

# Sky this Month

April 2026

By David Mills

MOON

**FULL MOON**

# Moon

- The full Moon is on April 1<sup>st</sup>, at 10:12 p.m.
- This month's full moon is called the Pink Moon
- Moonrise on April 1<sup>st</sup>, is at 7:34 p.m. in the eastern twilight sky.

# Moon



Type: **moon**  
 Magnitude: **-12.82** (reduced to **-8.36** by **35.07** Airmasses)  
 Absolute Magnitude: 0.21  
 Mean Opposition Magnitude: -12.74  
 RA/Dec (J2000.0): 12h37m25.35s/-7°25'09.8"  
 RA/Dec (on date): 12h38m47.12s/-7°33'52.4"  
 HA/Dec: 18h29m54.27s/-7°12'16.1" (apparent)  
 Az./Alt.: +100°21'52.9"/+0°16'29.4" (apparent)  
 Gal. long./lat.: +296°49'22.5"/+55°17'09.7"  
 Supergal. long./lat.: +122°26'19.9"/-6°12'35.9"  
 Ecl. long./lat. (J2000.0): +191°30'40.2"/-3°06'56.7"  
 Ecl. long./lat. (on date): +191°52'45.2"/-3°07'02.1"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 7h07m13.2s  
 Apparent Sidereal Time: 7h07m13.6s  
 Rise: 19h36m  
 Transit: 0h35m  
 Set: 6h31m  
 Parallax Angle: -45°12'13.1"  
 IAU Constellation: Vir  
 Zodiac: ♍ 9°41'  
 Hourly motion: +0°31'14" towards 120.5°  
 Hourly motion:  $da=+0^{\circ}27'06''$   $d\delta=-0^{\circ}15'56''$   
 Elongation: 176°51'36.5"  
 Elong. in Ecl Long.: E179°37'40"  
 Phase angle: +3°07'53.8"  
 Illuminated: 99.9%  
 Distance from Sun: 1.002 AU (149,896 M km)  
 Distance: 0.002628 AU (393206.898 km)  
 Light time: 0h00m01.3s  
 Orbital velocity: 1.005 km/s  
 Heliocentric velocity: 30,804 km/s  
 Sidereal period: 27.32 days (0.075 a)  
 Synodic period: 29.53 days (0.081 a)  
 Apparent diameter: +0°30'22.77"  
 Diameter: 3474.8 km  
 Sidereal day: 655h43m11.6s  
 Mean solar day: 708h44m02.9s  
 Equatorial rotation velocity: 4.624 m/s  
 Moon age: 14.7 days old (Waxing Gibbous)  
 Position angle of bright limb: -150°04'06"  
 Position Angle of axis: +21°52'21"  
 Libration: +5°29'12" towards +131°54'38" (NWII)  
 Libration: +4°04'60"/+3°39'54"  
 Subsolar point: +5°22'51"/+0°55'23"  
 Colongitude: +84°37'09"  
 Albedo: 0.12  
 Solar Az./Alt.: +277°19'45"/-0°00'08"



Date and Time ✕

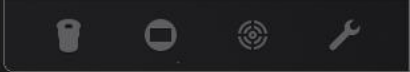
Date and Time				Julian Day					
2026	-	4	-	1	19	:	39	:	7

**NEW MOON**

# Moon

- The New Moon is on April 17<sup>th</sup>, at 7:52 a.m. EDT.
- The Moon is north of the sun.
- This month's moon is the New Flower Moon.

# Moon



Type: moon  
 Magnitude: -3.20  
 Absolute Magnitude: 0.21  
 Mean Opposition Magnitude: -12.74  
 RA/Dec (J2000.0): 1h37m48.87s/+13°25'45.6"  
 RA/Dec (on date): 1h39m13.45s/+13°33'50.2"  
 HA/Dec: 18h42m13.60s/+13°33'50.2"  
 Az./Alt.: +87°23'45.2"/+16°56'00.9"  
 Gal. long./lat.: +139°53'15.8"/-47°54'35.1"  
 Supergal. long./lat.: +312°21'43.6"/-6°22'13.6"  
 Ecl. long./lat. (J2000.0): +27°32'41.5"/+3°02'00.9"  
 Ecl. long./lat. (on date): +27°54'48.2"/+3°02'11.7"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 20h21m26.7s  
 Apparent Sidereal Time: 20h21m27.0s  
 Rise: 6h12m  
 Transit: 13h19m  
 Set: 20h42m  
 Parallaxic Angle: -47°21'21.7"  
 IAU Constellation: Psc  
 Zodiac: ♈ 24°48'  
 Hourly motion: +0°36'24" towards 61.2°  
 Hourly motion:  $da=+0^{\circ}32'35"$   $d\delta=+0^{\circ}17'56"$   
 Elongation: 3°04'00.7"  
 Elong. in Ecl.Long.: E0°25'25"  
 Phase angle: +176°55'32.6"  
 Illuminated: 0.1%  
 Distance from Sun: 1.001 AU (149,808 M km)  
 Distance: 0.002422 AU (362283,770 km)  
 Light time: 0h00m01.2s  
 Orbital velocity: 1.082 km/s  
 Heliocentric velocity: 28.593 km/s  
 Sidereal period: 27.32 days (0.075 a)  
 Synodic period: 29.53 days (0.081 a)  
 Apparent diameter: +0°32'58.35"  
 Diameter: 3474.8 km  
 Sidereal day: 655h43m11.6s  
 Mean solar day: 708h44m02.9s  
 Equatorial rotation velocity: 4.624 m/s  
 Moon age: 29.5 days old (New Moon)  
 Position angle of bright limb: +166°44'59"  
 Position Angle of axis: +339°38'06"  
 Libration: +6°19'58" towards +323°01'25" (SE!!)  
 Libration: -3°48'33"/-5°03'33"  
 Subsolar point: +176°15'33"/+1°09'22"  
 Colongitude: +273°44'27"  
 Albedo: 0.12  
 Solar Az./Alt.: +89°10'13"/+14°23'12"

Venus



Mars  
 Saturn  
 Mercury

E

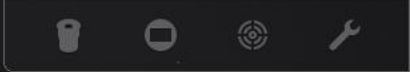
Date and Time ✕

Date and Time	Julian Day
2026 - 4 - 17	7 : 52 : 12

# Moon

- The planets Mercury, Mars and Saturn form a triple conjunction just west of the sun.
- Venus is East of the and climbing in the western sky at sunset.

# Moon



Type: moon  
 Magnitude: -3.20  
 Absolute Magnitude: 0.21  
 Mean Opposition Magnitude: -12.74  
 RA/Dec (J2000.0): 1h37m48.87s/+13°25'45.6"  
 RA/Dec (on date): 1h39m13.45s/+13°33'50.2"  
 HA/Dec: 18h42m13.60s/+13°33'50.2"  
 Az./Alt.: +87°23'45.2"/+16°56'00.9"  
 Gal. long./lat.: +139°53'15.8"/-47°54'35.1"  
 Supergal. long./lat.: +312°21'43.6"/-6°22'13.6"  
 Ecl. long./lat. (J2000.0): +27°32'41.5"/+3°02'00.9"  
 Ecl. long./lat. (on date): +27°54'48.2"/+3°02'11.7"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 20h21m26.7s  
 Apparent Sidereal Time: 20h21m27.0s  
 Rise: 6h12m  
 Transit: 13h19m  
 Set: 20h42m  
 Parallaxic Angle: -47°21'21.7"  
 IAU Constellation: Psc  
 Zodiac: ♈ 24°48'  
 Hourly motion: +0°36'24" towards 61.2°  
 Hourly motion:  $da=+0^{\circ}32'35"$   $d\delta=+0^{\circ}17'56"$   
 Elongation: 3°04'00.7"  
 Elong. in Ecl.Long.: E0°25'25"  
 Phase angle: +176°55'32.6"  
 Illuminated: 0.1%  
 Distance from Sun: 1.001 AU (149,808 M km)  
 Distance: 0.002422 AU (362283,770 km)  
 Light time: 0h00m01.2s  
 Orbital velocity: 1.082 km/s  
 Heliocentric velocity: 28.593 km/s  
 Sidereal period: 27.32 days (0.075 a)  
 Synodic period: 29.53 days (0.081 a)  
 Apparent diameter: +0°32'58.35"  
 Diameter: 3474.8 km  
 Sidereal day: 655h43m11.6s  
 Mean solar day: 708h44m02.9s  
 Equatorial rotation velocity: 4.624 m/s  
 Moon age: 29.5 days old (New Moon)  
 Position angle of bright limb: +166°44'59"  
 Position Angle of axis: +339°38'06"  
 Libration: +6°19'58" towards +323°01'25" (SE!!)  
 Libration: -3°48'33"/-5°03'33"  
 Subsolar point: +176°15'33"/+1°09'22"  
 Colongitude: +273°44'27"  
 Albedo: 0.12  
 Solar Az./Alt.: +89°10'13"/+14°23'12"

Venus



Mars  
Saturn  
Mercury

E

Date and Time ✕

Date and Time	Julian Day
<span>▲</span> 2026 <span>▼</span> - <span>▲</span> 4 <span>▼</span> - <span>▲</span> 17 <span>▼</span>	<span>▲</span> 7 <span>▼</span> : <span>▲</span> 52 <span>▼</span> : <span>▲</span> 12 <span>▼</span>

**MERCURY**

# Mercury

- On April 1<sup>st</sup>, Mercury is deep in the solar glare as the days get longer. Mercury rises at 6:08 a.m. on April 1<sup>st</sup>.
- Mercury moves eastward towards the sun by mid-month. Not visible for the remainder of the month.

# Mercury



Type: planet  
 Magnitude: 0.40 (reduced to 4.19 by 29.28 Airmasses)  
 Absolute Magnitude: -0.60  
 RA/Dec (J2000.0): 23h02m02.44s/-7°40'40.7"  
 RA/Dec (on date): 23h03m24.77s/-7°32'10.9"  
 HA/Dec: 18h32m26.47s/-7°13'34.1" (apparent)  
 Az./Alt.: +100°49'25.2"/+0°42'20.4" (apparent)  
 Gal. long./lat.: +64°44'54.5"/-57°36'05.3"  
 Supergal. long./lat.: +280°07'56.6"/+24°32'16.0"  
 Ecl. long./lat. (J2000.0): +343°41'46.7"/-1°22'19.6"  
 Ecl. long./lat. (on date): +344°03'53.3"/-1°22'24.5"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 17h34m35.4s  
 Apparent Sidereal Time: 17h34m35.8s  
 Rise: 6h04m  
 Transit: 11h37m  
 Set: 17h11m  
 Parallax: Angle: -45°07'12.2"  
 IAU Constellation: Aqr  
 Zodiac: ♏ 15°51'  
 Hourly motion: +0°02'12" towards 77.4°  
 Hourly motion:  $da=+0^{\circ}02'10"$   $d\delta=+0^{\circ}00'29"$   
 Elongation: 27°39'57.9"  
 Elong. in Ecl. Long.: W27°38'05" **E**  
 Phase angle: +94°34'32.8"  
 Illuminated: 46.0%  
 Distance from Sun: 0.465 AU (69.628 M km)  
 Distance: 0.848 AU (126.835 M km)  
 Light time: 0h07m03.1s  
 Orbital velocity: 38.991 km/s  
 Sidereal period: 87.97 days (0.241 a)  
 Synodic period: 115.88 days (0.317 a)  
 Apparent diameter: +0°00'07.94"  
 Equatorial diameter: 4881.1 km  
 Sidereal day: 1407h30m27.0s  
 Mean solar day: 4222h26m51.1s  
 Equatorial rotation velocity: 3.026 m/s  
 Position Angle of axis: +334°16'25"  
 Center point:  $L_s=+345^{\circ}08'49"$   $\phi_s=-4^{\circ}58'48"$   
 Subsolar point:  $L_s=+79^{\circ}44'28"$   $\phi_s=-0^{\circ}01'20"$   
 Albedo: 0.06  
 Solar Az./Alt.: +74°35'39"/-8°50'00"  
 Lunar Az./Alt.: +261°07'17"/+3°13'46"

Mercury

Date and Time ✕

Date and Time				Julian Day					
2026	-	4	-	1	6	:	8	:	42

**VENUS**

# Venus

- On April 1<sup>st</sup>, Venus is only 15 degrees above the western horizon at sunset.

# Venus - Evening Star



Type: **planet**  
Magnitude: **-3.90** (reduced to **-3.32** by **4.48** Airmasses)  
Absolute Magnitude: -5.18  
Color Index (B-V): **0.91**  
RA/Dec (J2000.0): 2h01m52.83s/+11°58'09.4"  
RA/Dec (on date): 2h03m17.63s/+12°05'48.7"  
HA/Dec: 5h35m44.03s/+12°08'43.6" (apparent)  
Az./Alt.: +274°36'42.5"/+12°45'40.0" (apparent)  
Gal. long./lat.: +148°49'26.6"/-47°19'48.3"  
Supergal. long./lat.: +312°51'16.0"/-12°23'55.8"  
Ecl. long./lat. (J2000.0): +32°31'22.6"/-0°24'13.9"  
Ecl. long./lat. (on date): +32°53'28.9"/-0°24'01.5"  
Ecliptic obliquity (on date): +23°26'09.1"  
Mean Sidereal Time: 7h39m14.0s  
Apparent Sidereal Time: 7h39m14.4s  
Rise: 7h44m  
Transit: 14h35m  
Set: 21h27m  
Parallactic Angle: +46°51'42.7"  
IAU Constellation: Ari  
Zodiac: ♈ 0°49'  
Hourly motion: +0°03'04" towards 68.6°  
Hourly motion:  $da=+0^{\circ}02'55"$   $d\delta=+0^{\circ}01'09"$   
Elongation: 20°37'17.7"  
Elong. in Ecl.Long.: E20°37'04"  
Phase angle: +29°11'38.1"  
Illuminated: 93.6%  
Distance from Sun: 0.722 AU (107.951 M km)  
Distance: 1.565 AU (234.164 M km)  
Light time: 0h13m01.1s  
Orbital velocity: 35.104 km/s  
Sidereal period: 224.70 days (0.615 a)  
Synodic period: 583.92 days (1.599 a)  
Apparent diameter: +0°00'10.66"  
Equatorial diameter: 12103.6 km  
Sidereal day: 5832h26m37.0s  
Mean solar day: 2802h00m22.2s  
Equatorial rotation velocity: 1.811 m/s  
Position Angle of axis: +339°58'37"  
Center point:  $L_s=+212^{\circ}25'21"$   $\phi_s: -0^{\circ}50'05"$   
Subsolar point:  $L_s=+241^{\circ}36'32"$   $\phi_s: -0^{\circ}10'58"$   
Albedo: 0.77  
Solar Az./Alt.: +282°58'30"/-6°10'57"  
Lunar Az./Alt.: +105°56'56"/+5°14'01"



W

Date and Time ✕

Date and Time				Julian Day					
2026	-	4	-	1	20	:	11	:	2

# Venus

- On April 1<sup>st</sup>, Venus sets at 9:25 p.m. in the western sky.

# Venus - Evening Star



Type: **planet**  
Magnitude: **-3.90** (reduced to **0.74** by **36.74** Airmasses)  
Absolute Magnitude: -5.18  
Color Index (B-V): **0.91**  
RA/Dec (J2000.0): 2h02m07.34s/+11°59'35.0"  
RA/Dec (on date): 2h03m32.16s/+12°07'14.0"  
HA/Dec: 6h48m57.23s/+12°29'58.5" (apparent)  
Az./Alt.: +287°25'26.7"/+0°10'27.8" (apparent)  
Gal. long./lat.: +148°53'24.5"/-47°17'05.1"  
Supergal. long./lat.: +312°53'50.8"/-12°26'48.5"  
Ecl. long./lat. (J2000.0): +32°35'12.0"/-0°24'06.5"  
Ecl. long./lat. (on date): +32°57'18.2"/-0°23'54.0"  
Ecliptic obliquity (on date): +23°26'09.1"  
Mean Sidereal Time: 8h54m00.0s  
Apparent Sidereal Time: 8h54m00.4s  
Rise: 7h44m  
Transit: 14h35m  
Set: 21h27m  
Parallactic Angle: +44°22'52.5"  
IAU Constellation: Ari  
Zodiac: ♈ 0°53'  
Hourly motion: +0°03'05" towards 68.6°  
Hourly motion:  $d\alpha=+0^{\circ}02'55"$   $d\delta=+0^{\circ}01'09"$   
Elongation: 20°38'02.4"  
Elong. in Ecl.Long.: E20°37'49"  
Phase angle: +29°12'48.3"  
Illuminated: 93.6%  
Distance from Sun: 0.722 AU (107.950 M km)  
Distance: 1.565 AU (234.138 M km)  
Light time: 0h13m01.0s  
Orbital velocity: 35.105 km/s  
Sidereal period: 224.70 days (0.615 a)  
Synodic period: 583.92 days (1.599 a)  
Apparent diameter: +0°00'10.66"  
Equatorial diameter: 12103.6 km  
Sidereal day: 5832h26m37.0s  
Mean solar day: 2802h00m22.2s  
Equatorial rotation velocity: 1.811 m/s  
Position Angle of axis: +339°59'20"  
Center point:  $L_s=+212^{\circ}33'46"$   $\phi_s:-0^{\circ}50'12"$   
Subsolar point:  $L_s=+241^{\circ}46'08"$   $\phi_s:-0^{\circ}11'12"$   
Albedo: 0.77  
Solar Az./Alt.: +297°04'44"/-18°41'04"  
Lunar Az./Alt.: +119°54'56"/+16°51'31"

Hamal

Venus

Date and Time ✕

Date and Time			Julian Day		
2026	-	4	-	1	
21	:	25	:	36	

# Venus

- On April 18th, Venus shares a quadruple conjunction with a 1-day old Moon 5 degrees to the northwest of Venus.
- At the same time, the Hyades is 5 degrees to the northeast of Venus. M45 is directly above Venus.
- All 4 objects are visible low in the western sky at sunset.

# Venus - Evening Star



Type: planet  
Magnitude: -3.90 (reduced to -3.34 by 4.36 Airmasses)  
Absolute Magnitude: -5.18  
Color Index (B-V): 0.91  
RA/Dec (J2000.0): 3h23m36.91s/+18°57'42.3"  
RA/Dec (on date): 3h25m07.43s/+19°03'21.4"  
HA/Dec: 6h00m26.04s/+19°06'10.1" (apparent)  
Az./Alt.: +283°59'33.7"/+13°08'14.5" (apparent)  
Gal. long./lat.: +165°45'31.6"/-30°58'37.9"  
Supergal. long./lat.: +328°15'11.6"/-27°30'16.7"  
Ecl. long./lat. (J2000.0): +53°23'11.0"/+0°21'11.8"  
Ecl. long./lat. (on date): +53°45'18.8"/+0°21'29.3"  
Ecliptic obliquity (on date): +23°26'09.1"  
Mean Sidereal Time: 9h25m46.0s  
Apparent Sidereal Time: 9h25m46.4s  
Rise: 7h28m  
Transit: 14h50m  
Set: 22h12m  
Parallactic Angle: +47°18'03.0"  
IAU Constellation: Ari  
Zodiac: ♈ 21°16'  
Hourly motion: +0°03'03" towards 74.4°  
Hourly motion:  $da=+0^{\circ}03'06"$   $d\delta=+0^{\circ}00'52"$   
Elongation: 24°45'52.1"  
Elong. in Ecl.Long.: E24°45'43"  
Phase angle: +35°46'11.0"  
Illuminated: 90.6%  
Distance from Sun: 0.720 AU (107.663 M km)  
Distance: 1.496 AU (223.775 M km)  
Light time: 0h12m26.4s  
Orbital velocity: 35.198 km/s  
Sidereal period: 224.70 days (0.615 a)  
Synodic period: 583.92 days (1.599 a)  
Apparent diameter: +0°00'11.16"  
Equatorial diameter: 12103.6 km  
Sidereal day: 5832h26m37.0s  
Mean solar day: 2802h00m22.2s  
Equatorial rotation velocity: 1.811 m/s  
Position Angle of axis: +345°06'22"  
Center point:  $L_s=+258^{\circ}31'02"$   $\phi_s: -1^{\circ}29'34"$   
Subsolar point:  $L_s=+294^{\circ}17'49"$   $\phi_s: -1^{\circ}22'37"$   
Albedo: 0.77  
Solar Az./Alt.: +295°17'59"/-9°00'14"  
Lunar Az./Alt.: +289°41'59"/+11°16'23"

Aldebaran

Uranus

Venus

Moon

W

NW

Date and Time ✕

Date and Time			Julian Day		
2026	-	4 - 18	20	:	50 : 27

# Venus

- On April 19th, Venus shares a quadruple conjunction with the Moon, M45, the Hyades.
- Venus, a 2-day old Moon and M45 form a short straight line with Venus. The Hyades form a small triangle with all 4 objects close together at sunset low on the western horizon.

# Venus - Evening Star



Type: planet  
Magnitude: -3.90 (reduced to -3.32 by 4.52 Airmasses)  
Absolute Magnitude: -5.18  
Color Index (B-V): 0.91  
RA/Dec (J2000.0): 3h28m35.25s/+19°18'33.7"  
RA/Dec (on date): 3h30m06.15s/+19°24'03.8"  
HA/Dec: 6h04m34.77s/+19°26'59.3" (apparent)  
Az./Alt.: +284°56'07.6"/+12°39'17.1" (apparent)  
Gal. long./lat.: +166°32'23.1"/-29°57'14.3"  
Supergal. long./lat.: +329°16'03.4"/-28°20'21.7"  
Ecl. long./lat. (J2000.0): +54°36'37.1"/+0°23'57.9"  
Ecl. long./lat. (on date): +54°58'45.2"/+0°24'15.6"  
Ecliptic obliquity (on date): +23°26'09.1"  
Mean Sidereal Time: 9h34m54.0s  
Apparent Sidereal Time: 9h34m54.3s  
Rise: 7h27m  
Transit: 14h51m  
Set: 22h01m  
Parallactic Angle: +47°10'08.8"  
IAU Constellation: Tau  
Zodiac: ♉ 22°31'  
Hourly motion: +0°03'03" towards 74.8°  
Hourly motion:  $\text{d}\alpha=+0^{\circ}03'06"$   $\text{d}\delta=+0^{\circ}00'51"$   
Elongation: 25°00'29.7"  
Elong. in Ecl.Long.: E25°00'18"  
Phase angle: +36°10'03.6"  
Illuminated: 90.4%  
Distance from Sun: 0.720 AU (107.650 M km)  
Distance: 1.491 AU (223.093 M km)  
Light time: 0h12m24.2s  
Orbital velocity: 35.202 km/s  
Sidereal period: 224.70 days (0.615 a)  
Synodic period: 583.92 days (1.599 a)  
Apparent diameter: +0°00'11.19"  
Equatorial diameter: 12103.6 km  
Sidereal day: 5832h26m37.0s  
Mean solar day: 2802h00m22.2s  
Equatorial rotation velocity: 1.811 m/s  
Position Angle of axis: +345°29'01"  
Center point:  $L_s=+261^{\circ}13'43"$   $\phi_s: -1^{\circ}31'42"$   
Subsolar point:  $L_s=+297^{\circ}24'27"$   $\phi_s: -1^{\circ}26'24"$   
Albedo: 0.77  
Solar Az./Alt.: +296°32'25"/-9°36'36"  
Lunar Az./Alt.: +284°00'23"/+23°02'43"



Date and Time

Date and Time			Julian Day		
2026	-	4	-	19	20
					:
					56
					:
					37

# Venus

- On April 26th, Venus shares a triple conjunction with M45 and the Hyades.
- Venus sits in a straight line almost equal distance between both M45 and the Hyades in the western sky at sunset.

# Venus - Evening Star



Type: **planet**  
Magnitude: **-3.91** (reduced to **-3.31** by **4.62** Airmasses)  
Absolute Magnitude: **-5.18**  
Color Index (B-V): **0.91**  
RA/Dec (J2000.0): **4h03m48.93s/+21°29'27.8"**  
RA/Dec (on date): **4h05m22.31s/+21°33'50.9"**  
HA/Dec: **6h14m56.37s/+21°36'51.1"** (apparent)  
Az./Alt.: **+288°15'02.2"/+12°21'08.6"** (apparent)  
Gal. long./lat.: **+171°34'57.9"/-22°42'31.7"**  
Supergal. long./lat.: **+336°49'20.6"/-33°55'09.3"**  
Ecl. long./lat. (J2000.0): **+63°08'28.2"/+0°43'09.5"**  
Ecl. long./lat. (on date): **+63°30'37.6"/+0°43'28.7"**  
Ecliptic obliquity (on date): **+23°26'09.1"**  
Mean Sidereal Time: **10h20m32.2s**  
Apparent Sidereal Time: **10h20m32.5s**  
Rise: **7h24m**  
Transit: **14h58m**  
Set: **22h33m**  
Parallactic Angle: **+46°58'42.0"**  
IAU Constellation: **Tau**  
Zodiac: **♋ 1°20'**  
Hourly motion: **+0°03'02"** towards **77.9°**  
Hourly motion: **dα=+0°03'11" dδ=+0°00'41"**  
Elongation: **26°42'31.9"**  
Elong. in Ecl.Long.: **E26°41'59"**  
Phase angle: **+38°58'53.5"**  
Illuminated: **88.9%**  
Distance from Sun: **0.719 AU (107.567 M km)**  
Distance: **1.458 AU (218.107 M km)**  
Light time: **0h12m07.5s**  
Orbital velocity: **35.229 km/s**  
Sidereal period: **224.70 days (0.615 a)**  
Synodic period: **583.92 days (1.599 a)**  
Apparent diameter: **+0°00'11.45"**  
Equatorial diameter: **12103.6 km**  
Sidereal day: **5832h26m37.0s**  
Mean solar day: **2802h00m22.2s**  
Equatorial rotation velocity: **1.811 m/s**  
Position Angle of axis: **+348°19'46"**  
Center point: **L<sub>s</sub>=+280°09'13" φ<sub>s</sub>:-1°45'35"**  
Subsolar point: **L<sub>s</sub>=+319°09'13" φ<sub>s</sub>:-1°50'51"**  
Albedo: **0.77**  
Solar Az./Alt.: **+301°43'26"/-10°50'12"**  
Lunar Az./Alt.: **+165°31'47"/+50°27'49"**



Date and Time ✕

Date and Time				Julian Day					
2026	-	4	-	26	21	:	13	:	36

# Venus

- On April 30th, Venus shares a triple conjunction with M45 and the Hyades.
- Venus reaches closest approach to the Hyades at sunset.
- From April 19<sup>th</sup> to the end of the month Venus remains in close conjunction with both objects.

# Venus - Evening Star



Type: planet  
 Magnitude: -3.91 (reduced to -3.35 by 4.36 Airmasses)  
 Absolute Magnitude: -5.18  
 Color Index (B-V): 0.91  
 RA/Dec (J2000.0): 4h24m16.82s/+22°31'36.6"  
 RA/Dec (on date): 4h25m51.45s/+22°35'17.6"  
 HA/Dec: 6h14m27.12s/+22°38'06.8" (apparent)  
 Az./Alt.: +288°56'18.0"/+13°07'49.4" (apparent)  
 Gal. long./lat.: +174°12'18.3"/-18°31'10.8"  
 Supergal. long./lat.: +341°33'17.5"/-36°52'06.0"  
 Ecl. long./lat. (J2000.0): +67°59'35.6"/+0°55'00.0"  
 Ecl. long./lat. (on date): +68°21'45.1"/+0°54'09.7"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 10h40m31.4s  
 Apparent Sidereal Time: 10h40m31.8s  
 Rise: 7h24m  
 Transit: 15h03m  
 Set: 22h43m  
 Parallaxic Angle: +47°10'33.3"  
 IAU Constellation: Tau  
 Zodiac: ♉ 6°27'  
 Hourly motion: +0°03'02" towards 79.8°  
 Hourly motion:  $da=+0^{\circ}03'13"$   $d\delta=+0^{\circ}00'35"$   
 Elongation: 27°40'32.8"  
 Elong. in Ecl.Long.: E27°39'44"  
 Phase angle: +40°36'50.0"  
 Illuminated: 88.0%  
 Distance from Sun: 0.719 AU (107.531 M km)  
 Distance: 1.438 AU (215.092 M km)  
 Light time: 0h11m57.5s  
 Orbital velocity: 35.241 km/s  
 Sidereal period: 224.70 days (0.615 a)  
 Synodic period: 583.92 days (1.599 a)  
 Apparent diameter: +0°00'11.61"  
 Equatorial diameter: 12103.6 km  
 Sidereal day: 5832h26m37.0s  
 Mean solar day: 2802h00m22.2s  
 Equatorial rotation velocity: 1.811 m/s  
 Position Angle of axis: +350°06'03"  
 Center point:  $L_s=+290^{\circ}56'21"$   $\phi_s: -1^{\circ}52'37"$   
 Subsolar point:  $L_s=+331^{\circ}34'34"$   $\phi_s: -2^{\circ}02'55"$   
 Albedo: 0.77  
 Solar Az./Alt.: +303°25'57"/-10°34'53"  
 Lunar Az./Alt.: +131°19'35"/+13°34'04"

Betelgeuse



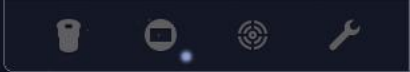
Date and Time ✕

Date and Time				Julian Day					
2026	-	4	-	30	21	:	17	:	49

# Venus

- On April 30th, Venus sets at 10:38 p.m. in the northwestern sky.

# Venus - Evening Star



Type: **planet**  
Magnitude: **-3.91** (reduced to **0.06** by **30.76** Airmasses)  
Absolute Magnitude: -5.18  
Color Index (B-V): **0.91**  
RA/Dec (J2000.0): 4h24m34.08s/+22°32'24.0"  
RA/Dec (on date): 4h26m08.74s/+22°36'04.3"  
HA/Dec: 7h33m45.43s/+22°56'51.5" (apparent)  
Az./Alt.: +302°20'12.9"/+0°34'53.5" (apparent)  
Gal. long./lat.: +174°14'27.1"/-18°27'39.7"  
Supergal. long./lat.: +341°37'23.8"/-36°54'29.8"  
Ecl. long./lat. (J2000.0): +68°03'39.3"/+0°53'58.2"  
Ecl. long./lat. (on date): +68°25'48.8"/+0°54'17.9"  
Ecliptic obliquity (on date): +23°26'09.1"  
Mean Sidereal Time: 12h01m12.2s  
Apparent Sidereal Time: 12h01m12.5s  
Rise: 7h24m  
Transit: 15h03m  
Set: 22h43m  
Parallactic Angle: +41°02'46.4"  
IAU Constellation: Tau  
Zodiac: ♉ 6°32'  
Hourly motion: +0°03'02" towards 79.8°  
Hourly motion:  $\Delta\alpha=+0^{\circ}03'14"$   $\Delta\delta=+0^{\circ}00'35"$   
Elongation: 27°41'20.3"  
Elong. in Ecl.Long.: E27°40'31"  
Phase angle: +40°38'12.2"  
Illuminated: 87.9%  
Distance from Sun: 0.719 AU (107.530 M km)  
Distance: 1.438 AU (215.051 M km)  
Light time: 0h11m57.3s  
Orbital velocity: 35.241 km/s  
Sidereal period: 224.70 days (0.615 a)  
Synodic period: 583.92 days (1.599 a)  
Apparent diameter: +0°00'11.61"  
Equatorial diameter: 12103.6 km  
Sidereal day: 5832h26m37.0s  
Mean solar day: 2802h00m22.2s  
Equatorial rotation velocity: 1.811 m/s  
Position Angle of axis: +350°07'35"  
Center point:  $L_s=+291^{\circ}05'23"$   $\phi_s:-1^{\circ}52'42"$   
Subsolar point:  $L_s=+331^{\circ}44'59"$   $\phi_s:-2^{\circ}03'04"$   
Albedo: 0.77  
Solar Az./Alt.: +320°19'02"/-21°17'18"  
Lunar Az./Alt.: +148°48'25"/+22°19'27"



NW

Date and Time ✕

Date and Time			Julian Day		
2026	-	4	-	30	22
↑		↑		↑	:
↓		↓		↓	:
					16

**MARS**

# Mars

- Mars is not visible this month.
- Mars remains deep in the solar glare as the days get longer.
- Mars rises just before sunrise in the eastern morning sky. Mars remains close the sun all month.

# Mars



Type: **planet**  
 Magnitude: 1.20 (reduced to 5.89 by 37.25 Airmasses)  
 Absolute Magnitude: -1.52  
 Mean Opposition Magnitude: -2.01  
 Color Index (B-V): 1.45  
 RA/Dec (J2000.0): 0h07m41.59s/-0°15'12.1"  
 RA/Dec (on date): 0h09m02.76s/-0°06'23.2"  
 HA/Dec: 17h59m45.89s/+0°16'03.5" (apparent)  
 Az./Alt.: +89°46'02.6"/+0°08'41.5" (apparent)  
 Gal. long./lat.: +99°47'04.8"/-61°08'37.4"  
 Supergal. long./lat.: +292°57'21.5"/+11°18'46.1"  
 Ecl. long./lat. (J2000.0): +1°39'50.2"/-0°59'50.7"  
 Ecl. long./lat. (on date): +2°01'58.1"/-0°59'48.9"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 18h07m16.3s  
 Apparent Sidereal Time: 18h07m16.7s  
 Rise: 5h57m  
 Transit: 12h00m  
 Set: 18h03m  
 Parallaxic Angle: -45°42'00.1"  
 IAU Constellation: Psc  
 Zodiac: ♈ 2°15'  
 Hourly motion: +0°01'57" towards 66.2"  
 Hourly motion: da=+0°01'47" dδ=+0°00'47"  
 Elongation: 20°30'13.1"  
 Elong. in Ecl.Long.: W20°28'49"  
 Phase angle: +14°42'10.0"  
 Illuminated: 98.4%

Distance from Sun: 1.383 AU (206.950 M km)  
 Distance: 2.277 AU (340.630 M km)  
 Light time: 0h18m56.2s  
 Orbital velocity: 26.464 km/s  
 Sidereal period: 686.97 days (1.881 a)  
 Synodic period: 779.95 days (2.135 a)  
 Apparent diameter: +0°00'04.11"  
 Equatorial diameter: 6792.4 km  
 Sidereal day: 24h37m22.7s  
 Mean solar day: 24h39m35.2s  
 Equatorial rotation velocity: 240.729 m/s  
 Position Angle of axis: +332°12'25"  
 Center point:  $L_s=+67^{\circ}50'59''$   $\phi_s: -25^{\circ}23'11''$   
 Subsolar point:  $L_s=+84^{\circ}05'43''$   $\phi_s: -24^{\circ}55'51''$   
 Albedo: 0.15  
 Solar Az./Alt.: +70°20'48"/-7°07'17"  
 Lunar Az./Alt.: +132°07'55"/+13°11'00"

Date and Time ✕

Date and Time			Julian Day		
2026	-	4	-	12	5
			:	58	: 3



**JUPITER**

# Jupiter

- On April 1st, Jupiter sets at 3:19 a.m. in the northwestern sky.

# Jupiter



Type: **planet**  
 Magnitude: **-2.20** (reduced to **1.76** by **30.68** Airmasses)  
 Absolute Magnitude: -9.40  
 Mean Opposition Magnitude: -2.70  
 Color Index (B-V): **0.96**  
 RA/Dec (J2000.0): 7h07m10.37s/+22°54'42.5"  
 RA/Dec (on date): 7h08m45.76s/+22°52'16.7"  
 HA/Dec: 7h35m03.73s/+23°13'03.2" (apparent)  
 Az./Alt.: +302°44'25.9"/+0°35'18.4" (apparent)  
 Gal. long./lat.: +193°51'43.0"/+13°31'06.6"  
 Supergal. long./lat.: +30°55'35.8"/-51°15'53.7"  
 Ecl. long./lat. (J2000.0): +105°26'02.8"/+0°22'04.1"  
 Ecl. long./lat. (on date): +105°48'09.0"/+0°22'24.4"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 14h45m07.2s  
 Apparent Sidereal Time: 14h45m07.6s  
 Rise: 12h01m  
 Transit: 19h41m  
 Set: 3h24m  
 Parallaxic Angle: +40°55'20.8"  
 IAU Constellation: Gem  
 Zodiac: ♊ 17°11'  
 Hourly motion: +0°00'10" towards 96.2°  
 Hourly motion:  $d\alpha=+0^{\circ}00'11''$   $d\delta=-0^{\circ}00'01''$   
 Elongation: 94°13'09.8"  
 Elong. in Ecl.Long.: E94°13'10"  
 Phase angle: +10°57'12.1"  
 Illuminated: 99.1%  
 Distance from Sun: 5.244 AU (784.555 M km)  
 Distance: 5.075 AU (759.264 M km)  
 Light time: 0h42m12.6s  
 Orbital velocity: 12.960 km/s  
 Sidereal period: 4331.87 days (11.860 a)  
 Synodic period: 398.89 days (1.092 a)  
 Apparent diameter: +0°00'38.84"  
 Equatorial diameter: 142984.0 km  
 Sidereal day: 9h55m40.6s  
 Mean solar day: 9h55m44.0s  
 Equatorial rotation velocity: 12.568 km/s  
 Position Angle of axis: +8°06'13"  
 Center point:  $L_{11a}=+200^{\circ}21'18''$   $\phi_s: +1^{\circ}23'32''$   
 Subsolar point:  $L_{11a}=+189^{\circ}24'10''$   $\phi_s: +1^{\circ}06'50''$   
 Albedo: 0.51  
 Solar Az./Alt.: +37°44'22"/-33°55'30"  
 Lunar Az./Alt.: +228°19'16"/+30°06'19"



NW

Date and Time ✕

Date and Time			Julian Day						
2026	-	4	-	1	3	:	19	:	42

# Jupiter

- On April 1st, Jupiter is high in the southeastern sky at sunset.

# Jupiter

Type: planet  
 Magnitude: -2.19 (reduced to -2.05 by 1.09 Airmasses)  
 Absolute Magnitude: -9.40  
 Mean Opposition Magnitude: -2.70  
 Color Index (B-V): 0.96  
 RA/Dec (J2000.0): 7h07m22.79s/+22°54'25.2"  
 RA/Dec (on date): 7h08m58.17s/+22°51'58.9"  
 HA/Dec: 0h41m28.86s/+22°52'23.1" (apparent)  
 Az./Alt.: +205°03'13.6"/+66°56'32.9" (apparent)  
 Gal. long./lat.: +193°53'11.2"/+13°33'36.3"  
 Supergal. long./lat.: +31°00'11.3"/-51°15'56.9"  
 Ecl. long./lat. (J2000.0): +105°28'55.2"/+0°22'06.6"  
 Ecl. long./lat. (on date): +105°51'01.4"/+0°22'26.9"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 7h50m27.3s  
 Apparent Sidereal Time: 7h50m27.6s  
 Rise: 12h01m  
 Transit: 19h41m  
 Set: 3h24m  
 Parallaxic Angle: +19°12'15.5"  
 IAU Constellation: Gem  
 Zodiac: ♊ 17°14'  
 Hourly motion: +0°00'10" towards 96.0°  
 Hourly motion:  $da=+0^{\circ}00'11''$   $db=-0^{\circ}00'01''$   
 Elongation: 93°34'09.0"  
 Elong. in Ecl.Long.: E93°34'09"  
 Phase angle: +10°57'48.4"  
 Illuminated: 99.1%  
 Distance from Sun: 5.245 AU (784.593 M km)  
 Distance: 5.087 AU (760.966 M km)  
 Light time: 0h42m18.3s  
 Orbital velocity: 12.959 km/s  
 Sidereal period: 4331.87 days (11.860 a)  
 Synodic period: 398.89 days (1.092 a)  
 Apparent diameter: +0°00'38.76"  
 Equatorial diameter: 142984.0 km  
 Sidereal day: 9h55m40.6s  
 Mean solar day: 9h55m44.0s  
 Equatorial rotation velocity: 12.568 km/s  
 Position Angle of axis: +8°07'29"  
 Center point:  $L_{11a}=+98^{\circ}13'22''$   $\phi_a: +1^{\circ}23'26''$   
 Subsolar point:  $L_{11a}=+87^{\circ}15'37''$   $\phi_s: +1^{\circ}06'39''$   
 Albedo: 0.51  
 Solar Az./Alt.: +284°59'32"/-8°07'25"  
 Lunar Az./Alt.: +107°56'50"/+7°01'48"

Jupiter

Procyon

Sirius

Moon

N

NE

E

SE

S

Date and Time ✕

Date and Time					Julian Day				
2026	-	4	-	1	20	:	22	:	14

# Jupiter

- On April 22<sup>nd</sup>, Jupiter and a 1<sup>st</sup> quarter Moon share a close conjunction at sunset.

# Jupiter



Type: **planet**  
Magnitude: **-2.06** (reduced to **-1.90** by **1.19** Airmasses)  
Absolute Magnitude: -9.40  
Mean Opposition Magnitude: -2.70  
Color Index (B-V): **0.96**  
RA/Dec (J2000.0): 7h16m05.51s/+22°40'22.6"  
RA/Dec (on date): 7h17m40.76s/+22°37'36.2"  
HA/Dec: 1h58m35.29s/+22°38'05.2" (apparent)  
Az./Alt.: +238°02'39.5"/+57°26'44.1" (apparent)  
Gal. long./lat.: +194°56'32.9"/+15°18'13.9"  
Supergal. long./lat.: +34°14'04.0"/-51°16'23.2"  
Ecl. long./lat. (J2000.0): +107°30'12.7"/+0°22'55.8"  
Ecl. long./lat. (on date): +107°52'21.7"/+0°23'15.3"  
Ecliptic obliquity (on date): +23°26'09.1"  
Mean Sidereal Time: 9h16m17.5s  
Apparent Sidereal Time: 9h16m17.9s  
Rise: 10h48m  
Transit: 18h27m  
Set: 2h09m  
Parallactic Angle: +41°08'25.8"  
IAU Constellation: Gem  
Zodiac: ♊ 19°25'  
Hourly motion: +0°00'18" towards 97.0°  
Hourly motion:  $d\alpha=+0^{\circ}00'19''$   $d\delta=-0^{\circ}00'02''$   
Elongation: 74°59'28.2"  
Elong. in Ecl.Long.: E74°59'26"  
Phase angle: +10°39'15.7"  
Illuminated: 99.1%  
Distance from Sun: 5.252 AU (785.708 M km)  
Distance: 5.422 AU (811.110 M km)  
Light time: 0h45m05.6s  
Orbital velocity: 12.941 km/s  
Sidereal period: 4331.87 days (11.860 a)  
Synodic period: 398.89 days (1.092 a)  
Apparent diameter: +0°00'36.36"  
Equatorial diameter: 142984.0 km  
Sidereal day: 9h55m40.6s  
Mean solar day: 9h55m44.0s  
Equatorial rotation velocity: 12.568 km/s  
Position Angle of axis: +9°00'52"  
Center point:  $L_{11a}=+12^{\circ}01'15''$   $\phi_a: +1^{\circ}19'40''$   
Subsolar point:  $L_{11a}=+1^{\circ}22'07''$   $\phi_s: +1^{\circ}01'22''$   
Albedo: 0.51  
Solar Az./Alt.: +291°45'32"/-3°47'01"  
Lunar Az./Alt.: +240°24'39"/+60°18'37"



Venus

S

SW

W

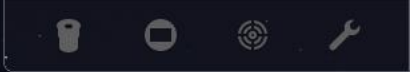
Date and Time

Date and Time			Julian Day		
2026	-	4	-	22	20
					:
					25
					:
					16

# Jupiter

- On April 30<sup>th</sup>, Jupiter sets at 1:33 a.m. in the northwestern sky.

# Jupiter



Type: **planet**  
 Magnitude: **-2.02** (reduced to **1.46** by **26.65** Airmasses)  
 Absolute Magnitude: -9.40  
 Mean Opposition Magnitude: -2.70  
 Color Index (B-V): **0.96**  
 RA/Dec (J2000.0): 7h20m07.71s/+22°33'08.5"  
 RA/Dec (on date): 7h21m42.84s/+22°30'13.2"  
 HA/Dec: 7h30m34.74s/+22°48'27.2" (apparent)  
 Az./Alt.: +301°41'37.6"/+0°57'29.8" (apparent)  
 Gal. long./lat.: +195°26'26.5"/+16°06'41.6"  
 Supergal. long./lat.: +35°44'06.2"/-51°14'53.0"  
 Ecl. long./lat. (J2000.0): +108°26'34.5"/+0°23'11.4"  
 Ecl. long./lat. (on date): +108°48'44.1"/+0°23'30.8"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 14h53m26.7s  
 Apparent Sidereal Time: 14h53m27.0s  
 Rise: 10h22m  
 Transit: 18h00m  
 Set: 1h41m  
 Parallaxic Angle: +41°20'47.3"  
 IAU Constellation: Gem  
 Zodiac: ♊ 20°25'  
 Hourly motion: +0°00'21" towards 97.4°  
 Hourly motion:  $d\alpha=+0^{\circ}00'22''$   $d\delta=-0^{\circ}00'03''$   
 Elongation: 68°54'32.8"  
 Elong. in Ecl.Long.: E68°54'30"  
 Phase angle: +10°18'07.7"  
 Illuminated: 99.2%  
 Distance from Sun: 5.255 AU (786.089 M km)  
 Distance: 5.532 AU (827.637 M km)  
 Light time: 0h46m00.7s  
 Orbital velocity: 12.934 km/s  
 Sidereal period: 4331.87 days (11.860 a)  
 Synodic period: 398.89 days (1.092 a)  
 Apparent diameter: +0°00'35.63"  
 Equatorial diameter: 142984.0 km  
 Sidereal day: 9h55m40.6s  
 Mean solar day: 9h55m44.0s  
 Equatorial rotation velocity: 12.568 km/s  
 Position Angle of axis: +9°25'23"  
 Center point:  $L_{11a}=+168^{\circ}59'10''$   $\phi_s: +1^{\circ}17'59''$   
 Subsolar point:  $L_{11a}=+158^{\circ}41'12''$   $\phi_s: +0^{\circ}59'33''$   
 Albedo: 0.51  
 Solar Az./Alt.: +6°35'48"/-30°40'38"  
 Lunar Az./Alt.: +206°25'15"/+28°43'15"



Date and Time ✕

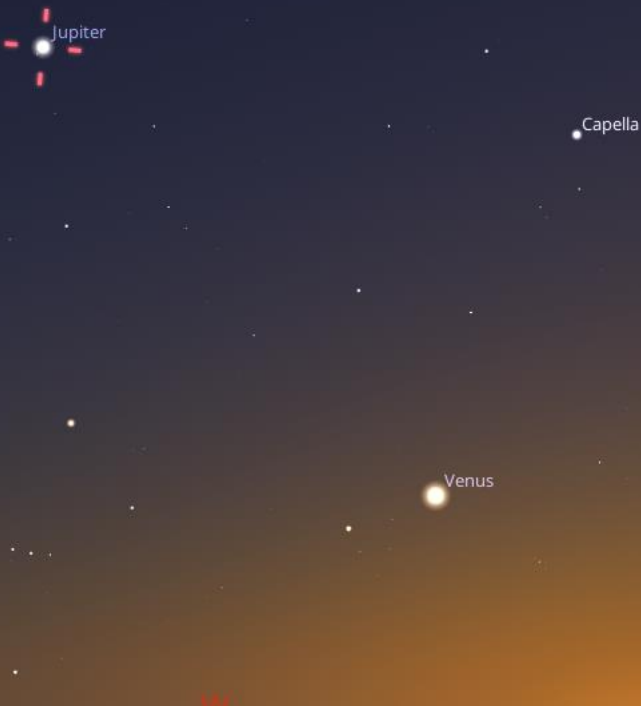
Date and Time			Julian Day						
2026	-	4	-	30	1	:	33	:	58

# Jupiter

- On April 30<sup>th</sup>, Jupiter is well placed in the western sky at sunset.

# Jupiter

Type: planet  
Magnitude: -2.01 (reduced to -1.83 by 1.37 Airmasses)  
Absolute Magnitude: -9.40  
Mean Opposition Magnitude: -2.70  
Color Index (B-V): 0.96  
RA/Dec (J2000.0): 7h20m36.72s/+22°32'15.4"  
RA/Dec (on date): 7h22m11.83s/+22°29'19.1"  
HA/Dec: 3h03m10.11s/+22°29'56.5" (apparent)  
Az./Alt.: +255°06'49.4"/+46°44'40.0" (apparent)  
Gal. long./lat.: +195°30'02.0"/+16°12'30.1"  
Supergal. long./lat.: +35°54'53.2"/-51°14'37.1"  
Ecl. long./lat. (J2000.0): +108°33'19.8"/+0°23'13.8"  
Ecl. long./lat. (on date): +108°55'29.5"/+0°23'33.1"  
Ecliptic obliquity (on date): +23°26'09.1"  
Mean Sidereal Time: 10h25m24.7s  
Apparent Sidereal Time: 10h25m25.0s  
Rise: 10h22m  
Transit: 18h00m  
Set: 1h41m  
Parallactic Angle: +48°28'26.1"  
IAU Constellation: Gem  
Zodiac: ♊ 20°32'  
Hourly motion: +0°00'21" towards 97.5°  
Hourly motion:  $d\alpha=+0^{\circ}00'22''$   $d\delta=-0^{\circ}00'03''$   
Elongation: 68°14'07.0"  
Elong. in Ecl.Long.: E68°14'05"  
Phase angle: +10°15'20.1"  
Illuminated: 99.2%  
Distance from Sun: 5.255 AU (786.132 M km)  
Distance: 5.545 AU (829.453 M km)  
Light time: 0h46m06.8s  
Orbital velocity: 12.934 km/s  
Sidereal period: 4331.87 days (11.860 a)  
Synodic period: 398.89 days (1.092 a)  
Apparent diameter: +0°00'35.56"  
Equatorial diameter: 142984.0 km  
Sidereal day: 9h55m40.6s  
Mean solar day: 9h55m44.0s  
Equatorial rotation velocity: 12.568 km/s  
Position Angle of axis: +9°28'18"  
Center point:  $L_{\text{IIe}}=+155^{\circ}09'41''$   $\phi_{\text{e}}: +1^{\circ}17'47''$   
Subsolar point:  $L_{\text{IIe}}=+144^{\circ}54'30''$   $\phi_{\text{s}}: +0^{\circ}59'21''$   
Albedo: 0.51  
Solar Az./Alt.: +300°33'38"/-8°17'48"  
Lunar Az./Alt.: +128°20'37"/+11°36'13"



Date and Time

Date and Time					Julian Day				
2026	-	4	-	30	21	:	2	:	44

**SATURN**

# Saturn

- On April 26<sup>th</sup>, Saturn reappears in the morning eastern sky just before sunrise.
- Saturn rises at 5:23 a.m. in the eastern sky.

# Saturn



Type: **planet**  
 Magnitude: **0.93** (reduced to **5.63** by **37.29** Airmasses)  
 Absolute Magnitude: -8.88  
 Mean Opposition Magnitude: 0.67  
 Color Index (B-V): **1.22**  
 RA/Dec (J2000.0): 0h33m45.04s/+1°17'12.5"  
 RA/Dec (on date): 0h35m06.44s/+1°25'57.6"  
 HA/Dec: 17h53m44.55s/+1°48'25.8" (apparent)  
 Az./Alt.: +87°36'51.2"/+0°08'34.9" (apparent)  
 Gal. long./lat.: +113°42'18.6"/-61°16'03.6"  
 Supergal. long./lat.: +296°15'03.8"/+5°27'57.2"  
 Ecl. long./lat. (J2000.0): +8°15'27.9"/-2°09'48.0"  
 Ecl. long./lat. (on date): +8°37'38.1"/-2°09'43.9"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 18h27m18.6s  
 Apparent Sidereal Time: 18h27m18.9s  
 Rise: 5h22m  
 Transit: 11h30m  
 Set: 17h38m  
 Parallaxic Angle: -45°40'41.5"



IAU Constellation: Cet  
 Zodiac: ♎ 8°46'  
 Hourly motion: +0°00'17" towards 67.8°  
 Hourly motion: dα=+0°00'16" dδ=+0°00'07"  
 Elongation: 27°37'19.4"  
 Elong. in Ecl.Long.: W27°32'38"  
 Phase angle: +2°49'11.4"  
 Illuminated: 99.9%  
 Distance from Sun: 9.483 AU (1418.629 M km)  
 Distance: 10.363 AU (1550.283 M km)  
 Light time: 1h26m11.2s  
 Orbital velocity: 9.704 km/s  
 Sidereal period: 10760.00 days (29.459 a)  
 Synodic period: 378.09 days (1.035 a)  
 Apparent diameter: +0°00'16.04", with rings: +0°00'37.36"  
 Equatorial diameter: 120536.0 km  
 Sidereal day: 10h39m22.4s  
 Mean solar day: 10h39m24.0s  
 Equatorial rotation velocity: 9.871 km/s  
 Position Angle of axis: +3°28'53"  
 Center point: L<sub>IIIe</sub>=+324°30'41" φ<sub>e</sub>: -6°49'10"  
 Subsolar point: L<sub>IIIe</sub>=+326°56'38" φ<sub>s</sub>: -5°21'26"  
 Albedo: 0.50  
 Solar Az./Alt.: +61°10'42"/-8°45'11"  
 Lunar Az./Alt.: +299°05'03"/-14°25'47"

Date and Time ✕

Date and Time			Julian Day		
2026	-	4	-	26	5
↑		↑		↑	↑
↓		↓		↓	↓
	:	22	:	59	

# Saturn

- On April 30<sup>th</sup>, Saturn rises at 5:08 a.m. in the eastern morning twilight sky.
- The planet is slow low in the twilight glare at sunrise.

# Saturn



Type: **planet**  
 Magnitude: **0.93** (reduced to **5.43** by **35.46** Airmasses)  
 Absolute Magnitude: -8.88  
 Mean Opposition Magnitude: 0.67  
 Color Index (B-V): **1.22**  
 RA/Dec (J2000.0): 0h35m26.41s/+1°27'31.0"  
 RA/Dec (on date): 0h36m47.84s/+1°36'15.6"  
 HA/Dec: 17h53m43.75s/+1°57'52.9" (apparent)  
 Az./Alt.: +87°29'57.1"/+0°15'02.5" (apparent)  
 Gal. long./lat.: +114°37'20.2"/-61°09'17.1"  
 Supergal. long./lat.: +296°31'53.8"/+5°06'20.4"  
 Ecl. long./lat. (J2000.0): +8°42'49.9"/-2°10'17.6"  
 Ecl. long./lat. (on date): +9°05'00.2"/-2°10'13.3"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 18h29m02.7s  
 Apparent Sidereal Time: 18h29m03.0s  
 Rise: 5h07m  
 Transit: 11h16m  
 Set: 17h24m  
 Parallaxic Angle: -45°40'42.5"



E

IAU Constellation: Cet  
 Zodiac: ♎ 9°11'  
 Hourly motion: +0°00'17" towards 68.0°  
 Hourly motion: dα=+0°00'16" dδ=+0°00'06"  
 Elongation: 31°02'05.8"  
 Elong. in Ecl.Long.: W30°58'00"  
 Phase angle: +3°08'22.3"  
 Illuminated: 99.9%  
 Distance from Sun: 9.482 AU (1418.445 M km)  
 Distance: 10.331 AU (1545.428 M km)  
 Light time: 1h25m55.0s  
 Orbital velocity: 9.705 km/s  
 Sidereal period: 10760.00 days (29.459 a)  
 Synodic period: 378.09 days (1.035 a)  
 Apparent diameter: +0°00'16.09", with rings: +0°00'37.48"  
 Equatorial diameter: 120536.0 km  
 Sidereal day: 10h39m22.4s  
 Mean solar day: 10h39m24.0s  
 Equatorial rotation velocity: 9.871 km/s  
 Position Angle of axis: +3°26'35"  
 Center point: L<sub>IIIe</sub>=+319°23'30" φ<sub>e</sub>: -7°01'05"  
 Subsolar point: L<sub>IIIe</sub>=+322°07'01" φ<sub>s</sub>: -5°25'02"  
 Albedo: 0.50  
 Solar Az./Alt.: +57°49'46"/-9°51'18"  
 Lunar Az./Alt.: +250°35'07"/+0°25'45"

Date and Time ✕

Date and Time			Julian Day						
2026	-	4	-	30	5	:	8	:	59

URANUS

# Uranus

- On April 1<sup>st</sup>, Uranus is high in the western sky at sunset.

# Uranus

Type: planet  
 Magnitude: 5.81 (reduced to 6.06 by 1.90 Airmasses)  
 Absolute Magnitude: -7.19  
 Mean Opposition Magnitude: 5.52  
 Color Index (B-V): 0.74  
 RA/Dec (J2000.0): 3h44m57.85s/+19°38'36.5"  
 RA/Dec (on date): 3h46m29.31s/+19°43'36.3"  
 HA/Dec: 4h17m35.82s/+19°44'39.0" (apparent)  
 Az./Alt.: +267°08'57.4"/+31°48'12.5" (apparent)  
 Gal./long./lat.: +169°33'05.6"/-27°07'24.4"  
 Supergal. long./lat.: +331°58'29.0"/-31°25'19.3"  
 Ecl. long./lat. (J2000.0): +58°26'30.9"/-0°10'25.4"  
 Ecl. long./lat. (on date): +58°48'37.1"/-0°10'06.6"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 8h04m10.0s  
 Apparent Sidereal Time: 8h04m10.3s  
 Rise: 8h55m  
 Transit: 16h19m  
 Set: 23h43m  
 Parallax: +49°24'57.8"  
 IAU Constellation: Tau  
 Zodiac: ♉ 26°37'  
 Hourly motion: +0°00'07" towards 77.9°  
 Hourly motion:  $d\alpha=+0^{\circ}00'07''$   $d\delta=+0^{\circ}00'01''$   
 Elongation: 46°31'12.0"  
 Elong. in Ecl.Long.: E46°31'11"  
 Phase angle: +2°08'02.6"  
 Illuminated: 100.0%  
 Distance from Sun: 19.474 AU (2913.270 M km)  
 Distance: 20.148 AU (3014.125 M km)  
 Light time: 2h47m34.0s  
 Orbital velocity: 6.715 km/s  
 Sidereal period: 30685.00 days (84.011 a)  
 Synodic period: 369.66 days (1.012 a)  
 Apparent diameter: +0°00'03.50", with rings: +0°00'13.37"  
 Equatorial diameter: 51118.0 km  
 Sidereal day: 17h14m24.0s  
 Mean solar day: 17h14m22.5s  
 Equatorial rotation velocity: 2587.521 m/s  
 Position Angle of axis: +279°20'05"  
 Center point:  $L_s=+317^{\circ}03'09''$   $\phi_s=+69^{\circ}25'52''$   
 Subsolar point:  $L_s=+319^{\circ}32'12''$   $\phi_s=+71^{\circ}23'43''$   
 Albedo: 0.66  
 Discovered: 17 March 1781 (W. Herschel)  
 Solar Az./Alt.: +287°29'43"/-10°28'13"  
 Lunar Az./Alt.: +110°25'41"/+9°12'46"

Rigel

Aldebaran

Venus

SW

W

NW

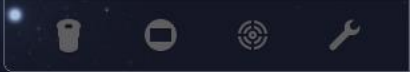
Date and Time ✕

Date and Time			Julian Day						
2026	-	4	-	1	20	:	35	:	54

# Uranus

- On April 1<sup>st</sup>, Uranus sets at 11:41 p.m. in the northwestern sky.

# Uranus



Type: **planet**  
 Magnitude: **5.81** (reduced to **10.45** by **36.71** Airmasses)  
 Absolute Magnitude: -7.19  
 Mean Opposition Magnitude: 5.52  
 Color Index (B-V): **0.74**  
 RA/Dec (J2000.0): 3h44m59.26s/+19°38'41.1"  
 RA/Dec (on date): 3h46m30.73s/+19°43'40.8"  
 HA/Dec: 7h22m40.45s/+20°07'18.3" (apparent)  
 Az./Alt.: +298°32'02.2"/+0°10'34.1" (apparent)  
 Gal. long./lat.: +169°33'18.4"/-27°07'07.3"  
 Supergal. long./lat.: +331°58'46.4"/-31°25'33.4"  
 Ecl. long./lat. (J2000.0): +58°26'51.4"/-0°10'25.4"  
 Ecl. long./lat. (on date): +58°48'57.5"/-0°10'06.6"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 11h10m41.2s  
 Apparent Sidereal Time: 11h10m41.6s  
 Rise: 8h55m  
 Transit: 16h19m  
 Set: 23h43m  
 Parallaxic Angle: +42°02'19.0"  
 IAU Constellation: Tau  
 Zodiac: ♉ 26°37'  
 Hourly motion: +0°00'07" towards 78.0°  
 Hourly motion:  $d\alpha=+0^{\circ}00'07''$   $d\delta=+0^{\circ}00'01''$   
 Elongation: 46°23'50.8"  
 Elong. in Ecl.Long.: E46°23'49"  
 Phase angle: +2°07'47.5"  
 Illuminated: 100.0%  
 Distance from Sun: 19.474 AU (2913.267 M km)  
 Distance: 20.150 AU (3014.367 M km)  
 Light time: 2h47m34.8s  
 Orbital velocity: 6.715 km/s  
 Sidereal period: 30685.00 days (84.011 a)  
 Synodic period: 369.66 days (1.012 a)  
 Apparent diameter: +0°00'03.50", with rings: +0°00'13.37"  
 Equatorial diameter: 51118.0 km  
 Sidereal day: 17h14m24.0s  
 Mean solar day: 17h14m22.5s  
 Equatorial rotation velocity: 2587.521 m/s  
 Position Angle of axis: +279°20'33"  
 Center point:  $L_s=+21^{\circ}47'45''$   $\phi_s=+69^{\circ}26'11''$   
 Subsolar point:  $L_s=+24^{\circ}16'33''$   $\phi_s=+71^{\circ}23'48''$   
 Albedo: 0.66  
 Discovered: 17 March 1781 (W. Herschel)  
 Solar Az./Alt.: +330°06'41"/-36°22'02"  
 Lunar Az./Alt.: +151°56'14"/+32°59'09"



Date and Time ✕

Date and Time					Julian Day				
2026	-	4	-	1	23	:	41	:	55

# Uranus

- On April 30th, Uranus is low on the northwestern horizon at sunset.

# Uranus

Type: planet  
 Magnitude: 5.83 (reduced to 6.94 by 8.56 Airmasses)  
 Absolute Magnitude: -7.19  
 Mean Opposition Magnitude: 5.52  
 Color Index (B-V): 0.74  
 RA/Dec (J2000.0): 3h51m03.87s/+19°58'06.2"  
 RA/Dec (on date): 3h52m35.96s/+20°02'54.5"  
 HA/Dec: 6h45m01.33s/+20°08'39.5" (apparent)  
 Az./Alt.: +292°07'49.5"/+6°16'46.0" (apparent)  
 Gal. long./lat.: +170°27'23.9"/-25°53'42.8"  
 Supergal. long./lat.: +333°14'37.0"/-32°25'27.6"  
 Ecl. long./lat. (J2000.0): +59°54'47.2"/-0°10'02.5"  
 Ecl. long./lat. (on date): +60°16'56.8"/-0°09'43.9"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 10h38m01.4s  
 Apparent Sidereal Time: 10h38m01.7s  
 Rise: 7h05m  
 Transit: 14h31m  
 Set: 21h57m  
 Parallaxic Angle: +44°55'24.8"  
 IAU Constellation: Tau  
 Zodiac: ♄ 28°8'  
 Hourly motion: +0°00'08" towards 78.6°  
 Hourly motion: dα=+0°00'09" dδ=+0°00'02"  
 Elongation: 19°35'04.1"  
 Elong. in Ecl.Long.: E19°35'01"  
 Phase angle: +0°59'37.8"  
 Illuminated: 100.0%  
 Distance from Sun: 19.469 AU (2912.495 M km)  
 Distance: 20.415 AU (3054.044 M km)  
 Light time: 2h49m47.2s  
 Orbital velocity: 6.716 km/s  
 Sidereal period: 30685.00 days (84.011 a)  
 Synodic period: 369.66 days (1.012 a)  
 Apparent diameter: +0°00'03.45", with rings: +0°00'13.20"  
 Equatorial diameter: 51118.0 km  
 Sidereal day: 17h14m24.0s  
 Mean solar day: 17h14m22.5s  
 Equatorial rotation velocity: 2587.521 m/s  
 Position Angle of axis: +281°26'35"  
 Center point: L<sub>s</sub>=+106°06'07" φ<sub>c</sub>: +70°47'05"  
 Subsolar point: L<sub>s</sub>=+107°20'33" φ<sub>s</sub>: +71°41'40"  
 Albedo: 0.66  
 Discovered: 17 March 1781 (W. Herschel)  
 Solar Az./Alt.: +302°57'07"/-10°12'30"  
 Lunar Az./Alt.: +130°49'37"/+13°14'55"



Date and Time ✕

Date and Time			Julian Day						
2026	-	4	-	30	21	:	15	:	19

# Uranus

- On April 30th, Uranus sets at 9:56 p.m. in the northwestern sky.

# Uranus



Type: **planet**  
 Magnitude: **5.83** (reduced to **10.64** by **38.32** Airmasses)  
 Absolute Magnitude: -7.19  
 Mean Opposition Magnitude: 5.52  
 Color Index (B-V): **0.74**  
 RA/Dec (J2000.0): 3h51m04.26s/+19°58'07.4"  
 RA/Dec (on date): 3h52m36.36s/+20°02'55.7"  
 HA/Dec: 7h24m50.09s/+20°27'23.7" (apparent)  
 Az./Alt.: +299°08'04.5"/+0°05'11.4" (apparent)  
 Gal. long./lat.: +170°27'27.4"/-25°53'38.0"  
 Supergal. long./lat.: +333°14'42.0"/-32°25'31.4"  
 Ecl. long./lat. (J2000.0): +59°54'52.9"/-0°10'02.5"  
 Ecl. long./lat. (on date): +60°17'02.6"/-0°09'43.9"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 11h18m59.3s  
 Apparent Sidereal Time: 11h18m59.7s  
 Rise: 7h05m  
 Transit: 14h31m  
 Set: 21h57m  
 Parallaxic Angle: +41°51'09.6"  
 IAU Constellation: Tau  
 Zodiac: ♉ 28°9'  
 Hourly motion: +0°00'08" towards 78.6°  
 Hourly motion: dα=+0°00'09" dδ=+0°00'02"  
 Elongation: 19°33'30.2"  
 Elong. in Ecl.Long.: E19°33'27"  
 Phase angle: +0°59'33.2"  
 Illuminated: 100.0%  
 Distance from Sun: 19.469 AU (2912.494 M km)  
 Distance: 20.415 AU (3054.069 M km)  
 Light time: 2h49m47.3s  
 Orbital velocity: 6.716 km/s  
 Sidereal period: 30685.00 days (84.011 a)  
 Synodic period: 369.66 days (1.012 a)  
 Apparent diameter: +0°00'03.45", with rings: +0°00'13.20"  
 Equatorial diameter: 51118.0 km  
 Sidereal day: 17h14m24.0s  
 Mean solar day: 17h14m22.5s  
 Equatorial rotation velocity: 2587.521 m/s  
 Position Angle of axis: +281°26'44"  
 Center point: L<sub>s</sub>=+120°19'20" φ<sub>s</sub>: +70°47'10"  
 Subsolar point: L<sub>s</sub>=+121°33'41" φ<sub>s</sub>: +71°41'41"  
 Albedo: 0.66  
 Discovered: 17 March 1781 (W. Herschel)  
 Solar Az./Alt.: +311°07'40"/-16°02'09"  
 Lunar Az./Alt.: +139°19'17"/+18°08'42"

Uranus

Alcyone

Date and Time ✕

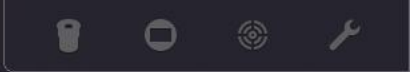
Date and Time			Julian Day						
2026	-	4	-	30	21	:	56	:	10

**NEPTUNE**

# Neptune

- On April 25th, Neptune reappears in the eastern morning sky just before sunrise.
- Neptune rises at 5:10 a.m. in the eastern morning twilight sky.

# Neptune



Type: **planet**  
 Magnitude: **7.82** (reduced to **12.47** by **36.81** Airmasses)  
 Absolute Magnitude: -6.87  
 Mean Opposition Magnitude: 7.84  
 RA/Dec (J2000.0): 0h12m03.25s/-0°07'46.1"  
 RA/Dec (on date): 0h13m24.53s/+0°01'03.3"  
 HA/Dec: 17h59m26.16s/+0°23'17.8" (apparent)  
 Az./Alt.: +89°37'25.0"/+0°10'12.9" (apparent)  
 Gal. long./lat.: +102°00'30.9"/-61°23'27.5"  
 Supergal. long./lat.: +293°23'01.9"/+10°17'57.2"  
 Ecl. long./lat. (J2000.0): +2°42'49.8"/-1°19'01.4"  
 Ecl. long./lat. (on date): +3°04'59.6"/-1°18'59.3"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 18h11m19.2s  
 Apparent Sidereal Time: 18h11m19.5s  
 Rise: 5h10m  
 Transit: 11h12m  
 Set: 17h14m  
 Parallaxic Angle: -45°41'59.9"  
 IAU Constellation: Psc  
 Zodiac: ♓ 3°21'  
 Hourly motion: +0°00'05" towards 67.5°  
 Hourly motion:  $\Delta\alpha=+0^{\circ}00'05"$   $\Delta\delta=+0^{\circ}00'02"$   
 Elongation: 32°07'49.6"  
 Elong. in Ecl.Long.: W32°06'23"  
 Phase angle: +1°01'33.2"  
 Illuminated: 100.0%  
 Distance from Sun: 29.882 AU (4470.263 M km)  
 Distance: 30.729 AU (4596.986 M km)  
 Light time: 4h15m33.9s  
 Orbital velocity: 5.468 km/s  
 Sidereal period: 60189.00 days (164.789 a)  
 Synodic period: 367.49 days (1.006 a)  
 Apparent diameter: +0°00'02.22", with rings: +0°00'05.65"  
 Equatorial diameter: 49528.0 km  
 Sidereal day: 16h06m36.0s  
 Mean solar day: 16h06m36.6s  
 Equatorial rotation velocity: 2.683 km/s  
 Position Angle of axis: +316°10'33"  
 Center point:  $L_s=+52^{\circ}12'06"$   $\phi_s: -18^{\circ}57'43"$   
 Subsolar point:  $L_s=+53^{\circ}14'00"$   $\phi_s: -19^{\circ}16'54"$   
 Albedo: 0.62  
 Discovered: 23 September 1846 (J.G. Galle)  
 Solar Az./Alt.: +59°04'26"/-10°53'39"  
 Lunar Az./Alt.: +309°20'09"/-14°53'12"

Neptune

E

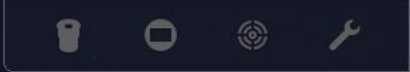
Date and Time ✕

Date and Time			Julian Day						
2026	-	4	-	25	5	:	10	:	58

# Neptune

- On April 30th, Neptune rises at 4:50 a.m. in the morning eastern twilight sky.

# Neptune



Type: **planet**  
 Magnitude: **7.82** (reduced to **12.64** by **38.42** Airmasses)  
 Absolute Magnitude: -6.87  
 Mean Opposition Magnitude: 7.84  
 RA/Dec (J2000.0): 0h12m39.12s/-0°04'03.3"  
 RA/Dec (on date): 0h14m00.42s/+0°04'46.1"  
 HA/Dec: 17h58m38.92s/+0°27'43.9" (apparent)  
 Az./Alt.: +89°25'59.8"/+0°04'51.7" (apparent)  
 Gal. long./lat.: +102°20'43.8"/-61°22'45.9"  
 Supergal. long./lat.: +293°29'10.1"/+10°10'21.3"  
 Ecl. long./lat. (J2000.0): +2°52'32.2"/-1°19'10.8"  
 Ecl. long./lat. (on date): +3°14'42.3"/-1°19'08.6"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 18h11m04.9s  
 Apparent Sidereal Time: 18h11m05.2s  
 Rise: 4h51m  
 Transit: 10h53m  
 Set: 16h56m  
 Parallaxic Angle: -45°41'56.1"  
 IAU Constellation: Psc  
 Zodiac: ♏ 3°30'  
 Hourly motion: +0°00'05" towards 67.6°  
 Hourly motion:  $da=+0^{\circ}00'04"$   $d\delta=+0^{\circ}00'02"$   
 Elongation: 36°48'46.8"  
 Elong. in Ecl.Long.: W36°47'34"  
 Phase angle: +1°09'26.3"  
 Illuminated: 100.0%  
 Distance from Sun: 29.882 AU (4470.244 M km)  
 Distance: 30.682 AU (4589.966 M km)  
 Light time: 4h15m10.5s  
 Orbital velocity: 5.468 km/s  
 Sidereal period: 60189.00 days (164.789 a)  
 Synodic period: 367.49 days (1.006 a)  
 Apparent diameter: +0°00'02.23", with rings: +0°00'05.66"  
 Equatorial diameter: 49528.0 km  
 Sidereal day: 16h06m36.0s  
 Mean solar day: 16h06m36.6s  
 Equatorial rotation velocity: 2.683 km/s  
 Position Angle of axis: +316°07'28"  
 Center point:  $L_s=+206^{\circ}11'48"$   $\phi_s:-18^{\circ}54'11"$   
 Subsolar point:  $L_s=+207^{\circ}21'28"$   $\phi_s:-19^{\circ}16'15"$   
 Albedo: 0.62  
 Discovered: 23 September 1846 (J.G. Galle)  
 Solar Az./Alt.: +54°20'58"/-12°31'05"  
 Lunar Az./Alt.: +247°32'48"/+3°07'45"



Date and Time ✕

Date and Time				Julian Day					
2026	-	4	-	30	4	:	51	:	4

**DEEP SKY**

**GALAXY SEASON**

**MESSIER 83**

**THE SOUTHERN PINWHEEL GALAXY**

# Southern Pinwheel Galaxy (Thousand Rubies Galaxy - Seashell Galaxy)

## M 83 - NGC 5236 - PGC 48082 - ESO 444-81

Type: galaxy (SAB(s)c)  
 Magnitude: 7.50 (reduced to 8.25 by 5.79 Airmasses)  
 Color Index (B-V): 0.77  
 Surface brightness: 12.67 mag/arc-min<sup>2</sup> (after extinction: 13.41 mag/arc-min<sup>2</sup>)  
 Contrast index: -0.04  
 RA/Dec (J2000.0): 13h37m02.37s/-29°52'02.5"  
 RA/Dec (on date): 13h38m31.59s/-30°00'07.5"  
 HA/Dec: 21h45m49.51s/-29°55'03.9" (apparent)  
 Az./Alt.: +150°55'42.6"/+9°42'38.8" (apparent)  
 Gal. long./lat.: +314°35'21.1"/+31°58'12.2"  
 Supergal. long./lat.: +147°56'09.0"/+0°59'44.9"  
 Ecl. long./lat. (J2000.0): +213°35'09.1"/-18°22'16.1"  
 Ecl. long./lat. (on date): +213°57'10.2"/-18°22'28.7"  
 Ecliptic obliquity (on date): +23°26'09.1"  
 Mean Sidereal Time: 11h24m10.5s  
 Apparent Sidereal Time: 11h24m10.9s  
 Rise: 21h59m  
 Transit: 1h50m  
 Set: 5h36m  
 Parallaxic Angle: -23°39'16.2"  
 IAU Constellation: Hya  
 Zodiac: ♎ 24°37'  
 Size: ⊕ 2'54.00" x +0°11'30.00"  
 Orientation angle: 45°  
 Distance: 4.610 Mpc (15.038 M ly)  
 Redshift: 0.001733  
 Discoverer: Nicholas Louis de Lacaille (23 February 1752)  
 Solar Az./Alt.: +328°45'10"/-33°29'04"  
 Lunar Az./Alt.: +108°31'59"/-22°58'08"



Date and Time ✕

Date and Time			Julian Day						
2026	-	4	-	7	23	:	31	:	47

# M83 – Southern Pinwheel Galaxy

- **Other Designations:** ESO 444-G 081, IRAS 13341-2936, NGC 5236, UGCA 366, MCG -05-32-050, PGC 48082, Grand Barred Spiral
- **Type:** Galaxy – Class – SAB – Type A Barred Spiral SAB<sub>(s),c</sub>
- **Constellation:** Hydra
- **Diameter:** 55,000 Light years across **Stars:** 40 billion
- **Distance:** 14 million light years from Earth
- **Magnitude:** +7.6
- **Size:** 12.9 x 11.9 arc minutes across
- **Age:** Estimates range from 13 to 15 billion years old
- **Photo taken by HST**



# M83 – Southern Pinwheel Galaxy

- The 1,000 rubies galaxy. M83 is a starburst galaxy, with enhanced star formation, particularly along the leading edges of its spiral arms.
- Observations from Hubble reveal thousands of star clusters and nearly 300 supernova remnants. Six supernovae have been recorded in M83, including SN 1950B and SN 1968L. This highlights the galaxy's dynamic stellar activity.
- Recent observations from the JWST (MIRI instrument), suggest the presence of a supermassive black hole at M83's core.
- Highly ionized neon gas detected in the central region may indicate an active galactic nucleus (AGN), providing new insights into the galaxy's central dynamics.

# M83 – Southern Pinwheel Galaxy

- Below is photo from Webb Space telescope.
- Close up of the core of M83 of the AGN – Active Galactic Nucleus.
- Possible Super Massive Black hole.



# M83 – Southern Pinwheel Galaxy

- **Scientific Significance**
- **M83 is a key target for studying star formation, galactic evolution, and supernova activity. Its proximity allows astronomers to examine stellar nurseries, interstellar bubbles, and chemical enrichment in detail.**
- **Interactions with nearby dwarf galaxies, such as NGC 5253, may have triggered central starburst activity within the last billion years.**
- **M83 offers a vivid example of a grand design barred spiral galaxy with ongoing stellar evolution and dynamic galactic processes.**

# That is the Sky this Month

By David Mills