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 heliocentric 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 heliocentric 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 Waning 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 heliocentric 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 Waning crescent Moon near Spica