

Sky this Month

May 2026

By David Mills

MOON

FULL MOON

Full Moon

- The full Moon is on May 1st, at 1:23 p.m.
- This month's full moon is called the Flower Moon
- The Moon rises at 8:45 p.m. on May 1st.

Moon



Type: **moon**
 Magnitude: **-12.52** (reduced to **-8.12** by **34.58** Airmasses)
 Absolute Magnitude: 0.21
 Mean Opposition Magnitude: -12.74
 RA/Dec (J2000.0): 14h45m46.36s/-21°24'10.8"
 RA/Dec (on date): 14h47m16.73s/-21°30'52.4"
 HA/Dec: 19h30m38.38s/-21°08'07.2" (apparent)
 Az./Alt.: +120°35'59.2"/+0°18'23.6" (apparent)
 Gal. long./lat.: +335°29'34.2"/+34°08'24.7"
 Supergal. long./lat.: +146°03'19.3"/+18°31'18.4"
 Ecl. long./lat. (J2000.0): +225°30'48.6"/-5°08'44.7"
 Ecl. long./lat. (on date): +225°52'57.1"/-5°09'00.3"
 Ecliptic obliquity (on date): +23°26'09.1"
 Mean Sidereal Time: 10h16m28.6s
 Apparent Sidereal Time: 10h16m29.0s
 Rise: 20h46m
 Transit: 0h41m
 Set: 5h35m
 Parallax Angle: -41°20'04.5"
 IAU Constellation: Lib
 Zodiac: ♐ 11°49'
 Hourly motion: +0°28'05" towards 116.7°
 Hourly motion: $d\alpha=+0^{\circ}26'33"$ $d\delta=-0^{\circ}13'22"$
 Elongation: 173°20'19.4"
 Elong. in Ecl.Long.: W175°46'08"
 Phase angle: +6°38'36.8"
 Illuminated: 99.7%



Distance from Sun: 1.010 AU (151.143 M km)
 Distance: 0.002691 AU (402611.522 km)
 Light time: 0h00m01.3s
 Orbital velocity: 0.981 km/s
 Heliocentric velocity: 30.536 km/s
 Sidereal period: 27.32 days (0.075 a)
 Synodic period: 29.53 days (0.081 a)
 Apparent diameter: +0°29'40.19"
 Diameter: 3474.8 km
 Sidereal day: 655h43m11.6s
 Mean solar day: 708h44m02.9s
 Equatorial rotation velocity: 4.624 m/s
 Moon age: 15.0 days old (Waning Gibbous)
 Position angle of bright limb: +157°49'17"
 Position Angle of axis: +16°55'59"
 Libration: +6°33'34" towards +159°54'20" (NNW!!)
 Libration: +2°15'13"/+6°09'37"
 Subsolar point: -1°08'37"/+1°27'25"
 Colongitude: +91°08'37"
 Albedo: 0.12
 Solar Az./Alt.: +298°23'30"/-6°05'14"

Date and Time ✕

Date and Time					Julian Day				
2026	-	5	-	1	20	:	49	:	54

NEW MOON

New Moon

- The New Moon is on May 16th, at 4:01 p.m.
- The Moon is northwest of the sun.
- This month's moon is the New Blue Moon.

Moon

Type: moon
Magnitude: -3.39
Absolute Magnitude: 0.21
Mean Opposition Magnitude: -12.74
RA/Dec (J2000.0): 3h25m44.36s/+23°30'49.1"
RA/Dec (on date): 3h27m17.76s/+23°36'24.8"
HA/Dec: 3h01m15.55s/+23°36'24.8"
Az./Alt.: +255°55'03.2"/+47°48'14.7"
Gal. long./lat.: +162°54'32.6"/-27°08'05.4"
Supergal. long./lat.: +332°53'24.9"/-25°33'57.4"
Ecl. long./lat. (J2000.0): +55°00'14.8"/+4°38'14.6"
Ecl. long./lat. (on date): +55°22'25.9"/+4°38'31.9"
Ecliptic obliquity (on date): +23°26'09.1"
Mean Sidereal Time: 6h28m33.0s
Apparent Sidereal Time: 6h28m33.3s
Rise: 5h09m
Transit: 12h57m
Set: 20h59m
Parallactic Angle: +49°15'23.0"
IAU Constellation: Ari
Zodiac: ♈ 21°49'
Hourly motion: +0°29'32" towards 77.8°
Hourly motion: $da=+0^{\circ}31'22"$ $d\delta=+0^{\circ}06'46"$
Elongation: 4°40'43.6"
Elong. in Ecl.Long.: $W0^{\circ}35'36"$
Phase angle: +175°18'36.9"
Illuminated: 0.2%
Distance from Sun: 1.009 AU (150,909 M km)
Distance: 0.002365 AU (353841.623 km)
Light time: 0h00m01.2s
Orbital velocity: 1.098 km/s
Heliocentric velocity: 28.357 km/s
Sidereal period: 27.32 days (0.075 a)
Synodic period: 29.53 days (0.081 a)
Apparent diameter: +0°33'45.55"
Diameter: 3474.8 km
Sidereal day: 655h43m11.6s
Mean solar day: 708h44m02.9s
Equatorial rotation velocity: 4.624 m/s
Moon age: 0.0 days old (New Moon)
Position angle of bright limb: +158°25'34"
Position Angle of axis: +346°08'58"
Libration: +6°41'56" towards +343°51'37" (SSE!!)
Libration: -1°51'44"/-6°26'05"
Subsolar point: +178°08'21"/+1°28'54"
Colongitude: +271°51'39"
Albedo: 0.12
Solar Az./Alt.: +249°32'24"/+46°05'11"

Aldebaran

Uranus

Mercury

Moon

Sun

Date and Time ✕

Date and Time				Julian Day				
2026	-	5	-	16	:	3	:	37

Moon

- The planets Mars and Saturn are well southwest of the sun.

Moon

Type: moon
 Magnitude: -3.39
 Absolute Magnitude: 0.21
 Mean Opposition Magnitude: -12.74
 RA/Dec (J2000.0): 3h25m49.12s/+23°31'04.4"
 RA/Dec (on date): 3h27m22.53s/+23°36'40.0"
 HA/Dec: 3h03m27.28s/+23°36'40.0"
 Az./Alt.: +256°24'31.0"/+47°23'31.4"
 Gal. long./lat.: +162°55'19.4"/-27°07'12.5"
 Supergal. long./lat.: +332°54'18.2"/-25°34'44.5"
 Ecl. long./lat. (J2000.0): +55°01'22.3"/+4°38'13.1"
 Ecl. long./lat. (on date): +55°23'33.4"/+4°38'30.4"
 Ecliptic obliquity (on date): +23°26'09.1"
 Mean Sidereal Time: 6h30m49.5s
 Apparent Sidereal Time: 6h30m49.8s
 Rise: 5h09m
 Transit: 6h47m
 Set: 20h59m
 Parallax: +49°23'57.7"
 IAU Constellation: Ari
 Zodiac: ♈ 21°50'
 Hourly motion: +0°29'36" towards 77.9°
 Hourly motion: $da=+0^{\circ}31'27"$ $d\delta=+0^{\circ}06'44"$
 Elongation: 4°40'34.5"
 Elong. in Ecl. Long.: $W0^{\circ}34'34"$
 Phase angle: +175°18'46.1"
 Illuminated: 0.2%
 Distance from Sun: 1.009 AU (150,909 M km)
 Distance: 0.002365 AU (353867.494 km)
 Light time: 0h00m01.2s
 Orbital velocity: 1.098 km/s
 Heliocentric velocity: 28.357 km/s
 Sidereal period: 27.32 days (0.075 a)
 Synodic period: 29.53 days (0.081 a)
 Apparent diameter: +0°33'45.40"
 Diameter: 3474.8 km
 Sidereal day: 655h43m11.6s
 Mean solar day: 708h44m02.9s
 Equatorial rotation velocity: 4.624 m/s
 Moon age: 0.0 days old (New Moon)
 Position angle of bright limb: +158°38'30"
 Position Angle of axis: +346°09'26"
 Libration: +6°41'54" towards +343°53'17" (SSE!!)
 Libration: -1°51'32"/-6°26'07"
 Subsolar point: +178°07'11"/+1°28'54"
 Colongitude: +271°52'49"
 Albedo: 0.12
 Solar Az./Alt.: +250°04'51"/+45°42'21"



Date and Time

Date and Time			Julian Day		
2026	-	5	-	16	16 : 5 : 53

Moon

- The planets Venus and Mercury are northeast of the sun.
- Venus is furthest away and rising in the evening sky at sunset.

Moon

Type: moon
 Magnitude: -3.39
 Absolute Magnitude: 0.21
 Mean Opposition Magnitude: -12.74
 RA/Dec (J2000.0): 3h25m51.95s/+23°31'13.4"
 RA/Dec (on date): 3h27m25.36s/+23°36'48.9"
 HA/Dec: 3h04m45.23s/+23°36'48.9"
 Az./Alt.: +256°41'48.6"/+47°12'03.3"
 Gal. long./lat.: +162°55'47.2"/-27°06'41.2"
 Supergal. long./lat.: +332°54'49.7"/-25°35'12.5"
 Ecl. long./lat. (J2000.0): +55°02'02.4"/+4°38'12.2"
 Ecl. long./lat. (on date): +55°24'13.5"/+4°38'29.5"
 Ecliptic obliquity (on date): +23°26'09.1"
 Mean Sidereal Time: 6h32m10.2s
 Apparent Sidereal Time: 6h32m10.6s
 Rise: 5h09m
 Transit: 12h57m
 Set: 20h59m
 Parallax Angle: +49°28'52.2"
 IAU Constellation: Ari
 Zodiac: ♈ 21°51'
 Hourly motion: +0°29'38" towards 78.0°
 Hourly motion: $\text{d}\alpha=+0^{\circ}31'31"$ $\text{d}\delta=+0^{\circ}06'42"$
 Elongation: 4°40'29.0"
 Elong. in Ecl.Long.: $\text{W}0^{\circ}33'57"$
 Phase angle: +175°18'51.6"
 Illuminated: 0.2%
 Distance from Sun: 1.009 AU (150,910 M km)
 Distance: 0.002366 AU (353882.985 km)
 Light time: 0h00m01.2s
 Orbital velocity: 1.098 km/s
 Heliocentric velocity: 28.357 km/s
 Sidereal period: 27.32 days (0.075 a)
 Synodic period: 29.53 day* (0.081 a)
 Apparent diameter: +0°33'45.31"
 Diameter: 3474.8 km
 Sidereal day: 655h43m11.6s
 Mean solar day: 708h44m02.9s
 Equatorial rotation velocity: 4.624 m/s
 Moon age: 0.0 days old (New Moon)
 Position angle of bright limb: +158°46'10"
 Position Angle of axis: +346°09'42"
 Libration: +6°41'53" towards +343°54'17" (SSE!!)
 Libration: -1°51'25"/-6°26'08"
 Subsolar point: +178°06'30.7/+1°28'54"
 Colongitude: +271°53'30"
 Albedo: 0.12
 Solar Az./Alt.: +250°23'55"/+45°28'47"



Date and Time ✕

Date and Time			Julian Day		
2026	-	5	-	16	16 : 7 : 14

Mars

BLUE MOON

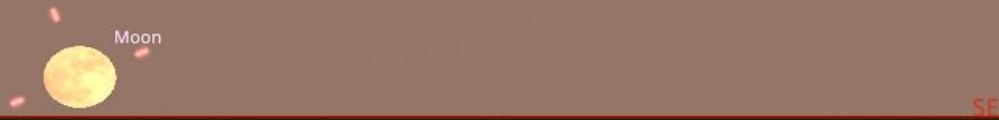
Blue Moon

- The 2nd , full moon or Blue Moon is on May 31st.
- The rare spring Blue Moon is at 4:45 a.m. on May 31st.
- The Blue Moon rises on May 30th , at 8:45 p.m.

Moon



Type: **moon**
 Magnitude: **-12.53** (reduced to **-8.06** by **35.15** Airmasses)
 Absolute Magnitude: 0.21
 Mean Opposition Magnitude: -12.74
 RA/Dec (J2000.0): 16h13m32.61s/-26°51'08.8"
 RA/Dec (on date): 16h15m10.20s/-26°55'12.3"
 HA/Dec: 19h58m29.98s/-26°31'10.3" (apparent)
 Az./Alt.: +128°56'17.3"/+0°16'11.7" (apparent)
 Gal. long./lat.: +349°07'23.5"/+17°23'10.8"
 Supergal. long./lat.: +163°24'46.3"/+32°08'40.8"
 Ecl. long./lat. (J2000.0): +246°19'24.1"/-5°34'27.8"
 Ecl. long./lat. (on date): +246°41'38.0"/-5°34'46.7"
 Ecliptic obliquity (on date): +23°26'09.0"
 Mean Sidereal Time: 12h12m14.0s
 Apparent Sidereal Time: 12h12m14.4s
 Rise: 20h47m
 Transit: 0h11m
 Set: 4h33m
 Parallaxic Angle: -38°28'22.1"
 IAU Constellation: Sco
 Zodiac: ♏ 3°47'
 Hourly motion: +0°26'01" towards 108.5°
 Hourly motion: $da=+0^{\circ}27'18"$ $d\delta=-0^{\circ}09'09"$
 Elongation: 173°42'11.1"
 Elong. in Ecl.Long.: E177°04'34"
 Phase angle: +6°16'48.5"
 Illuminated: 99.7%
 Distance from Sun: 1.016 AU (152.056 M km)
 Distance: 0.002713 AU (405879.731 km)
 Light time: 0h00m01.4s
 Orbital velocity: 0.973 km/s
 Heliocentric velocity: 30.248 km/s
 Sidereal period: 27.32 days (0.075 a)
 Synodic period: 29.53 days (0.081 a)
 Apparent diameter: +0°29'25.85"
 Diameter: 3474.8 km
 Sidereal day: 655h43m11.6s
 Mean solar day: 708h44m02.9s
 Equatorial rotation velocity: 4.624 m/s
 Moon age: 14.5 days old (Waxing Gibbous)
 Position angle of bright limb: -142°07'15"
 Position Angle of axis: +10°25'57"
 Libration: +6°39'26" towards +170°31'41" (NIL)
 Libration: +1°05'44"/+6°33'59"
 Subsolar point: +4°41'20"/+1°35'11"
 Colongitude: +85°18'40"
 Albedo: 0.12
 Solar Az./Alt.: +302°48'51"/-0°33'07"



Date and Time ✕

Date and Time			Julian Day		
2026	-	5	-	30	20
↑		↓		↑	:
↓		↑		↓	:
↑		↓		↑	19

MERCURY

Mercury

- Mercury is in inferior conjunction with the sun and not visible until the last 10 days of May.
- Mercury is low on the western horizon after it reappears. With the longer days the planet remains lost in the solar glare at evening twilight. The last 7 days of May are you best window to view the planet.

Mercury



Type: **planet**
Magnitude: -1.51 (reduced to 2.07 by 27.50 Airmasses)
Absolute Magnitude: -0.60
RA/Dec (J2000.0): 4h30m52.32s/+23°13'40.1"
RA/Dec (on date): 4h32m27.88s/+23°17'07.2"
HA/Dec: 7h35m06.05s/+23°36'00.0" (apparent)
Az./Alt.: +302°59'51.9"/+0°52'17.8" (apparent)
Gal. long./lat.: +174°41'29.9"/-16°54'46.4"
Supergal. long./lat.: +343°30'19.6"/-37°29'09.0"
Ecl. long./lat. (J2000.0): +69°36'09.5"/+1°21'09.1"
Ecl. long./lat. (on date): +69°58'22.9"/+1°21'28.5"
Ecliptic obliquity (on date): +23°26'09.0"
Mean Sidereal Time: 12h08m44.7s
Apparent Sidereal Time: 12h08m45.1s
Rise: 6h02m
Transit: 13h45m
Set: 21h30m
Parallactic Angle: +40°55'18.8"
IAU Constellation: Tau
Zodiac: π 8°6'
Hourly motion: +0°05'17" towards 78.8"
Hourly motion: $da=+0^{\circ}05'38''$ $d\delta=-0^{\circ}01'07''$
Elongation: 9°04'37.5"
Elong. in Ecl.Long.: E8°58'33"
Phase angle: +30°49'07.8"
Illuminated: 92.9%
Distance from Sun: 0.312 AU (46.628 M km)
Distance: 1.267 AU (189.570 M km)
Light time: 0h10m32.3s
Orbital velocity: 58.315 km/s
Sidereal period: 87.97 days (0.241 a)
Synodic period: 115.88 days (0.317 a)
Apparent diameter: +0°00'05.31"
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: +344°55'24"
Center point: $L_s=+210^{\circ}08'58''$ $\phi_s: +1^{\circ}13'00''$
Subsolar point: $L_s=+179^{\circ}21'09''$ $\phi_s: +0^{\circ}01'57''$
Albedo: 0.06
Solar Az./Alt.: +307°51'03"/-7°13'23"
Lunar Az./Alt.: +251°11'02"/+43°18'40"



Date and Time ✕

Date and Time	Julian Day
2026 - 5 - 21	21 : 21 : 14

Mercury

- Mercury is low on western horizon at sunset on May 31st.
- Mercury has risen high enough to climb out of the solar glare.

Mercury

Type: planet
Magnitude: -0.53 (reduced to 0.72 by 9.66 Airmasses)
Absolute Magnitude: -0.60
RA/Dec (J2000.0): 5h55m12.36s/+25°35'09.8"
RA/Dec (on date): 5h56m50.95s/+25°35'26.7"
HA/Dec: 7h15m20.00s/+25°42'09.0" (apparent)
Az./Alt.: +301°03'19.5"/+5°26'07.6" (apparent)
Gal. long./lat.: +183°58'05.5"/+0°06'40.6"
Supergal. long./lat.: +6°47'53.2"/-46°12'48.4"
Ecl. long./lat. (J2000.0): +88°55'05.8"/+2°09'04.6"
Ecl. long./lat. (on date): +89°17'20.7"/+2°09'24.7"
Ecliptic obliquity (on date): +23°26'09.0"
Mean Sidereal Time: 13h12m38.2s
Apparent Sidereal Time: 13h12m38.6s
Rise: 6h34m
Transit: 14h31m
Set: 22h27m
Parallactic Angle: +42°52'39.2"
IAU Constellation: Tau
Zodiac: ♉ 29°12'
Hourly motion: +0°04'18" towards 89.3°
Hourly motion: $d\alpha$ =+0°04'46" $d\delta$ =+0°00'03"
Elongation: 18°47'41.6"
Elong. in Ecl.Long.: E18°40'30"
Phase angle: +66°42'32.6"
Illuminated: 69.8%
Distance from Sun: 0.356 AU (53.203 M km)
Distance: 1.100 AU (164.626 M km)
Light time: 0h09m09.1s
Orbital velocity: 51.934 km/s
Sidereal period: 87.97 days (0.241 a)
Synodic period: 115.88 days (0.317 a)
Apparent diameter: +0°00'06.12"
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: +354°21'22"
Center point: L_s =+252°20'59" ϕ_s : +2°26'21"
Subsolar point: L_s =+185°39'48" ϕ_s : +0°01'37"
Albedo: 0.06
Solar Az./Alt.: +313°17'18"/-9°01'09"
Lunar Az./Alt.: +130°50'58"/-0°05'40"



Date and Time ✕

Date and Time			Julian Day		
2026	-	5	-	31	21
↑		↑		↑	↑
↓		↓		↓	↓
:			:	:	:
47			47		
:			:		
37			37		
↑			↑		
↓			↓		

Mercury

- On May 31st, Mercury sets at 10:26 p.m. in the western sky.

Mercury



Type: planet
Magnitude: -0.53 (reduced to 4.14 by 37.04 Airmasses)
Absolute Magnitude: -0.60
RA/Dec (J2000.0): 5h55m24.54s/+25°35'12.3"
RA/Dec (on date): 5h57m03.14s/+25°35'28.8"
HA/Dec: 7h52m36.50s/+26°00'19.8" (apparent)
Az./Alt.: +307°35'12.1"/+0°09'25.6" (apparent)
Gal. long./lat.: +183°59'26.5"/+0°09'04.2"
Supergal. long./lat.: +6°51'37.0"/-46°13'45.1"
Ecl. long./lat. (J2000.0): +88°57'50.8"/+2°09'05.8"
Ecl. long./lat. (on date): +89°20'05.7"/+2°09'25.9"
Ecliptic obliquity (on date): +23°26'09.0"
Mean Sidereal Time: 13h51m08.8s
Apparent Sidereal Time: 13h51m09.2s
Rise: 6h34m
Transit: 14h31m
Set: 22h27m
Parallactic Angle: +39°07'33.1"
IAU Constellation: Tau
Zodiac: ♉ 29°15'
Hourly motion: +0°04'18" towards 89.4°
Hourly motion: dα=+0°04'46" dδ=+0°00'03"
Elongation: 18°48'53.6"
Elong. in Ecl.Long.: E18°41'42"
Phase angle: +66°47'23.5"
Illuminated: 69.7%
Distance from Sun: 0.356 AU (53.226 M km)
Distance: 1.100 AU (164.550 M km)
Light time: 0h09m08.9s
Orbital velocity: 51.914 km/s
Sidereal period: 87.97 days (0.241 a)
Synodic period: 115.88 days (0.317 a)
Apparent diameter: +0°00'06.12"
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: +354°22'47"
Center point: L_s=+252°28'04" φ_s: +2°26'35"
Subsolar point: L_s=+185°42'02" φ_s: +0°01'37"
Albedo: 0.06
Solar Az./Alt.: +321°00'55"/-13°41'20"
Lunar Az./Alt.: +137°33'15"/+4°14'58"



NW

Date and Time ✕

Date and Time			Julian Day		
2026	-	5 - 31	22	:	26 : 2

VENUS

Venus

- On May 1st, Venus is well placed on the western horizon at sunset.
- Venus is moving northeast and climbing as the month progresses.

Venus - Evening Star



Type: **planet**
Magnitude: **-3.91** (reduced to **-3.51** by **3.13** Airmasses)
Absolute Magnitude: **-5.18**
Color Index (B-V): **0.91**
RA/Dec (J2000.0): 4h29m19.37s/+22°45'19.9"
RA/Dec (on date): 4h30m54.30s/+22°48'50.2"
HA/Dec: 5h43m36.03s/+22°50'45.9" (apparent)
Az./Alt.: +284°09'24.8"/+18°33'40.8" (apparent)
Gal. long./lat.: +174°49'29.4"/-17°29'26.8"
Supergal. long./lat.: +342°45'54.3"/-37°33'32.7"
Ecl. long./lat. (J2000.0): +69°10'42.0"/+0°56'24.0"
Ecl. long./lat. (on date): +69°32'51.6"/+0°56'43.7"
Ecliptic obliquity (on date): +23°26'09.1"
Mean Sidereal Time: 10h14m39.6s
Apparent Sidereal Time: 10h14m39.9s
Rise: 7h24m
Transit: 15h04m
Set: 22h45m
Parallactic Angle: +48°51'12.7"
IAU Constellation: Tau
Zodiac: ♉ 7°43'
Hourly motion: +0°03'01" towards 80.2°
Hourly motion: $da=+0^{\circ}03'13"$ $d\delta=+0^{\circ}00'33"$
Elongation: 27°54'42.4"
Elong. in Ecl.Long.: E27°53'49"
Phase angle: +41°00'57.8"
Illuminated: 87.7%
Distance from Sun: 0.719 AU (107.523 M km)
Distance: 1.433 AU (214.336 M km)
Light time: 0h11m54.9s
Orbital velocity: 35.243 km/s
Sidereal period: 224.70 days (0.615 a)
Synodic period: 583.92 days (1.599 a)
Apparent diameter: +0°00'11.65"
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°32'55"
Center point: $L_s=+293^{\circ}34'34"$ $\phi_s: -1^{\circ}54'13"$
Subsolar point: $L_s=+334^{\circ}36'59"$ $\phi_s: -2^{\circ}05'38"$
Albedo: 0.77
Solar Az./Alt.: +298°03'32"/-5°48'06"
Lunar Az./Alt.: +120°17'17"/+0°04'54"



W

NW

Date and Time ✕

Date and Time			Julian Day		
2026	-	5	-	1	20
					:
					48
					:
					5

Venus

- On May 1st, Venus sets at 10:43 p.m. in the northwestern sky.

Venus - Evening Star



Type: **planet**
Magnitude: **-3.91** (reduced to 0.81 by 37.55 Airmasses)
Absolute Magnitude: -5.18
Color Index (B-V): **0.91**
RA/Dec (J2000.0): 4h29m44.34s/+22°46'25.3"
RA/Dec (on date): 4h31m19.29s/+22°49'54.7"
HA/Dec: 7h38m14.94s/+23°14'28.7" (apparent)
Az./Alt.: +303°18'37.8"/+0°07'42.2" (apparent)
Gal. long./lat.: +174°52'32.8"/-17°24'21.9"
Supergal. long./lat.: +342°51'56.0"/-37°36'56.2"
Ecl. long./lat. (J2000.0): +69°16'33.4"/+0°56'35.7"
Ecl. long./lat. (on date): +69°38'43.0"/+0°56'55.4"
Ecliptic obliquity (on date): +23°26'09.1"
Mean Sidereal Time: 12h11m05.2s
Apparent Sidereal Time: 12h11m05.6s
Rise: 7h24m
Transit: 15h04m
Set: 22h45m
Parallactic Angle: +40°36'42.4"
IAU Constellation: Tau
Zodiac: ♋ 7°49'
Hourly motion: +0°03'02" towards 80.3°
Hourly motion: $da=+0^{\circ}03'14"$ $d\delta=+0^{\circ}00'33"$
Elongation: 27°55'50.9"
Elong. in Ecl.Long.: E27°54'57"
Phase angle: +41°02'56.9"
Illuminated: 87.7%
Distance from Sun: 0.719 AU (107.523 M km)
Distance: 1.432 AU (214.275 M km)
Light time: 0h11m54.7s
Orbital velocity: 35.243 km/s
Sidereal period: 224.70 days (0.615 a)
Synodic period: 583.92 days (1.599 a)
Apparent diameter: +0°00'11.65"
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°35'09"
Center point: $L_s=+293^{\circ}47'35"$ $\phi_s: -1^{\circ}54'21"$
Subsolar point: $L_s=+334^{\circ}52'00"$ $\phi_s: -2^{\circ}05'51"$
Albedo: 0.77
Solar Az./Alt.: +321°51'18"/-21°42'01"
Lunar Az./Alt.: +142°09'55"/+14°29'39"



NW

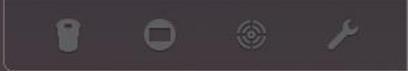
Date and Time ✕

Date and Time			Julian Day		
2026	-	5	-	1	22
↑		↑		↑	↑
↓		↓		↓	↓

Venus

- **On May 18th, Venus shares a close conjunction with a new baby Moon at sunset.**
- **Both objects are just 2 degrees from each other low in west at evening twilight.**

Venus - Evening Star



Type: **planet**
Magnitude: **-3.93** (reduced to **-3.56** by **2.87** Airmasses)
Absolute Magnitude: **-5.18**
Color Index (B-V): **0.91**
RA/Dec (J2000.0): **5h58m24.73s/+25°02'00.0"**
RA/Dec (on date): **6h00m02.75s/+25°02'09.7"**
HA/Dec: **5h41m45.74s/+25°03'53.4"** (apparent)
Az./Alt.: **+285°38'48.5"/+20°19'45.3"** (apparent)
Gal. long./lat.: **+184°48'36.1"/+0°27'37.6"**
Supergal. long./lat.: **+7°30'07.6"/-46°59'09.0"**
Ecl. long./lat. (J2000.0): **+89°38'24.7"/+1°35'40.4"**
Ecl. long./lat. (on date): **+90°00'37.4"/+1°36'00.6"**
Ecliptic obliquity (on date): **+23°26'09.1"**
Mean Sidereal Time: **11h41m57.1s**
Apparent Sidereal Time: **11h41m57.4s**
Rise: **7h33m**
Transit: **15h26m**
Set: **23h19m**
Parallactic Angle: **+49°32'10.4"**
IAU Constellation: **Tau**
Zodiac: **♉ 0°0'**
Hourly motion: **+0°02'59"** towards **88.8°**
Hourly motion: **da=+0°03'18" dδ=+0°00'04"**
Elongation: **31°56'50.9"**
Elong. in Ecl.Long.: **E31°54'41"**
Phase angle: **+48°09'50.8"**
Illuminated: **83.3%**
Distance from Sun: **0.718 AU (107.479 M km)**
Distance: **1.338 AU (200.101 M km)**
Light time: **0h11m07.5s**
Orbital velocity: **35.258 km/s**
Sidereal period: **224.70 days (0.615 a)**
Synodic period: **583.92 days (1.599 a)**
Apparent diameter: **+0°00'12.48"**
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: **+358°56'15"**
Center point: $L_s=+339°15'29"$ $\phi_s=-2°13'30"$
Subsolar point: $L_s=+27°27'54"$ $\phi_s=-2°35'59"$
Albedo: **0.77**
Solar Az./Alt.: **+304°43'01"/-5°35'17"**
Lunar Az./Alt.: **+288°21'28"/+20°58'26"**



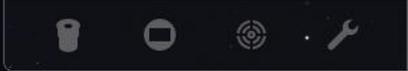
Date and Time

Date and Time			Julian Day						
2026	-	5	-	18	21	:	8	:	18

Venus

- On May 18th, Venus shares a close conjunction with a new baby Moon at sunset.
- Venus and the baby Moon both set at 11:13 p.m. in the northwestern sky.

Venus - Evening Star



Type: planet
Magnitude: -3.93 (reduced to -0.00 by 30.43 Airmasses)
Absolute Magnitude: -5.18
Color Index (B-V): 0.91
RA/Dec (J2000.0): 5h58m52.38s/+25°02'09.9"
RA/Dec (on date): 6h00m30.40s/+25°02'18.5"
HA/Dec: 7h46m07.88s/+25°23'17.1" (apparent)
Az./Alt.: +306°04'04.4"/+0°36'29.2" (apparent)
Gal. long./lat.: +184°51'35.1"/+0°33'08.0"
Supergal. long./lat.: +7°38'49.9"/-47°01'08.9"
Ecl. long./lat. (J2000.0): +89°44'40.6"/+1°35'49.4"
Ecl. long./lat. (on date): +90°06'53.3"/+1°36'09.6"
Ecliptic obliquity (on date): +23°26'09.1"
Mean Sidereal Time: 13h47m55.0s
Apparent Sidereal Time: 13h47m55.4s
Rise: 7h33m
Transit: 15h26m
Set: 23h19m
Parallactic Angle: +39°49'04.4"
IAU Constellation: Tau
Zodiac: ♉ 0°7'
Hourly motion: +0°02'60" towards 88.8°
Hourly motion: $\Delta\alpha=+0^{\circ}03'18"$ $\Delta\delta=+0^{\circ}00'04"$
Elongation: 31°58'02.4"
Elong. in Ecl.Long.: E31°55'53"
Phase angle: +48°12'05.0"
Illuminated: 83.3%
Distance from Sun: 0.718 AU (107.479 M km)
Distance: 1.337 AU (200.025 M km)
Light time: 0h11m07.2s
Orbital velocity: 35.258 km/s
Sidereal period: 224.70 days (0.615 a)
Synodic period: 583.92 days (1.599 a)
Apparent diameter: +0°00'12.48"
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: +358°58'56"
Center point: $L_s=+339^{\circ}29'30"$ $\phi_s=-2^{\circ}13'33"$
Subsolar point: $L_s=+27^{\circ}44'10"$ $\phi_s=-2^{\circ}36'03"$
Albedo: 0.77
Solar Az./Alt.: +330°51'20"/-20°41'35"
Lunar Az./Alt.: +307°18'37"/+2°10'33"



Date and Time

Date and Time			Julian Day		
2026	-	5 - 18	23	:	13 : 55

Venus

- On May 31st, Venus shares a triple conjunction with Jupiter and Mercury at sunset.
- All 3 planets form a short straight line with Venus dead center.
- Mercury is low on the western horizon at sunset. Venus and Jupiter are well placed in the twilight sky.

Venus - Evening Star



Type: **planet**
Magnitude: **-3.96** (reduced to **-3.58** by **2.94** Airmasses)
Absolute Magnitude: **-5.18**
Color Index (B-V): **0.91**
RA/Dec (J2000.0): 7h06m30.53s/+24°29'35.5"
RA/Dec (on date): 7h08m07.66s/+24°27'08.8"
HA/Dec: 5h42m30.72s/+24°28'55.8" (apparent)
Az./Alt.: +285°17'36.1"/+19°49'15.8" (apparent)
Gal. long./lat.: +192°18'35.8"/+14°01'12.7"
Supergal. long./lat.: +30°29'39.8"/-49°42'00.8"
Ecl. long./lat. (J2000.0): +105°06'07.6"/+1°55'17.1"
Ecl. long./lat. (on date): +105°28'22.6"/+1°55'36.1"
Ecliptic obliquity (on date): +23°26'09.0"
Mean Sidereal Time: 12h50m47.1s
Apparent Sidereal Time: 12h50m47.5s
Rise: 7h53m
Transit: 15h43m
Set: 23h32m
Parallactic Angle: +49°20'10.9"
IAU Constellation: Gem
Zodiac: ♊ 17°1'
Hourly motion: +0°02'57" towards 95.5°
Hourly motion: $da=+0^{\circ}03'13"$ $d\delta=-0^{\circ}00'19"$
Elongation: 34°55'12.2"
Elong. in Ecl.Long.: E34°52'24"
Phase angle: +53°49'42.1"
Illuminated: 79.5%
Distance from Sun: 0.719 AU (107.556 M km)
Distance: 1.256 AU (187.848 M km)
Light time: 0h10m26.6s
Orbital velocity: 35.233 km/s
Sidereal period: 224.70 days (0.615 a)
Synodic period: 583.92 days (1.599 a)
Apparent diameter: +0°00'13.29"
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: +5°29'52"
Center point: $L_s=+14^{\circ}00'14"$ $\phi_s: -2^{\circ}14'41"$
Subsolar point: $L_s=+67^{\circ}52'54"$ $\phi_s: -2^{\circ}35'16"$
Albedo: 0.77
Solar Az./Alt.: +309°08'26"/-6°05'17"
Lunar Az./Alt.: +127°13'01"/-3°17'02"

Jupiter

Venus

Mercury

W

NW

Date and Time ✕

Date and Time				Julian Day				
2026	-	5	-	31	:	25	:	50

Venus

- On May 31st, Mercury sets first at 10:22 p.m. in the western sky.
- Venus sets next at 11:30 p.m. in the northwestern sky. Jupiter sets 20 minutes later.

Venus - Evening Star



Type: **planet**
Magnitude: **-3.96** (reduced to **-3.25** by **5.49** Airmasses)
Absolute Magnitude: **-5.18**
Color Index (B-V): **0.91**
RA/Dec (J2000.0): 7h06m42.78s/+24°29'18.3"
RA/Dec (on date): 7h08m19.91s/+24°26'51.2"
HA/Dec: 6h39m15.83s/+24°30'30.1" (apparent)
Az./Alt.: +294°19'17.7"/+10°17'38.8" (apparent)
Gal. long./lat.: +192°20'01.4"/+14°03'38.8"
Supergal. long./lat.: +30°33'59.5"/-49°42'05.4"
Ecl. long./lat. (J2000.0): +105°08'55.7"/+1°55'19.1"
Ecl. long./lat. (on date): +105°31'10.8"/+1°55'38.1"
Ecliptic obliquity (on date): +23°26'09.0"
Mean Sidereal Time: 13h47m51.8s
Apparent Sidereal Time: 13h47m52.2s
Rise: 7h53m
Transit: 15h43m
Set: 23h32m
Parallactic Angle: +45°47'12.8"
IAU Constellation: Gem
Zodiac: ♊ 17°4'
Hourly motion: +0°02'57" towards 95.5°
Hourly motion: $da=+0^{\circ}03'14"$ $d\delta=-0^{\circ}00'19"$
Elongation: 34°55'43.2"
Elong. in Ecl.Long.: E34°52'55"
Phase angle: +53°50'44.9"
Illuminated: 79.5%
Distance from Sun: 0.719 AU (107.556 M km)
Distance: 1.255 AU (187.810 M km)
Light time: 0h10m26.5s
Orbital velocity: 35.232 km/s
Sidereal period: 224.70 days (0.615 a)
Synodic period: 583.92 days (1.599 a)
Apparent diameter: +0°00'13.29"
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: +5°31'01"
Center point: $L_s=+14^{\circ}06'33"$ $\phi_s: -2^{\circ}14'40"$
Subsolar point: $L_s=+68^{\circ}00'16"$ $\phi_s: -2^{\circ}35'14"$
Albedo: 0.77
Solar Az./Alt.: +320°20'05"/-13°19'05"
Lunar Az./Alt.: +136°57'59"/+3°52'46"



Date and Time ✕

Date and Time			Julian Day						
2026	-	5	-	31	22	:	22	:	45

MARS

Mars

- On May 1st, Mars rises at 5:15 a.m. just 45 minutes before actual sunrise in the eastern morning sky.
- Mars is close to the sun all month. May 25th, Mars rises 1 hour before the sun. The planet rises in morning twilight all month.
- June will be your best chance to see Mars in early morning sky.

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 May 1st, Jupiter sets at 1:35 a.m. in the northwestern sky.

Jupiter



Type: **planet**
Magnitude: **-2.01** (reduced to 2.55 by 36.04 Airmasses)
Absolute Magnitude: -9.40
Mean Opposition Magnitude: -2.70
Color Index (B-V): **0.96**
RA/Dec (J2000.0): 7h20m43.53s/+22°32'02.3"
RA/Dec (on date): 7h22m18.64s/+22°29'05.7"
HA/Dec: 7h35m50.93s/+22°52'49.6" (apparent)
Az./Alt.: +302°39'24.1"/+0°12'54.5" (apparent)
Gal. long./lat.: +195°30'53.3"/+16°13'51.7"
Supergal. long./lat.: +35°57'25.4"/-51°14'33.8"
Ecl. long./lat. (J2000.0): +108°34'55.1"/+0°23'13.7"
Ecl. long./lat. (on date): +108°57'04.8"/+0°23'33.0"
Ecliptic obliquity (on date): +23°26'09.1"
Mean Sidereal Time: 14h59m38.0s
Apparent Sidereal Time: 14h59m38.3s
Rise: 10h19m
Transit: 17h57m
Set: 1h38m
Parallactic Angle: +40°50'41.4"
IAU Constellation: Gem
Zodiac: ♊ 18°57'
Hourly motion: +0°00'21" towards 97.4°
Hourly motion: $d\alpha=+0^{\circ}00'23''$ $d\delta=-0^{\circ}00'03''$
Elongation: 68°04'33.2"
Elong. in Ecl.Long.: E68°04'31"
Phase angle: +10°14'40.4"
Illuminated: 99.2%
Distance from Sun: 5.255 AU (786.142 M km)
Distance: 5.547 AU (829.882 M km)
Light time: 0h46m08.2s
Orbital velocity: 12.933 km/s
Sidereal period: 4331.87 days (11.860 a)
Synodic period: 398.89 days (1.092 a)
Apparent diameter: +0°00'35.54"
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°28'60"
Center point: $L_{11a}=+320^{\circ}23'43''$ $\phi_s: +1^{\circ}17'44''$
Subsolar point: $L_{11a}=+310^{\circ}09'13''$ $\phi_s: +0^{\circ}59'18''$
Albedo: 0.51
Solar Az./Alt.: +7°13'33"/-30°19'21"
Lunar Az./Alt.: +194°18'40"/+26°21'56"

Date and Time ✕

Date and Time			Julian Day		
2026	-	5	-	1	1
:		36	:	13	



Jupiter

- On May 1st, Jupiter is high in the western sky at sunset.

Jupiter



Type: planet
 Magnitude: **-2.01** (reduced to **-1.80** by **1.55** Airmasses)
 Absolute Magnitude: -9.40
 Mean Opposition Magnitude: -2.70
 Color Index (B-V): **0.96**
 RA/Dec (J2000.0): 7h21m13.76s/+22°31'06.4"
 RA/Dec (on date): 7h22m48.85s/+22°28'08.7"
 HA/Dec: 3h41m20.14s/+22°28'54.3" (apparent)
 Az./Alt.: +262°59'39.2"/+40°01'53.6" (apparent)
 Gal. long./lat.: +195°34'38.3"/+16°19'54.8"
 Supergal. long./lat.: +36°08'39.7"/-51°14'16.0"
 Ecl. long./lat. (J2000.0): +108°41'57.7"/+0°23'16.1"
 Ecl. long./lat. (on date): +109°04'07.5"/+0°23'35.3"
 Ecliptic obliquity (on date): +23°26'09.1"
 Mean Sidereal Time: 11h04m12.6s
 Apparent Sidereal Time: 11h04m13.0s
 Rise: 10h19m
 Transit: 17h57m
 Set: 1h38m
 Parallaxic Angle: +50°14'38.0"
 IAU Constellation: Gem
 Zodiac: ♊ 19°4'
 Hourly motion: +0°00'21" towards 97.5°
 Hourly motion: dα=+0°00'23" dδ=-0°00'03"
 Elongation: 67°23'06.9"
 Elong. in Ecl.Long.: E67°23'04"
 Phase angle: +10°11'42.1"
 Illuminated: 99.2%
 Distance from Sun: 5.255 AU (786.186 M km)
 Distance: 5.560 AU (831.739 M km)
 Light time: 0h46m14.4s
 Orbital velocity: 12.933 km/s
 Sidereal period: 4331.87 days (11.860 a)
 Synodic period: 398.89 days (1.092 a)
 Apparent diameter: +0°00'35.46"
 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°32'02"
 Center point: $L_{11a}=+326^{\circ}13'09''$ $\phi_s: +1^{\circ}17'31''$
 Subsolar point: $L_{11a}=+316^{\circ}01'37''$ $\phi_s: +0^{\circ}59'05''$
 Albedo: 0.51
 Solar Az./Alt.: +307°30'52"/-13°13'29"
 Lunar Az./Alt.: +129°05'01"/+6°36'20"



Date and Time ✕

Date and Time			Julian Day		
2026	-	5	-	1	21
:	:	:	:	:	:
37	:	30	:	30	30

Jupiter

- On May 18th, Jupiter, Venus and young moon share a triple conjunction in the western sky at sunset.

Jupiter

Type: **planet**
Magnitude: **-1.93** (reduced to **-1.67** by **1.96** Airmasses)
Absolute Magnitude: -9.40
Mean Opposition Magnitude: -2.70
Color Index (B-V): **0.96**
RA/Dec (J2000.0): 7h32m39.35s/+22°08'11.1"
RA/Dec (on date): 7h34m14.12s/+22°04'47.8"
HA/Dec: 4h32m08.68s/+22°05'51.7" (apparent)
Az./Alt.: +271°48'46.8"/+30°42'51.2" (apparent)
Gal. long./lat.: +197°01'12.8"/+18°37'11.1"
Supergal. long./lat.: +40°23'23.1"/-51°02'52.2"
Ecl. long./lat. (J2000.0): +111°22'09.3"/+0°23'57.0"
Ecl. long./lat. (on date): +111°44'22.1"/+0°24'15.4"
Ecliptic obliquity (on date): +23°26'09.1"
Mean Sidereal Time: 12h06m28.0s
Apparent Sidereal Time: 12h06m28.4s
Rise: 9h25m
Transit: 17h01m
Set: 0h40m
Parallactic Angle: +50°32'16.2"
IAU Constellation: Gem
Zodiac: ♊ 21°44'
Hourly motion: +0°00'26" towards 98.5°
Hourly motion: $d\alpha=+0^{\circ}00'27''$ $d\delta=-0^{\circ}00'04''$
Elongation: 53°37'31.1"
Elong. in Ecl.Long.: E53°37'27"
Phase angle: +8°54'21.2"
Illuminated: 99.4%
Distance from Sun: 5.261 AU (787.079 M km)
Distance: 5.798 AU (867.342 M km)
Light time: 0h48m13.1s
Orbital velocity: 12.918 km/s
Sidereal period: 4331.87 days (11.860 a)
Synodic period: 398.89 days (1.092 a)
Apparent diameter: +0°00'34.00"
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: +10°40'28"
Center point: $L_{11a}=+354^{\circ}04'14''$ $\phi_s: +1^{\circ}12'39''$
Subsolar point: $L_{11a}=+345^{\circ}10'06''$ $\phi_s: +0^{\circ}54'46''$
Albedo: 0.51
Solar Az./Alt.: +309°19'44"/-9°04'38"
Lunar Az./Alt.: +291°54'36"/+17°01'55"



Date and Time

Date and Time				Julian Day					
2026	-	5	-	18	21	:	32	:	45

Jupiter

- On May 19th, Jupiter, Venus and a young Moon for a curve line in a triple conjunction above the western horizon at sunset.

Jupiter



Type: **planet**
 Magnitude: **-1.92** (reduced to **-1.66** by **2.02** Airmasses)
 Absolute Magnitude: -9.40
 Mean Opposition Magnitude: -2.70
 Color Index (B-V): **0.96**
 RA/Dec (J2000.0): 7h33m23.50s/+22°06'36.1"
 RA/Dec (on date): 7h34m58.26s/+22°03'11.1"
 HA/Dec: 4h38m03.56s/+22°04'17.9" (apparent)
 Az./Alt.: +272°47'51.8"/+29°38'24.9" (apparent)
 Gal. long./lat.: +197°06'53.0"/+18°46'01.8"
 Supergal. long./lat.: +40°39'45.3"/-51°01'49.1"
 Ecl. long./lat. (J2000.0): +111°32'30.2"/+0°23'59.5"
 Ecl. long./lat. (on date): +111°54'43.3"/+0°24'17.9"
 Ecliptic obliquity (on date): +23°26'09.1"
 Mean Sidereal Time: 12h13m07.3s
 Apparent Sidereal Time: 12h13m07.6s
 Rise: 9h22m
 Transit: 16h58m
 Set: 0h37m
 Parallaxic Angle: +50°28'36.9"
 IAU Constellation: Gem
 Zodiac: ♊ 21°54'
 Hourly motion: +0°00'26" towards 98.6°
 Hourly motion: $d\alpha=+0^{\circ}00'28''$ $d\delta=-0^{\circ}00'04''$
 Elongation: 52°49'58.2"
 Elong. in Ecl.Long.: E52°49'54"
 Phase angle: +8°48'53.0"
 Illuminated: 99.4%
 Distance from Sun: 5.262 AU (787.131 M km)
 Distance: 5.811 AU (869.281 M km)
 Light time: 0h48m19.6s
 Orbital velocity: 12.917 km/s
 Sidereal period: 4331.87 days (11.860 a)
 Synodic period: 398.89 days (1.092 a)
 Apparent diameter: +0°00'33.93"
 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: +10°44'50"
 Center point: $L_{IIa}=+145^{\circ}44'14''$ $\phi_s: +1^{\circ}12'20''$
 Subsolar point: $L_{IIa}=+136^{\circ}55'34''$ $\phi_s: +0^{\circ}54'31''$
 Albedo: 0.51
 Solar Az./Alt.: +309°58'01"/-9°16'13"
 Lunar Az./Alt.: +281°23'56"/+26°22'13"



Date and Time ✕

Date and Time			Julian Day		
2026	-	5	-	19	21
↑		↑		↑	↑
↓		↓		↓	↓
:		:		:	:
:		:		:	:
:		:		:	:

Jupiter

- On May 31st, Jupiter, Venus and Mercury form a short straight line in a triple conjunction low on the western horizon at sunset.
- Jupiter and Venus are well positioned close 20 degrees above the horizon. Mercury is around 10 degrees above the horizon.
- Jupiter and Venus are also moving towards each other for a close conjunction in June.

Jupiter

Type: **planet**
Magnitude: **-1.88** (reduced to **-1.54** by **2.66** Airmasses)
Absolute Magnitude: -9.40
Mean Opposition Magnitude: -2.70
Color Index (B-V): **0.96**
RA/Dec (J2000.0): 7h42m38.71s/+21°45'36.2"
RA/Dec (on date): 7h44m13.14s/+21°41'51.1"
HA/Dec: 5h19m19.39s/+21°43'26.2" (apparent)
Az./Alt.: +279°20'14.9"/+22°04'46.4" (apparent)
Gal. long./lat.: +198°19'13.7"/+20°37'17.6"
Supergal. long./lat.: +44°04'55.4"/-50°45'17.2"
Ecl. long./lat. (J2000.0): +113°42'57.6"/+0°24'31.4"
Ecl. long./lat. (on date): +114°05'12.5"/+0°24'49.3"
Ecliptic obliquity (on date): +23°26'09.0"
Mean Sidereal Time: 13h03m40.1s
Apparent Sidereal Time: 13h03m40.5s
Rise: 8h46m
Transit: 16h20m
Set: 23h54m
Parallactic Angle: +49°28'54.3"
IAU Constellation: Gem
Zodiac: ♊ 24°5'
Hourly motion: +0°00'28" towards 99.3°
Hourly motion: $d\alpha=+0^{\circ}00'30"$ $d\delta=-0^{\circ}00'05"$
Elongation: 43°28'49.7"
Elong. in Ecl.Long.: E43°28'44"
Phase angle: +7°36'48.7"
Illuminated: 99.6%
Distance from Sun: 5.266 AU (787.758 M km)
Distance: 5.955 AU (890.872 M km)
Light time: 0h49m31.6s
Orbital velocity: 12.907 km/s
Sidereal period: 4331.87 days (11.860 a)
Synodic period: 398.89 days (1.092 a)
Apparent diameter: +0°00'33.11"
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: +11°39'10"
Center point: $L_{11a}=+148^{\circ}01'44"$ $\phi_s: +1^{\circ}08'14"$
Subsolar point: $L_{11a}=+140^{\circ}25'10"$ $\phi_s: +0^{\circ}51'27"$
Albedo: 0.51
Solar Az./Alt.: +311°33'59"/-7°50'20"
Lunar Az./Alt.: +129°20'41"/-1°07'19"

Date and Time ✕

Date and Time			Julian Day		
2026	-	5	-	31	21
		:		:	38
				:	41

Jupiter

- On May 31st, Jupiter sets at 11:51 p.m. in the northwestern sky.

Jupiter



Type: **planet**
Magnitude: **-1.88** (reduced to 2.57 by **34.99** Airmasses)
Absolute Magnitude: -9.40
Mean Opposition Magnitude: -2.70
Color Index (B-V): **0.96**
RA/Dec (J2000.0): 7h42m43.17s/+21°45'25.4"
RA/Dec (on date): 7h44m17.59s/+21°41'40.2"
HA/Dec: 7h31m26.05s/+22°04'42.6" (apparent)
Az./Alt.: +301°21'39.5"/+0°16'48.6" (apparent)
Gal. long./lat.: +198°19'49.2"/+20°38'11.1"
Supergal. long./lat.: +44°06'33.9"/-50°45'07.9"
Ecl. long./lat. (J2000.0): +113°44'00.6"/+0°24'31.5"
Ecl. long./lat. (on date): +114°06'15.5"/+0°24'49.4"
Ecliptic obliquity (on date): +23°26'09.0"
Mean Sidereal Time: 15h17m10.2s
Apparent Sidereal Time: 15h17m10.6s
Rise: 8h46m
Transit: 16h20m
Set: 23h54m
Parallactic Angle: +41°15'40.5"
IAU Constellation: Gem
Zodiac: ♊ 24°6'
Hourly motion: +0°00'28" towards 99.3°
Hourly motion: $d\alpha=+0^{\circ}00'30''$ $d\delta=-0^{\circ}00'05''$
Elongation: 43°24'31.0"
Elong. in Ecl.Long.: E43°24'25"
Phase angle: +7°36'12.7"
Illuminated: 99.6%
Distance from Sun: 5.266 AU (787.763 M km)
Distance: 5.956 AU (891.028 M km)
Light time: 0h49m32.1s
Orbital velocity: 12.906 km/s
Sidereal period: 4331.87 days (11.860 a)
Synodic period: 398.89 days (1.092 a)
Apparent diameter: +0°00'33.10"
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: +11°39'36"
Center point: $L_{11a}=+228^{\circ}28'04''$ $\phi_s: +1^{\circ}08'12''$
Subsolar point: $L_{11a}=+220^{\circ}52'06''$ $\phi_s: +0^{\circ}51'26''$
Albedo: 0.51
Solar Az./Alt.: +340°18'21"/-21°13'09"
Lunar Az./Alt.: +154°05'33"/+12°27'14"



Pollux

Castor

Date and Time ✕

Date and Time				Julian Day					
2026	-	5	-	31	23	:	51	:	49

SATURN

Saturn

- On May 1st, Saturn rises at 5:06 a.m. just 1 hour before local sunrise.
- The first 12 days of the month Saturn is low in the solar glare at sunrise. Saturn slowly climbs away from sun by mid-month.



Saturn

Type: planet
 Magnitude: 0.93 (reduced to 5.50 by 36.12 Airmasses)
 Absolute Magnitude: -8.88
 Mean Opposition Magnitude: 0.67
 Color Index (B-V): 1.22
 RA/Dec (J2000.0): 0h37m51.41s/+1°30'02.9"
 RA/Dec (on date): 0h37m12.85s/+1°38'47.4"
 HA/Dec: 17h53m19.20s/+2°00'43.4" (apparent)
 Az./Alt.: +87°23'38.0"/+0°12'38.4" (apparent)
 Gal. long./lat.: +114°50'50.7"/-61°07'34.1"
 Supergal. long./lat.: +296°36'02.1"/+5°01'00.2"
 Ecl. long./lat. (J2000.0): +8°49'34.7"/-2°10'25.4"
 Ecl. long./lat. (on date): +9°11'45.1"/-2°10'21.1"
 Ecliptic obliquity (on date): +23°26'09.1"
 Mean Sidereal Time: 18h29m01.9s
 Apparent Sidereal Time: 18h29m02.2s
 Rise: 5h04m
 Transit: 11h12m
 Set: 17h21m
 Parallax Angle: -45°40'31.2"
 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°53'18.3"
 Elong. in Ecl.Long.: W31°49'20"
 Phase angle: +3°13'04.4"
 Illuminated: 99.9%
 Distance from Sun: 9.481 AU (1418.400 M km)
 Distance: 10.322 AU (1544.135 M km)
 Light time: 1h25m50.7s
 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°00'16.10", with rings: +0°00'37.51"
 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°26'01"
 Center point: L_{IIIe}=+47°51'43" φ_e: -7°04'01"
 Subsolar point: L_{IIIe}=+50°39'33" φ_s: -5°25'57"
 Albedo: 0.50
 Solar Az./Alt.: +56°54'19"/-10°11'38"
 Lunar Az./Alt.: +239°01'02"/+4°01'19"



E

Date and Time ✕

Date and Time				Julian Day					
2026	-	5	-	1	5	:	16	:	2

Saturn

- On May 13th, Saturn and waning old Moon rise a wide conjunction in the eastern morning twilight sky.
- Moonrise is at 3:50 a.m. Saturn rises at 4:22 a.m.

Saturn



Type: **planet**
 Magnitude: **0.91** (reduced to **3.86** by **22.44** Airmasses)
 Absolute Magnitude: -8.88
 Mean Opposition Magnitude: 0.67
 Color Index (B-V): **1.22**
 RA/Dec (J2000.0): 0h40m39.84s/+1°58'52.5"
 RA/Dec (on date): 0h42m01.47s/+2°07'35.9"
 HA/Dec: 17h58m59.62s/+2°22'03.5" (apparent)
 Az./Alt.: +88°07'46.1"/+1°28'24.3" (apparent)
 Gal. long./lat.: +117°24'43.3"/-60°46'30.0"
 Supergal. long./lat.: +297°23'21.3"/+3°59'21.4"
 Ecl. long./lat. (J2000.0): +10°07'14.4"/-2°12'12.1"
 Ecl. long./lat. (on date): +10°29'26.7"/-2°12'07.4"
 Ecliptic obliquity (on date): +23°26'09.1"
 Mean Sidereal Time: 18h40m01.4s
 Apparent Sidereal Time: 18h40m01.7s
 Rise: 4h19m
 Transit: 10h30m
 Set: 16h41m
 Parallaxic Angle: -45°43'07.4"
 IAU Constellation: Cet
 Zodiac: ♎ 10°29'
 Hourly motion: +0°00'16" towards 68.5°
 Hourly motion: $d\alpha=+0^{\circ}00'14''$ $d\delta=+0^{\circ}00'06''$
 Elongation: 42°09'53.8"
 Elong. in Ecl.Long.: W42°07'05"
 Phase angle: +4°06'13.5"
 Illuminated: 99.9%
 Distance from Sun: 9.478 AU (1417.848 M km)
 Distance: 10.202 AU (1526.251 M km)
 Light time: 1h24m51.0s
 Orbital velocity: 9.709 km/s
 Sidereal period: 10760.00 days (29.459 a)
 Synodic period: 378.09 days (1.035 a)
 Apparent diameter: +0°00'16.29", with rings: +0°00'37.95"
 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°19'25"
 Center point: $L_{IIIe}=+35^{\circ}48'53''$ $\phi_e=-7^{\circ}37'19''$
 Subsolar point: $L_{IIIe}=+39^{\circ}25'38''$ $\phi_s=-5^{\circ}36'47''$
 Albedo: 0.50
 Solar Az./Alt.: +47°56'34"/-12°33'58"
 Lunar Az./Alt.: +91°33'16"/+6°44'22"



Date and Time ✕

Date and Time			Julian Day		
2026	-	5	-	13	4
↑		↑		↑	↑
↓		↓		↓	↓
:	28	:	49		

Saturn

- On May 31st, Saturn rises at 3:13 a.m. in the eastern morning pre-dawn sky.

Saturn

(2) Pallas



Type: **planet**
 Magnitude: **0.88** (reduced to **5.53** by **36.85** Airmasses)
 Absolute Magnitude: -8.88
 Mean Opposition Magnitude: 0.67
 Color Index (B-V): **1.22**
 RA/Dec (J2000.0): 0h47m00.44s/+2°35'33.5"
 RA/Dec (on date): 0h48m22.36s/+2°44'15.4"
 HA/Dec: 17h48m47.22s/+3°06'32.9" (apparent)
 Az./Alt.: +85°49'04.8"/+0°10'04.5" (apparent)
 Gal. long./lat.: +120°42'03.2"/-60°15'35.7"
 Supergal. long./lat.: +298°24'22.5"/+2°37'39.9"
 Ecl. long./lat. (J2000.0): +11°49'09.8"/-2°15'35.5"
 Ecl. long./lat. (on date): +12°11'25.2"/-2°15'30.3"
 Ecliptic obliquity (on date): +23°26'09.0"
 Mean Sidereal Time: 18h35m38.0s
 Apparent Sidereal Time: 18h35m38.3s
 Rise: 3h13m
 Transit: 9h25m
 Set: 15h38m
 Parallaxic Angle: -45°37'47.7"
 IAU Constellation: Cet
 Zodiac: ♎ 12°11'
 Hourly motion: +0°00'13" towards 69.5°
 Hourly motion: $d\alpha=+0^{\circ}00'12''$ $d\delta=+0^{\circ}00'04''$
 Elongation: 57°42'44.8"
 Elong. in Ecl.Long.: W57°41'03"
 Phase angle: +5°11'28.1"
 Illuminated: 99.8%
 Distance from Sun: 9.472 AU (1417.022 M km)
 Distance: 9.975 AU (1492.223 M km)
 Light time: 1h22m57.5s
 Orbital velocity: 9.714 km/s
 Sidereal period: 10760.00 days (29.459 a)
 Synodic period: 378.09 days (1.035 a)
 Apparent diameter: +0°00'16.66", with rings: +0°00'38.81"
 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°10'34"
 Center point: $L_{IIIe}=+186^{\circ}13'42''$ $\phi_{e}:-8^{\circ}19'40''$
 Subsolar point: $L_{IIIe}=+190^{\circ}51'18''$ $\phi_{s}:-5^{\circ}53'01''$
 Albedo: 0.50
 Solar Az./Alt.: +29°51'42"/-18°04'10"
 Lunar Az./Alt.: +209°18'58"/+12°16'23"



E

Date and Time ✕

Date and Time			Julian Day		
2026	-	5	-	31	3
:	13	:	40		

URANUS

Uranus

- On May 1st, Uranus is low in the western sky at sunset.

Uranus



Type: **planet**
 Magnitude: **5.83** (reduced to **7.13** by **10.02** Airmasses)
 Absolute Magnitude: -7.19
 Mean Opposition Magnitude: 5.52
 Color Index (B-V): **0.74**
 RA/Dec (J2000.0): 3h51m17.83s/+19°58'49.6"
 RA/Dec (on date): 3h52m49.95s/+20°03'37.4"
 HA/Dec: 6h51m42.70s/+20°10'23.6" (apparent)
 Az./Alt.: +293°16'20.9"/+5°11'45.0" (apparent)
 Gal. long./lat.: +170°29'26.7"/-25°50'54.2"
 Supergal. long./lat.: +333°17'32.7"/-32°27'44.1"
 Ecl. long./lat. (J2000.0): +59°58'08.8"/-0°10'01.8"
 Ecl. long./lat. (on date): +60°20'18.5"/-0°09'43.3"
 Ecliptic obliquity (on date): +23°26'09.1"
 Mean Sidereal Time: 10h45m00.6s
 Apparent Sidereal Time: 10h45m00.9s
 Rise: 7h01m
 Transit: 14h27m
 Set: 21h53m
 Parallaxic Angle: +44°27'40.9"
 IAU Constellation: Tau
 Zodiac: ♐ 0°20'
 Hourly motion: +0°00'08" towards 78.6°
 Hourly motion: dα=+0°00'09" dδ=+0°00'02"
 Elongation: 18°40'05.0"
 Elong. in Ecl.Long.: E18°40'02"
 Phase angle: +0°56'57.3"
 Illuminated: 100.0%
 Distance from Sun: 19.469 AU (2912.468 M km)
 Distance: 20.421 AU (3054.882 M km)
 Light time: 2h49m50.0s
 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°00'13.19"
 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°31'40"
 Center point: $L_s=+248^{\circ}23'14"$ $\phi_s: +70^{\circ}50'09"$
 Subsolar point: $L_s=+249^{\circ}34'30"$ $\phi_s: +71^{\circ}42'17"$
 Albedo: 0.66
 Discovered: 17 March 1781 (W. Herschel)
 Solar Az./Alt.: +303°44'57"/-10°26'35"
 Lunar Az./Alt.: +125°35'47"/+4°03'56"



Date and Time ✕

Date and Time			Julian Day						
2026	-	5	-	1	21	:	18	:	21

Uranus

- On May 1st, Uranus sets at 9:52 p.m. in the northwestern sky.

Uranus



Type: **planet**
 Magnitude: **5.83** (reduced to **10.62** by **38.10** Airmasses)
 Absolute Magnitude: -7.19
 Mean Opposition Magnitude: 5.52
 Color Index (B-V): **0.74**
 RA/Dec (J2000.0): 3h51m18.16s/+19°58'50.6"
 RA/Dec (on date): 3h52m50.28s/+20°03'38.4"
 HA/Dec: 7h24m48.41s/+20°28'00.1" (apparent)
 Az./Alt.: +299°08'11.3"/+0°05'54.3" (apparent)
 Gal. long./lat.: +170°29'29.6"/-25°50'50.2"
 Supergal. long./lat.: +333°17'36.8"/-32°27'47.4"
 Ecl. long./lat. (J2000.0): +59°58'13.5"/-0°10'01.8"
 Ecl. long./lat. (on date): +60°20'23.3"/-0°09'43.3"
 Ecliptic obliquity (on date): +23°26'09.1"
 Mean Sidereal Time: 11h19m11.2s
 Apparent Sidereal Time: 11h19m11.5s
 Rise: 7h01m
 Transit: 14h27m
 Set: 21h53m
 Parallaxic Angle: +41°51'18.4"
 IAU Constellation: Tau
 Zodiac: ♉ 0°20'
 Hourly motion: +0°00'08" towards 78.6°
 Hourly motion: d α =+0°00'09" d δ =+0°00'02"
 Elongation: 18°38'46.7"
 Elong. in Ecl.Long.: E18°38'44"
 Phase angle: +0°56'53.5"
 Illuminated: 100.0%
 Distance from Sun: 19.469 AU (2912.468 M km)
 Distance: 20.421 AU (3054.902 M km)
 Light time: 2h49m50.1s
 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°00'13.19"
 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°31'48"
 Center point: L_z=+260°15'03" ϕ_z : +70°50'14"
 Subsolar point: L_s=+261°26'14" ϕ_s : +71°42'18"
 Albedo: 0.66
 Discovered: 17 March 1781 (W. Herschel)
 Solar Az./Alt.: +310°33'09"/-15°17'53"
 Lunar Az./Alt.: +131°52'53"/+8°31'10"



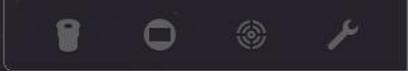
Date and Time ✕

Date and Time			Julian Day						
2026	-	5	-	1	21	:	52	:	26

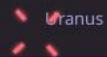
Uranus

- On May 6th, Uranus sets at 9:35 p.m. and now gets lost in the evening solar glare at sunset.
- Now longer visible this month.

Uranus



Type: **planet**
 Magnitude: **5.83** (reduced to **10.57** by **37.63** Airmasses)
 Absolute Magnitude: -7.19
 Mean Opposition Magnitude: 5.52
 Color Index, (B-V): **0.74**
 RA/Dec (J2000.0): 3h52m28.50s/+20°02'27.9"
 RA/Dec (on date): 3h54m00.76s/+20°07'13.4"
 HA/Dec: 7h24m54.62s/+20°31'22.0" (apparent)
 Az./Alt.: +299°11'31.0"/+0°07'26.5" (apparent)
 Gal. long./lat.: +170°39'46.7"/-25°36'41.2"
 Supergal. long./lat.: +333°32'23.5"/-32°39'14.0"
 Ecl. long./lat. (J2000.0): +60°15'08.4"/-0°09'58.5"
 Ecl. long./lat. (on date): +60°37'19.2"/-0°09'40.2"
 Ecliptic obliquity (on date): +23°26'09.1"
 Mean Sidereal Time: 11h20m27.0s
 Apparent Sidereal Time: 11h20m27.4s
 Rise: 6h43m
 Transit: 14h09m
 Set: 21h35m
 Parallaxic Angle: +41°50'46.2"
 IAU Constellation: Tau
 Zodiac: ♉ 0°37'
 Hourly motion: +0°00'09" towards 78.7°
 Hourly motion: $d\alpha=+0^{\circ}00'09''$ $d\delta=+0^{\circ}00'02''$
 Elongation: 14°05'45.2"
 Elong. in Ecl.Long.: E14°05'41"
 Phase angle: +0°43'23.5"
 Illuminated: 100.0%
 Distance from Sun: 19.468 AU (2912.334 M km)
 Distance: 20.445 AU (3058.489 M km)
 Light time: 2h50m02.0s
 Orbital velocity: 6.717 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°00'13.18"
 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°57'45"
 Center point: $L_s=+239^{\circ}59'57''$ $\phi_s:+71^{\circ}05'41''$
 Subsolar point: $L_s=+240^{\circ}54'46''$ $\phi_s:+71^{\circ}45'23''$
 Albedo: 0.66
 Discovered: 17 March 1781 (W. Herschel)
 Solar Az./Alt.: +307°47'08"/-11°38'11"
 Lunar Az./Alt.: +92°42'22"/-37°33'31"



Date and Time ✕

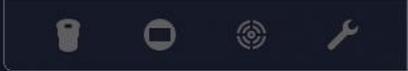
Date and Time			Julian Day						
2026	-	5	-	6	21	:	34	:	2

NEPTUNE

Neptune

- On May 1st, Neptune rises at 4:46 a.m. in the eastern morning twilight sky.

Neptune



Type: **planet**
 Magnitude: **7.82** (reduced to **12.41** by **36.31** Airmasses)
 Absolute Magnitude: -6.87
 Mean Opposition Magnitude: 7.84
 RA/Dec (J2000.0): 0h12m46.11s/-0°03'20.1"
 RA/Dec (on date): 0h14m07.41s/+0°05'29.3"
 HA/Dec: 17h59m19.48s/+0°27'30.0" (apparent)
 Az./Alt.: +89°33'14.6"/+0°11'57.5" (apparent)
 Gal. long./lat.: +102°24'39.8"/-61°22'37.6"
 Supergal. long./lat.: +293°30'21.6"/+10°08'52.4"
 Ecl. long./lat. (J2000.0): +2°54'25.6"/-1°19'12.8"
 Ecl. long./lat. (on date): +3°16'35.7"/-1°19'10.6"
 Ecliptic obliquity (on date): +23°26'09.1"
 Mean Sidereal Time: 18h11m56.3s
 Apparent Sidereal Time: 18h11m56.7s
 Rise: 4h47m
 Transit: 10h49m
 Set: 16h52m
 Parallaxic Angle: -45°42'00.0"
 IAU Constellation: Psc
 Zodiac: ♓ 3°16'
 Hourly motion: +0°00'05" towards 67.6°
 Hourly motion: $\delta\alpha=+0^{\circ}00'04"$ $\delta\delta=+0^{\circ}00'02"$
 Elongation: 37°44'58.2"
 Elong. in Ecl.Long.: W37°43'47"
 Phase angle: +1°10'57.9"
 Illuminated: 100.0%
 Distance from Sun: 29.882 AU (4470.240 M km)
 Distance: 30.672 AU (4588.460 M km)
 Light time: 4h15m05.5s
 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°06'52"
 Center point: $L_s=+21^{\circ}19'57"$ $\phi_s: -18^{\circ}53'29"$
 Subsolar point: $L_s=+22^{\circ}31'07"$ $\phi_s: -19^{\circ}16'07"$
 Albedo: 0.62
 Discovered: 23 September 1846 (J.G. Galle)
 Solar Az./Alt.: +53°34'42"/-12°42'09"
 Lunar Az./Alt.: +235°59'50"/+6°30'03"



Date and Time ✕

Date and Time				Julian Day					
2026	-	5	-	1	4	:	48	:	0

Neptune

- On May 31st, Neptune rises at 2:51 a.m. in the eastern morning sky.

Neptune



Type: **planet**
 Magnitude: **7.80** (reduced to **12.48** by **37.18** Airmasses)
 Absolute Magnitude: -6.87
 Mean Opposition Magnitude: 7.84
 RA/Dec (J2000.0): 0h15m38.20s/+0°13'56.2"
 RA/Dec (on date): 0h16m59.82s/+0°22'47.2"
 HA/Dec: 17h57m53.56s/+0°45'12.0" (apparent)
 Az./Alt.: +89°05'34.4"/+0°08'56.8" (apparent)
 Gal. long./lat.: +104°01'03.9"/-61°19'04.1"
 Supergal. long./lat.: +293°59'12.2"/+9°32'14.8"
 Ecl. long./lat. (J2000.0): +3°40'47.0"/-1°20'26.8"
 Ecl. long./lat. (on date): +4°03'02.1"/-1°20'24.4"
 Ecliptic obliquity (on date): +23°26'09.0"
 Mean Sidereal Time: 18h13m21.1s
 Apparent Sidereal Time: 18h13m21.5s
 Rise: 2h50m
 Transit: 8h54m
 Set: 14h58m
 Parallaxic Angle: -45°41'51.3"
 IAU Constellation: Psc
 Zodiac: ♑ 4°3'
 Hourly motion: +0°00'03" towards 69.0°
 Hourly motion: $da=+0^{\circ}00'03"$ $d\delta=+0^{\circ}00'01"$
 Elongation: 65°48'58.3"
 Elong. in Ecl.Long.: W65°48'33"
 Phase angle: +1°46'24.9"
 Illuminated: 100.0%
 Distance from Sun: 29.881 AU (4470.129 M km)
 Distance: 30.282 AU (4530.118 M km)
 Light time: 4h11m50.8s
 Orbital velocity: 5.467 km/s
 Sidereal period: 60189.00 days (164.789 a)
 Synodic period: 367.49 days (1.006 a)
 Apparent diameter: +0°00'02.26", with rings: +0°00'05.73"
 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: +315°52'28"
 Center point: $L_s=+226^{\circ}33'22"$ $\phi_s:-18^{\circ}36'02"$
 Subsolar point: $L_s=+228^{\circ}19'09"$ $\phi_s:-19^{\circ}12'12"$
 Albedo: 0.62
 Discovered: 23 September 1846 (J.G. Galle)
 Solar Az./Alt.: +24°45'60"/-19°53'45"
 Lunar Az./Alt.: +204°43'30"/+14°02'29"



Neptune

E

Date and Time ✕

Date and Time				Julian Day					
2026	-	5	-	31	2	:	51	:	27

DEEP SKY

VULPECULA

NGC 6823 AND NGC 6820

CLOUD SCULPTING STAR CLUSTER

Cloud Sculpting Star Cluster

NGC 6823 - SH 2-86 - LBN 135 - Cr 405

Type: cluster associated with nebulosity (1, 2, 2)
 Magnitude: 7.10 (reduced to 7.35 by 1.96 Airmasses)
 Color Index (B-V): 0.61
 Surface brightness: 14.34 mag/arc-min² (after extinction: 14.79 mag/arc-min²)
 Contrast index: -0.60
 RA/Dec (J2000.0): 19h43m09.74s/+23°17'48.2"
 RA/Dec (on date): 19h44m17.33s/+23°21'32.8"
 HA/Dec: 19h22m54.14s/+23°22'36.2" (apparent)
 Az./Alt.: +86°11'43.3"/+30°38'14.4" (apparent)
 Gal. long./lat.: +59°24'01.5"/-0°08'53.1"
 Supergal. long./lat.: +332°07'37.5"/+76°21'43.7"
 Ecl. long./lat. (J2000.0): +303°36'06.3"/+43°46'25.3"
 Ecl. long./lat. (on date): +303°58'05.9"/+43°46'08.7"
 Ecliptic obliquity (on date): +23°26'09.1"
 Mean Sidereal Time: 15h07m05.4s
 Apparent Sidereal Time: 15h07m05.8s
 Rise: 21h55m
 Transit: 5h41m
 Set: 13h23m
 Parallaxic Angle: -51°04'31.3"
 IAU Constellation: Vul
 Zodiac: ♋ 3°58' Lizard
 Size: +0°40'00.00" x +0°30'00.00"
 Redshift: 0.000057
 Morphological description: circular form, conventional structure, moderate brightness.
 Solar Az./Alt.: +358°34'21"/-27°48'22"
 Lunar Az./Alt.: +81°46'14"/-22°22'38"



Date and Time ✕

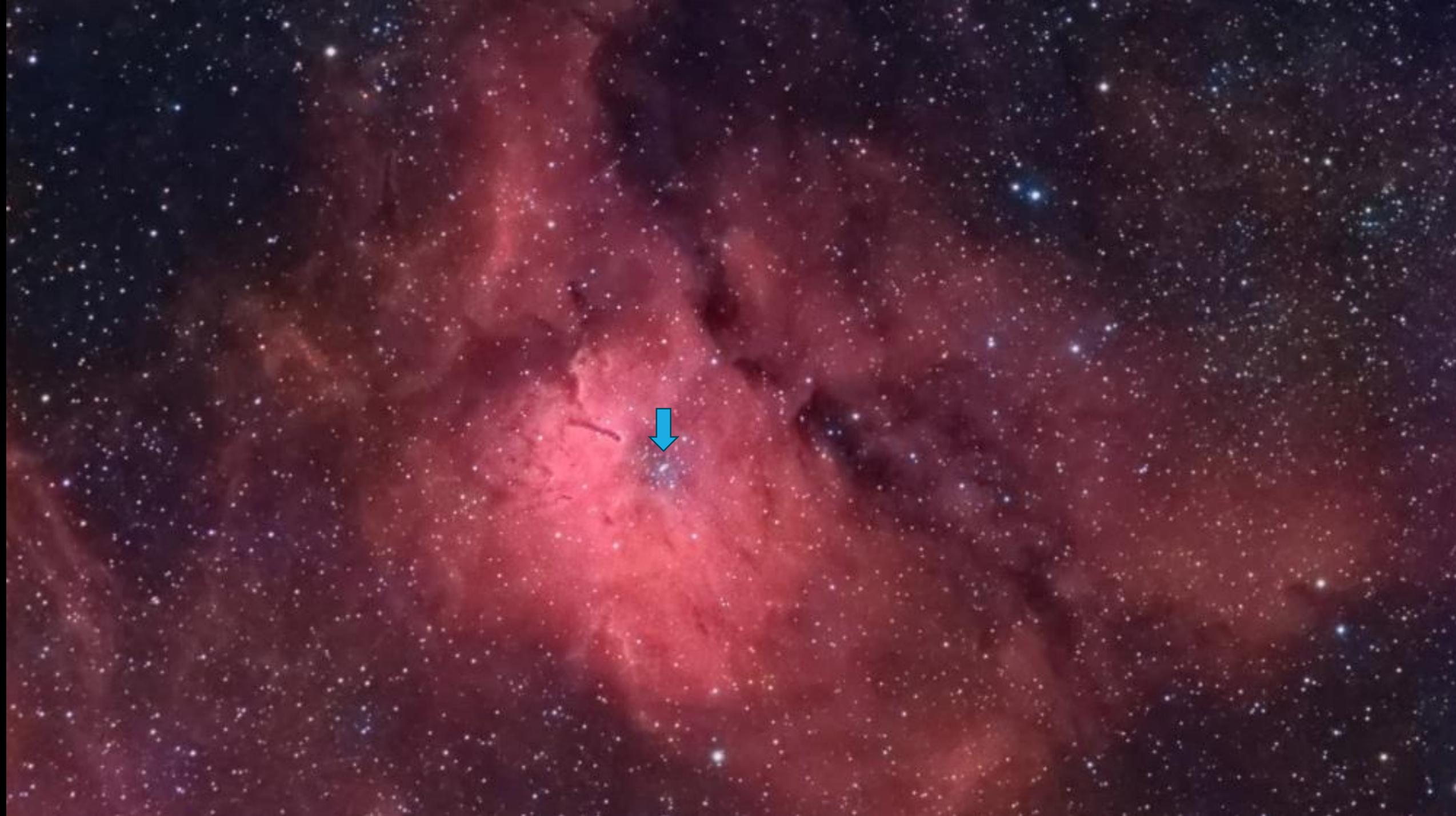
Date and Time			Julian Day		
2026	-	5	-	11	1
:		4	:	20	

NGC 6823 – CLOUD SCULPTING STAR CLUSTER

- **Other Designations:** NGC 6820, Nefatari's Headdress, Emission Nebula, SH2-86, Part of emission nebula NGC 6820.
- **Constellation:** Vulpecula the Fox
- **Type:** Open Star Cluster. Embedded in the center of NGC 6820.
- **Type:** Nebula – Emission – star forming region of ionized hydrogen.
- **Diameter:** 50 light years across – small star cluster.
- **Distance:** 6,000 light years from Earth
- **Magnitude:** +7.1
- **Size:** 7 arc minutes across
- **Nebula Size:** 40 x 40 arc minutes across
- **Age:** Stars are 2 million years old. Still forming.

NGC 6823 – CLOUD SCULPTING STAR CLUSTER

- Photo below taken by an amateur astronomer.
- NGC 6823 the small open cluster is surrounded by the main emission nebula NGC 6820
- Blue arrow shows where NGC 6823 is located inside the frame.



NGC 6823 – CLOUD SCULPTING STAR CLUSTER

- The second photos was taken by the Gemini North Telescope.
- A close-up of the inner structure of the pillars within NGC 6820.



NGC 6823 – CLOUD SCULPTING STAR CLUSTER

- Photo below taken by Astronomy Photo of the day
- Gemini North Telescope showing Cluster NGC 6823
- Shows a close-up view of NGC 6823 – Open star cluster next to the pillars of dense dust and gas.



That is the Sky this Month

By David Mills