

The Sky This Month

Sep-Oct 2019

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.		recreational meeting 19:38 sunset 21:14 twilight ends ! Jupiter events Neptune opposition yesterday	11 05:14 twilight begins 06:50 sunrise ISS morning flyovers continue to 16 Sep JAXA HTV-8 on its way to ISS	12 Harvest Moon at sunset 09:00 Mercury very near Venus anniversary of grav. waves detection tmr	13 full Moon DI star party U of T GRS transit Umbriel elongation	14 work party Carr Astronomical Observatory smallest full Moon for the year very unsuper-duper
16 asteroid Shantou occults mag 11 star (AM)	17 Boeing Starliner 1 uncrewed launch ISS evening flyovers continue to 10 Oct Moon near Uranus Sun enters Virgo	18 asteroid Damianpeach closest to Earth Europa events Saturn stationary	19 Jupiter events Saturn resumes prograde motion Moon near M45	20 Moon near Hyades (AM) lo events	21 Apollo asteroid 2017 SL16 near Earth bright ISS flyover family night DDO third quarter Moon solar observing OSC (AM)	22 bright ISS flyover Moon near Messier 35
23 dark sky observing † equinox Galle's discovery of Neptune (1846) Ganymede disappears	24 dark sky observing † Moon near Beehive	25 speakers night meeting Ariel elongation Soyuz crew launch to ISS Vesta stationary	26 dark sky observing † Aten asteroid 2017 KP27 near Earth	27 zodiacal light (AM) visible until 11 Oct ! Jupiter events	28 asteroid Lutetia opposition ! Jupiter events Alouette launch (1962) Mercury near Spica Moon near Venus new Moon	29
30 city park observing † Ariel elongation	1 city park observing † NASA's birthday (1958)	2 city park observing † Orionid meteors continue to 7 Nov Venus near Spica	3 city park observing † crew depart ISS Moon near Jupiter 16:00 Moon 1° from Jupiter	4 World Space Week continues to 10 Oct Sputnik launched (1957) observing Millennium Sq first quarter Moon tmr Ariel elongation tmr	5 solar observing OSC (AM) 15:00 Moon 1° to Saturn bright ISS flyover Int'l Observe The Moon Lunar X OSC star party	6 ! Jupiter events bright ISS flyover anniversary first exoplanet discovery Moon near Pluto
7 Draconid meteors continue to 10 Oct	8 Draconid meteors peak Mars summer solstice 18:47 sunset 20:20 twilight ends	9 05:50 twilight begins 07:23 sunrise recreational meeting Umbriel elongation	10 asteroid (29) Amphitrite opposition Ariel elongation double Jovian shadows (AM) Moon near Neptune	See pgs 114-117 of 2019 RASC Observer's Handbook for more astro info. DI = Dunlap Institute at the University of Toronto downtown campus † Dark Sky, City Observing Sessions are run on first clear night during week. All events in evening unless otherwise noted with (AM). ISS = International Space Station. See http://heavens-above.com/ for pass info. OSC = Ontario Science Centre		