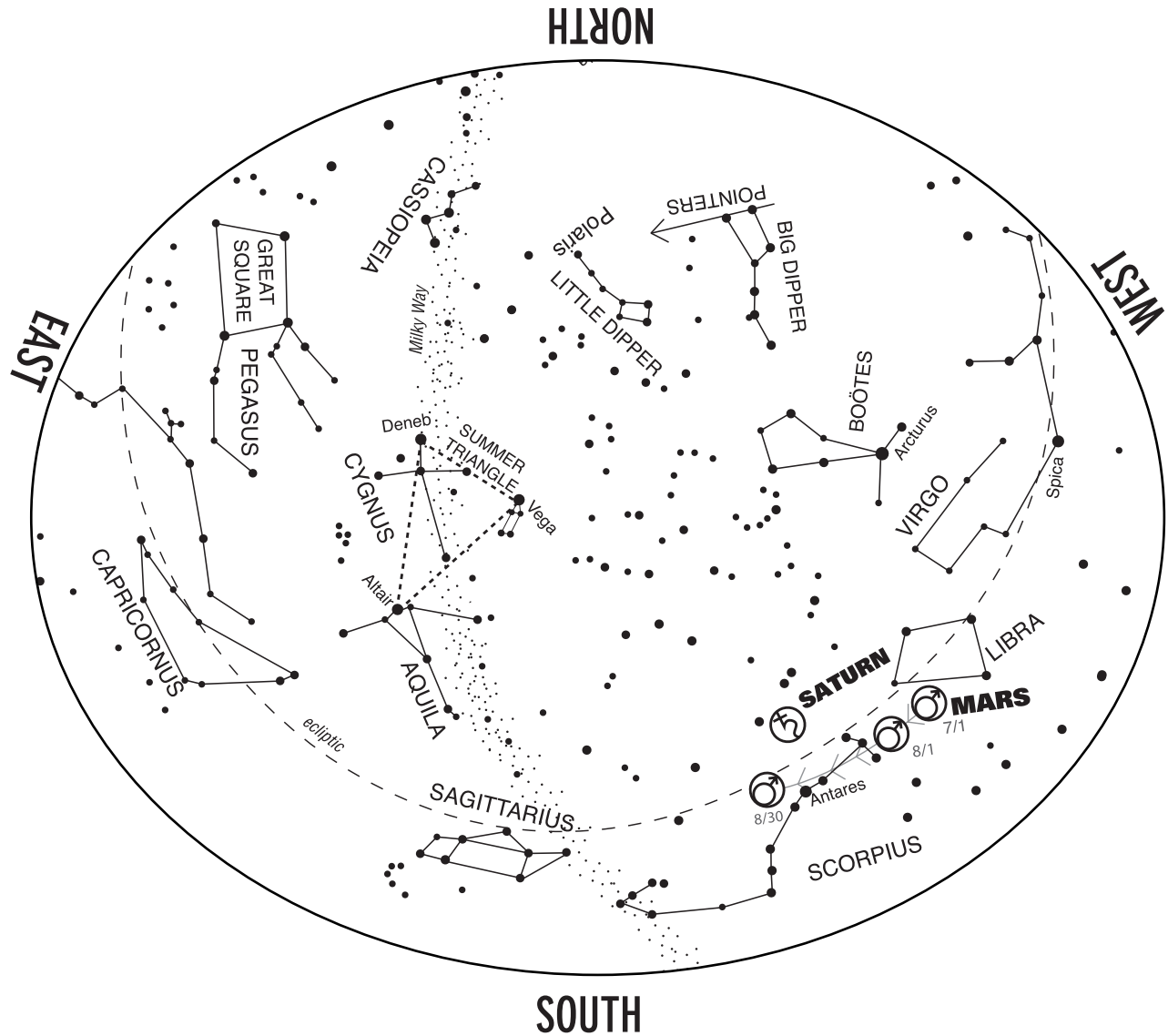


Star map

JULY/AUGUST 2016

MARYLAND
SciENCE CENTER

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:

11:30pm Mid-July EDT

9:30pm Mid-August 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

JULY/AUGUST 2016

IN THE JULY/AUGUST SKY

July 2
Moon near Aldebaran

● July 4
New Moon


July 6
Mercury in conjunction with sun

July 7
Moon near Regulus

 July 8
Moon near Jupiter

◐ July 11
First Quarter Moon

July 14
Moon near Mars

 July 15
Moon near Saturn

July 16
Mercury near Venus

○ July 19
Full Moon

◑ July 26
Last Quarter Moon

July 29
Moon near Aldebaran

July 30
Mercury near Regulus

● August 2
New Moon

August 3
Moon near Venus, Mercury, and Regulus
(See Celestial Highlights)

August 4
Moon near Mercury

August 6
Moon near Jupiter

August 8
Moon near Spica

◐ August 10
First Quarter Moon

August 11
Moon near Saturn and Mars

August 12
Annual Perseid meteor shower
(See Celestial Highlights)

August 16
Mercury greatest elongation

○ August 18
Full Moon

August 23/24
Moon near Antares and Saturn
(See Celestial Highlights)

August 25
Moon near Aldebaran

◑ August 26
Last Quarter Moon

August 27
Venus near Jupiter

 = Observatory nights

MERCURY ♀

When:
After sunset, starting July 15
Where:
Low in West
Constellation:
Leo, Virgo, Leo

VENUS ♀

When:
Evening sky, starting July 15
Where:
Low in West
Constellation:
Leo, Virgo, Libra

MARS ♂

When:
Evening Sky
Where:
South
Constellation:
Libra, Scorpius, Ophiuchus, Scorpius

JUPITER ④

When:
Evening sky
Where:
Low in West
Constellation:
Leo, Virgo

SATURN ♄

When:
Evening sky
Where:
South
Constellation:
Ophiuchus

CELESTIAL HIGHLIGHTS

Moon near Venus, Mercury and Regulus, August 3 – Low in the western sky immediately after sunset, brilliant Venus shines above a slender crescent moon. Slightly eastward from there are the star Regulus and planet Mercury. To see them, you'll need a clear view of the horizon and have to look within the hour after sunset. If it turns out you miss the grouping, Jupiter is very bright and clearly visible in the west-southwest.

Perseids Meteor Shower peaks August 12 – One of the best meteor showers of the year, the Perseids peak with about 90 meteors per hour. While the peak occurs on August 12, some meteors may be visible July 17-August 24. Look to the north eastern sky after dark to watch for Perseid meteors.

Mars near Antares and Saturn, August 23/24 – This line-up of objects includes the planets Mars and Saturn with the star Antares. Saturn is at the top, Mars in the middle and Antares is below. Both Mars and Antares are reddish in color, but Mars is brighter.

MISSION HIGHLIGHT

The Juno spacecraft arrives at Jupiter, July 4 – Juno was launched in August 2011, and it is the farthest spacecraft to power itself using solar panels. Juno will position itself in a polar orbit around Jupiter to keep its solar panels facing the sun. For more information visit: <http://www.missionjuno.swri.edu>

ONE YEAR AWAY

This time next year, August 21, 2017 – A Total Solar Eclipse crosses the US. Start making plans now! For more information and to see a map of its path visit: <http://eclipse.gsfc.nasa.gov/SEgoogle/SEgoogle2001/SE2017Aug21Tgoogle.html>

The bi-monthly STARMAP is available on the web at <http://marylandsciencecenter.org/pdf/Planetarium/STARMAP.pdf>

CROSBY RAMSEY MEMORIAL OBSERVATORY INFO

410-545-2999

Free public observing nights are held Friday evenings from 7:00-10:30pm. Please call after 5:00pm on Friday for observing conditions.