

Sky this Month

June 2024

By David Mills

MOON

FULL MOON

Moon

- The full Moon is on June 21st, at 9:08 PM EDT.
- Moonrise is at 9:20 PM EDT.
- This month's Full Moon is called the Strawberry Moon.

Moon

Type: **moon**
Magnitude: **-12.24** (extincted to: **-8.01**)
Absolute Magnitude: 32.31
RA/Dec (J2000.0): 18h07m7.14s/-29°07'38.0"
RA/Dec (on date): 18h08m40.88s/-29°07'29.3"
Hour angle/DE: 20h12m29.42s/-28°44'06.3" (apparent)
Az/Alt: +132°44'40.9"/+0°24'33.8" (apparent)
Ecliptic longitude/latitude (J2000.0): +271°33'44.3"/-5°41'51.4"
Ecliptic longitude/latitude (on date): +271°54'18.8"/-5°42'11.0"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +2°11'42.1"/-4°09'36.7"
Mean Sidereal Time: 14h19m50.2s
Apparent Sidereal Time: 14h19m50.0s
Distance: 0.002540AU (379936.064 km)
Apparent diameter: +0°31'26.4"
Sidereal period: 27.32 days (0.075 a)
Sidereal day: 655h43m11.5s
Mean solar day: 708h44m2.8s
Phase Angle: +5°44'20"
Elongation: +174°14'49"
Phase: 1.00
Illuminated: 99.7%



Moon

Date and Time										✕	
Date and Time					Julian Day						
2024	/	6	/	21	21	:	30	:	10		

NEW MOON

Moon

- The New Moon is on June 6th, at 8:38 AM EDT
- The Moon is north of the sun.
- Mercury and Jupiter are both moving into solar conjunction.
- Both planets are just west of the sun.
- Uranus is now moving west and slowly emerging in the morning sky.
- Mars and Saturn are now both well placed west of the sun.
- Both are now visible in morning twilight sky.
- Venus is moving towards the sun in retrograde motion eastward

Moon

Type: moon
Magnitude: -1.20
Absolute Magnitude: 43.39
RA/Dec (J2000.0): 4h59m51.16s/+26°40'56.9"
RA/Dec (on date): 5h01m22.41s/+26°43'10.8"
Hour angle/DE: 19h26m9.37s/+26°43'10.8"
Az/Alt: +83°37'46.2"/+33°16'46.1"
Ecliptic longitude/latitude (J2000.0): +76°33'49.8"/+3°56'30.7"
Ecliptic longitude/latitude (on date): +76°54'22.6"/+3°56'50.1"
Ecliptic obliquity (on date): +23°26'11.1"
Galactic longitude/latitude: +16°09'16.4"/-9°37'51.4"
Mean Sidereal Time: 0h27m32.0s
Apparent Sidereal Time: 0h27m31.8s
Distance: 0.002492AU (372840.824 km)
Apparent diameter: +0°32'02.3"
Sidereal period: 27.32 days (0.075 a)
Sidereal day: 655h43m11.5s
Mean solar day: 708h44m2.8s
Phase Angle: +175°59'54"
Elongation: +3°59'30"
Phase: 0.00
Illuminated: 0.1%



Date and Time

Date and Time

Julian Day

2024 / 6 / 6

8 : 38 : 7

E

MERCURY

Mercury

- On June 1st, Mercury is lost in the solar glare at sunrise.
- Mercury rises minutes before official sunrise.

Mercury

Type: **planet**
Magnitude: -**0.01** (extincted to: **3.38**)
Absolute Magnitude: 31.16
RA/Dec (J2000.0): 3h35m44.29s/+17°54'45.8"
RA/Dec (on date): 3h37m8.14s/+17°59'40.6"
Hour angle/DE: 16h51m7.30s/+18°17'00.4" (apparent)
Az/Alt: +65°06'28.4"/+1°01'39.1" (apparent)
Ecliptic longitude/latitude (J2000.0): +55°55'16.7"/-1°21'42.7"
Ecliptic longitude/latitude (on date): +56°15'49.5"/-1°21'25.6"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +169°04'16.9"/-29°52'39.6"
Mean Sidereal Time: -3h32m52.5s
Apparent Sidereal Time: -3h32m52.8s
Distance: 1.204AU (180.104 Mio km)
Apparent diameter: +0°00'05.6"
Sidereal period: 87.97 days (0.241 a)
Sidereal day: 1407h30m33.8s
Mean solar day: 4222h27m52.5s
Phase Angle: +49°40'45"
Elongation: +15°09'54"
Phase: 0.82
Illuminated: 82.4%



Date and Time

Date and Time

Julian Day

2024 / 6 / 1

4 : 59 : 1

Mercury

- On June 29th, Mercury reappears in the western sky at twilight.
- Mercury sets less than 30 minutes after sunset.
- The planet is barely visible at sunset. Mercury won't reach maximum elevation until July 14th.

Mercury

Type: **planet**
Magnitude: **0.20** (extincted to: **1.36**)
Absolute Magnitude: 31.39
RA/Dec (J2000.0): 7h50m27.83s/+22°55'37.7"
RA/Dec (on date): 7h51m55.72s/+22°51'55.7"
Hour angle/DE: 6h59m13.16s/+22°58'00.5" (apparent)
Az/Alt: +296°29'15.2"/+5°58'39.2" (apparent)
Ecliptic longitude/latitude (J2000.0): +115°17'13.3"/+1°52'46.4"
Ecliptic longitude/latitude (on date): +115°37'48.7"/+1°53'04.0"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: -162°08'01.3"/+22°43'53.8"
Mean Sidereal Time: 14h51m34.6s
Apparent Sidereal Time: 14h51m34.4s
Distance: 1.196AU (178.945 Mio km)
Apparent diameter: +0°00'05.6"
Sidereal period: 87.97 days (0.241 a)
Sidereal day: 1407h30m33.8s
Mean solar day: 4222h27m52.5s
Phase Angle: +52°57'57"
Elongation: +16°57'30"
Phase: 0.80
Illuminated: 80.1%



Venus

Date and Time

Date and Time

Julian Day

2024 / 6 / 29

21 : 30 : 22

VENUS

Venus

- On June 1st, Venus continues to move eastward towards the sun.
- Solar conjunction takes place around June 4th.
- Venus reappears in the western twilight at sunset on June 28th.
- Low in west the planet sets less than 30 minutes after sunset.

Venus

Type: **planet**
Magnitude: **-3.91** (extincted to: **0.51**)
Absolute Magnitude: 26.49
RA/Dec (J2000.0): 7h12m35.15s/+23°18'54.6"
RA/Dec (on date): 7h14m4.17s/+23°16'27.8"
Hour angle/DE: 7h39m14.57s/+23°39'36.9" (apparent)
Az/Alt: +303°45'21.9"/+0°17'54.3" (apparent)
Ecliptic longitude/latitude (J2000.0): +106°37'18.1"/+0°55'00.9"
Ecliptic longitude/latitude (on date): +106°57'53.4"/+0°55'19.6"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: -166°00'02.4"/+14°49'12.1"
Mean Sidereal Time: 14h54m45.0s
Apparent Sidereal Time: 14h54m44.8s
Distance: 1.715AU (256.616 Mio km)
Apparent diameter: +0°00'09.7"
Sidereal period: 224.70 days (0.615 a)
Sidereal day: 5832h28m47.1s
Mean solar day: 2802h0m52.2s
Phase Angle: +10°21'02"
Elongation: +7°17'46"
Phase: 0.99
Illuminated: 99.2%



Date and Time

Date and Time

Julian Day

2024 / 6 / 30

21 : 28 : 36

MARS

Mars

- On June 1st, Mars rises at 3:41 AM in the early morning eastern sky.
- Mars rises less than 2 hours before sunrise.

Mars

Type: planet
Magnitude: 1.05 (extincted to: 4.24)
Absolute Magnitude: 31.28
RA/Dec (J2000.0): 1h29m49.40s/+8°08'26.5"
RA/Dec (on date): 1h31m6.50s/+8°16'03.2"
Hour angle/DE: 17h33m14.96s/+8°31'48.2" (apparent)
Az/Alt: +79°14'36.7"/+1°12'46.8" (apparent)
Ecliptic longitude/latitude (J2000.0): +23°47'11.9"/-1°10'26.4"
Ecliptic longitude/latitude (on date): +24°07'44.8"/-1°10'17.4"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +139°02'57.1"/-53°31'32.1"
Mean Sidereal Time: -4h56m42.6s
Apparent Sidereal Time: -4h56m42.9s
Distance: 1.858AU (277.949 Mio km)
Apparent diameter: +0°00'05.0"
Sidereal period: 686.97 days (1.881 a)
Sidereal day: 24h37m22.7s
Mean solar day: 24h39m35.2s
Phase Angle: +32°28'37"
Elongation: +47°11'43"
Phase: 0.92
Illuminated: 92.2%



Mars

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Neptune

Moon

Date and Time

Date and Time

Julian Day

2024 / 6 / 1

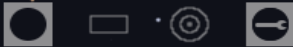
3 : 31 : 25

Mars

- On June 2nd, Mars and a waning crescent moon share a wide conjunction in the early morning eastern twilight sky.
- Both celestial objects are best seen around 3:45 AM EDT
- The moon is just northwest of Mars.

Mars

Type: planet
Magnitude: 1.05 (extincted to: 3.59)
Absolute Magnitude: 31.28
RA/Dec (J2000.0): 1h32m38.41s/+8°25'16.3"
RA/Dec (on date): 1h33m55.64s/+8°32'50.7"
Hour angle/DE: 17h36m45.92s/+8°45'26.6" (apparent)
Az/Alt: +79°41'32.5"/+1°59'28.3" (apparent)
Ecliptic longitude/latitude (J2000.0): +24°32'16.6"/-1°10'07.1"
Ecliptic longitude/latitude (on date): +24°52'49.7"/-1°09'57.8"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +140°03'19.0"/-53°04'30.9"
Mean Sidereal Time: -4h50m9.9s
Apparent Sidereal Time: -4h50m10.2s
Distance: 1.854AU (277.371 Mio km)
Apparent diameter: +0°00'05.1"
Sidereal period: 686.97 days (1.881 a)
Sidereal day: 24h37m22.7s
Mean solar day: 24h39m35.2s
Phase Angle: +32°35'46"
Elongation: +47°24'14"
Phase: 0.92
Illuminated: 92.1%



Neptune

Moon

Mars

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Date and Time

Date and TimeJulian Day

2024 / 6 / 2

3 : 38 : 1

Date and Time in Gregorian calendar

Mars

- On June 3rd, Mars and a waning crescent moon share a wide conjunction in the early morning eastern twilight sky.
- Both celestial objects are best seen around 3:45 AM EDT
- The Moon is now east of Mars. The angle of separation is almost 5 degrees.

Mars

Type: planet
Magnitude: 1.05 (extincted to: 2.88)
Absolute Magnitude: 31.28
RA/Dec (J2000.0): 1h35m27.86s/+8°42'02.5"
RA/Dec (on date): 1h36m45.22s/+8°49'34.7"
Hour angle/DE: 17h43m32.84s/+8°58'46.1" (apparent)
Az/Alt: +80°42'29.8"/+3°20'32.9" (apparent)
Ecliptic longitude/latitude (J2000.0): +25°17'24.4"/-1°09'47.1"
Ecliptic longitude/latitude (on date): +25°37'57.7"/-1°09'37.7"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +141°02'29.4"/-52°36'58.1"
Mean Sidereal Time: -4h40m19.7s
Apparent Sidereal Time: -4h40m20.0s
Distance: 1.88 AU (276.790 Mio km)
Apparent diameter: +0°00'05.1"
Sidereal period: 686.97 days (1.881 a)
Sidereal day: 24h37m22.7s
Mean solar day: 24h39m35.2s
Phase Angle: +32°42'55"
Elongation: +47°36'49"
Phase: 0.92
Illuminated: 92.1%



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Date and Time

Julian Day

2024 / 6 / 3

3 : 43 : 53

Mars

- On June 30th, Mars is now rising around 2:26 AM EDT.
- Mars is now well placed in the early morning eastern sky.

Mars

Type: planet
Magnitude: 0.99 (extincted to: 5.56)
Absolute Magnitude: 31.36
RA/Dec (J2000.0): 2h51m42.75s/+15°26'49.4"
RA/Dec (on date): 2h53m4.37s/+15°32'54.6"
Hour angle/DE: 16h56m35.33s/+15°55'41.8" (apparent)
Az/Alt: +67°40'27.3"/+0°12'37.4" (apparent)
Ecliptic longitude/latitude (J2000.0): +45°06'03.8"/-0°57'37.6"
Ecliptic longitude/latitude (on date): +45°26'39.1"/-0°57'22.7"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +160°57'51.6"/-38°23'06.9"
Mean Sidereal Time: -4h11m49.9s
Apparent Sidereal Time: -4h11m50.0s
Distance: 1.742AU (260.595 Mio km)
Apparent diameter: +0°00'05.4"
Sidereal period: 686.97 days (1.881 a)
Sidereal day: 24h37m22.7s
Mean solar day: 24h39m35.2s
Phase Angle: +35°42'10"
Elongation: +53°32'00"
Phase: 0.91
Illuminated: 90.6%



Mars

Date and Time

Date and Time

Julian Day

2024 / 6 / 30 2 : 26 : 9

JUPITER

Jupiter

- On June 1st, Jupiter rises right at sunrise in the eastern sky.
- The planet remains lost in the solar glare until mid June.

Jupiter

Type: **planet**
Magnitude: -**1.99** (extincted to: **2.25**)
Absolute Magnitude: 25.69
RA/Dec (J2000.0): 3h56m47.39s/+19°41'25.5"
RA/Dec (on date): 3h58m12.76s/+19°45'43.1"
Hour angle/DE: 16h38m44.65s/+20°07'28.7" (apparent)
Az/Alt: +61°42'40.2"/+0°24'05.3" (apparent)
Ecliptic longitude/latitude (J2000.0): +61°10'20.6"/-0°43'09.3"
Ecliptic longitude/latitude (on date): +61°30'53.2"/-0°42'51.2"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +171°43'55.5"/-25°08'35.9"
Mean Sidereal Time: -3h24m26.0s
Apparent Sidereal Time: -3h24m26.3s
Distance: 6.015AU (899.880 Mio km)
Apparent diameter: +0°00'32.8"
Sidereal period: 4331.87 days (11.860 a)
Sidereal day: 9h55m29.7s
Mean solar day: 9h55m33.1s
Phase Angle: +1°59'16"
Elongation: +9°53'09"
Phase: 1.00
Illuminated: 100.0%



Mars

Mercury

Jupiter

E

Date and Time

Date and Time

Julian Day

2024 / 6 / 1

5 : 7 : 26

Jupiter

- On June 13th, Jupiter moves away from the sun to become visible in the pre-dawn eastern sky.
- Jupiter rises at 4:32 AM EDT. Jupiter remains just above the eastern horizon at daybreak.

Jupiter

Type: planet
Magnitude: -2.00 (extincted to: 1.62)
Absolute Magnitude: 25.70
RA/Dec (J2000.0): 4h08m21.28s/+20°14'27.8"
RA/Dec (on date): 4h09m47.22s/+20°18'24.0"
Hour angle/DE: 16h39m12.12s/+20°37'06.3" (apparent)
Az/Alt: +61°27'32.7"/+0°50'21.9" (apparent)
Ecliptic longitude/latitude (J2000.0): +63°56'42.7"/-0°42'32.8"
Ecliptic longitude/latitude (on date): +64°17'16.2"/-0°42'14.5"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +173°21'26.6"/-22°48'06.6"
Mean Sidereal Time: -3h12m12.6s
Apparent Sidereal Time: -3h12m12.9s
Distance: 5.975AU (893.818 Mio km)
Apparent diameter: +0°00'33.0"
Sidereal period: 4331.87 days (11.860 a)
Sidereal day: 9h55m29.7s
Mean solar day: 9h55m33.1s
Phase Angle: +3°41'26"
Elongation: +18°33'42"
Phase: 1.00
Illuminated: 99.9%



Mars

Uranus

Jupiter

E

Date and Time

Date and Time

Julian Day

2024

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4

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32

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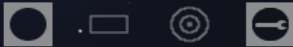
27

Jupiter

- On June 30th, Jupiter rises at 3:36 AM EDT in the late morning eastern sky.
- As the days get longer the planet rises less than 2 hours before sunrise.

Jupiter

Type: planet
Magnitude: -2.02 (extincted to: 1.95)
Absolute Magnitude: 25.71
RA/Dec (J2000.0): 4h24m17.51s/+20°54'33.6"
RA/Dec (on date): 4h25m44.44s/+20°57'59.5"
Hour angle/DE: 16h34m13.55s/+21°18'35.1" (apparent)
Az/Alt: +60°07'58.9"/+0°34'33.9" (apparent)
Ecliptic longitude/latitude (J2000.0): +67°44'05.5"/-0°41'58.3"
Ecliptic longitude/latitude (on date): +68°04'40.7"/-0°41'39.5"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +175°29'50.5"/-19°34'48.1"
Mean Sidereal Time: -3h1m20.6s
Apparent Sidereal Time: -3h1m20.8s
Distance: 5.872AU (878.384 Mio km)
Apparent diameter: +0°00'33.6"
Sidereal period: 4331.87 days (11.860 a)
Sidereal day: 9h55m29.7s
Mean solar day: 9h55m33.1s
Phase Angle: +5°58'11"
Elongation: +30°56'52"
Phase: 1.00
Illuminated: 99.7%



Mars

Uranus

Jupiter

E

Date and Time

Date and Time

Julian Day

2024 / 6 / 30

3 : 36 : 27

SATURN

Saturn

- On June 1st, Saturn rises around 2:17 AM in the early morning eastern sky.

Saturn

Type: planet
Magnitude: 1.16 (extincted to: 5.47)
Absolute Magnitude: 27.78
RA/Dec (J2000.0): 23h20m20.54s/-6°17'22.0"
RA/Dec (on date): 23h21m36.57s/-6°09'19.4"
Hour angle/DE: 18h24m49.04s/-5°48'25.2" (apparent)
Az/Alt: +98°28'57.3"/+0°21'36.7" (apparent)
Ecliptic longitude/latitude (J2000.0): +348°25'19.3"/-1°51'31.5"
Ecliptic longitude/latitude (on date): +348°45'52.4"/-1°51'34.4"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +72°43'01.1"/-59°57'12.3"
Mean Sidereal Time: 17h45m0.7s
Apparent Sidereal Time: 17h45m0.4s
Distance: 9.774AU (1462.188 Mio km)
Apparent diameter: +0°00'17.0", with rings: +0°00'39.6"
Sidereal period: 10760.00 days (29.459 a)
Sidereal day: 10h39m22.4s
Mean solar day: 10h39m24.0s
Phase Angle: +5°57'11"
Elongation: +82°30'01"
Phase: 1.00
Illuminated: 99.7%



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Date and Time

Date and TimeJulian Day

2024 / 6 / 1

2 : 17 : 21

Saturn

- On June 27th, Saturn and the Moon rise together in a close conjunction after midnight around 12:40 AM in the eastern sky.
- Both objects are separated by less than 5 degrees.

Saturn

Type: planet
Magnitude: 1.06 (extincted to: 4.64)
Absolute Magnitude: 27.78
RA/Dec (J2000.0): 23h22m57.12s/-6°07'49.1"
RA/Dec (on date): 23h24m13.22s/-5°59'44.7"
Hour angle/DE: 18h27m18.86s/-5°42'12.4" (apparent)
Az/Alt: +98°50'44.3"/+0°52'28.9" (apparent)
Ecliptic longitude/latitude (J2000.0): +349°04'53.1"/-1°58'00.8"
Ecliptic longitude/latitude (on date): +349°25'28.3"/-1°58'03.6"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +73°53'12.7"/-60°16'46.0"
Mean Sidereal Time: 17h50m21.0s
Apparent Sidereal Time: 17h50m20.8s
Distance: 9.347AU (1398.265 Mio km)
Apparent diameter: +0°00'17.8", with rings: +0°00'41.4"
Sidereal period: 10760.00 days (29.459 a)
Sidereal day: 10h39m22.4s
Mean solar day: 10h39m24.0s
Phase Angle: +5°46'19"
Elongation: +106°36'20"
Phase: 1.00
Illuminated: 99.7%



Date and Time

Date and Time

Julian Day

2024 / 6 / 27

0 : 40 : 27

Saturn

- On June 30th, Saturn rises after midnight at 12:25 AM in the eastern sky.

Saturn

Type: planet
Magnitude: 1.05 (extincted to: 4.34)
Absolute Magnitude: 27.78
RA/Dec (J2000.0): 23h22m59.47s/-6°08'23.8"
RA/Dec (on date): 23h24m15.60s/-6°00'19.1"
Hour angle/DE: 18h28m50.06s/-5°44'06.1" (apparent)
Az/Alt: +99°08'03.3"/+1°07'15.9" (apparent)
Ecliptic longitude/latitude (J2000.0): +349°05'11.7"/-1°58'46.4"
Ecliptic longitude/latitude (on date): +349°25'47.5"/-1°58'49.2"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +73°53'17.5"/-60°17'35.2"
Mean Sidereal Time: 17h52m0.0s
Apparent Sidereal Time: 17h51m59.8s
Distance: 9.299AU (1391.176 Mio km)
Apparent diameter: +0°00'17.9", with rings: +0°00'41.6"
Sidereal period: 10760.00 days (29.459 a)
Sidereal day: 10h39m22.4s
Mean solar day: 10h39m24.0s
Phase Angle: +5°40'49"
Elongation: +109°27'08"
Phase: 1.00
Illuminated: 99.8%



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Date and Time

Date and TimeJulian Day

2024 / 6 / 300 : 28 : 18

URANUS

Uranus

- On June 1st, Uranus is lost in the solar glare at sunrise.
- Uranus reappears in the early morning sky around mid-month.

Uranus

- On June 15th, Uranus rises around 3:52 AM in the early morning pre-dawn eastern sky
- Uranus remains low on the horizon until the end of June.

Uranus

Type: planet
Magnitude: 5.82 (extincted to: 10.71)
Absolute Magnitude: 30.84
RA/Dec (J2000.0): 3h29m18.04s/+18°40'04.3"
RA/Dec (on date): 3h30m42.17s/+18°45'10.3"
Hour angle/DE: 16h41m0.36s/+19°09'47.2" (apparent)
Az/Alt: +62°45'06.7"/+0°02'52.1" (apparent)
Ecliptic longitude/latitude (J2000.0): +54°37'03.1"/-0°15'49.7"
Ecliptic longitude/latitude (on date): +54°57'36.9"/-0°15'32.9"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +167°10'18.2"/-30°19'47.3"
Mean Sidereal Time: -3h49m51.9s
Apparent Sidereal Time: -3h49m52.2s
Distance: 20.462AU (3061.055 Mio km)
Apparent diameter: +0°00'03.4", 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°28'30"
Elongation: +29°45'28"
Phase: 1.00
Illuminated: 100.0%



Date and Time

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Uranus

- On June 30th, Uranus rises at 2:55 AM in the early morning eastern sky.
- The planet rises only an hour before astronomical twilight.

Uranus

Type: planet
Magnitude: 5.81 (extincted to: 9.51)
Absolute Magnitude: 30.84
RA/Dec (J2000.0): 3h32m18.58s/+18°50'41.7"
RA/Dec (on date): 3h33m42.99s/+18°55'43.0"
Hour angle/DE: 16h45m9.69s/+19°14'42.3" (apparent)
Az/Alt: +63°25'10.7"/+0°46'16.4" (apparent)
Ecliptic longitude/latitude (J2000.0): +55°21'05.5"/-0°15'49.2"
Ecliptic longitude/latitude (on date): +55°41'40.7"/-0°15'32.2"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +167°39'22.2"/-29°43'38.8"
Mean Sidereal Time: -3h42m21.1s
Apparent Sidereal Time: -3h42m21.3s
Distance: 20.312AU (3038.573 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: +2°02'25"
Elongation: +43°17'50"
Phase: 1.00
Illuminated: 100.0%

Moon

Mars

Uranus

E

Date and Time

Date and Time

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NEPTUNE

Neptune

- On June 1st, Neptune rises at 2:40 AM EDT in the early morning eastern sky.

Neptune

Type: planet
Magnitude: 7.91 (extincted to: 11.52)
Absolute Magnitude: 32.08
RA/Dec (J2000.0): 23h59m33.12s/-1°24'57.6"
RA/Dec (on date): 0h00m48.49s/-1°16'46.4"
Hour angle/DE: 18h08m33.91s/-0°59'09.9" (apparent)
Az/Alt: +92°12'05.1"/+0°50'35.8" (apparent)
Ecliptic longitude/latitude (J2000.0): +359°20'02.0"/-1°15'16.4"
Ecliptic longitude/latitude (on date): +359°40'34.9"/-1°15'15.6"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +94°56'33.0"/-61°26'08.2"
Mean Sidereal Time: 18h8m10.6s
Apparent Sidereal Time: 18h8m10.3s
Distance: 30.204AU (4518.504 Mio km)
Apparent diameter: +0°00'02.3", with rings: +0°00'05.8"
Sidereal period: 60189.00 days (164.789 a)
Sidereal day: 16h6m36.0s
Mean solar day: 16h6m36.6s
Phase Angle: +1°50'39"
Elongation: +71°36'16"
Phase: 1.00
Illuminated: 100.0%



Saturn

Neptune

E

Date and Time

Date and Time

Julian Day

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Neptune

- On June 28th, Neptune and a half Moon rise together in a tight conjunction at 12:51 AM in the early morning eastern sky.
- Both objects are best seen around 2:00 AM to 2:30 AM
- The angle of separation is less than 0.50 Degrees or 1 lunar diameter.

Neptune

Type: planet
Magnitude: 7.88 (extincted to: 8.26)
Absolute Magnitude: 32.08
RA/Dec (J2000.0): 0h00m30.93s/-1°20'09.6"
RA/Dec (on date): 0h01m46.44s/-1°11'57.5"
Hour angle/DE: 19h58m13.03s/-1°09'54.3" (apparent)
Az/Alt: +112°25'42.4"/+19°48'00.2" (apparent)
Ecliptic longitude/latitude (J2000.0): +359°35'12.1"/-1°16'37.2"
Ecliptic longitude/latitude (on date): +359°55'47.3"/-1°16'36.3"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +95°28'13.6"/-61°27'45.1"
Mean Sidereal Time: -4h0m7.6s
Apparent Sidereal Time: -4h0m7.8s
Distance: 29.756AU (4451.378 Mio km)
Apparent diameter: +0°00'02.3", with rings: +0°00'05.8"
Sidereal period: 60189.00 days (164.789 a)
Sidereal day: 16h6m36.0s
Mean solar day: 16h6m36.6s
Phase Angle: +1°56'00"
Elongation: +97°08'45"
Phase: 1.00
Illuminated: 100.0%



Date and Time

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Neptune

- On June 30th, Neptune rises at 12:43 AM in the eastern midnight sky.
- Neptune is now visible most of the night.

Neptune

Type: planet
Magnitude: **7.87** (extincted to: **12.16**)
Absolute Magnitude: 32.08
RA/Dec (J2000.0): 0h00m31.76s/-1°20'10.6"
RA/Dec (on date): 0h01m47.29s/-1°11'58.4"
Hour angle/DE: 18h05m25.59s/-0°51'17.1" (apparent)
Az/Alt: +91°33'33.2"/+0°22'25.5" (apparent)
Ecliptic longitude/latitude (J2000.0): +359°35'23.1"/-1°16'43.0"
Ecliptic longitude/latitude (on date): +359°55'58.7"/-1°16'42.1"
Ecliptic obliquity (on date): +23°26'10"
Galactic longitude/latitude: +95°28'36.4"/-61°27'51.1"
Mean Sidereal Time: 18h5m48.3s
Apparent Sidereal Time: 18h5m48.1s
Distance: 29.724AU (4446.603 Mio km)
Apparent diameter: +0°00'02.3", with rings: +0°00'05.8"
Sidereal period: 60189.00 days (164.789 a)
Sidereal day: 16h6m36.0s
Mean solar day: 16h6m36.6s
Phase Angle: +1°55'29"
Elongation: +98°58'05"
Phase: 1.00
Illuminated: 100.0%

E Neptune

Saturn

Date and Time

Date and Time

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That is the Sky this Month

By David Mills