

The Sky This Month

Nov-Dec 2017

Mon	Tue	Wed	Thu	Fri	Sat	Sun
Visible at 1x power. Best in binoculars. Cool down the telescope. Photo op! Video record session. Rockets and satellites.		15 recreational meeting Leonid meteors start KBO 2012 VP113 at opposition (83 AU) Moon near Mars (AM) 7:15 sunrise; 4:58 sunset	16 ! Moon near Venus & Jup. asteroid 24997 Petergabriel near Earth Moon below Spica & Mars (AM) Moon near Vesta (AM)	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)	18 new Moon hunt for galaxies and faint fuzzies Jupiter in Libra morning ISS flyovers end Marghanna occultation >	19 KBO 90377 Sedna at opposition (84 AU) very thin Moon near Mercury Mars summer solstice Nibiru destroys Earth
20 dark sky observing † moon(s) of Uranus... thin Moon near Mercury thin Moon near Saturn asteroid 2985 Shakespeare near Earth	21 dark sky observing † Leonid meteor shower ends ! Mercury, Saturn, Moon in a line NOVA astronomy course Canadian Space Summit, Ottawa	22 dark sky observing † ! Neptune stationary Neptune near lambda Aqr aka Hydor, mag 7.9 moon(s) of Uranus...	23 dark sky observing † Mercury at greatest elongation east of Sun Sun enters Scorpius comet C/2016 R2 may reach mag 10	24 moons of Uranus, Titania, Oberon, Ariel, are brighter than magnitude 14.4	25 asteroid 5020 Asimov near Earth Lunar X moon(s) of Uranus... comet 62P/Tsuchinshan enters Virgo (AM)	26 1st quarter Moon first photo of meteor (1885) Lunar Straight Wall Moon near Neptune ISS evening flyovers continue to 15 Dec
27 city observing session † Anders Celsius's birthday (1701) SpaceX resupply mission to ISS (tentative)	28 city observing session † 50th anniversary of Australia's WRESAT 1 Mercury near Saturn NOVA astronomy course	29 meeting speakers night RASC TC annual meeting Mars near Spica (AM) asteroid (7) Iris near 4 Arietis	30 city observing session † Mars near Spica (AM) Jupiter between Venus & Mars-Spica (AM) moon(s) of Uranus... Sun enters Ophiuchus	1 ! Toronto Centre's birthday (1868) 349 Dembowska at opposition moon(s) of Uranus... pad 40 reopens this month	2 NASA's SOHO anniversary (1995) solar observing at OSC (AM) split double stars	3 asteroid 2008 WM61 very near Earth full Moon Moon near Aldebaran measure variables moon(s) of Uranus...
comet 24P/Schaumasse near Auva aka delta Vir (AM)						
4 Geminid meteor shower starts, runs to 17 Dec	5 NOVA astronomy course concludes moon(s) of Uranus... Charybdis occultation >	6 moon(s) of Uranus... 	7 look for moons of Uranus during their periods of maximum elongation	8 Moon near Regulus	9 Abundantia occultation comet C/2016 R2 near pi Ori	10 3rd quarter Moon asteroid 18610 Arthurdent near Earth ! moon(s) of Uranus...
Dream Chaser for Canada event, Ottawa						
11 Moon draws near planets Venus, Jupiter, Mars (AM)	12 Jupiter, Mars, Spica, Moon in a jagged line (AM)	13 ! Geminid meteor shower peak, ZHR = 120 Moon near Mars (AM) last human on Moon (1972) recreational meeting 7:46 sunrise; 4:48 sunset	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.			

