



# July - August 2022



**Jupiter's Red Spot Transit Time (visible ~ 1 hour before and after)**  
**I=Io II=Europa III=Ganymede IV=Callisto Ec=Eclipse Tr=Transit Sh=Shadow Transit**  
**Oc=Occultation I=Ingress E=Egress D=Disappearance R=Reappearance**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
July 3 John Herschel's 230th birthday	July 4 <i>Earth at aphelion</i>	July 5	July 6 <b>First Quarter Moon</b>	July 7 <i>Lunar Straight Wall</i>	July 8	July 9 <i>Sunrise 5:45 set 21:12</i>
July 10 <i>Moon above Antares</i>	July 11	July 12 <i>Vesta stationary</i> Apollo 17 launch 50 years ago	July 13 <i>Full Moon at perigee</i> Algol min 24:23 <b>Red Spot 24:56</b>	July 14 Mars↑01:14 Venus rises 03:47 Saturn rises 22:26 Jupiter rises 24:07	July 15 <b>C/2017 K2 Panstarrs</b> <i>near M10</i> <i>Moon below Saturn</i>	July 16 <b>I ShE 24:33</b> <i>Mercury sup. conj.</i> Algol minimum 21:12 <i>Sunrise 5:51 set 21:08</i>
July 17 <i>Moon below Neptune</i>	July 18 <i>Moon rising below</i> Jupiter 24:00 <b>Red Spot 24:03</b>	July 19 <i>Pluto at opposition</i>	July 20 <i>Venus near M35</i> Third Quarter Moon	July 21 <i>Moon near Mars in</i> <i>morning</i> Ceres in conjunction	July 22 <i>Moon below Uranus</i> 03:00	July 23 <b>Red Spot 23:11</b> <b>I ShI 24:13</b> <i>Sunrise 5:58 set 21:01</i>
July 24 <b>IV EcR 24:35</b> <b>I OcR 24:59+4</b>	July 25 <b>Red Spot 24:49</b>	July 26 <i>Moon above Venus</i> 11:00	July 27 Venus↑04:04 Saturn rises 21:29 Jupiter rises 23:09 Mars rises 24:42	July 28 <b>New Moon</b>	July 29 <b>Mt Carleton SP</b> <b>S Delta Aquariids</b> Jupiter stationary	July 30 <b>Mt Carleton SP</b> <b>Red Spot 23:57</b> <i>Sunrise 6:06 set 20:54</i>
July 31	Aug 1 <b>C/2017 K2 Panstarrs</b> <i>near M107</i> Mars near Uranus	Aug 2	Aug 3	Aug 4 <b>Lunar X 15:00</b> <b>Red Spot 23:08</b>	Aug 5 <b>II ShI 23:08</b> <b>Irving Nature Park</b> <b>First Quarter Moon</b> <b>Lunar Straight Wall</b>	Aug 6 <b>R Spot 24:46</b> <b>SJAC meeting 19:00</b> <b>INP backup date</b> <i>Sunrise 6:14 set 20:44</i>
Aug 7	Aug 8 <b>Double Shadow Tr</b> <b>III ShE 23:57</b> <b>I ShE 24:44</b>	Aug 9 <b>Red Spot 22:15</b> <b>I OcR 23:07</b>	Aug 10 Venus↑04:30 Saturn rises 20:35 Jupiter rises 22:18 Mars rises 24:13	Aug 11 Full Moon Near Saturn <b>Red Spot 23:53</b>	Aug 12 <b>Perseid shower peaks</b>	Aug 13 <b>Perseid shower peaks</b> <b>in morning</b> <i>Sunrise 6:23 set 20:34</i>

All times are Atlantic Time Zone (AST or ADT). Sunrise / Sunset times are for Saint John, NB.