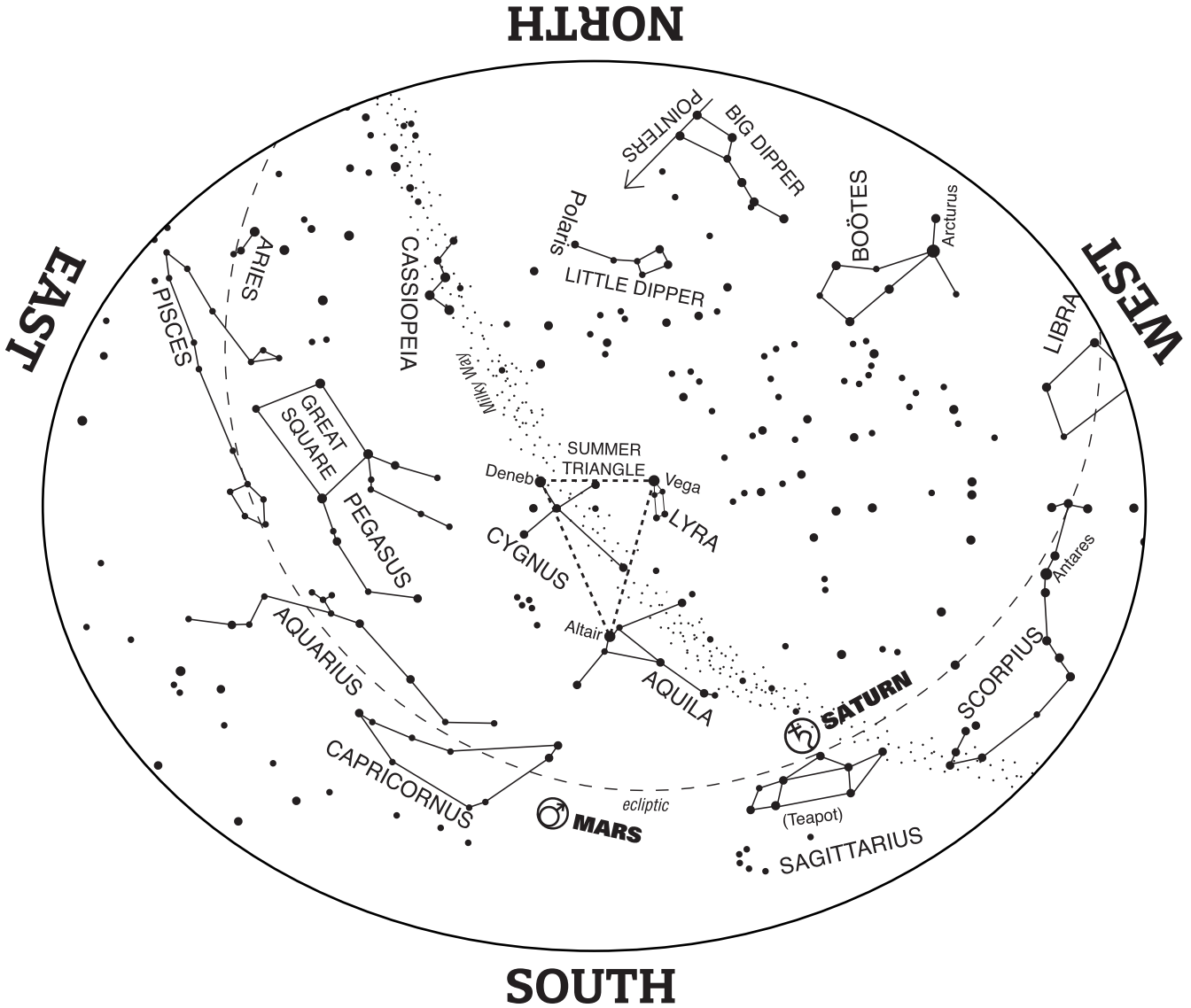


Starmap

SEPTEMBER/OCTOBER 2018



601 Light Street • Baltimore's Inner Harbor
410.685.5225 • www.marylandsciencecenter.org



TO USE MAP:

Hold the map in front of you so that the direction you are facing is on the bottom. The stars on the lower half on the map will match up with the stars in the sky. The center of the map is directly overhead in the sky. Constellation and star pattern names are all capitalized. Names of stars have only the first letter capitalized. The map is valid within an hour of:
 9:30pm Mid-September EDT
 7:30pm Mid-October EDT

MAGNITUDE is a measure of a star's brightness. The lower the number, the brighter the star

- 1st or brighter magnitude star
- 2nd magnitude star
- 3rd magnitude star
- 4th or fainter magnitude star










ECLIPTIC:

The imaginary path of the Sun through the year. Constellations of the Zodiac surround the Ecliptic and the Moon and planets appear along it.

Starmap

SEPTEMBER/OCTOBER 2018

IN THE SEPTEMBER/OCTOBER SKY

- | | |
|---|--|
| <p> Sept 2
Last Quarter Moon</p> <p>Sept 7
Neptune Opposition
(See <i>Celestial Highlight</i>)</p> <p> Sept 9
New Moon</p> <p>Sept 13
Moon near Jupiter</p> <p> Sept 16
First Quarter Moon</p> <p>Sept 17
Moon near Saturn</p> <p>Sept 19/20
Moon near Mars</p> <p>Sept 20
Mercury in conjunction
with Sun
(See <i>Celestial Highlight</i>)</p> <p>Sept 22
Autumnal equinox
(See <i>Celestial Highlight</i>)</p> <p> Sept 24
Full Moon</p> <p>Sept 27
First Quarter Moon</p> | <p> Oct 2
Last Quarter Moon</p> <p> Oct 8
New Moon</p> <p>Oct 11
Moon near Jupiter</p> <p>Oct 14
Moon near Saturn</p> <p> Oct 16
First Quarter Moon</p> <p>Oct 19
Observe the Moon Night
(See <i>Celestial Highlight</i>)</p> <p>Oct 23
Uranus Opposition
(See <i>Celestial Highlight</i>)</p> <p> Oct 24
Full Moon</p> <p>Oct 26
Venus in conjunction
with Sun
(See <i>Celestial Highlight</i>)</p> <p>Oct 28
Mercury near Jupiter</p> <p> Oct 31
Last Quarter Moon</p> |
|---|--|

CELESTIAL HIGHLIGHTS

Planet Oppositions and Conjunctions with Sun - The astronomical term *opposition* describes when an object appears opposite the sun in the sky as seen from Earth. Planets at opposition are visible all night. Neptune is at opposition on September 7. Uranus is at opposition on October 23. In contrast, *conjunction* means that two objects appear in the same place in the sky as seen from Earth. Mercury is in conjunction with the Sun on September 20. Venus is in conjunction with the Sun on October 26. Planets in conjunction with the sun are not visible.

Autumnal Equinox, Saturday, September 22, 9:54 pm EDT - The Vernal Equinox marks the first day of spring. The Equinoxes are the only two days each year when the sun rises due east and sets due west every place on Earth! If you happen to be standing at the Earth's equator at noon during the Equinox you would see the sun pass directly overhead.

International Observe the Moon Night, October 19, 7pm-10:30pm - While the official "International Observe the Moon Night" is on October 20, we are celebrating a day early. Join MSC staff and guest scientists from the Johns Hopkins University Applied Physics Lab to enjoy a view of Earth's Moon and other related activities.

The bi-monthly STARMAP is available on the web at <https://www.mdsci.org/learn/resources/starmaps/>

CROSBY RAMSEY MEMORIAL OBSERVATORY INFO 410-545-2999

Free public observing nights are held Fridays 7-10:30pm. Please call after 5pm on Friday for observing conditions.



MERCURY

When:
Before sunrise, until
September 8
After sunset, October

Where:
Low in east, September
Low in west, October

Constellation:
Leo, Virgo, Libra,
Scorpius



VENUS

When:
Evening sky, until
October 21

Where:
Low in west
Constellation:
Virgo, Libra, Virgo



MARS

When:
Evening sky

Where:
South
Constellation:
Capricornus



JUPITER

When:
Evening sky

Where:
Low in Southwest
Constellation:
Libra



SATURN

When:
Evening sky

Where:
South-southwest
Constellation:
Sagittarius