


The Sky This Month

Nov-Dec 2017

Mon	Tue	Wed	Thu	Fri	Sat	Sun
<p>👁️ Visible at 1x power. 🔭 Best in binoculars. 🔭 Cool down the telescope. 📷 Photo op! 📹 Video record session. 🚀 Rockets and satellites.</p>		<p>15 recreational meeting Leonid meteors start KBO 2012 VP113 at opposition (83 AU) Moon near Mars (AM) 7:15 sunrise; 4:58 sunset</p>	<p>16 👁️🔭🔭 ! Moon near Venus & Jup. asteroid 24997 Petersgabriell near Earth Moon below Spica & Mars (AM) Moon near Vesta (AM)</p>	<p>17 👁️🔭📷🔭🚀 PHA 444584 near Earth ! Moon near Venus (AM) Triton at max. elongation ! Leonid meteors peak ZHR = 15 - 20 or more? very old Moon (AM)</p>	<p>18 🌑👁️📷🚀🔭 new Moon hunt for galaxies and faint fuzzies Jupiter in Libra morning ISS flyovers end Marghanna occultation ></p>	<p>19 👁️📷👁️🔭 KBO 90377 Sedna at opposition (84 AU) very thin Moon near Mercury Mars summer solstice Nibiru destroys Earth</p>
<p>👁️🔭🔭 20 dark sky observing † moon(s) of Uranus... thin Moon near Mercury thin Moon near Saturn asteroid 2985 Shakespeare near Earth</p>	<p>👁️🔭🔭🇨🇦 21 dark sky observing † Leonid meteor shower ends ! Mercury, Saturn, Moon in a line NOVA astronomy course Canadian Space Summit, Ottawa</p>	<p>👁️🔭🔭🚀 22 dark sky observing † ! Neptune stationary Neptune near lambda Aqr aka Hydor, mag 7.9 moon(s) of Uranus...</p>	<p>👁️🔭🔭 23 dark sky observing † Mercury at greatest elongation east of Sun Sun enters Scorpius comet C/2016 R2 may reach mag 10</p>	<p>📷🔭 24 moons of Uranus, Titania, Oberon, Ariel, are brighter than magnitude 14.4</p>	<p>🔭🚀 25 asteroid 5020 Asimov near Earth Lunar X moon(s) of Uranus... comet 62P/Tsuchinshan enters Virgo (AM)</p>	<p>🌑📷🚀🔭 26 1st quarter Moon first photo of meteor (1885) Lunar Straight Wall Moon near Neptune ISS evening flyovers continue to 15 Dec</p>
<p>👁️°C🔭🔭 27 city observing session † Anders Celsius's birthday (1701) SpaceX resupply mission to ISS (tentative)</p>	<p>👁️🔭🔭🇦🇺 28 city observing session † 50th anniversary of Australia's WRESAT 1 Mercury near Saturn NOVA astronomy course</p>	<p>🚀 29 meeting speakers night RASC TC annual meeting Mars near Spica (AM) asteroid (7) Iris near 4 Arietis</p>	<p>👁️🔭🔭 30 city observing session † Mars near Spica (AM) Jupiter between Venus & Mars-Spica (AM) moon(s) of Uranus... Sun enters Ophiuchus</p>	<p>🎂🔭 1 ! Toronto Centre's birthday (1868) 349 Dembowska at opposition moon(s) of Uranus... pad 40 reopens this month</p>	<p>🌞👁️🔭🔭 2 NASA's SOHO anniversary (1995) solar observing at OSC (AM) split double stars</p>	<p>🌑👁️🔭🔭 3 asteroid 2008 WM61 very near Earth full Moon Moon near Aldebaran measure variables moon(s) of Uranus...</p>
comet 24P/Schaumasse near Auva aka delta Vir (AM)						
<p>👁️ 4 Geminid meteor shower starts, runs to 17 Dec</p>	<p>🔭🚀 5 NOVA astronomy course concludes moon(s) of Uranus... Charybdis occultation ></p>	<p>🔭🇨🇦 6 moon(s) of Uranus... Dream Chaser for Canada event, Ottawa</p>	<p>📷🔭 7 look for moons of Uranus during their periods of maximum elongation</p>	<p>👁️🔭 8 Moon near Regulus</p>	<p>🔭🚀 9 Abundantia occultation comet C/2016 R2 near pi Ori</p>	<p>🌑🔭 10 3rd quarter Moon asteroid 18610 Arthurdent near Earth ! moon(s) of Uranus...</p>
<p>👁️📷🔭 11 Moon draws near planets Venus, Jupiter, Mars (AM)</p>	<p>👁️📷🔭 12 Jupiter, Mars, Spica, Moon in a jagged line (AM)</p>	<p>👁️📷🔭 13 ! Geminid meteor shower peak, ZHR = 120 Moon near Mars (AM) last human on Moon (1972) recreational meeting 7:46 sunrise; 4:48 sunset</p>	<p>See pgs 118-121 of 2017 RASC Observer's Handbook for more astro event info. † Dark Sky, City Observing Sessions are run on first clear night during week. All events in evening unless otherwise noted with (AM). ZHR = Zenithal Hourly Rate i.e. number of meteor sightings overhead per hour. KBO = Kuiper Belt Object, beyond Neptune. AU = Astronomical Unit. ISS = International Space Station. See http://heavens-above.com/ for pass information.</p>			

