Sky this Month

February 2024

By David Mills

MOON

FULL MOON

Moon

- The full Moon is on February 24th, at 7:30 a.m. looking east.
- The Moon rises at 6:10 p.m.
- This month's Full Moon is called the Snow Moon.

Moon

Type: **moon**
Magnitude: **-12.15** (extincted to: **-7.40**)
Absolute Magnitude: 32.25
RA/Dec (J2000.0): 10h54m30.39s/+9°50'11.5"
RA/Dec (on date): 10h55m46.56s/+9°42'27.8"
Hour angle/DE: 17h20m38.13s/+10°05'31.9" (apparent)
Az/Alt: +75°56'24.2"/+0°06'43.1" (apparent)
Ecliptic longitude/latitude (J2000.0): +161°08'50.9"/+2°39'04.7"
Ecliptic longitude/latitude (on date): +161°29'10.4"/+2°39'10.3"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: -120°33'27.5"/+57°28'17.0"
Mean Sidereal Time: 4h14m51.9s
Apparent Sidereal Time: 4h14m51.6s
Distance: 0.002715AU (406167.509 km)
Apparent diameter: +0°29'24.6"
Sidereal period: 27.32 days (0.075 a)
Sidereal day: 655h43m11.5s
Mean solar day: 708h44m2.8s
Phase Angle: +6°13'16"
Elongation: +173°45'43"
Phase: 1.00
Illuminated: 99.7%

Date and Time

Date and Time | Julian Day

2024 / 2 / 24 18 : 10 : 48

Full-screen mode [F11]

Earth, Peterborough, 188m FOV 11.3° 59.4 FPS 2024-02-24 18:10:48 UTC-05:00

NEW MOON

Moon

- The New Moon is on February 9th, at 5:59 p.m.
- Moon is southeast of the sun.
- Saturn is northeast of the sun.
- Mercury, Mars and Venus are all lined up southwest of the sun.


Moon
Type: moon
Magnitude: -1.91
Absolute Magnitude: 42.76
RA/Dec (J2000.0): 21h33m39.66s/-19°25'15.8"
RA/Dec (on date): 21h35m0.94s/-19°18'50.9"
Hour angle/DE: 5h30m11.29s/-19°18'50.9"
Az/Alt: +250°59'59.2"/-8°14'38.7"
Ecliptic longitude/latitude (J2000.0): +319°26'51.9"/-4°40'25.0"
Ecliptic longitude/latitude (on date): +319°47'09.5"/-4°40'37.3"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +31°37'37.2"/-44°12'53.7"
Mean Sidereal Time: 3h5m12.5s
Apparent Sidereal Time: 3h5m12.2s
Distance: 0.002404AU (359603.051 km)
Apparent diameter: +0°33'13.1"
Sidereal period: 27.32 days (0.075 a)
Sidereal day: 655h43m11.5s
Mean solar day: 708h44m2.8s
Phase Angle: +175°13'40"
Elongation: +4°45'38"
Phase: 0.00
Illuminated: 0.2%
Saturn
Fomalhaut
W
Sun
Moon
Mercury
Mars
Venus
Date and Time
Date and Time
Julian Day
2024 / 2 / 9
18 : 0 : 19
Full-screen mode [F11]
Earth, Peterborough, 188m
FOV 50.8°
57.8 FPS
2024-02-09 18:00:19 UTC-05:00

MERCURY

Mercury

- Not visible this month

VENUS

Venus

- On February 7th, Venus rises at 6:00 a.m. in the Eastern sky.

- Venus is now in retrograde or eastward motion. The planet rises 30 minutes before morning twilight.

Venus

Type: **planet**
Magnitude: **-3.96** (extincted to: **-0.62**)
Absolute Magnitude: 26.89
RA/Dec (J2000.0): 19h19m3.17s/-21°52'27.9"
RA/Dec (on date): 19h20m29.80s/-21°49'50.6"
Hour angle/DE: 19h37m39.30s/-21°32'08.2" (apparent)
Az/Alt: +122°05'42.9"/+1°04'35.1" (apparent)
Ecliptic longitude/latitude (J2000.0): +288°17'16.8"/+0°19'08.1"
Ecliptic longitude/latitude (on date): +288°37'33.0"/+0°18'49.5"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +15°59'07.4"/-15°36'52.0"
Mean Sidereal Time: 14h57m3.7s
Apparent Sidereal Time: 14h57m3.5s
Distance: 1.396AU (208.884 Mio km)
Apparent diameter: +0°00'12.0"
Sidereal period: 224.70 days (0.615 a)
Sidereal day: 5832h28m47.1s
Mean solar day: 2802h0m52.2s
Phase Angle: +42°05'32"
Elongation: +29°32'10"
Phase: 0.87
Illuminated: 87.1%

Venus

Date and Time

Date and Time | Julian Day

2024 / 2 / 7 6 : 2 : 1

Full-screen mode [F11]

Earth, Peterborough, 188m FOV 30.8° 59.5 FPS 2024-02-07 06:02:01 UTC-05:00

Venus

- On February 7th, Venus rises in a triangle with Mars and a very old moon.

- All 3 celestial objects are visible at 6:30 a.m.

Date and Time

Date and Time | Julian Day

2024 / 2 / 7 — 6 : 36 : 50

Full-screen mode [F11]

Earth, Peterborough, 188m FOV 22.1° 49 FPS 2024-02-07 06:36:50 UTC-05:00

Venus

- On February 22nd, Venus and Mars rise together in a close conjunction.

- Both planets are visible in eastern twilight sky at 6:10 a.m.

Venus

Type: **planet**
Magnitude: -**3.93** (extincted to: -**1.67**)
Absolute Magnitude: 26.80
RA/Dec (J2000.0): 20h37m23.24s/-18°56'17.8"
RA/Dec (on date): 20h38m46.40s/-18°51'15.9"
Hour angle/DE: 19h32m14.28s/-18°39'09.1" (apparent)
Az/Alt: +119°14'37.4"/+2°25'13.1" (apparent)
Ecliptic longitude/latitude (J2000.0): +306°50'56.1"/-0°23'24.7"
Ecliptic longitude/latitude (on date): +307°11'14.3"/-0°23'40.3"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +26°25'47.9"/-31°33'47.2"
Mean Sidereal Time: 16h10m16.0s
Apparent Sidereal Time: 16h10m15.8s
Distance: 1.470AU (219.866 Mio km)
Apparent diameter: +0°00'11.4"
Sidereal period: 224.70 days (0.615 a)
Sidereal day: 5832h28m47.1s
Mean solar day: 2802h0m52.2s
Phase Angle: +36°50'06"
Elongation: +26°08'38"
Phase: 0.90
Illuminated: 90.0%

Full-screen mode [F11]

Earth, Peterborough, 188m FOV 11.3° 59.7 FPS 2024-02-22 06:16:03 UTC-05:00

Venus

- On February 29th, Venus rises at 5:59 a.m. in the eastern morning twilight sky shortly before sunrise.

Venus

Type: **planet**
Magnitude: **-3.92** (extincted to: **0.57**)
Absolute Magnitude: 26.77
RA/Dec (J2000.0): 21h12m40.70s/-16°50'31.1"
RA/Dec (on date): 21h14m1.92s/-16°44'34.1"
Hour angle/DE: 19h08m11.53s/-16°22'04.8" (apparent)
Az/Alt: +113°27'44.9"/+0°15'28.2" (apparent)
Ecliptic longitude/latitude (J2000.0): +315°29'48.7"/-0°40'57.7"
Ecliptic longitude/latitude (on date): +315°50'08.7"/-0°41'11.3"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +32°31'14.8"/-38°38'34.0"
Mean Sidereal Time: 16h20m45.5s
Apparent Sidereal Time: 16h20m45.2s
Distance: 1.501AU (224.608 Mio km)
Apparent diameter: +0°00'11.1"
Sidereal period: 224.70 days (0.615 a)
Sidereal day: 5832h28m47.1s
Mean solar day: 2802h0m52.2s
Phase Angle: +34°25'26"
Elongation: +24°31'39"
Phase: 0.91
Illuminated: 91.2%

Mars

Venus

Date and Time

Date and Time | Julian Day

2024 / 2 / 29 5 : 58 : 59

Full-screen mode [F11]

Earth, Peterborough, 188m FOV 9.59° 59.3 FPS 2024-02-29 05:58:59 UTC-05:00

MARS

Mars

- On February 8th, Mars is just above the eastern horizon at sunrise.

Mars

Type: **planet**
Magnitude: **1.31** (extincted to: **4.50**)
Absolute Magnitude: 31.08
RA/Dec (J2000.0): 19h52m45.85s/-21°49'45.4"
RA/Dec (on date): 19h54m11.70s/-21°46'02.7"
Hour angle/DE: 19h38m19.24s/-21°29'04.6" (apparent)
Az/Alt: +122°10'46.3"/+1°12'57.6" (apparent)
Ecliptic longitude/latitude (J2000.0): +296°00'50.9"/-0°53'59.6"
Ecliptic longitude/latitude (on date): +296°21'07.3"/-0°54'17.1"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +19°11'06.4"/-22°49'47.8"
Mean Sidereal Time: 15h31m28.5s
Apparent Sidereal Time: 15h31m28.2s
Distance: 2.292AU (342.820 Mio km)
Apparent diameter: +0°00'04.1"
Sidereal period: 686.97 days (1.881 a)
Sidereal day: 24h37m22.7s
Mean solar day: 24h39m35.2s
Phase Angle: +15°29'26"
Elongation: +22°51'36"
Phase: 0.98
Illuminated: 98.2%

Date and Time

Date and Time | Julian Day

2024 / 2 / 8 6 : 32 : 24

Full-screen mode [F11]

Earth, Peterborough, 188m FOV 8.12° 59.2 FPS 2024-02-08 06:32:24 UTC-05:00

Mars

- On February 22nd, Mars and Venus rise together in a close conjunction.

- Both planets are low in the eastern sky at sunrise.

Mars

Type: **planet**
Magnitude: **1.28** (extincted to: **2.65**)
Absolute Magnitude: 31.10
RA/Dec (J2000.0): 20h37m46.19s/-19°33'16.5"
RA/Dec (on date): 20h39m9.64s/-19°28'13.9"
Hour angle/DE: 19h51m34.99s/-19°20'30.3" (apparent)
Az/Alt: +123°11'01.0"/+4°51'17.3" (apparent)
Ecliptic longitude/latitude (J2000.0): +306°46'50.4"/-1°00'33.5"
Ecliptic longitude/latitude (on date): +307°07'08.7"/-1°00'49.1"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +25°47'21.2"/-31°51'52.4"
Mean Sidereal Time: 16h30m17.9s
Apparent Sidereal Time: 16h30m17.7s
Distance: 2.239AU (334.898 Mio km)
Apparent diameter: +0°00'04.2"
Sidereal period: 686.97 days (1.881 a)
Sidereal day: 24h37m22.7s
Mean solar day: 24h39m35.2s
Phase Angle: +17°55'51"
Elongation: +26°14'29"
Phase: 0.98
Illuminated: 97.6%

Date and Time

Date and Time | Julian Day

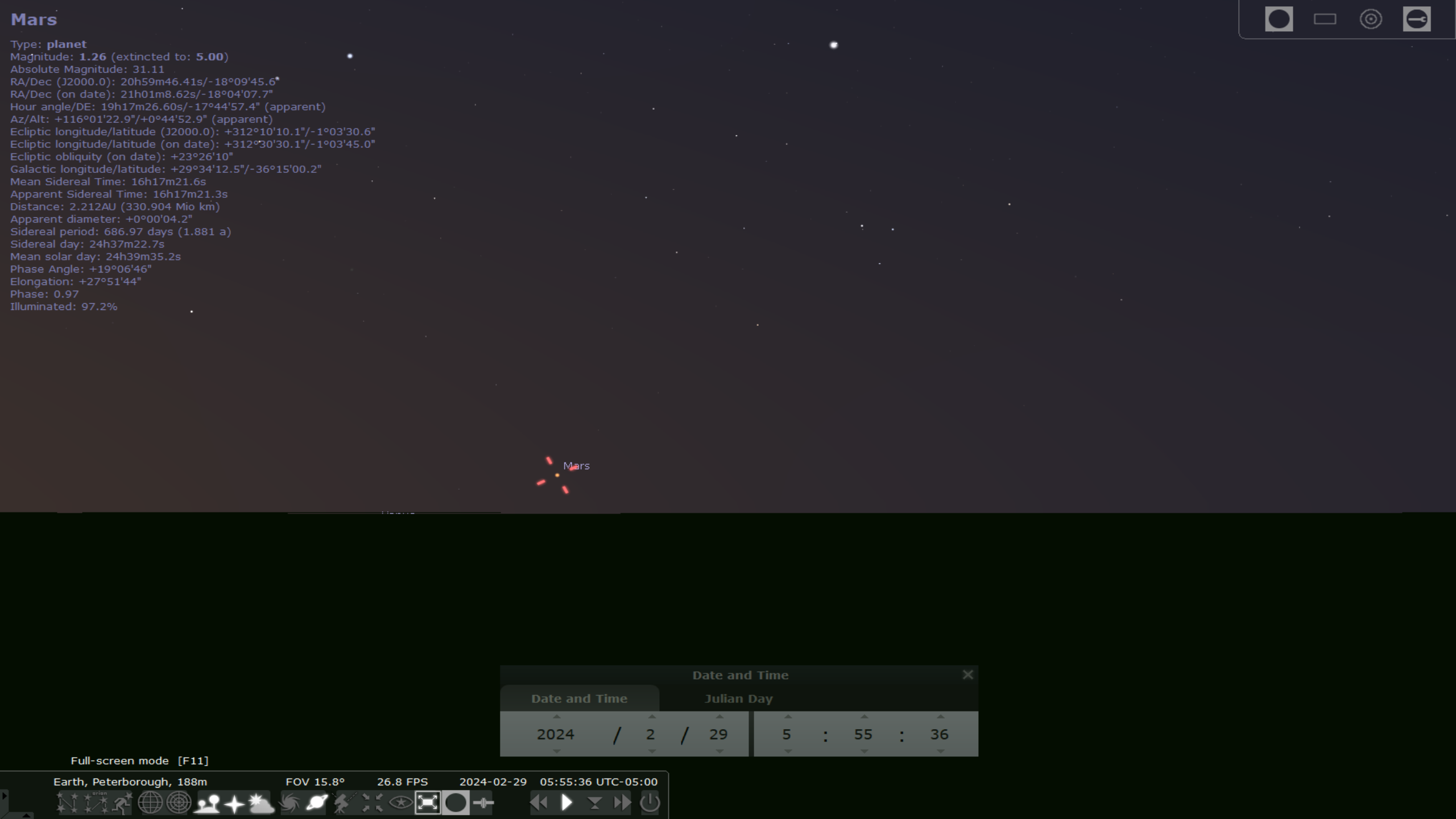
2024 / 2 / 22 6 : 36 : 1

Full-screen mode [F11]

Earth, Peterborough, 188m FOV 15.8° 26.7 FPS 2024-02-22 06:36:01 UTC-05:00

Mars

- On February 29th, Mars rises at 5:56 a.m. in the eastern morning sky an hour before sunrise.


Mars
Type: planet
Magnitude: 1.26 (extincted to: 5.00)
Absolute Magnitude: 31.11
RA/Dec (J2000.0): 20h59m46.41s/-18°09'45.6"
RA/Dec (on date): 21h01m8.62s/-18°04'07.7"
Hour angle/DE: 19h17m26.60s/-17°44'57.4" (apparent)
Az/Alt: +116°01'22.9"/+0°44'52.9" (apparent)
Ecliptic longitude/latitude (J2000.0): +312°10'10.1"/-1°03'30.6"
Ecliptic longitude/latitude (on date): +312°30'30.1"/-1°03'45.0"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +29°34'12.5"/-36°15'00.2"
Mean Sidereal Time: 16h17m21.6s
Apparent Sidereal Time: 16h17m21.3s
Distance: 2.212AU (330.904 Mio km)
Apparent diameter: +0°00'04.2"
Sidereal period: 686.97 days (1.881 a)
Sidereal day: 24h37m22.7s
Mean solar day: 24h39m35.2s
Phase Angle: +19°06'46"
Elongation: +27°51'44"
Phase: 0.97
Illuminated: 97.2%
Mars
Date and Time
Date and Time
Julian Day
2024 / 2 / 29
5 : 55 : 36
Full-screen mode [F11]
Earth, Peterborough, 188m
FOV 15.8°
26.8 FPS
2024-02-29 05:55:36 UTC-05:00

JUPITER

Jupiter

- On February 8th, Jupiter remains well places southern sky at sunset.


Jupiter
Type: planet
Magnitude: -2.32 (extincted to: -2.17)
Absolute Magnitude: 25.72
RA/Dec (J2000.0): 2h22m49.86s/+13°08'22.2"
RA/Dec (on date): 2h24m8.56s/+13°15'00.0"
Hour angle/DE: 1h09m12.71s/+13°15'38.1" (apparent)
Az/Alt: +210°50'23.0"/+55°37'03.3" (apparent)
Ecliptic longitude/latitude (J2000.0): +37°44'00.0"/-1°00'14.0"
Ecliptic longitude/latitude (on date): +38°04'16.5"/-1°00'01.0"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +154°39'43.3"/-44°01'46.3"
Mean Sidereal Time: 3h33m22.6s
Apparent Sidereal Time: 3h33m22.3s
Distance: 5.079AU (759.830 Mio km)
Apparent diameter: +0°00'38.8"
Sidereal period: 4331.87 days (11.860 a)
Sidereal day: 9h55m29.7s
Mean solar day: 9h55m33.1s
Phase Angle: +11°11'49"
Elongation: +79°23'05"
Phase: 0.99
Illuminated: 99.0%
Betelgeuse
Jupiter
Rigel
Sirius
Saturn
S
W
Date and Time
Date and Time
Julian Day
2024 / 2 / 7
18 : 36 : 16
Full-screen mode [F11]
Earth, Peterborough, 188m
FOV 98.9°
59.7 FPS
2024-02-07 18:36:16 UTC-05:00

Jupiter

- On February 14th, Jupiter and young crescent Moon share a close conjunction at sunset looking southwest.


Jupiter
Type: planet
Magnitude: -2.28 (extincted to: -2.11)
Absolute Magnitude: 25.72
RA/Dec (J2000.0): 2h26m21.19s/+13°27'41.2"
RA/Dec (on date): 2h27m40.17s/+13°34'15.2"
Hour angle/DE: 1h41m54.15s/+13°34'55.2" (apparent)
Az/Alt: +223°13'37.9"/+52°22'38.7" (apparent)
Ecliptic longitude/latitude (J2000.0): +38°38'54.3"/-0°58'27.5"
Ecliptic longitude/latitude (on date): +38°59'12.0"/-0°58'14.1"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +155°28'50.5"/-43°19'52.8"
Mean Sidereal Time: 4h9m36.2s
Apparent Sidereal Time: 4h9m35.9s
Distance: 5.189AU (776.252 Mio km)
Apparent diameter: +0°00'38.0"
Sidereal period: 4331.87 days (11.860 a)
Sidereal day: 9h55m29.7s
Mean solar day: 9h55m33.1s
Phase Angle: +10°54'48"
Elongation: +73°12'35"
Phase: 0.99
Illuminated: 99.1%
Rigel
Jupiter
Moon
S
W
Date and Time
Date and Time
Julian Day
2024 / 2 / 14
18 : 44 : 52
Full-screen mode [F11]
Earth, Peterborough, 188m
FOV 70.9°
59.8 FPS
2024-02-14 18:44:52 UTC-05:00

Jupiter

- On February 29th, Jupiter remains high in the western sky at sunset.

Jupiter

Type: **planet**
Magnitude: **-2.19** (extincted to: **-2.01**)
Absolute Magnitude: 25.72
RA/Dec (J2000.0): 2h35m24.10s/+14°15'00.0"
RA/Dec (on date): 2h36m43.77s/+14°21'23.5"
Hour angle/DE: 2h35m33.62s/+14°22'08.8" (apparent)
Az/Alt: +240°09'05.3"/+45°28'33.9" (apparent)
Ecliptic longitude/latitude (J2000.0): +40°58'53.7"/-0°55'00.9"
Ecliptic longitude/latitude (on date): +41°19'13.8"/-0°54'46.7"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +157°30'16.9"/-41°32'18.1"
Mean Sidereal Time: 5h12m20.3s
Apparent Sidereal Time: 5h12m20.0s
Distance: 5.411AU (809.500 Mio km)
Apparent diameter: +0°00'36.4"
Sidereal period: 4331.87 days (11.860 a)
Sidereal day: 9h55m29.7s
Mean solar day: 9h55m33.1s
Phase Angle: +9°55'52"
Elongation: +60°26'13"
Phase: 0.99
Illuminated: 99.3%

Date and Time

Date and Time | Julian Day

2024 / 2 / 29 18 : 48 : 28

Full-screen mode [F11]

Earth, Peterborough, 188m FOV 70.9° 16.5 FPS 2024-02-29 18:48:28 UTC-05:00

Jupiter

- On February 29th, Jupiter now set around 11:00 p.m. in western sky.


Jupiter
Type: planet
Magnitude: -2.19 (extincted to: 1.13)
Absolute Magnitude: 25.72
RA/Dec (J2000.0): 2h35m31.22s/+14°15'36.0"
RA/Dec (on date): 2h36m50.90s/+14°21'59.3"
Hour angle/DE: 6h52m35.22s/+14°38'39.7" (apparent)
Az/Alt: +289°33'13.8"/+1°05'35.8" (apparent)
Ecliptic longitude/latitude (J2000.0): +41°00'43.2"/-0°54'58.7"
Ecliptic longitude/latitude (on date): +41°21'03.3"/-0°54'44.5"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +157°31'49.7"/-41°30'53.5"
Mean Sidereal Time: 9h30m33.3s
Apparent Sidereal Time: 9h30m33.0s
Distance: 5.414AU (809.881 Mio km)
Apparent diameter: +0°00'36.4"
Sidereal period: 4331.87 days (11.860 a)
Sidereal day: 9h55m29.7s
Mean solar day: 9h55m33.1s
Phase Angle: +9°55'01"
Elongation: +60°17'13"
Phase: 0.99
Illuminated: 99.3%
Aldebaran
Uranus
Jupiter
W
Date and Time
Date and Time
Julian Day
2024 / 2 / 29
23 : 5 : 58
Full-screen mode [F11]
Earth, Peterborough, 188m
FOV 36.4°
15.5 FPS
2024-02-29 23:05:58 UTC-05:00

SATURN

Saturn

- On February 10th, Saturn and a day-old Moon share a close conjunction low in the western sky at sunset.

Saturn

Type: **planet**
Magnitude: **0.96** (extincted to: **2.64**)
Absolute Magnitude: 27.39
RA/Dec (J2000.0): 22h38m22.12s/-10°19'58.0"
RA/Dec (on date): 22h39m38.63s/-10°12'26.2"
Hour angle/DE: 4h58m13.03s/-10°03'41.9" (apparent)
Az/Alt: +252°00'36.5"/+3°45'52.5" (apparent)
Ecliptic longitude/latitude (J2000.0): +337°16'45.8"/-1°36'38.6"
Ecliptic longitude/latitude (on date): +337°37'02.8"/-1°36'45.4"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +54°41'42.0"/-54°28'28.1"
Mean Sidereal Time: 3h38m25.9s
Apparent Sidereal Time: 3h38m25.6s
Distance: 10.671AU (1596.379 Mio km)
Apparent diameter: +0°00'15.6", with rings: +0°00'36.3"
Sidereal period: 10760.00 days (29.459 a)
Sidereal day: 10h39m22.4s
Mean solar day: 10h39m24.0s
Phase Angle: +1°36'00"
Elongation: +15°58'29"
Phase: 1.00
Illuminated: 100.0%

Saturn

Moon

Date and Time

Date and Time | Julian Day

2024 / 2 / 10 18 : 29 : 31

Full-screen mode [F11]

Earth, Peterborough, 188m FOV 5.82° 44.6 FPS 2024-02-10 18:29:31 UTC-05:00

Saturn

- On February 17th, Saturn is just above the western horizon at sunset.

- The planet gets lost in solar glare at sunset as days get longer.

Saturn

Type: **planet**
Magnitude: **0.96** (extincted to: **5.43**)
Absolute Magnitude: 27.38
RA/Dec (J2000.0): 22h41m5.11s/-10°03'54.9"
RA/Dec (on date): 22h42m21.58s/-9°56'20.6"
Hour angle/DE: 5h20m34.66s/-9°34'31.4" (apparent)
Az/Alt: +256°17'39.7"/+0°15'52.3" (apparent)
Ecliptic longitude/latitude (J2000.0): +337°59'58.6"/-1°36'44.7"
Ecliptic longitude/latitude (on date): +338°20'16.8"/-1°36'51.2"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +55°42'54.9"/-54°53'14.3"
Mean Sidereal Time: 4h4m24.6s
Apparent Sidereal Time: 4h4m24.4s
Distance: 10.694AU (1599.745 Mio km)
Apparent diameter: +0°00'15.5", with rings: +0°00'36.2"
Sidereal period: 10760.00 days (29.459 a)
Sidereal day: 10h39m22.4s
Mean solar day: 10h39m24.0s
Phase Angle: +1°04'40"
Elongation: +10°40'07"
Phase: 1.00
Illuminated: 100.0%

Date and Time

Date and Time | Julian Day

2024 / 2 / 16 18 : 31 : 50

Full-screen mode [F11]

Earth, Peterborough, 188m FOV 11.3° 16.6 FPS 2024-02-16 18:31:50 UTC-05:00

URANUS

Uranus

- On February 1st, Uranus is near over head at sunset. The planet is just northeast of Jupiter.

- Visible most of the night.


Uranus
Betelgeuse
Type: planet
Magnitude: 5.72 (extincted to: 5.87)
Absolute Magnitude: 30.84
RA/Dec (J2000.0): 3h05m35.01s/+17°07'16.8"
RA/Dec (on date): 3h06m56.49s/+17°12'56.2"
Hour angle/DE: 23h55m3.07s/+17°13'27.0" (apparent)
Az/Alt: +177°24'17.3"/+62°54'14.3" (apparent)
Ecliptic longitude/latitude (J2000.0): +48°46'02.8"/-0°17'46.6"
Ecliptic longitude/latitude (on date): +49°06'18.8"/-0°17'31.0"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +163°06'40.0"/-35°04'48.3"
Mean Sidereal Time: 3h1m59.7s
Apparent Sidereal Time: 3h1m59.5s
Distance: 19.472AU (2913.000 Mio km)
Apparent diameter: +0°00'03.6", with rings: +0°00'13.8"
Sidereal period: 30685.00 days (84.011 a)
Sidereal day: 17h14m24.0s
Mean solar day: 17h14m22.5s
Phase Angle: +2°51'43"
Elongation: +96°30'28"
Phase: 1.00
Illuminated: 99.9%
Rigel
Jupiter
Saturn
S
Date and Time
Date and Time
Julian Day
2024 / 2 / 1
18 : 28 : 34
Full-screen mode [F11]
Earth, Peterborough, 188m
FOV 83.7°
46.7 FPS
2024-02-01 18:28:34 UTC-05:00

Uranus

- On February 29th, Uranus is well placed in the western sky at sunset.


Uranus
Type: planet
Magnitude: 5.77 (extincted to: 5.93)
Absolute Magnitude: 30.84
RA/Dec (J2000.0): 3h07m29.83s/+17°15'44.6"
RA/Dec (on date): 3h08m51.68s/+17°21'22.5"
Hour angle/DE: 2h06m4.76s/+17°21'59.3" (apparent)
Az/Alt: +234°35'55.3"/+52°15'20.9" (apparent)
Ecliptic longitude/latitude (J2000.0): +49°14'44.3"/-0°17'07.5"
Ecliptic longitude/latitude (on date): +49°35'04.2"/-0°16'51.4"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +163°27'06.5"/-34°41'30.9"
Mean Sidereal Time: 5h14m58.7s
Apparent Sidereal Time: 5h14m58.4s
Distance: 19.942AU (2983.293 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°41'56"
Elongation: +68°41'43"
Phase: 1.00
Illuminated: 99.9%
Jupiter
W
Date and Time
Date and Time
Julian Day
2024 / 2 / 29
18 : 51 : 6
Full-screen mode [F11]
Earth, Peterborough, 188m
FOV 83.7°
16.2 FPS
2024-02-29 18:51:06 UTC-05:00

Uranus

- On February 29th, Uranus now sets just before midnight in the western sky.


Uranus
Type: planet
Magnitude: 5.77 (extincted to: 8.68)
Absolute Magnitude: 30.84
RA/Dec (J2000.0): 3h07m31.24s/+17°15'50.5"
RA/Dec (on date): 3h08m53.10s/+17°21'28.4"
Hour angle/DE: 7h02m52.41s/+17°36'18.5" (apparent)
Az/Alt: +293°23'15.3"/+1°30'53.1" (apparent)
Ecliptic longitude/latitude (J2000.0): +49°15'05.4"/-0°17'07.3"
Ecliptic longitude/latitude (on date): +49°35'25.3"/-0°16'51.2"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +163°27'21.7"/-34°41'14.0"
Mean Sidereal Time: 10h12m44.9s
Apparent Sidereal Time: 10h12m44.6s
Distance: 19.945AU (2983.789 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°41'44"
Elongation: +68°29'34"
Phase: 1.00
Illuminated: 99.9%
Betelgeuse
Aldebaran
Rigel
Uranus
W
Date and Time
Date and Time
Julian Day
2024 / 2 / 29
23 : 48 : 3
Full-screen mode [F11]
Earth, Peterborough, 188m
FOV 50.8°
58.4 FPS
2024-02-29 23:48:03 UTC-05:00

NEPTUNE

Neptune

- On February 7th, Neptune is low in west at sunset only 18 degrees above the horizon.


Neptune
Type: planet
Magnitude: 7.94 (extincted to: 8.28)
Absolute Magnitude: 32.08
RA/Dec (J2000.0): 23h45m58.35s/-2°50'55.6"
RA/Dec (on date): 23h47m12.83s/-2°42'52.3"
Hour angle/DE: 3h37m19.73s/-2°41'01.4" (apparent)
Az/Alt: +241°31'02.7"/+22°35'27.4" (apparent)
Ecliptic longitude/latitude (J2000.0): +355°39'02.1"/-1°13'13.3"
Ecliptic longitude/latitude (on date): +355°59'18.8"/-1°13'13.7"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +87°18'24.4"/-61°06'29.0"
Mean Sidereal Time: 3h24m38.8s
Apparent Sidereal Time: 3h24m38.6s
Distance: 30.681AU (4589.828 Mio km)
Apparent diameter: +0°00'02.2", with rings: +0°00'05.7"
Sidereal period: 60189.00 days (164.789 a)
Sidereal day: 16h6m36.0s
Mean solar day: 16h6m36.6s
Phase Angle: +1°08'45"
Elongation: +37°19'25"
Phase: 1.00
Illuminated: 100.0%
Saturn
W
Date and Time
Date and Time
Julian Day
2024 / 2 / 7
18 : 27 : 34
Full-screen mode [F11]
Earth, Peterborough, 188m
FOV 36.4°
16.1 FPS
2024-02-07 18:27:34 UTC-05:00

Neptune

- On February 29th, Neptune is just above the western horizon at sunset.

- The planet is now difficult to observe.

Neptune

Type: **planet**
Magnitude: **7.96** (extincted to: **10.43**)
Absolute Magnitude: 32.08
RA/Dec (J2000.0): 23h48m45.64s/-2°32'34.8"
RA/Dec (on date): 23h50m0.32s/-2°24'29.7"
Hour angle/DE: 5h39m47.04s/-2°12'10.8" (apparent)
Az/Alt: +264°53'27.5"/+2°04'19.2" (apparent)
Ecliptic longitude/latitude (J2000.0): +356°24'40.4"/-1°12'58.8"
Ecliptic longitude/latitude (on date): +356°45'00.7"/-1°12'59.1"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +88°52'18.0"/-61°11'57.4"
Mean Sidereal Time: 5h30m37.8s
Apparent Sidereal Time: 5h30m37.5s
Distance: 30.854AU (4615.677 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°31'12"
Elongation: +15°53'43"
Phase: 1.00
Illuminated: 100.0%

Date and Time

Date and Time | Julian Day

2024 / 2 / 29 19 : 6 : 42

Full-screen mode [F11]

Earth, Peterborough, 188m FOV 18.7° 16.5 FPS 2024-02-29 19:06:42 UTC-05:00

That is the Sky this Month

By David Mills