Sky this Month

April 2025

By David Mills

MOON

NEW MOON

Moon

- The New Moon is on April 27th at 3:31 p.m.
- This month's New Moon is called the New Flower Moon
- The Moon is northwest of the sun. The planets Mercury, Venus and Saturn are located southwest of the sun.


Moon
Type: moon
Magnitude: -0.52
Absolute Magnitude: 44.19
RA/Dec (J2000.0): 2h13m53.81s/+16°40'59.0"
RA/Dec (on date): 2h15m17.17s/+16°48'06.6"
Hour angle/DE: 2h27m54.32s/+16°48'06.6"
Az/Alt: +240°23'18.9"/+48°31'26.2"
Ecliptic longitude/latitude (J2000.0): +36°51'17.4"/+3°03'03.6"
Ecliptic longitude/latitude (on date): +37°12'30.1"/+3°03'17.1"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +149°50'52.7"/-41°50'19.3"
Mean Sidereal Time: 4h43m11.5s
Apparent Sidereal Time: 4h43m11.5s
Distance: 0.002355AU (352340.906 km)
Apparent diameter: +0°33'54.2"
Sidereal period: 27.32 days (0.075 a)
Sidereal day: 655h43m11.5s
Mean solar day: 708h44m2.8s
Phase Angle: +176°53'04"
Elongation: +3°06'30"
Phase: 0.00
Illuminated: 0.1%
Alnilam
Rigel
Moon
Sun
Mercury
Venus
Saturn
S
Date and Time
Date and Time
Julian Day
2025 / 4 / 27
15 : 32 : 18
Earth, Peterborough, 188m
FOV 60°
23.8 FPS
2025-04-27 15:32:18 UTC-04:00

FULL MOON

Moon

- The full Moon is on April 12th, at 8:22 p.m.
- This month's Full Moon is called the Pink Moon.
- Moonrise on April 12th, is at 7:50 p.m. EDT

Moon

Type: **moon**
Magnitude: -**12.13** (extincted to: -**7.68**)
Absolute Magnitude: 32.27
RA/Dec (J2000.0): 13h23m24.31s/-11°37'00.2"
RA/Dec (on date): 13h24m44.43s/-11°44'56.5"
Hour angle/DE: 18h46m56.55s/-11°23'05.3" (apparent)
Az/Alt: +106°17'32.6"/+0°16'38.1" (apparent)
Ecliptic longitude/latitude (J2000.0): +203°36'12.7"/-2°38'24.2"
Ecliptic longitude/latitude (on date): +203°57'23.2"/-2°38'33.8"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: -44°42'32.6"/+50°29'10.8"
Mean Sidereal Time: 8h10m13.2s
Apparent Sidereal Time: 8h10m13.2s
Distance: 0.002714AU (405971.666 km)
Apparent diameter: +0°29'25.5"
Sidereal period: 27.32 days (0.075 a)
Sidereal day: 655h43m11.5s
Mean solar day: 708h44m2.8s
Phase Angle: +2°42'39"
Elongation: +177°16'54"
Phase: 1.00
Illuminated: 99.9%

Date and Time

Date and Time | Julian Day

2025 / 4 / 12 19 : 57 : 44

MERCURY

Mercury

- Mercury reappears in the morning sky at sunrise on April 4th.
- On April 12th, Mercury and Saturn rise together in a close conjunction. Both planets are low on the eastern horizon.
- The solar glare at sunrise makes viewing these planets difficult.

Mercury

Type: **planet**
Magnitude: **1.80** (extincted to: **6.11**)
Absolute Magnitude: 34.08
RA/Dec (J2000.0): 23h52m47.01s/-2°03'13.5"
RA/Dec (on date): 23h54m4.79s/-1°54'47.4"
Hour angle/DE: 18h08m6.68s/-1°33'58.2" (apparent)
Az/Alt: +92°32'13.4"/+0°21'24.3" (apparent)
Ecliptic longitude/latitude (J2000.0): +357°31'40.9"/-1°10'00.8"
Ecliptic longitude/latitude (on date): +357°52'52.5"/-1°10'00.6"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +91°11'26.6"/-61°15'26.2"
Mean Sidereal Time: 18h0m46.2s
Apparent Sidereal Time: 18h0m46.2s
Distance: 0.719AU (107.500 Mio km)
Apparent diameter: +0°00'09.4"
Sidereal period: 87.97 days (0.241 a)
Sidereal day: 1407h30m33.8s
Mean solar day: 4222h27m52.5s
Phase Angle: +114°19'30"
Elongation: +24°53'27"
Phase: 0.29
Illuminated: 29.4%

E

Date and Time

Date and Time | Julian Day

2025 / 4 / 12 5 : 50 : 37

Earth, Peterborough, 188m FOV 6.87° 22.8 FPS 2025-04-12 05:50:37 UTC-04:00

Mercury

- Mercury remains in the solar glare at sunrise all month as the days get longer.

- Mercury rises at 5:25 a.m. on April 30th. Mercury remains close to the sun and low on the eastern horizon at daybreak.

Mercury

Type: **planet**
Magnitude: **0.94** (extincted to: **4.96**)
Absolute Magnitude: 32.55
RA/Dec (J2000.0): 0h57m18.10s/+2°59'51.8"
RA/Dec (on date): 0h58m36.40s/+3°08'05.5"
Hour angle/DE: 17h49m33.39s/+3°27'33.4" (apparent)
Az/Alt: +85°42'07.1"/+0°33'00.1" (apparent)
Ecliptic longitude/latitude (J2000.0): +14°20'54.0"/-2°53'00.7"
Ecliptic longitude/latitude (on date): +14°42'08.7"/-2°52'54.5"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +125°50'47.9"/-59°50'27.0"
Mean Sidereal Time: -5h13m10.0s
Apparent Sidereal Time: -5h13m9.9s
Distance: 0.983AU (147.072 Mio km)
Apparent diameter: +0°00'06.8"
Sidereal period: 87.97 days (0.241 a)
Sidereal day: 1407h30m33.8s
Mean solar day: 4222h27m52.5s
Phase Angle: +80°10'45"
Elongation: +25°44'39"
Phase: 0.59
Illuminated: 58.5%

E

Date and Time

Date and Time | Julian Day

2025 / 4 / 30 5 : 25 : 47

Earth, Peterborough, 188m FOV 9.59° 21.9 FPS 2025-04-30 05:25:47 UTC-04:00

VENUS

Venus

- On April 1st, Venus rises at 5:49 a.m. in the eastern pre-dawn sky.

Venus

Type: **planet**
Magnitude: **-4.24** (extincted to: **-0.24**)
Absolute Magnitude: 29.99
RA/Dec (J2000.0): 23h37m34.06s/+5°21'40.1"
RA/Dec (on date): 23h38m51.32s/+5°30'02.8"
Hour angle/DE: 17h40m18.21s/+5°49'30.2" (apparent)
Az/Alt: +82°23'54.4"/+0°33'34.8" (apparent)
Ecliptic longitude/latitude (J2000.0): +356°59'24.0"/+7°08'51.3"
Ecliptic longitude/latitude (on date): +357°20'30.9"/+7°08'51.3"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +91°23'15.2"/-52°55'34.3"
Mean Sidereal Time: 17h17m50.0s
Apparent Sidereal Time: 17h17m50.0s
Distance: 0.294AU (44.048 Mio km)
Apparent diameter: +0°00'56.7"
Sidereal period: 224.70 days (0.615 a)
Sidereal day: 5832h28m47.1s
Mean solar day: 2802h0m52.2s
Phase Angle: +157°14'57"
Elongation: +16°12'29"
Phase: 0.04
Illuminated: 3.9%

Venus

E

Date and Time

Date and Time | Julian Day

2025 / 4 / 1 5 : 51 : 2

Earth, Peterborough, 188m FOV 11.3° 58.9 FPS 2025-04-01 05:51:02 UTC-04:00

Venus

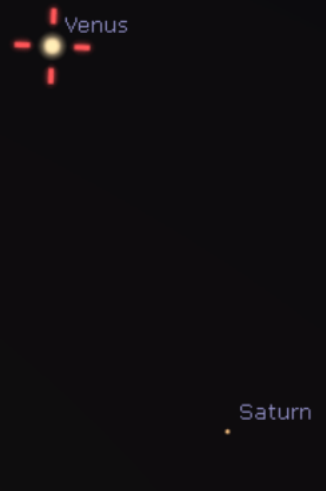
- On April 25th, Venus, Saturn and a very old Moon form a tight triangle in a triple conjunction.

- Both planets and the Moon have less than 5 degrees of separation between them.

- All 3 objects rise together at just before sunrise.

Venus

Type: **planet**
Magnitude: **-4.54** (extincted to: **-3.35**)
Absolute Magnitude: 28.93
RA/Dec (J2000.0): 23h45m49.11s/+0°43'28.2"
RA/Dec (on date): 23h47m6.92s/+0°51'54.1"
Hour angle/DE: 18h28m38.37s/+0°57'58.8" (apparent)
Az/Alt: +94°19'17.2"/+5°47'41.8" (apparent)
Ecliptic longitude/latitude (J2000.0): +357°02'03.9"/+2°04'27.9"
Ecliptic longitude/latitude (on date): +357°23'16.3"/+2°04'27.9"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +90°44'35.4"/-57°59'11.2"
Mean Sidereal Time: 18h15m20.5s
Apparent Sidereal Time: 18h15m20.5s
Distance: 0.418AU (62.522 Mio km)
Apparent diameter: +0°00'39.9"
Sidereal period: 224.70 days (0.615 a)
Sidereal day: 5832h28m47.1s
Mean solar day: 2802h0m52.2s
Phase Angle: +121°04'24"
Elongation: +38°05'02"
Phase: 0.24
Illuminated: 24.2%



E

Date and Time

Date and Time | Julian Day

2025 / 4 / 25 5 : 14 : 2

Earth, Peterborough, 188m FOV 13.4° 53 FPS 2025-04-25 05:14:02 UTC-04:00

Venus

- On April 30th, Venus rises at 4:31 a.m. in the eastern pre-dawn sky.

Venus

Type: **planet**
Magnitude: **-4.52** (extincted to: **-0.08**)
Absolute Magnitude: 28.77
RA/Dec (J2000.0): 23h56m4.46s/+0°52'44.3"
RA/Dec (on date): 23h57m22.32s/+1°01'11.7"
Hour angle/DE: 17h56m12.24s/+1°22'34.1" (apparent)
Az/Alt: +88°21'08.5"/+0°16'55.4" (apparent)
Ecliptic longitude/latitude (J2000.0): +359°26'57.1"/+1°11'48.5"
Ecliptic longitude/latitude (on date): +359°48'10.4"/+1°11'49.4"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +95°16'12.2"/-58°59'12.9"
Mean Sidereal Time: 17h52m7.0s
Apparent Sidereal Time: 17h52m7.0s
Distance: 0.453AU (67.725 Mio km)
Apparent diameter: +0°00'36.9"
Sidereal period: 224.70 days (0.615 a)
Sidereal day: 5832h28m47.1s
Mean solar day: 2802h0m52.2s
Phase Angle: +115°37'31"
Elongation: +40°28'14"
Phase: 0.28
Illuminated: 28.4%

Date and Time

Date and Time | Julian Day

2025 / 4 / 30 4 : 31 : 12

MARS

Mars

- On April 4th, Mars is high in the southwestern sky at sunset.


Mars
Type: planet
Magnitude: 0.52 (extincted to: 0.66)
Absolute Magnitude: 31.74
RA/Dec (J2000.0): 7h48m7.65s/+23°43'10.1"
RA/Dec (on date): 7h49m38.57s/+23°39'27.1"
Hour angle/DE: 0h30m44.00s/+23°39'50.1" (apparent)
Az/Alt: +199°27'14.0"/+68°25'38.4" (apparent)
Ecliptic longitude/latitude (J2000.0): +114°36'51.9"/+2°33'38.0"
Ecliptic longitude/latitude (on date): +114°58'02.0"/+2°33'56.9"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: -163°08'35.8"/+22°30'53.0"
Mean Sidereal Time: 8h20m23.0s
Apparent Sidereal Time: 8h20m23.0s
Distance: 1.177AU (176.076 Mio km)
Apparent diameter: +0°00'08.0"
Sidereal period: 686.97 days (1.881 a)
Sidereal day: 24h37m22.7s
Mean solar day: 24h39m35.2s
Phase Angle: +36°20'06"
Elongation: +99°28'06"
Phase: 0.90
Illuminated: 90.3%
Mars
Moon
Capella
Procyon
Jupiter
Betelgeuse
Sirius
Rigel
S
W
Date and Time
Date and Time
Julian Day
2025 / 4 / 4
20 : 39 : 20
Earth, Peterborough, 188m
FOV 138°
25.7 FPS
2025-04-04 20:39:20 UTC-04:00

Mars

- On April 4th, Mars sets at 3:52 AM in the western sky.

Mars

Type: **planet**
Magnitude: **0.51** (extincted to: **4.69**)
Absolute Magnitude: 31.74
RA/Dec (J2000.0): 7h47m5.39s/+23°46'45.7"
RA/Dec (on date): 7h48m36.38s/+23°43'04.7"
Hour angle/DE: 7h40m28.64s/+24°05'08.5" (apparent)
Az/Alt: +304°14'48.9"/+0°26'20.6" (apparent)
Ecliptic longitude/latitude (J2000.0): +114°22'11.3"/+2°34'36.0"
Ecliptic longitude/latitude (on date): +114°43'21.4"/+2°34'54.9"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: -163°17'44.0"/+22°18'51.7"
Mean Sidereal Time: 15h30m26.9s
Apparent Sidereal Time: 15h30m26.9s
Distance: 1.170AU (175.091 Mio km)
Apparent diameter: +0°00'08.0"
Sidereal period: 686.97 days (1.881 a)
Sidereal day: 24h37m22.7s
Mean solar day: 24h39m35.2s
Phase Angle: +36°16'27"
Elongation: +99°54'35"
Phase: 0.90
Illuminated: 90.3%

Mars

Date and Time

Date and Time | Julian Day

2025 / 4 / 4 3 : 52 : 9

Earth, Peterborough, 188m FOV 22.1° 59 FPS 2025-04-04 03:52:09 UTC-04:00

Mars

- On April 30th, Mars is well placed in the western sky at sunset.

- Mars is now at a stationary point in the sky from Earth's line of sight viewpoint.

Mars

Type: **planet**
Magnitude: **0.94** (extincted to: **1.10**)
Absolute Magnitude: 31.75
RA/Dec (J2000.0): 8h32m34.02s/+20°52'56.9"
RA/Dec (on date): 8h34m2.15s/+20°47'49.2"
Hour angle/DE: 2h06m47.51s/+20°48'21.3" (apparent)
Az/Alt: +238°28'36.4"/+54°48'56.4" (apparent)
Ecliptic longitude/latitude (J2000.0): +125°16'01.6"/+1°59'27.5"
Ecliptic longitude/latitude (on date): +125°37'15.8"/+1°59'44.0"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: -156°09'58.2"/+31°10'32.3"
Mean Sidereal Time: 10h40m51.6s
Apparent Sidereal Time: 10h40m51.6s
Distance: 1.422AU (212.754 Mio km)
Apparent diameter: +0°00'06.6"
Sidereal period: 686.97 days (1.881 a)
Sidereal day: 24h37m22.7s
Mean solar day: 24h39m35.2s
Phase Angle: +37°02'57"
Elongation: +84°41'22"
Phase: 0.90
Illuminated: 89.9%

Date and Time

Date and Time | Julian Day

2025 / 4 / 30 21 : 17 : 12

Earth, Peterborough, 188m | FOV 98.9° | 26.9 FPS | 2025-04-30 21:17:12 UTC-04:00

Mars

- On April 30th, Mars sets at 2:39 a.m. in the western sky.

Mars

Type: **planet**
Magnitude: **0.93** (extincted to: **5.03**)
Absolute Magnitude: 31.75
RA/Dec (J2000.0): 8h31m6.41s/+20°59'01.0"
RA/Dec (on date): 8h32m34.64s/+20°53'55.9"
Hour angle/DE: 7h26m1.09s/+21°15'07.2" (apparent)
Az/Alt: +299°52'15.1"/+0°29'42.7" (apparent)
Ecliptic longitude/latitude (J2000.0): +124°54'41.5"/+2°00'20.1"
Ecliptic longitude/latitude (on date): +125°15'55.7"/+2°00'36.6"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: -156°24'44.4"/+30°53'21.5"
Mean Sidereal Time: 15h59m56.6s
Apparent Sidereal Time: 15h59m56.6s
Distance: 1.415AU (211.683 Mio km)
Apparent diameter: +0°00'06.6"
Sidereal period: 686.97 days (1.881 a)
Sidereal day: 24h37m22.7s
Mean solar day: 24h39m35.2s
Phase Angle: +37°03'55"
Elongation: +85°05'09"
Phase: 0.90
Illuminated: 89.9%

Date and Time

Date and Time | Julian Day

2025 / 4 / 30 2 : 39 : 20

JUPITER

Jupiter

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

Jupiter

Type: **planet**
Magnitude: **-2.11** (extincted to: **-1.94**)
Absolute Magnitude: 25.77
RA/Dec (J2000.0): 4h58m24.94s/+22°22'29.8"
RA/Dec (on date): 4h59m55.91s/+22°24'51.7"
Hour angle/DE: 2h52m26.00s/+22°25'27.5" (apparent)
Az/Alt: +252°34'13.3"/+48°32'21.6" (apparent)
Ecliptic longitude/latitude (J2000.0): +75°47'17.7"/-0°18'28.7"
Ecliptic longitude/latitude (on date): +76°08'27.4"/-0°18'07.7"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +179°28'02.2"/-12°28'32.2"
Mean Sidereal Time: 7h52m24.7s
Apparent Sidereal Time: 7h52m24.7s
Distance: 5.478AU (819.555 Mio km)
Apparent diameter: +0°00'36.0"
Sidereal period: 4331.87 days (11.860 a)
Sidereal day: 9h55m29.7s
Mean solar day: 9h55m33.1s
Phase Angle: +10°05'08"
Elongation: +63°37'13"
Phase: 0.99
Illuminated: 99.2%

Jupiter
Moon
Sirius
Rigel
S
W

Date and Time

Date and Time | Julian Day

2025 / 4 / 1 20 : 23 : 14

Earth, Peterborough, 188m FOV 117° 15.7 FPS 2025-04-01 20:23:14 UTC-04:00

Jupiter

- On April 1st, Jupiter sets at 1:00 a.m. in the western sky.

Date and Time

Date and Time | Julian Day

2025 / 4 / 1 1 : 0 : 23

Earth, Peterborough, 188m FOV 50.8° 33.9 FPS 2025-04-01 01:00:23 UTC-04:00

Jupiter

- On April 30th, Jupiter remains well placed on the western horizon at sunset.

Jupiter

Type: **planet**
Magnitude: **-1.98** (extincted to: **-1.65**)
Absolute Magnitude: 25.76
RA/Dec (J2000.0): 5h21m2.22s/+22°53'43.8"
RA/Dec (on date): 5h22m34.16s/+22°55'16.9"
Hour angle/DE: 5h19m23.42s/+22°56'47.7" (apparent)
Az/Alt: +280°21'25.3"/+22°51'32.3" (apparent)
Ecliptic longitude/latitude (J2000.0): +81°01'59.4"/-0°14'28.0"
Ecliptic longitude/latitude (on date): +81°23'13.1"/-0°14'07.2"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: -177°54'09.5"/-7°54'48.0"
Mean Sidereal Time: 10h42m5.4s
Apparent Sidereal Time: 10h42m5.4s
Distance: 5.848AU (874.883 Mio km)
Apparent diameter: +0°00'33.7"
Sidereal period: 4331.87 days (11.860 a)
Sidereal day: 9h55m29.7s
Mean solar day: 9h55m33.1s
Phase Angle: +7°19'49"
Elongation: +40°27'07"
Phase: 1.00
Illuminated: 99.6%

Date and Time

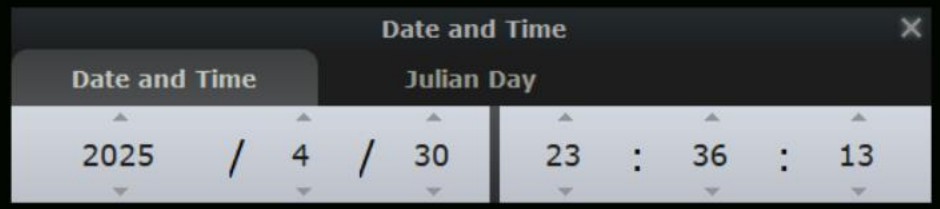
Date and Time | Julian Day

2025 / 4 / 30 21 : 18 : 25

Jupiter

- On April 30th, Jupiter sets at 11:36 p.m. in the northwestern sky.


Jupiter
Type: planet
Magnitude: -1.98 (extincted to: 2.17)
Absolute Magnitude: 25.76
RA/Dec (J2000.0): 5h21m7.21s/+22°53'48.9"
RA/Dec (on date): 5h22m39.15s/+22°55'21.8"
Hour angle/DE: 7h36m14.61s/+23°17'06.8" (apparent)
Az/Alt: +302°59'23.9"/+0°27'43.5" (apparent)
Ecliptic longitude/latitude (J2000.0): +81°03'08.6"/-0°14'27.5"
Ecliptic longitude/latitude (on date): +81°24'22.3"/-0°14'06.7"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: -177°53'34.9"/-7°53'47.9"
Mean Sidereal Time: 13h0m15.2s
Apparent Sidereal Time: 13h0m15.2s
Distance: 5.849AU (875.038 Mio km)
Apparent diameter: +0°00'33.7"
Sidereal period: 4331.87 days (11.860 a)
Sidereal day: 9h55m29.7s
Mean solar day: 9h55m33.1s
Phase Angle: +7°19'09"
Elongation: +40°22'39"
Phase: 1.00
Illuminated: 99.6%
Capella
Moon
Jupiter
W


Date and Time
Date and Time
Julian Day
2025 / 4 / 30
23 : 36 : 13

SATURN

Saturn

- Saturn reappears in the morning sky at sunrise on April 2nd.

- The planet remains lost in the solar glare until April 10th.

Saturn

Type: **planet**
Magnitude: **1.21** (extincted to: **5.90**)
Absolute Magnitude: 27.68
RA/Dec (J2000.0): 23h44m23.50s/-3°48'40.3"
RA/Dec (on date): 23h45m41.34s/-3°40'15.9"
Hour angle/DE: 18h13m43.52s/-3°17'48.9" (apparent)
Az/Alt: +94°45'17.4"/+0°08'55.9" (apparent)
Ecliptic longitude/latitude (J2000.0): +354°54'21.7"/-1°56'49.1"
Ecliptic longitude/latitude (on date): +355°15'32.4"/-1°56'49.9"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +85°32'27.7"/-61°42'53.1"
Mean Sidereal Time: 17h57m52.9s
Apparent Sidereal Time: 17h57m53.0s
Distance: 10.517AU (1573.334 Mio km)
Apparent diameter: +0°00'15.8", with rings: +0°00'36.8"
Sidereal period: 10760.00 days (29.459 a)
Sidereal day: 10h39m22.4s
Mean solar day: 10h39m24.0s
Phase Angle: +2°18'11"
Elongation: +22°40'09"
Phase: 1.00
Illuminated: 100.0%

Mercury

Saturn

Date and Time

Date and Time | Julian Day

2025 / 4 / 7 6 : 7 : 23

Earth, Peterborough, 188m FOV 4.17° 28.8 FPS 2025-04-07 06:07:23 UTC-04:00

Saturn

- On April 12th, Saturn and Mercury rise together in eastern sky just before sunrise.

- With the days getting longer solar glare at sunrise remains constant.

Saturn

Type: **planet**
Magnitude: **1.21** (extincted to: **5.24**)
Absolute Magnitude: 27.68
RA/Dec (J2000.0): 23h46m32.03s/-3°35'25.1"
RA/Dec (on date): 23h47m49.92s/-3°26'59.9"
Hour angle/DE: 18h15m14.48s/-3°07'26.9" (apparent)
Az/Alt: +94°53'46.5"/+0°32'24.3" (apparent)
Ecliptic longitude/latitude (J2000.0): +355°29'04.4"/-1°57'23.5"
Ecliptic longitude/latitude (on date): +355°50'16.4"/-1°57'24.1"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +86°44'43.6"/-61°48'48.4"
Mean Sidereal Time: 18h1m44.4s
Apparent Sidereal Time: 18h1m44.4s
Distance: 10.482AU (1568.118 Mio km)
Apparent diameter: +0°00'15.9", with rings: +0°00'36.9"
Sidereal period: 10760.00 days (29.459 a)
Sidereal day: 10h39m22.4s
Mean solar day: 10h39m24.0s
Phase Angle: +2°42'54"
Elongation: +26°58'29"
Phase: 1.00
Illuminated: 99.9%

Date and Time

Date and Time | Julian Day

2025 / 4 / 12 5 : 51 : 35

Earth, Peterborough, 188m FOV 8.12° 29 FPS 2025-04-12 05:51:35 UTC-04:00

Saturn

- On April 25th, Saturn, Mercury and a very old Moon form a small triangle in a triple conjunction at 5:13 a.m. in the eastern pre-dawn sky.

- All 3 are best seen around 5:20 a.m. to 5:30 a.m. just before the glare of twilight washes them out.

Saturn

Type: **planet**
Magnitude: **1.20** (extincted to: **3.60**)
Absolute Magnitude: 27.70
RA/Dec (J2000.0): 23h51m51.04s/-3°02'52.8"
RA/Dec (on date): 23h53m8.97s/-2°54'26.0"
Hour angle/DE: 18h22m53.63s/-2°42'29.1" (apparent)
Az/Alt: +95°56'19.2"/+2°11'40.9" (apparent)
Ecliptic longitude/latitude (J2000.0): +356°55'07.0"/-1°59'11.3"
Ecliptic longitude/latitude (on date): +357°16'20.9"/-1°59'11.3"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +89°45'33.5"/-62°01'09.1"
Mean Sidereal Time: 18h15m14.0s
Apparent Sidereal Time: 18h15m14.0s
Distance: 10.366AU (1550.754 Mio km)
Apparent diameter: +0°00'16.0", with rings: +0°00'37.4"
Sidereal period: 10760.00 days (29.459 a)
Sidereal day: 10h39m22.4s
Mean solar day: 10h39m24.0s
Phase Angle: +3°43'01"
Elongation: +38°11'41"
Phase: 1.00
Illuminated: 99.9%

Date and Time

Date and Time | Julian Day

2025 / 4 / 25 5 : 13 : 55

Earth, Peterborough, 188m FOV 11.3° 55.7 FPS 2025-04-25 05:13:55 UTC-04:00

Saturn

- On April 30th, Saturn and Venus rise together at 4:44 a.m. in the eastern pre-dawn morning sky.

- They both best seen around 5:10 a.m. before sunrise.

Saturn

Type: **planet**
Magnitude: **1.20** (extincted to: **5.29**)
Absolute Magnitude: 27.70
RA/Dec (J2000.0): 23h53m46.34s/-2°51'16.4"
RA/Dec (on date): 23h55m4.29s/-2°42'49.2"
Hour angle/DE: 18h12m4.60s/-2°22'58.2" (apparent)
Az/Alt: +93°48'49.2"/+0°29'39.0" (apparent)
Ecliptic longitude/latitude (J2000.0): +357°26'09.8"/-1°59'59.5"
Ecliptic longitude/latitude (on date): +357°47'24.2"/-1°59'59.3"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +90°51'19.1"/-62°04'48.2"
Mean Sidereal Time: 18h5m47.6s
Apparent Sidereal Time: 18h5m47.6s
Distance: 10.312AU (1542.723 Mio km)
Apparent diameter: +0°00'16.1", with rings: +0°00'37.5"
Sidereal period: 10760.00 days (29.459 a)
Sidereal day: 10h39m22.4s
Mean solar day: 10h39m24.0s
Phase Angle: +4°04'08"
Elongation: +42°30'58"
Phase: 1.00
Illuminated: 99.9%

Venus

Saturn

E

Date and Time

Date and Time | Julian Day

2025 / 4 / 30 4 : 44 : 51

Earth, Peterborough, 188m | FOV 15.8° | 56.3 FPS | 2025-04-30 04:44:51 UTC-04:00

URANUS

Uranus

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

Uranus

Type: **planet**
Magnitude: **5.80** (extincted to: **6.10**)
Absolute Magnitude: 30.84
RA/Dec (J2000.0): 3h28m36.09s/+18°39'57.8"
RA/Dec (on date): 3h30m2.63s/+18°45'14.5"
Hour angle/DE: 4h49m42.45s/+18°46'36.6" (apparent)
Az/Alt: +271°56'58.3"/+25°25'44.4" (apparent)
Ecliptic longitude/latitude (J2000.0): +54°27'23.3"/-0°13'30.8"
Ecliptic longitude/latitude (on date): +54°48'33.0"/-0°13'12.8"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +167°01'40.6"/-30°26'22.5"
Mean Sidereal Time: 8h19m51.7s
Apparent Sidereal Time: 8h19m51.7s
Distance: 20.266AU (3031.732 Mio km)
Apparent diameter: +0°00'03.5", with rings: +0°00'13.3"
Sidereal period: 30685.00 days (84.011 a)
Sidereal day: 17h14m24.0s
Mean solar day: 17h14m22.5s
Phase Angle: +1°58'19"
Elongation: +42°16'11"
Phase: 1.00
Illuminated: 100.0%

W

Date and Time

Date and Time | Julian Day

2025 / 4 / 1 20 : 50 : 36

Earth, Peterborough, 188m FOV 36.4° 21.7 FPS 2025-04-01 20:50:36 UTC-04:00

Uranus

- On April 1st, Uranus sets at 11:18 p.m. in the western sky.

Uranus

Type: **planet**
Magnitude: **5.80** (extincted to: **10.09**)
Absolute Magnitude: 30.84
RA/Dec (J2000.0): 3h28m37.26s/+18°40'02.0"
RA/Dec (on date): 3h30m3.80s/+18°45'18.7"
Hour angle/DE: 7h16m44.45s/+19°07'09.1" (apparent)
Az/Alt: +296°49'32.7"/+0°22'28.2" (apparent)
Ecliptic longitude/latitude (J2000.0): +54°27'40.4"/-0°13'30.8"
Ecliptic longitude/latitude (on date): +54°48'50.1"/-0°13'12.8"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +167°01'52.0"/-30°26'08.4"
Mean Sidereal Time: 10h48m12.8s
Apparent Sidereal Time: 10h48m12.8s
Distance: 20.267AU (3031.911 Mio km)
Apparent diameter: +0°00'03.5", with rings: +0°00'13.3"
Sidereal period: 30685.00 days (84.011 a)
Sidereal day: 17h14m24.0s
Mean solar day: 17h14m22.5s
Phase Angle: +1°58'06"
Elongation: +42°10'21"
Phase: 1.00
Illuminated: 100.0%

Date and Time

Date and Time | Julian Day

2025 / 4 / 1 23 : 18 : 33

Earth, Peterborough, 188m FOV 9.59° 16 FPS 2025-04-01 23:18:33 UTC-04:00

Uranus

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

- The planet is less than 5 degrees above the horizon.

Uranus

Type: **planet**
Magnitude: **5.82** (extincted to: **8.11**)
Absolute Magnitude: 30.84
RA/Dec (J2000.0): 3h34m49.03s/+19°02'09.9"
RA/Dec (on date): 3h36m16.24s/+19°07'16.3"
Hour angle/DE: 7h05m9.44s/+19°19'04.9" (apparent)
Az/Alt: +294°57'37.5"/+2°23'03.9" (apparent)
Ecliptic longitude/latitude (J2000.0): +55°58'22.3"/-0°13'07.0"
Ecliptic longitude/latitude (on date): +56°19'36.1"/-0°12'49.1"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +168°01'09.7"/-29°11'26.6"
Mean Sidereal Time: 10h42m13.0s
Apparent Sidereal Time: 10h42m13.0s
Distance: 20.502AU (3067.115 Mio km)
Apparent diameter: +0°00'03.4", with rings: +0°00'13.1"
Sidereal period: 30685.00 days (84.01 a)
Sidereal day: 17h14m24.0s
Mean solar day: 17h14m22.5s
Phase Angle: +0°47'04"
Elongation: +15°23'33"
Phase: 1.00
Illuminated: 100.0%

Date and Time

Date and Time | Julian Day

2025 / 4 / 30 21 : 18 : 33

Earth, Peterborough, 188m FOV 4.93° 15.8 FPS 2025-04-30 21:18:33 UTC-04:00

Uranus

- On April 30th, Uranus sets at 9:34 p.m. in the western sky.

Uranus

Type: **planet**
Magnitude: **5.82** (extincted to: **10.60**)
Absolute Magnitude: 30.84
RA/Dec (J2000.0): 3h34m49.18s/+19°02'10.4"
RA/Dec (on date): 3h36m16.40s/+19°07'16.9"
Hour angle/DE: 7h20m19.80s/+19°31'27.5" (apparent)
Az/Alt: +297°43'27.4"/+0°06'10.7" (apparent)
Ecliptic longitude/latitude (J2000.0): +55°58'24.6"/-0°13'07.0"
Ecliptic longitude/latitude (on date): +56°19'38.4"/-0°12'49.1"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +168°01'11.1"/-29°11'24.7"
Mean Sidereal Time: 10h58m9.0s
Apparent Sidereal Time: 10h58m9.0s
Distance: 20.502AU (3067.123 Mio km)
Apparent diameter: +0°00'03.4", with rings: +0°00'13.1"
Sidereal period: 30685.00 days (84.011 a)
Sidereal day: 17h14m24.0s
Mean solar day: 17h14m22.5s
Phase Angle: +0°47'02"
Elongation: +15°22'56"
Phase: 1.00
Illuminated: 100.0%

Date and Time

Date and Time | Julian Day

2025 / 4 / 30 21 : 34 : 26

NEPTUNE

Neptune

- On April 1st, Neptune reappears in the morning sky at sunrise.

- The planet is not visible until near month end.

Neptune

Type: **planet**
Magnitude: **7.94** (extincted to: **12.53**)
Absolute Magnitude: 32.08
RA/Dec (J2000.0): 0h04m7.17s/-0°56'32.8"
RA/Dec (on date): 0h05m25.01s/-0°48'05.4"
Hour angle/DE: 18h02m50.27s/-0°26'06.7" (apparent)
Az/Alt: +90°48'25.0"/+0°12'13.5" (apparent)
Ecliptic longitude/latitude (J2000.0): +0°34'11.9"/-1°16'27.5"
Ecliptic longitude/latitude (on date): +0°55'25.4"/-1°16'26.2"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +97°31'41.0"/-61°27'29.2"
Mean Sidereal Time: 18h6m45.2s
Apparent Sidereal Time: 18h6m45.2s
Distance: 30.715AU (4594.863 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°05'34"
Elongation: +34°30'53"
Phase: 1.00
Illuminated: 100.0%

Moon

Neptune

E

Date and Time

Date and Time | Julian Day

2025 / 4 / 25 5 : 5 : 28

Earth, Peterborough, 188m FOV 3.53° 44.8 FPS 2025-04-25 05:05:28 UTC-04:00

Neptune

- On April 30th, Neptune rises at 4:46 a.m. in the eastern pre-dawn sky.

Neptune

Type: **planet**
Magnitude: **7.94** (extincted to: **12.55**)
Absolute Magnitude: 32.08
RA/Dec (J2000.0): 0h04m42.26s/-0°52'55.1"
RA/Dec (on date): 0h06m0.14s/-0°44'27.4"
Hour angle/DE: 18h02m31.81s/-0°22'23.3" (apparent)
Az/Alt: +90°42'31.7"/+0°11'31.4" (apparent)
Ecliptic longitude/latitude (J2000.0): +0°43'41.5"/-1°16'37.1"
Ecliptic longitude/latitude (on date): +1°04'55.7"/-1°16'35.8"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +97°51'32.9"/-61°27'27.6"
Mean Sidereal Time: 18h7m1.5s
Apparent Sidereal Time: 18h7m1.5s
Distance: 30.665AU (4587.406 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°13'14"
Elongation: +39°12'15"
Phase: 1.00
Illuminated: 100.0%

Satur

Neptune

E

Date and Time

Date and Time | Julian Day

2025 / 4 / 30 4 : 46 : 4

Earth, Peterborough, 188m FOV 3.53° 54.4 FPS 2025-04-30 04:46:04 UTC-04:00

That is the Sky this Month

By David Mills