Sky this Month

March 2024





MOON

FULL MOON



•The full Moon is on March 25th, at 3:00 a.m.

•The Moon rises at 7:05 p.m. on March 24th, looking east.

•This month's Full Moon is called the Worm Moon.

Moon



Type: moon Magnitude: -12.14 (extincted to: -7.15) Absolute Magnitude: 32.26 RA/Dec (J2000.0): 12h07m56.70s/+0°13'12.5" RA/Dec (on date): 12h09m11.51s/+0°05'04.9" Hour angle/DE: 17h58m6.13s/+0°28'45.4" (apparent) Az/Alt: +89°19'32.1"/-0°00'17.5" (apparent) Ecliptic longitude/latitude (J2000.0): +181°44'05.7"/+0°59'31.0" Ecliptic longitude/latitude (on date): +182°04'29.6"/+0°59'29.3" Ecliptic obliquity (on date): +23°26'10" Galactic longitude/latitude: -80°04'08.8"/+61°08'04.2" Mean Sidereal Time: 6h5m40.9s Apparent Sidereal Time: 6h5m40.6s Distance: 0.002712AU (405726.108 km) Apparent diameter: +0°29'26.5" Sidereal period: 27.32 days (0.075 a) Sidereal day: 655h43m11.5s Mean solar day: 708h44m2.8s Phase Angle: +2°53'35" Elongation: +177°05'57" Phase: 1.00 Illuminated: 99.9%



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NEW MOON

Moon

- •The New Moon is on March 10th, at 5:00 a.m.
- •The Moon is south of the sun.
- •Jupiter well east of the sun out of view.
- •Mercury is just east of the sun.
- •Saturn is just west of the sun, having just past solar conjunction.
- •Venus and Mars are furthest west of the sun.
- •Both are now visible in morning twilight sky.

Moon

Type: moon Magnitude: -0.50 Absolute Magnitude: 44.17 RA/Dec (J2000.0): 23h28m58.10s/-6°42'45.7" RA/Dec (on date): 23h30m13.33s/-6°34'44.6" Hour angle/DE: 15h31m43.38s/-6°34'44.6" Az/Alt: +67°00'53.2"/-30°34'10.4" Ecliptic longitude/latitude (J2000.0): +350°13'37.6"/-3°05'26.8" Ecliptic longitude/latitude (on date): +350°33'59.6"/-3°05'29.3" Ecliptic obliquity (on date): +23°26'10" Galactic longitude/latitude: +75°22'32.9"/-61°42'43.2" Apparent Sidereal Time: 15h1m56.7s Distance: 0.002407AU (360098.131 km) Apparent diameter: +0°33'10.4" Sidereal period: 27.32 days (0.075 a) Sidereal day: 655h43m11.5s Mean solar day: 708h44m2.8s Phase Angle: +176°53'28" Elongation: +3°06'05" Phase: 0.00 Illuminated: 0.1%



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2024-03-10 05:01:05 UTC-04:00

Full-screen mode [F11]

Earth, Peterborough, 188m

FOV 43° 15 FPS

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MERCURY



•On March 10th, Mercury reappears in the evening sky at sunset.

•Mercury remain low in the western evening twilight sky all month.

•Mercury is visible at 7:45 p.m. in western sky at sunset

•Viewing window is short as the days get longer.

Mercury

Type: planet

Magnitude: -0.50 (extincted to: 1.22) Absolute Magnitude: 30.61 RA/Dec (J2000.0): 0h05m11.61s/+0°08'54.1" RA/Dec (on date): 0h06m26.27s/+0°17'00.8" Hour angle/DE: 5h41m13.83s/+0°25'39.2" (apparent) Az/Alt: +267°01'30.4"/+3°39'20.0" (apparent) Ecliptic longitude/latitude (J2000.0): +1°15'00.9"/-0°22'49.0' Ecliptic longitude/latitude (on date): +1°35'22.1"/-0°22'49.0' Ecliptic longitude/latitude (on date): +1°35'22.1"/-0°22'47.6' Ecliptic longitude/latitude (on date): +1°35'22.1"/-0°22'47.6' Ecliptic longitude/latitude : +98°52'47.4"/-60°32'44.4" Mean Sidereal Time: 5h48m15.7s Apparent Sidereal Time: 5h48m15.4s Distance: 1.239AU (185.361 Mio km) Apparent diameter: +0°00'05.4" Sidereal period: 87.97 days (0.241 a) Sidereal day: 1407h30m33.8s Mean solar day: 4222h27m52.5s Phase Angle: +35°02'37" Elongation: +10°41'47" Phase: 0.91 Illuminated: 90.9%





VV

Mercury

Full-screen mode [F11]

Earth, Peterborough, 188m

igh, 188m FOV 13.4° 59.3 FPS 2024-03-10 19:44:58 UTC-04:00



•On March 24th, Mercury reaches it greatest elongation west.

•Mercury is visible at sunset around 8:05 p.m.

•The planet is only 12 degrees above the western horizon.

Mercury



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Full-screen mode [F11]

Earth, Peterborough, 188m

FOV 36.4° 16.1 FPS 2024-03-24 20:06:36 UTC-04:00 X X 🕨 44



•On March 24, Mercury now sets at 9:08 p.m. looking west.

•Mercury is only visible for just under an hour.

Mercury

Type: planet

Magnitude: 0.75 (extincted to: 4.75) Absolute Magnitude: 32.57 RA/Dec (on date): 1h23m3.90s/+11°21'46.3" Hour angle/DE: 6h43m19.41s/+11°41'29.4" (apparent) Az/Alt: +285°52'34.2"/+0°33'48.2" (apparent) Ecliptic longitude/latitude (J2000.0): +23°05'30.2"/+2°26'03.1" Ecliptic longitude/latitude (on date): +23°25'53.0"/+2°26'12.2" Ecliptic obliquity (on date): +23°26'10" Galactic longitude/latitude: +134°47'20.5"/-50°56'12.0" Distance: 0.894AU (133.730 Mio km) Sidereal period: 87.97 days (0.241 a) Mean solar day: 4222h27m52.5s Phase Angle: +99°00'20" Phase: 0.42 Illuminated: 42.2%



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Mercury -

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Jupiter

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Full-screen mode [F11]

Earth, Peterborough, 188m

FOV 36.4° **17 FPS** 2024-03-24 21:09:00 UTC-04:00 $\mathbf{\Sigma}$

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•On March 31st, Mercury is visible at sunset around 8:24 p.m.

•The planet is low on the western horizon.

Mercury

Type: planet

Magnitude: 2.30 (extincted to: 3.31)



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Full-screen mode [F11]

Earth, Peterborough, 188m

FOV 36.4° 16.2 FPS 2024-03-31 20:24:35 UTC-04:00 X

Mercury



•On March 31st, Mercury now set at 9:03 p.m.

•The viewing window for Mercury is just 30 minutes.

Mercury

Type: planet

Magnitude: 2.31 (extincted to: 6.41) Absolute Magnitude: 34.58 RA/Dec (J2000.0): 1h34m46.51s/+13°21'59.2" RA/Dec (on date): 1h36m4.41s/+13°29'29.3" Hour angle/DE: 6h52m41.32s/+13°49'52.1" (apparent) Ecliptic longitude/latitude (J2000.0): +26°49'56.6"/+3°14'37.9" Ecliptic longitude/latitude (on date): +27°10'20.4"/+3°14'48.1" Galactic longitude/latitude: +138°50'39.6"/-48°09'42.6" Distance: 0.725AU (108.450 Mio km) Apparent diameter: +0°00'09.3" Sidereal period: 87.97 days (0.241 a) Sidereal day: 1407h30m33.8s Mean solar day: 4222h27m52.5s Phase Angle: +131°14'12" Phase: 0.17 Illuminated: 17.0%



Full-screen mode [F11]

Earth, Peterborough, 188m

FOV 22.1° 43.8 FPS 2024-03-31 21:03:49 UTC-04:00 5



Hamal

Mercury

VENUS

Venus

• On March 1st, Venus rises at 6:00 a.m. in the eastern twilight sky.

• Venus is at its stationary point its orbit. From Earth's vantage point Venus remains at constant position in our sky.

• On the same morning March 1st, Venus and Mars rise together.

• Both planets separation is less than 5 degrees. Low in the eastern sky.

Venus



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Venus

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Full-screen mode [F11]

Earth, Peterborough, 188m

FOV 18.7° 15.8 FPS 2024-03-01 06:01:09 UTC-05:00 X



•On March 16th, Venus is now in Retrograde (eastward motion)

•Venus is rising at 6:53 a.m. just before sunrise.

•The planet is now getting lost in the solar glare at sunrise.

• Difficult to view for the remainder of the month.



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Full-screen mode [F11]

Earth, Peterborough, 188m

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Venus





•On March 1st, Mars rises at 5:50 a.m. or 1 hour before sunrise.

•At the beginning of the month Mars moves east or retrograde motion. Mars remains low in eastern sky as the days get longer.

• By mid-month, the planet starts moving west again.

Mars

Type: planet Magnitude: 1.26 (extincted to: 5.76) Phase Angle: +19°16'48"



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Mars .

Full-screen mode [F11]

Earth, Peterborough, 188m

FOV 8.12° 41.5 FPS 2024-03-01 05:50:13 UTC-05:00 5



•On March 31st, Mars rises at 5:51 a.m. in the eastern morning sky.

•The observing window remains short all month.

•Mars never gets above 11 degrees above the horizon before sunrise.

Mars

Type: planet Magnitude: 1.19 (extincted to: 5.40) Phase Angle: +24°04'39"



Full-screen mode [F11]

Earth, Peterborough, 188m FOV 13.4° 31.6 FPS 2024-03-31 05:51:30 UTC-04:00 5

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JUPITER



•On March 1st, Jupiter remains well placed in the western sky at sunset.



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Jupiter

Full-screen mode [F11]

Earth, Peterborough, 188m

FOV 98.9° 29.8 FPS 2024-03-01 18:35:32 UTC-05:00 X

•On March 1st, Jupiter sets at 11:00 p.m. in the west.

•The entire month of March offers a good observation window to view the planet.

Type: planet

Magnitude: -2.18 (extincted to: 0.97) Absolute Magnitude: 25.72 RA/Dec (on date): 2h37m31.04s/+14°25'21.3" Hour angle/DE: 6h51m49.63s/+14°41'12.9" (apparent) Az/Alt: +289°27'06.4"/+1°15'06.9" (apparent) Ecliptic longitude/latitude (J2000.0): +41°11'00.3"/-0°54'46.1" Ecliptic longitude/latitude (on date): +41°31'20.6"/-0°54'31.8" Ecliptic obliquity (on date): +23°26'10" Galactic longitude/latitude: +157°40'31.3"/-41°22'55.9" Mean Sidereal Time: 9h30m24.7s Distance: 5.428AU (811.970 Mio km) Apparent diameter: +0°00'36.3" Sidereal period: 4331.87 days (11.860 a) Sidereal day: 아현5배월9.7s Mean solar day: 9h55m33.1s Phase Angle: +9°50'07" Phase: 0.99 Illuminated: 99.3% *

Betelgeuse

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2024-03-01 23:01:54 UTC-05:00

Rigel -

FOV 98.9°

36.6 FPS



• Jupiter

Capella

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Full-screen mode [F11]

Earth, Peterborough, 188m

•On March 13th, Jupiter and a baby Moon share a close conjunction at sunset in the western sky at 7:55 p.m.

•Just to northeast of Jupiter lies the M45 – The Pleiades. Mercury is just above the western horizon at sunset and sets 30 minutes later.

•All 4 celestial objects can be seen in same frame.

Type: planet

Magnitude: -2.13 (extincted to: -1.89) Absolute Magnitude: 25.71 RA/Dec (on date): 2h46m1.10s/+15°07'00.3" Hour angle/DE: 3h52m33.58s/+15°08'03.3" (apparent) Ecliptic longitude/latitude (J2000.0): +43°21'06.8"/-0°52'24.5" Ecliptic longitude/latitude (on date): +43°41'28.9"/-0°52'09.6" Galactic longitude/latitude: +159°27'52.8"/-39°41'34.2" Mean Sidereal Time: 6h38m39.6s Apparent diameter: +0°00'35.3" Sidereal period: 4331.87 days (11.860 a) Sidereal day: 9h55m29.7s Phase Angle: +8°43'57" Phase: 0.99 Illuminated: 99.4%



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Jupiter

Full-screen mode [F11]

Earth, Peterborough, 188m

FOV 83.7° 39.8 FPS 2024-03-13 20:23:26 UTC-04:00 5

•On March 25th, Mercury reaches closest approach to Jupiter.

•Jupiter well above the western horizon at sunset.

•Mercury is 10 degrees above the horizon at set.

•M45 is also visible above Jupiter, all 3 form a curve line in the west.

Type: planet

Magnitude: -2.08 (extincted to: -1.78) Absolute Magnitude: 25.71 RA/Dec (J2000.0): 2h54m11.03s/+15°45'16.5" RA/Dec (on date): 2h55m32.09s/+15°51'15.5" Hour angle/DE: 4h37m25.20s/+15°52'38.2" (apparent) Ecliptic longitude/latitude (J2000.0): +45°45'35.3"/-0°50'19.0" Ecliptic longitude/latitude (on date): +46°05'59.3"/-0°50'03.4" Galactic longitude/latitude: +161°21'40.3"/-37°47'33.6" Mean Sidereal Time: 7h33m4.0s Distance: 5.722AU (856.054 Mio km) Sidereal period: 4331.87 days (11.860 a) Illuminated: 99.6%



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Full-screen mode [F11]

Earth, Peterborough, 188m

FOV 60° 16.8 FPS 2024-03-25 20:30:31 UTC-04:00 X

•On March 31st, Jupiter remain high above the western horizon at sunset.

•Both Jupiter and Mercury are visible around 8:35 p.m.

Type: planet

Magnitude: -2.06 (extincted to: -1.76) Absolute Magnitude: 25.70 RA/Dec (J2000.0): 2h59m12.59s/+16°07'50.0" RA/Dec (on date): 3h00m34.02s/+16°13'41.7" Hour angle/DE: 4h41m15.77s/+16°15'05.9" (apparent) Az/Alt: +268°22'48.8"/+25°16'14.4" (apparent) Ecliptic longitude/latitude (J2000.0): +47°01'30.5"/-0°49'22.7 Ecliptic longitude/latitude (on date): +47°21'55.4"/-0°49'06.9 Ecliptic obliquity (on date): +23°26'10" Galactic longitude/latitude: +162°19'19.3"/-36°47'03.7" Mean Sidereal Time: 7h41m56.6s Apparent Sidereal Time: 7h41m56.3s Distance: 5.783AU (865.085 Mio km) Apparent diameter: +0°00'34.1" Sidereal period: 4331.87 days (11.860 a) Sidereal day: 9h55m32.1s Phase Angle: +6°40'33" Elongation: +35°36'14" Phase: 1.00 Illuminated: 99.7%



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Earth, Peterborough, 188m FOV 43° 19.8 FPS 2024-03-31 20:15:46 UTC-04:00



•On March 31st, Jupiter sets at 10:35 p.m. in the western sky.

Full-screen mode [F11] Earth, Peterborough, 188m



2024-03-31 22:35:44 UTC-04:00

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Betelgeuse

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30.6 FPS

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FOV 83.7°

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Jupiter Type: planet Magnitude: -2.06 (extincted to: 1.24) Absolute Magnitude: 25.70 RA/Dec (J2000.0): 2h59m17.56s/+16°08'11.8" RA/Dec (on date): 3h00m39.00s/+16°14'03.5" Hour angle/DE: 7h00m31.30s/+16°30'46.1" (apparent) Ecliptic longitude/latitude (J2000.0): +47°02'45.4"/-0°49'21.9" Ecliptic longitude/latitude (on date): +47°23'10.4"/-0°49'06.2" Ecliptic obliquity (on date): +23°26'10" Galactic longitude/latitude: +162°20'15.6"/-36°46'03.9" Apparent diameter: +0°00'34.1" Sidereal period: 4331.87 days (11.860 a) Sidereal day: 9h55m29.7s Phase Angle: +6°39'49"

Illuminated: 99.7%

Capella

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SATURN

Saturn

•On March 22nd, Saturn emerges from the pre-dawn solar glare.

•Saturn is just above the Eastern horizon at sunrise.

•Saturn and Venus rise together at 6:40 a.m. in the eastern sky shortly before sunrise.

Saturn

Type: planet Magnitude: 1.06 (extincted to: 4.68) Absolute Magnitude: 27.50 RA/Dec (J2000.0): 22h56m46.48s/-8°31'11.5" RA/Dec (on date): 22h58m2.65s/-8°23'24.8" Hour angle/DE: 18h36m42.39s/-8°05'34.6" (apparent) Az/Alt: +102°11'02.0"/+0°50'27.6" (apparent) Ecliptic longitude/latitude (J2000.0): +342°10'08.4"/-1°38'55.8" Ecliptic longitude/latitude (on date): +342°30'31.8"/-1°39'01.2" Ecliptic obliquity (on date): +23°26'10" Galactic longitude/latitude: +62°00'40.1"/-57°07'24.3" Mean Sidereal Time: 17h33m33.3s Apparent Sidereal Time: 17h33m33.0s Distance: 10.646AU (1592.601 Mio km) Apparent diameter: +0°00'15.6", with rings: +0°00'36.4" Sidereal period: 10760.00 days (29.459 a) Sidereal day: 10h39m22.4s Mean solar day: 10h39m24.0s Phase Angle: +1°59'52" Elongation: +19°52'04" Phase: 1.00 Illuminated: 100.0%



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Full-screen mode [F11]

Earth, Peterborough, 188m

FOV 3.53° 26.8 FPS 2024-03-22 06:45:05 UTC-04:00



•On March 31st, Saturn rises at 6:07 a.m. in the eastern twilight sky.

•Saturn rises just 45 minutes before sunrise.

Saturn



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Saturn

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Full-screen mode [F11]

Earth, Peterborough, 188m

FOV 3.53° 16.5 FPS 2024-03-31 06:07:55 UTC-04:00 $\mathbf{\Sigma}$ XV Π. 44

URANUS



•On March 1^{st,}, Uranus is high in west at sunset.

•Uranus is just north of Jupiter.



Type: planet

Magnitude: 5.77 (extincted to: 5.94) Absolute Magnitude: 30.84 Az/Alt: +238°48'55.0"/+50°08'31.3" (apparent) Ecliptic longitude/latitude (J2000.0): +49°16'29.0"/-0°17'06.2" Ecliptic longitude/latitude (on date): +49°36'49.1"/-0°16'50.1" Galactic longitude/latitude: +163°28'21.7"/-34°40'06.5" Distance: 19.958AU (2985.684 Mio km) Apparent diameter: +0°00'03.5", with rings: +0°00'13.5" Sidereal period: 30685.00 days (84.011 a) Sidereal day: 17h14m24.0s Phase Angle: +2°40'53" Illuminated: 99.9%

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Uranus

Jupiter

Full-screen mode [F11]

Earth, Peterborough, 188m

FOV 70.9° 16.1 FPS 2024-03-01 19:01:25 UTC-05:00 5



•On March 1^{st,}, Uranus now sets at 11:47 p.m. or just before midnight.

Uranus

Type: planet

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Magnitude: 5.77 (extincted to: 9.27) Absolute Magnitude: 30.84 RA/Dec (J2000.0): 3h07m38.24s/+17°16'20.1" Aldebaran • RA/Dec (on date): 3h09m0.11s/+17°21'57.9" Hour angle/DE: 7h06m39.02s/+17°39'45.4" (apparent) Ecliptic longitude/latitude (J2000.0): +49°16'49.9"/-0°17'06.0" Ecliptic longitude/latitude (on date): +49°37'10.0"/-0°16'49.9" Ecliptic obliquity (on date): +23°26'10" Galactic longitude/latitude: +163°28'36.8"/-34°39'49.7" Mean Sidereal Time: 10h16m49.6s Apparent Sidereal Time: 10h16m49.3s Distance: 19.961AU (2986.159 Mio km) Apparent diameter: +0°00'03.5", with rings: +0°00'13.5" Sidereal period: 30685.00 days (84.011 a) Sidereal day: 17h14m24.0s Mean solar day: 17h14m22.5s Phase Angle: +2°40'40" Phase: 1.00 Illuminated: 99.9%



Uranus

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Full-screen mode [F11]

Earth, Peterborough, 188m

FOV 36.4° 59.6 FPS 2024-03-01 23:48:11 UTC-05:00



•On March 31st, Uranus is now only 25 degrees above the western horizon at sunset.

•Best seen around 8:52 p.m.

Uranus

Type: planet

Magnitude: 5.82 (extincted to: 6.16) Absolute Magnitude: 30.84 RA/Dec (on date): 3h13m44.73s/+17°41'22.0" Hour angle/DE: 5h04m49.73s/+17°42'59.1" (apparent) Ecliptic longitude/latitude (J2000.0): +50°27'19.4"/-0°16'31.1" Ecliptic longitude/latitude (on date): +50°47'44.2"/-0°16'14.7" Ecliptic obliquity (on date): +23°26'10" Distance: 20.365AU (3046.603 Mio km) Apparent diameter: +0°00'03.5", with rings: +0°00'13.2" Sidereal period: 30685.00 days (84.011 a) Sidereal day: 17h14m24.0s Phase Angle: +1°50'20" Illuminated: 100.0%



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Full-screen mode [F11]

Earth, Peterborough, 188m

FOV 36.4° 36.5 FPS 2024-03-31 20:52:26 UTC-04:00 5

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•On March 31st, Uranus set at 10:55 p.m. in the western sky.

Uranus

Type: planet

Magnitude: 5.82 (extincted to: 9.33) Absolute Magnitude: 30.84 RA/Dec (on date): 3h13m45.74s/+17°41'26.0" Az/ Aella 294°34'22.0"/+0°55'24.0" (apparent) Ecliptic longitude/latitude (J2000.0): +50°27'34.2"/-0°16'31.1" Ecliptic longitude/latitude (on date): +50°47'59.1"/-0°16'14.6" Ecliptic obliquity (on date): +23°26'10" Galactic longitude/latitude: +164°19'09.9"/-33°42'46.1" Apparent Sidereal Time: 10h23m8.1s Distance: 20.366AU (3046.744 Mio km) Apparent diameter: +0°00'03.5", with rings: +0°00'13.2" Sidereal period: 30685.00 days (84.011 a) Sidereal day: 17h14m24.0s Mean solar day: 17h14m22.5s Phase Angle: +1°50'08" Elongation: +38°55'13" . Phase: 1.00

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Umanus

Date and Time Julian Day	
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Aldebaran

NEPTUNE



•On March 1st, Neptune is just 3 degrees above the Western horizon at sunset.

•Unless you have a Zero horizon the planet is difficult to observe.

Neptune

Type: planet

Magnitude: **7.96** (extincted to: **10.65**) Absolute Magnitude: 32.08 RA/Dec (J2000.0): 23h48m53.74s/ $^{-2}\circ^{31}'42.0$ " RA/Dec (on date): 23h50m8.43s/ $^{-2}\circ^{23}'36.8$ " Hour angle/DE: 5h41m36.93s/ $^{-2}\circ^{10}'16.1$ " (apparent) Az/Alt: $+265\circ^{14}'04.1$ "/ $+1\circ^{46}'04.2$ " (apparent) Ecliptic longitude/latitude (J2000.0): $+356\circ^{2}6'52.8$ "/ $-1\circ^{12}'58.6'$ Ecliptic longitude/latitude (on date): $+356\circ^{47}'13.3$ "/ $-1\circ^{12}'58.6'$ Ecliptic longitude/latitude (on date): $+356\circ^{47}'13.3$ "/ $-1\circ^{12}'58.8'$ Ecliptic longitude/latitude: $+88\circ^{56}'51.1$ "/ $-61\circ^{12}'12.2$ " Mean Sidereal Time: 5h32m40.1s Apparent Sidereal Time: 5h32m39.8s Distance: 30.859AU (4616.392 Mio km) Apparent diameter: $+0\circ0'02.2$ ", with rings: $+0\circ00'05.6$ " Sidereal period: 60189.00 days (164.789 a) Sidereal day: 16h6m36.0s Mean solar day: 16h6m36.6s Phase Angle: $+0\circ^{2}9'22$ " Elongation: $+14\circ^{5}5'59$ " Phase: 1.00 Illuminated: 100.0%

💊 Neptune

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- Date and Time
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Date and Time in Gregorian calendar

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Neptune

•On March 1st, Neptune now sets at 7:15 p.m. in the western sky.

•By March 8th, Neptune disappears below the western horizon at sunset.

Neptune

Type: planet

Magnitude: **7.96** (extincted to: **12.64**) Absolute Magnitude: **32.08** RA/Dec (J2000.0): 23h48m53.80s/-2°31'41.6" RA/Dec (on date): 23h50m8.49s/-2°23'36.4" Hour angle/DE: 5h51m16.49s/-2°01'11.1" (apparent) Az/Alt: +267°01'52.7"/+0°08'58.1" (apparent) Ecliptic longitude/latitude (J2000.0): +356°26'53.7"/-1°12'58.6" Ecliptic longitude/latitude (on date): +356°26'53.7"/-1°12'58.8" Ecliptic longitude/latitude (on date): +356°26'53.7"/-1°12'58.8" Ecliptic longitude/latitude : +88°56'53.1"/-61°12'12.3" Mean Sidereal Time: 5h42m57.1s Apparent Sidereal Time: 5h42m56.8s Distance: 30.859AU (4616.397 Mio km) Apparent diameter: +0°00'02.2", with rings: +0°00'05.6" Sidereal period: 60189.00 days (164.789 a) Sidereal day: 16h6m36.0s Mean solar day: 16h6m36.6s Phase Angle: +0°29'21" Elongation: +14°55'34" Phase: 1.00 Illuminated: 100.0%



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Neptune

DEEP SKY

CASSIOPEIA

IC 59 and IC 63 - Reflection and Emission Nebulae



IC 59 AND IC 63 GHOST OF CASSIOPEIA

- IC 59 GHOST OF CASSIOPEIA REFLECTION NEBULA
- •Object: IC 59 Type Reflection & Emission Nebula Class: Nebula
- •Reflection Nebula reflects blue starlight without absorbing it.
- •Constellation: Cassiopeia
- •Star: Gamma Cassiopeia Size: 17 solar mass, 10 solar diameters
- Distance: 550 light years from Earth.
- •Diameter: 2 light years across in height Half a light year width
- •Magnitude: +10
- •Size: 10 x 5 arc minutes across
- •Photo by Ken Crawford taken with a 20" RC telescope in CA
- •IC 59 on left side of photo with green circle.



IC 63 – GHOST OF CASSIOPEIA – NEBULA

- •Object: IC 63 Type Emission Nebula Class: Nebula
- Emission Nebula Hydrogen gas absorbs and then emits starlight.
- Constellation: Cassiopeia
- •Star: Gamma Cassiopeia Size: 17 solar mass, 10 solar diameters
- •Distance: 550 light years from Earth. Temperature 25,000 K
- Diameter: 2 light years across in height Half a light year width
 Magnitude: +10
- •Size: 10 x 5 arc minutes across
- Distance IC 63 600 light years from Earth
- •Photo by Astronomy Picture of the day. IC 63 on lower right side.



That is the Sky this Month

By David Mills