

## September

- 02 Moon at northernmost declination: 25.9° N
- 03 Waxing crescent Moon near Beehive Open Star Cluster  
Viking 2 landed on Mars [1976]
- 05 Venus—Spica conjunction
- 06 New Moon
- 09 Waxing crescent Moon—Venus conjunction
- 11 Moon at perigee: 228,975 miles [368,500 km]
- 12 Moon at descending node  
SpaceX Crew 3 scheduled launch
- 13 First quarter Moon  
Mercury at greatest eastern elongation: 26.8° E
- 14 Neptune at opposition
- 15 Moon at southernmost declination: 26° S
- 16 Waxing gibbous Moon—Saturn Conjunction
- 18 Waxing gibbous Moon—Jupiter Conjunction
- 20 Full Moon  
Mercury—Spica conjunction  
First animals to survive a rocket flight [1951]
- 21 H.G. Wells birthday [1866]

- 22 September equinox 19:22 UT [3:22 EDT]
- 26 Moon at ascending node  
Moon at apogee: 251,407 miles [404,600 km]
- 28 Last quarter Moon
- 29 Moon at northernmost declination: 26.1° N

## October

- 01 Waning crescent Moon near Beehive Open Star Cluster
- 02 ESA's BepiColombo  
Spacecraft flyby of Mercury
- 04 World Space Week [4th–10th]
- 06 New Moon
- 07 Mars at solar conjunction
- 08 Moon at perigee: 225,806 miles [363,400 km]
- 09 Mercury at inferior conjunction  
Waxing crescent Moon—Venus conjunction  
Moon at descending node
- 11 Nova-C Falcon launch to Moon
- 12 Moon at southernmost declination: 26.2° S  
First quarter Moon

- 14 Waxing gibbous Moon—Saturn conjunction
- 15 Waxing gibbous Moon—Jupiter conjunction
- 16 Venus—Antares conjunction  
Parker solar probe Venus Flyby #5
- 20 Full Moon  
World Statistics Day
- 21 Orionid meteor shower: ZHR = 20
- 23 Moon at ascending node
- 24 Moon at apogee: 252,028 miles [405,600 km]  
Mercury at greatest western elongation: 18.4° W  
Mars Odyssey Orbital Insertion [2001]
- 27 Moon at northernmost declination: 26.3° N  
Waning gibbous Moon near Gemini Twins star Pollux
- 28 Last quarter Moon  
Waning gibbous Moon near Beehive Open Star Cluster
- 29 Venus at greatest eastern elongation: 47° E
- 31 Launch of James Webb Space Telescope [JWST]