

# SEPTEMBER 2024

S M T W T F S

**1**  
**URANUS ENTERS RETROGRADE MOTION**

**NEW MOON**  
**THE CARRINGTON EVENT (1859)**  
Largest geomagnetic storm on record

**3**  
**VIKING 2 LANDER TOUCHDOWN AT UTOPIA PLANITIA (1976)**

**4**  
**MERCURY AT GREATEST ELONGATION WEST**

**5**  
**MOON - VENUS APPULSE**  
Low in the sky at sunset

**6**  
**BOEING'S STARLINER SPACECRAFT UNDOCKS FROM THE ISS\***  
Will return without crew

**7**  
**SATURN AT OPPOSITION**

**8**  
**ESA'S CLUSTER MISSION ENDS**  
First of 4 satellites to burn up

**9**  
**ε-PERSEID METEOR SHOWER**

**10**  
**CERN FIRES FIRST PROTONS (2008)**

**FIRST QUARTER MOON** **11**  
**SOYUZ MS-26 TO TRANSPORT 3 CREW TO THE ISS\***

**12**  
**FIRST AFRICAN-AMERICAN WOMAN IN SPACE**  
Mae Jemison (1992)

**13**  
**HORACE BABCOCK BORN (1912)**

**14**  
**INTERNATIONAL OBSERVE THE MOON NIGHT 2024**

**ZOND 5 15 LAUNCH (1968)**  
First spacecraft to orbit Moon and return to Earth

**16 thru 18**  
**AIR SPACE CYBER CONFERENCE**  
A Professional Development Event

**FULL Harvest MOON** **17**  
**LUNAR OCCULTATION OF SATURN**  
Visible on U.S. west coast

**18**  
**LUNAR OCCULTATION OF NEPTUNE**  
2:50 to 3:20am CT in Nashville

**19**  
**FIRST DOCUMENTED EMOTICONS :-) AND :-( (1982)**

**20**  
**NEPTUNE AT OPPOSITION**

**21**  
**H.G. WELLS BIRTHDAY (1866)**

**Equinox** **22**  
**MOON, JUPITER, PLEIADES TRIO**  
Look E beginning about midnight

**23**  
**MOON - JUPITER APPULSE**  
Look ENE beginning about 11pm CT

**THIRD QUARTER MOON** **24**  
**SPACEX CREW-9 MISSION LAUNCH TO THE ISS\***

**25**  
**MOON - MARS APPULSE**  
Visible midnight to dawn

**26**  
**Live and online! 7pm CT**  
**JWST: FROM STUNNING IMAGES TO COSMIC BREAKTHROUGHS**

**27**  
**DAWN LAUNCH (2007)**  
First spacecraft to orbit two extraterrestrial destinations: Vesta and Ceres

**28**  
**ALOUETTE 1 LAUNCH (1962)**  
Canada's first satellite

**29**  
**ENRICO FERMI BORN (1901)**  
Nobel laureate who created world's first nuclear reactor

**30**  
**MERCURY AT SUPERIOR SOLAR CONJUNCTION**

**Local Astronomy Events**

- 7 7:30-9:30 PM BSAS PUBLIC STAR PARTY AT BOWIE NATURE PARK**
- 13 9-11 PM TELESCOPE NIGHT AT DYER**
- 18 7:30 PM BSAS MEETING AT DYER**
- 21 7 PM BLUEBIRD ON THE MOUNTAIN CONCERT AT DYER**
- 25 7:30 PM ASTRONOMY ON TAP AT JACKALOPE BREWERY - FEATURING DR. BILLY**
- 26 7 PM MEET THE ASTRONOMER AT DYER**

More information about the observatory, events, resources, and how to reach us is available at [dyer.vanderbilt.edu](http://dyer.vanderbilt.edu).  
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\*Mission time and date subject to change. All times Central.