



STARRY TRAILS

APRIL 2017

As we say farewell to our most magnificent picture in the night sky, Orion, the Hunter, we say hello to the king of the planets, Jupiter!! Jupiter will rule our April skies. On the night of April 7th, Jupiter will be closest to Earth and shining it's brightest! This will be a fantastic month to get out your telescope and view Jupiter! While you are enjoying Jupiter, take a minute to listen to the sounds of spring peepers filling the air! Our countdown to the Solar Eclipse is now about four months!

Time to get out and enjoy a clear spring night! Our sun sets later now, so our hike will begin around 9:00 pm. You may still need to grab your jacket, hat and gloves. Don't forget your Starry Trail Map and binoculars. It is time to say farewell to the magnificent Hunter, Orion. Orion will return to our night sky once again in early winter. Our first stop is the western sky or direction of the sunset. There you will find the beautiful star cluster, Pleiades or the Seven Sisters. One last view of our lovely sisters until fall. To the left of the Pleiades you will see a bright red-orange star, Aldebaran, the eye of Taurus, the Bull.

Hike to the left of Taurus and there you will see Orion's magnificent star pattern. The three stars in a row make up the belt of Orion. The bright red-orange star up and to the left of the belt is Betelgeuse. The bright blue-white star down and to the right of the belt is Rigel. Now with your binoculars scan just below the belt. You will notice a small fuzzy area. That is the Orion Nebula (M42). New stars are forming in that hydrogen gas cloud! We call this a stellar nursery. Trek down and to the left from Orion's Belt. One last visit with Orion's friend Sirius, the Dog Star, the brightest star in our night sky! Farewell until early winter. Now let's make a clockwise loop up from Sirius. We will check out the bright star Procyon, next to the two stars that look almost identical, Gemini the Twins and finally to Capella (Illustration 1). Fantastic star hopping in this part of the sky!

Journey to the opposite part of the sky, or north. You will see the Big Dipper, high overhead, pouring water out of the cup like the spring rains! Take the two stars at the end of the cup and draw an imaginary line to the next bright star. You have reached the North Star! The North Star, or Polaris, is at the end of the handle of the Little Dipper. Queen Cassiopeia, the sideways w-shape, is very low in the north (Illustration 2). Hike back to the Big Dipper. Take the flat part of the cup and look slowly overhead to the shape of a backwards question mark. This is the head of Leo, the Lion. How about a challenge? Take your binoculars and scan to the left of Leo, almost to Gemini, the Twins. Do you see the beautiful Beehive Star Cluster (M44)!

For the last part of our hike, turn right or east. A brilliant object will catch your eye, the planet Jupiter!! Pick up your binoculars and focus in on Jupiter. If you are steady, you may see a few pinpoint points of light around Jupiter. These would be the largest moons of Jupiter! When you view Jupiter through a telescope, you will clearly see the four Galilean moons. To the left of Jupiter, is a bright yellow - orange star, Arcturus. The bluish star below Jupiter is Spica, in the constellation Virgo (Illustration 3). Virgo hosts the sky's richest zone of galaxies. Great telescope viewing!

Next month, the greatest and strongest hero, Hercules!

Take one last deep breath of fresh spring air and head inside. So glad spring is here!

Highlights

April 3 – First Quarter Moon.

April 7 – Jupiter at opposition or closest to Earth and at greatest brilliancy.

April 10 – The Moon passes north of Jupiter.

April 11 – Full Moon. According to folklore, it is called the Pink Moon or the Egg Moon.

April 19 – Last Quarter Moon.

April 22 – Lyrid Meteor Shower peaks.

April 26 – New Moon.

April 29 – National Astronomy Day.

Brightest Stars: West – Sirius, Betelgeuse, Rigel, Aldebaran, Procyon, Capella, Castor, Pollux. **Overhead** – Regulus. **East** – Arcturus, Spica.

Binocular Highlights The Moon, Jupiter, Pleiades, Orion Nebula M42, Beehive Cluster M44, Deep sky objects around Capella (M36, 37, 38).

Telescope Highlights The Moon, Jupiter, M51, M42, M44, M81, M82, M35, 36, 37, 38 (near Capella).

Starry Trails is a fun & easy way to explore the night sky as it appears from your own backyard! Journey over to **StarryTrails.com** & get everything you need to navigate the night sky! Starry Trails is a free publication & you are able to make copies to pass along to your friends & family so they can learn and enjoy the night sky with you! **You can Follow [Starry Trails on Facebook](#) for weekly discussions & special sky events!**
Night Sky Illustrations created by Suzie Dills using Starry Night Backyard & Stellarium.

Illustrations courtesy of www.CassandraDills.com

Written by Suzie Dills – Remember to download your Illustrations & Star Map!