



- Moon:
 - Phases
 - Rheita Valley
- Planets:
 - Morning planets
 - best view of morning planets in a long time
 - Mercury, Neptune, Mars & Saturn
 - Evening planet
 - Jupiter has very limited visibility, disappears after 1st week
 - Uranus & Venus too close to the Sun for observation
- Comets/Asteroids/Meteor Showers:
 - 13P / Olbers
 - o Vesta
 - Eta Aquariids
- New Moon Star Party:
 - Location TBD, May 4
- Public Viewing:
 - Cub Lake, May 11

Moon - Phases

May 1 - Last Quarter (Capricornus)



Apogee (251K miles) - 17th Perigee (226K miles) - 5th

May 7 - New Moon

May 15 - First Quarter (Leo)



May 23 - Full Moon (Scorpius)



May 31 - Last Quarter (Aquarius)



Moon - Rheita Valley

Longest distinct valley on the Moon - made up of series of interlocking craters which aligns with its point of origin Mare Nectaris. When the Nectaris basin was blasted out 3.9 billion years ago, more than a dozen mountain-size chunks of debris took flight in a curiously straight line and when they landed it created the 240-mile long Rheita Valley.

Credit: and rewplanck.com

The Rheita Valley is as long and as wide as the Grand Canyon. The difference is that the Grand Canyon took millions of years to form. The Rheita Valley was blasted out in a matter of seconds!

May 11, 9 pm

Sky and Telescope's *Field Map of the Moon*, the "very finest Moon map available for use at the telescope"







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Morning: Mercury/Mars/Neptune/Saturn - (Pisces, Aquarius)

Saturn first to rise, climbs higher before dawn as the month progresses Mercury reaches greatest western elongation from the Sun on May 9th



Morning: Neptune - (Pisces)

Neptune about 5 degrees northeast of the waning crescent moon on May 4th



Morning: Saturn - (Aquarius)

With Saturn's tilt shrinking, transits and occultations of its moons are common 2024 is the last year before the ring-plane crossing, so the rings appear very slender



Evening: Jupiter (Taurus)

Jupiter has very limited visibility, sets within an hour of the Sun on May 1st and earlier each successive evening - reaches conjunction with the Sun on May 18







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Comet Search 13P/Olbers

Discovered in 1815, has an orbital period of 69 years, never gets closer to the Sun than Earth





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will be less than 1 degree from M36

Asteroid Search Vesta

Gemini moves closer to western horizon through the month





Meteor Watch Eta Aquariids

Ejected from Halley's Comet 3000 years ago Active April 19 - May 28; peak date May 5 (waning crescent Moon) Maximum rate at peak: 50 meteors/hour







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May New Moon Star Party Location TBD, May 4

Ps 19:2







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May Public Viewing Cub Lake, May 11

Ps 19:2 9 pm Cepheu Perseus Lyra Vega Camelopardalis Ursa Minor Draco Capella Auriga sa-Maio Corona Borealt Canes Venatici Leo Minor tufuema Berenices ohiuchus Canis Minor Procyon Monoceros Sextans Great Diamond of Virgo Siriu Libra Antihelion Canis Major Crat Corvus Antlia Centaurus Vela

Sun sets ~7:45 pm

Waxing First Quarter Moon



May Viewing Chronology

- 1 Jupiter (8:30 pm)
- 2 Last quarter Moon
- 4 New Moon Star Party
- 5 Eta-Aquariids peak (4 am)
- 6 Moon, Mercury, Mars, Neptune, Saturn, E-A meteor (5:15 am)
- 7 New Moon
- 11 Public Viewing (Rheita Valley, Moon; Vesta)
- 16 thru 18 Comet 13P/Olbers (9 pm)
- 20 thru 22 Comet 13P/Olbers (9 pm)
- 23 Full Moon
- 26 Rheita Valley, Moon (12 am)
- 29 Saturn, Titan transit (4:15 am)
- 31 Last quarter Moon, Saturn (4:15 am)