



NOVEMBER 2017

Event Date	Description	Start Time	End Time (Approximate)
Saturday, November 4	*** NO EVENT ***	*** NO EVENT ***	** NO EVENT **
** NIGHT SKY FESTIVAL ** FRIDAY, November 10	<p align="center">Joshua Tree National Park Night Sky Festival - NIGHT ONE</p> <p>Sky's the Limit is proud to be part of the 3rd annual Joshua Tree National Park Night Sky Festival. Several telescopes will be set up observing an array of fascinating objects in the night sky. Observe star clusters and nebulae in the Milky Way and our nearest galactic neighbor, the Andromeda Galaxy. We will also observe the colorful orange and blue double star Albireo in Cygnus.</p> <p align="center"><i>Prominent constellations:</i></p> <p>Cygnus (the Swan), Delphinus (the Dolphin), Pegasus (the Winged Horse), Lyra (the Harp), Cassiopeia (the Seated Queen), Andromeda (the Princess)</p>	5:30pm	9:00pm
** NIGHT SKY FESTIVAL ** Saturday, November 11	<p align="center">Joshua Tree National Park Night Sky Festival - NIGHT TWO</p> <p>Night two of the JTNP Night Sky Festival will be a milestone event at Sky's the Limit. Several telescopes will be set up observing an array of fascinating objects in the night sky. Observe the intriguing stellar remnants, the Ring and Dumbbell nebulae and the sparking Double Cluster in Perseus. Also well placed for viewing will be the Pleiades star cluster and Andromeda Galaxy.</p> <p align="center"><i>Prominent constellations:</i></p> <p>Cygnus (the Swan), Delphinus (the Dolphin), Pegasus (the Winged Horse), Lyra (the Harp), Cassiopeia (the Seated Queen), Andromeda (the Princess)</p>	5:30pm	9:00pm
Saturday, November 18	<p align="center">Spectacles of the Fall Sky</p> <p>Many spectacular cosmic sights are visible this time of year. The dazzling clusters and nebulae from summer Milky Way are still visible along with the Andromeda galaxy, the nearest spiral galaxy to us. We will also observe double stars, the colorful treasures hidden away in the night sky. Also catch a view of the distant blue-green ice giants planets Uranus and Neptune.</p> <p align="center"><i>Prominent constellations:</i></p> <p>Cygnus (the Swan), Pegasus (the Winged Horse), Cetus (the Whale), Lyra (the Harp), Cassiopeia (the Seated Queen), Andromeda (the Princess)</p>	5:30pm	9:00pm
Saturday, November 25	*** NO EVENT ***	*** NO EVENT ***	** NO EVENT **



DECEMBER 2017

Event Date	Description	Start Time	End Time (Approximate)
Saturday, December 2	*** NO EVENT ***	*** NO EVENT ***	** NO EVENT **
Saturday, December 9	<p align="center">Evening with the Cosmos</p> <p>Mid December is great time to view the sky, eight first magnitude stars and several of the brightest constellations stand out against the rich star fields of the winter Milky Way. The Andromeda Galaxy, Double Cluster and Great Orion Nebula are the brightest deep sky highlights, all easily visible to naked-eye. Looking to east, the Pleiades star cluster will resemble a miniature dipper shape above the bright orange star Aldebaran in the constellation Taurus.</p> <p align="center"><i>Prominent constellations:</i> Cygnus (the Swan), Pegasus (the Winged Horse), Cetus (the Whale) Cassiopeia (the Seated Queen), Andromeda (the Princess), Perseus (the Hero)</p>	5:30pm	9:00pm
Saturday, December 16	*** NO EVENT ***	*** NO EVENT ***	** NO EVENT **
Saturday, December 23	<p align="center">First Quarter Crescent Moon</p> <p>A crescent moon will be near Neptune in the constellation Aquarius. We will observe the dramatic craters and mountains of the lunar landscape along with the outer planets Uranus and Neptune. Also visible are several colorful double stars and the vibrant deep orange Garnet Star in the constellation Cepheus. The famous Pleiades star cluster, also known as the Seven Sisters will be visible to the naked eye. Through a telescope over 100 stars will be visible.</p> <p align="center"><i>Prominent constellations:</i> Aries (the Ram), Cassiopeia (the Seated Queen), Andromeda (the Princess), Perseus (the Hero), Auriga (the Charioteer), Taurus (the Bull)</p>	5:30pm	9:00pm
Saturday, December 30	*** NO EVENT ***	*** NO EVENT ***	** NO EVENT **



JANUARY 2018

Event Date	Description	Start Time	End Time (Approximate)
<p>Saturday, January 6</p>	<p>Sidewalk Astronomy</p> <p>The winter Milky Way will be visible and celestial highlights including the Andromeda Galaxy, the Pleiades star cluster and Great Orion Nebula. Observe several fascinating double stars such as the matched pair in Aries known as the Rams Eyes and the colorful pair in Cassiopeia located 19 light years from the earth, featuring a bright yellow star and a fainter red dwarf companion.</p> <p><i>Prominent constellations:</i> Aries (the Ram), Cassiopeia (the Seated Queen), Andromeda (the Princess), Perseus (the Hero), Auriga (the Charioteer), Taurus (the Bull)</p>	<p>5:45pm</p>	<p>9:00pm</p>
<p>Saturday, January 13</p>	<p>The Orion Nebula</p> <p>The Great Orion Nebula is a vast star forming region over 1,600 light years away, It is visible to the naked in the sword of Orion. Through a telescope it appears as a bright green cloud of gas surrounding newborn stars. Eight first magnitude stars including brilliant Sirius, deep orange Betelgeuse and golden yellow Capella light up the winter sky around the faint glow of the Milky Way.</p> <p><i>Prominent constellations:</i> Cassiopeia (the Seated Queen), Andromeda (the Princess), Perseus (the Hero), Auriga (the Charioteer), Taurus (the Bull), Orion (the Hunter)</p>	<p>5:45pm</p>	<p>9:00pm</p>
<p>Saturday, January 20</p>	<p>The Winter Milky Way</p> <p>Mid January is great time to view the sky, eight first magnitude stars and several of the brightest constellations stand out against the star fields of the winter Milky Way. The Andromeda Galaxy, Double Cluster and Orion Nebula are the brightest deep sky highlights, all are visible to naked-eye. Also catch a view pair of stars in Aries known as the Rams Eyes and a vivid red carbon star known as Hind's Crimson Star, just below the constellation Orion.</p> <p><i>Prominent constellations:</i> Cassiopeia (the Seated Queen), Perseus (the Hero), Auriga (the Charioteer), Taurus (the Bull), Orion (the Hunter), Gemini (the Twins)</p>	<p>6:00pm</p>	<p>9:00pm</p>
<p>Saturday, January 27</p>	<p>*** NO EVENT ***</p>	<p>*** NO EVENT ***</p>	<p>** NO EVENT **</p>



FEBRUARY 2018

Event Date	Description	Start Time	End Time (Approximate)
Saturday, February 3	*** NO EVENT ***	*** NO EVENT ***	** NO EVENT **
Saturday, February 10	<p align="center">Winter Stargazing</p> <p>Some of the best celestial highlights including the Andromeda Galaxy, Double Cluster, the Pleiades and Great Orion Nebula will be visible. Eight first magnitude stars and several of the brightest constellations stand out against the faint glow of the Winter Milky Way. Other showpieces are the orange and blue double star Almach and the spectacular all blue triple star in Monoceros.</p> <p align="center"><i>Prominent constellations:</i> Cassiopeia (the Seated Queen), Auriga (the Charioteer), Taurus (the Bull), Orion (the Hunter), Gemini (the Twins), Canis Major (the Great Dog)</p>	6:15pm	9:30pm
Saturday, February 17	<p align="center">Deep Sky Highlights</p> <p>Come observe the winter Milky Way and its fine nebulae and star clusters along with several of the most recognizable constellations. Eight first magnitude stars including the brightest star in the sky, Sirius will light up the night. The deep sky highlights are the Great Orion Nebula, the colorful open cluster M35 in Gemini and the ghostly Crab Nebula in Taurus.</p> <p align="center"><i>Prominent constellations:</i> Cassiopeia (the Seated Queen), Auriga (the Charioteer), Taurus (the Bull), Orion (the Hunter), Gemini (the Twins), Canis Major (the Great Dog)</p>	6:15pm	9:30pm
Saturday, February 24	*** NO EVENT ***	*** NO EVENT ***	** NO EVENT **



MARCH 2018

Event Date	Description	Start Time	End Time (Approximate)
Saturday, March 3	*** NO EVENT ***	*** NO EVENT ***	** NO EVENT **
Saturday, March 10	<p align="center">Evening with the Cosmos</p> <p>Mid-March is great time to view the night sky, eight first magnitude stars and several of the brightest constellations stand out against the rich star fields of the winter Milky Way. The Orion Nebula and the Pleiades are in the western sky, and brilliant Jupiter will be well placed for viewing later in the evening east of the constellation Leo the Lion. Look to the northeast to find the Big Dipper.</p> <p align="center"><i>Prominent constellations:</i></p> <p>Cassiopeia (the Seated Queen), Auriga (the Charioteer), Taurus (the Bull), Orion (the Hunter), Gemini (the Twins), Canis Major (the Great Dog)</p>	6:30pm	10:00pm
Saturday, March 17	<p align="center">Spectacular Messier Objects</p> <p>Spectacular Messier Objects are visible in the spring sky; The Orion Nebula and the great clusters of Auriga and Gemini are setting in the west and the fantastic field of galaxies between Leo and Virgo highlights some of the best of Messier's discoveries. In the late 1700's, Charles Messier discovered many great deep sky objects in the northing skies in his years of hunting for comets.</p> <p align="center"><i>Prominent constellations:</i></p> <p>Auriga (the Charioteer), Orion (the Hunter), Gemini (the Twins), Canis Major (the Great Dog), Leo (the Lion), Ursa Major (the Great Bear)</p>	7:45pm	11:00pm
Saturday, March 24	*** NO EVENT ***	*** NO EVENT ***	** NO EVENT **
Saturday, March 31	*** NO EVENT ***	*** NO EVENT ***	** NO EVENT **



ARPIL 2018

Event Date	Description	Start Time	End Time (Approximate)
<p>Saturday, April 7</p>	<p>Sidewalk Astronomy</p> <p>The winter Milky Way is setting in the west as the spring constellations rise in the east. Some interesting galaxies featured tonight. Well placed for viewing are the bright pair known as Bode's Galaxy and the Cigar Galaxy, the face-on spiral Whirlpool Galaxy, and the edge-on Needle Galaxy. The double stars Mizar in Ursa Major and Algieba in Leo are some of the best in the sky.</p> <p><i>Prominent constellations:</i> Auriga (the Charioteer), Gemini (the Twins), Leo (the Lion), Ursa Major (the Great Bear), Virgo (the Maiden), Boötes (the Herdsman)</p>	<p>8:30pm</p>	<p>11:30pm</p>
<p>Saturday, April 14</p>	<p>Galaxies and Globular Clusters</p> <p>The spring sky is dominated by the Big Dipper, Leo, the bright orange star Arcturus and silvery blue star Spica. Some of the best examples of galaxies and globular clusters are visible this time of year. The Black-eye and Whirlpool galaxies are bright spirals with uneven texture, and the globular clusters M3 in Canes Venatici and M13 in Hercules shine with thousands of stars.</p> <p><i>Prominent constellations:</i> Gemini (the Twins), Leo (the Lion), Ursa Major (the Great Bear), Virgo (the Maiden), Hydra (the Water Snake), Boötes (the Herdsman)</p>	<p>8:00pm</p>	<p>11:30pm</p>
<p>Saturday, April 21</p>	<p>First Quarter Moon</p> <p>The first quarter Moon will be near the constellation Gemini in early in the evening. The first quarter phase is one of most beautiful times to view details on the Lunar surface. Many interesting features on the Lunar landscape come to life through a telescope. Hundreds of craters, valleys and mountain ranges look quite dramatic with the shadows created by the Lunar terminator.</p> <p><i>Prominent constellations:</i> Gemini (the Twins), Leo (the Lion), Ursa Major (the Great Bear), Virgo (the Maiden), Hydra (the Water Snake), Boötes (the Herdsman)</p>	<p>8:00pm</p>	<p>11:00pm</p>
<p>Saturday, April 28</p>	<p>*** NO EVENT ***</p>	<p>*** NO EVENT ***</p>	<p>** NO EVENT **</p>



SKY'S THE LIMIT EVENTS NOVEMBER 2017 - AUGUST 2018

MAY 2018

Event Date	Description	Start Time	End Time (Approximate)
<p>Saturday, May 5</p>	<p>Jupiter at Opposition Jupiter is near opposition and is a big and bright as it will be all year. Colorful cloud bands and weather formations will be visible on the cloud tops of the gas giant. Jupiter's four Galilean Moons; Io, Europa, Ganymede and Callisto will be dancing around the planet throughout the night. We will also observe the colorful double star Iota Cancri and the brilliant pair Mizar, in the Big Dipper.</p> <p><i>Prominent constellations:</i> Gemini (the Twins), Leo (the Lion), Ursa Major (the Great Bear), Virgo (the Maiden), Hydra (the Water Snake), Boötes (the Herdsman)</p>	<p>8:15pm</p>	<p>11:30pm</p>
<p>Saturday, May 12</p>	<p>Jupiter and It's Moons Jupiter is quite bright in the south eastern sky in the constellation Libra. We will observe the great planet in detail. The brown and pink cloud formations and Galilean moons are a spectacular sight in a telescope. Some bright galaxies featured tonight will be the trio known as Leo Triplet, the face-on spiral Whirlpool Galaxy, and the edge-on Sombrero Galaxy.</p> <p><i>Prominent constellations:</i> Leo (the Lion), Ursa Major (the Great Bear), Virgo (the Maiden), Corvus (the Crow), Boötes (the Herdsman), Libra (the Scales)</p>	<p>8:30pm</p>	<p>Midnight</p>
<p>Saturday, May 19</p>	<p>*** NO EVENT ***</p>	<p>*** NO EVENT ***</p>	<p>** NO EVENT **</p>
<p>Saturday, May 26</p>	<p>*** NO EVENT ***</p>	<p>*** NO EVENT ***</p>	<p>** NO EVENT **</p>



JUNE 2018

Event Date	Description	Start Time	End Time (Approximate)
<p align="center">Saturday, June 2</p>	<p align="center">Deep Sky Highlights</p> <p>Some of the best celestial highlights including the Great Hercules Cluster, Omega Centauri, the Sombrero Galaxy and the Needle Galaxy will be visible. Three first magnitude stars and several of the easy to recognize constellations stand out against the early summer sky. Other showpieces are the brilliant blue double star Mizar and the orange pair Algieba. The planet Jupiter will offer picturesque detail and will show colorful cloud belts and four moons.</p> <p align="center"><i>Prominent constellations:</i> Ursa Major (the Great Bear), Boötes (the Herdsman), Scorpius (the Scorpion) Hercules (the Strong Man), Lyra (the Harp), Cygnus (the Swan)</p>	<p align="center">9:00pm</p>	<p align="center">Midnight</p>
<p align="center">Saturday, June 9</p>	<p align="center">Jupiter and Deep Sky Wonders</p> <p>Jupiter is quite bright in the southern sky in the constellation Libra. We will observe the great planet in detail. The brown and pink cloud formations and it's four moons, Io, Europa, Ganymede and Callisto, are a spectacular sight in a telescope. Some sparkling globular clusters featured tonight will be the Great Cluster in Hercules, M4 in Scorpius an M5 in Serpens and Omega Centauri.</p> <p align="center"><i>Prominent constellations:</i> Ursa Major (the Great Bear), Boötes (the Herdsman), Scorpius (the Scorpion) Hercules (the Strong Man), Lyra (the Harp), Cygnus (the Swan)</p>	<p align="center">9:00pm</p>	<p align="center">Midnight</p>
<p align="center">Saturday, June 16</p>	<p align="center">The Summer Milky Way</p> <p>The spectacular summer Milky Way will be rising the east shortly after sunset. The Milky Way at this time of year is an easy target for photographers. We will tour a fine selection clusters and nebulae in Scorpius and Sagittarius including the Lagoon Nebula, Omega Nebula, Wild Duck Cluster and globular cluster M4. We will also observe two of the most impressive planets; Jupiter, and Saturn.</p> <p align="center"><i>Prominent constellations:</i> Scorpius (the Scorpion), Boötes (the Herdsman), Aquila (the Eagle), Sagittarius (the Archer), Cygnus (the Swan), Lyra (the Harp)</p>	<p align="center">9:00pm</p>	<p align="center">Midnight</p>
<p align="center">Saturday, June 23</p>	<p align="center">*** NO EVENT ***</p>	<p align="center">*** NO EVENT ***</p>	<p align="center">** NO EVENT **</p>
<p align="center">Saturday, June 30</p>	<p align="center">*** NO EVENT ***</p>	<p align="center">*** NO EVENT ***</p>	<p align="center">** NO EVENT **</p>



JULY 2018

Event Date	Description	Start Time	End Time (Approximate)
<p>Saturday, July 7</p>	<p align="center">Summer Stargazing</p> <p>The bright summer Milky Way should be a beautiful sight as it rises above the eastern horizon. Numerous star clusters and nebulae are visible to naked eye and resolve into sparking jewels through a telescope. Best of these are the Lagoon Nebula and Wild Duck Cluster. Saturn and its glorious rings will offer picturesque detail and Jupiter will show colorful cloud belts and four moons.</p> <p align="center"><i>Prominent constellations:</i> Scorpius (the Scorpion), Ophiuchus (the Serpent Barer), Aquila (the Eagle), Sagittarius (the Archer), Cygnus (the Swan), Lyra (the Harp)</p>	<p align="center">9:00pm</p>	<p align="center">Midnight</p>
<p>Saturday, July 14</p>	<p align="center">Jupiter, Saturn, Mars and The Milky Way</p> <p>We will observe the spectacular rings of Saturn, Jupiter with its four moons and a fine selection of summer Milky Way clusters and nebulae, such as the Eagle Nebula and the Butterfly Cluster. The Milky Way at this time of year is an easy target for photographers so feel free to bring you camera. Also visible is double star Albireo, featuring vivid colors or orange and blue stars. Well after sunset, catch a view of the Mars, the red planet, that is nearing opposition.</p> <p align="center"><i>Prominent constellations:</i> Scorpius (the Scorpion), Delphinus (the Dolphin), Aquila (the Eagle), Sagittarius (the Archer), Cygnus (the Swan), Lyra (the Harp)</p>	<p align="center">8:45pm</p>	<p align="center">Midnight</p>
<p>Saturday, July 21</p>	<p align="center">Telescope Clinic</p> <p>A waxing Gibbous Moon, Jupiter, Saturn and Mars will offer plenty of fun for new telescope users at a free telescope clinic/workshop hosted by Sky's the Limit. This event is open to anyone who owns a telescope, new or old they are looking to use. STL astronomers will be on hand to assist guests with their telescopes. Arrive early as the Moon and planets will be visible right at sunset. Please note that Sky's the Limit astronomers will assisting guests with their equipment and we will not have our telescopes set up for public viewing.</p> <p align="center"><i>Prominent constellations:</i> Scorpius (the Scorpion), Delphinus (the Dolphin), Aquila (the Eagle), Sagittarius (the Archer), Cygnus (the Swan), Lyra (the Harp)</p>	<p align="center">8:30pm</p>	<p align="center">10:30pm</p>
<p>Saturday, July 28</p>	<p align="center">*** NO EVENT ***</p>	<p align="center">*** NO EVENT ***</p>	<p align="center">** NO EVENT **</p>



AUGUST 2018

Event Date	Description	Start Time	End Time (Approximate)
<p>Saturday, August 4</p>	<p>The Summer Triangle</p> <p>The planets will be the main attractions tonight, Jupiter will be due south at sunset and Saturn will be visible all evening directly in the path of the Milky Way in the constellation Sagittarius. A very bright rust colored Mars that is near opposition, will also be visible after sunset. This will be one of the best times to view Mars and it may show a great amount of detail. Look for the bright clouds of the Milky Way with many of the finest clusters and nebulae.</p> <p><i>Prominent constellations:</i> Scorpius (the Scorpion), Delphinus (the Dolphin), Aquila (the Eagle), Sagittarius (the Archer), Cygnus (the Swan), Lyra (the Harp)</p>	<p>8:30pm</p>	<p>Midnight</p>
<p>Saturday, August 11</p>	<p>Saturn, Mars, and The Milky Way</p> <p>The will be one of the best times of the year to view the red planet - Mars. It has recently passed opposition and will show a great amount of detail. Spectacular Saturn and its rings will also be a highlight of the evening. Jupiter and its moons will be setting in west but will still proved a breathtaking view. If you arrive early in the evening you may also catch a view of the planet Venus.</p> <p><i>Prominent constellations:</i> Scorpius (the Scorpion), Delphinus (the Dolphin), Aquila (the Eagle), Sagittarius (the Archer), Cygnus (the Swan), Lyra (the Harp)</p>	<p>8:30pm</p>	<p>Midnight</p>
<p>Saturday, August 18</p>	<p>Venus, Jupiter, Saturn, Mars, and the Moon</p> <p>Have a chance to see five solar system objects in one night! Four planets; Venus, Jupiter, Saturn and Mars will all be easily visible running along the southern ecliptic. Each one will inspire your imagination. The waxing gibbous Moon will also provide a spectacular sight in a telescope with many craters, mountain ranges and valleys visible on the Lunar landscape.</p> <p><i>Prominent constellations:</i> Scorpius (the Scorpion), Delphinus (the Dolphin), Aquila (the Eagle), Sagittarius (the Archer), Cygnus (the Swan), Lyra (the Harp)</p>	<p>8:00pm</p>	<p>10:30pm</p>
<p>Saturday, August 25</p>	<p>*** NO EVENT ***</p>	<p>*** NO EVENT ***</p>	<p>** NO EVENT **</p>