

July

Planned Luna 25 launch this month

- 01 Waxing crescent Moon near Beehive Open Star Cluster
- 02 Waxing crescent Moon near Regulus
- 04 Earth at aphelion: 1.01672 AU [94,510,028 miles: 152,099,147 km]
25th anniversary of Martian landing of Mars Pathfinder [1997]
- 06 First quarter Moon
- 07 Waxing gibbous Moon near Spica
- 09 Moon at descending node
- 10 Mercury at perihelion
Waxing gibbous Moon near Antares
- 13 Moon at perigee: 221,993 miles [357,264 km]
Full Moon [Super Moon]
- 15 Waning gibbous Moon near Saturn
- 16 Mercury at superior conjunction
- 17 Dwarf planet Pluto at opposition
- 18 Mars and Neptune at helio-centric conjunction
- 19 Waning gibbous Moon near Jupiter
- 20 Last quarter Moon
Apollo 11 landing on the Moon [1969]
- 21 Waning crescent Moon near Mars and Uranus
Mars winter solstice
- 22 Moon at ascending node
Waning crescent Moon near Uranus

- 23 Waning crescent Moon near the Pleiades Open Star Cluster
- 25 Mars and Jupiter at helio-centric opposition
- 26 Moon at apogee: 252,448 miles [406,276 km]
Waning crescent Moon near Venus
- 28 Delta-Aquarid meteor shower
New Moon
- 29 Waxing crescent Moon near Mercury
Jupiter starts retrograde motion
- 30 Waxing crescent Moon near Regulus

August

- 01 Mars near Uranus
Korea Pathfinder Lunar Orbiter—Falcon 9 launch
Lunar Orbiter 5 launch [1967]
- 03 Waxing crescent Moon near Spica
Mercury near Regulus
- 05 First quarter Moon
Moon at descending node
- 06 Venus near Pollux
- 07 Waxing gibbous Moon near Antares
- 10 Moon at perigee: 223,587 miles [359,830 km]
- 11 Full Moon
Moon near Saturn
Uranus at western quadrature
- 12 Perseid meteor shower peak
- 14 Saturn at opposition

- 15 Waning gibbous Moon near Jupiter
- 17 Venus near the Beehive Open Star Cluster
Saturn at opposition
- 18 Moon at ascending node
Last quarter Moon
Moon near Uranus
Mars and Jupiter at helio-centric conjunction
- 19 Waning crescent Moon near the Pleiades Open Star Cluster
Waning crescent Moon near Mars
National Aviation Day
- 20 Mars near the Pleiades Open Star Cluster
- 22 Moon at apogee: 251,916 miles [405,419 km]
- 23 Mercury at aphelion
Waning crescent Moon near Pollux
- 24 Waning crescent Moon near Beehive Open Star Cluster
Uranus starts retrograde motion
- 25 Waning crescent Moon near Venus
- 26 Launch window opens for JUICE mission to Jupiter
- 27 New Moon
Mars at western quadrature
Mercury at greatest elongation: 27.3°E
- 30 Waxing crescent Moon near Spica