°43'17.7"
Elong, in Ecl.Long.: E179°30'22"
Phase angle: +1°16'30.5"
Illuminated: 100.0%
Distance from Sun: 0.994 AU (148,681 M km)
Distance: 0.002549 AU (381391.400 km)
Light time: 0h00m01.3s
Orbital velocity: 1.033 km/s
Heliocentric velocity: 31.072 km/s
Sideral period: 27.32 days (0.075 a)
Synodic period: 29.53 days (0.081 a)
Apparent diameter: +0°31'19.23"
Diameter: 3474.8 km
Sideral day: 655h43m11.6s
Mean solar day: 708h44m02.9s
Equatorial rotation velocity: 4.624 m/s
Moon age: 14.8 days old (Full Moon)
Position angle of bright limb: -134°50'28"
Position Angle of axis: +20°56'55"
Libration: +4°46'35" towards +5°57'55" (W)

Earth, GPS N39 W90; 0 m

FOV 7.24° 11.02 FPS 2026-03-03 05:33:04 UTC-06:01

A screenshot of the Stellarium software interface. It shows the Moon and several stars in the night sky. The Moon is prominent in the center. There are several small icons in the top right corner. At the bottom, there is a status bar with the text "Earth, GPS N39 W90; 0 m", "FOV 7.24°", "11.02 FPS", and "2026-03-03 05:33:04 UTC-06:01".