



# October - November 2021



**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
Oct 3 <b>Red Spot 24:32</b>	Oct 4 <b>Red Spot 20:24</b> <b>I Tr 22:19-24:36</b> <b>I ShI 23:20</b>	Oct 5 <b>I OcD 19:29</b> <b>I EcR 22:48</b> <i>Morning zodiacal light next 2 weeks</i>	Oct 6 <b>R Spot 22:02</b> <b>New Moon</b> <b>I TrE 19:04</b> <b>I ShE 20:06</b>	Oct 7 Venus ↓ 20:30 <i>Jupiter transits 21:56</i> <b>II Sh 19:42-22:30</b> <b>II TrE 20:24</b>	Oct 8 <b>R Spot 23:41</b> <i>Mars in conjunction</i> <i>Ceres stationary</i> <i>Algol minimum 21:12</i>	Oct 9 <b>R Spot 19:32</b> <i>Mercury inf. conj.</i> <i>Moon near Venus</i> <i>Sunrise 7:32 set 18:49</i>
Oct 10 <i>Saturn stationary</i> <i>Lassell discovered</i> <i>Triton 1846</i>	Oct 11 <b>Red Spot 21:11</b> <b>III Sh 19:54-23:29</b> <b>I TrI 24:09</b>	Oct 12 <b>I OcD 21:18</b> <b>IV EcD 24:11</b> <b>I EcR 24:43</b> <b>Q1 Moon 24:25</b>	Oct 13 <b>R Spot 22:49</b> <i>Moon below Saturn</i> <b>I Sh 19:45-22:02</b> <b>I TrE 20:53</b>	Oct 14 <b>I EcR 19:12</b> <b>II Tr 20:00-22:49</b> <b>II ShI 22:18</b> <i>Jupiter-Moon-Saturn</i>	Oct 15 <i>Venus near Antares</i>  <b>Red Spot 24:28</b>	Oct 16 <b>II EcR 20:11</b> <b>RASC NB AM</b> <b>Red Spot 20:19</b> <i>Sunrise 7:41 set 18:36</i>
Oct 17 <i>Mercury stationary</i>	Oct 18 <i>Jupiter stationary</i> <b>III Tr 19:02-22:38</b> <b>Red Spot 21:58</b> <b>III ShI 23:56</b>	Oct 19 <i>Mercury rises 06:18</i> <i>Venus sets 20:22</i> <i>Saturn transits 20:06</i> <i>Jupiter transits 21:08</i>	Oct 20 <b>R Spot 23:37</b> <i>Full Hunter's Moon</i> <b>IV Tr 20:24-24:59</b> <b>I Tr 20:28-22:45</b> <b>I Sh 21:41-23:58</b>	Oct 21 <b>R Spot 19:28</b> <b>Orionids peak a.m.</b> <b>I EcR 21:07</b> <b>II TrI 22:27</b> <b>II ShI 24:54</b>	Oct 22	Oct 23 <b>Red Spot 21:07</b> <b>II EcR 22:49</b>  <i>Sunrise 7:51 set 18:25</i>
Oct 24	Oct 25 <b>R Spot 22:46</b> <i>Mercury elongation</i> <i>Moon near M35</i> <b>III TrI 22:48</b>	Oct 26 <i>Méchain discovered</i> <i>M79 in 1780</i>	Oct 27 <b>I Tr 22:20-24:37</b> <b>I ShI 23:37</b> <b>Red Spot 24:24</b>	Oct 28 Qtr 3 Moon <b>I OcD 19:28</b> <b>I EcR 23:03</b> <b>II TrI 24:57</b>	Oct 29 <b>I TrE 19:05</b> <b>IV Ec 18:27-22:47</b> <b>I ShE 20:22</b> <b>III EcR 21:31</b>	Oct 30 <b>R Spot 21:55</b> <i>← Venus elongation</i> <b>II OcD 19:56</b> <i>Sunrise 8:00 set 18:14</i>
Oct 31 <b>Red Spot 17:46</b> <i>Pallas stationary</i> <i>Algol minimum 19:44</i>	Nov 1 <b>II ShE 19:36</b> <b>Red Spot 23:25</b>	Nov 2 Venus ↓ 20:21 <i>Jupiter transits 20:15</i> <i>Saturn sets 23:53</i> <b>Red Spot 19:27</b>	Nov 3 <b>Moon occults</b> <b>Mercury 16:43-17:38</b> <b>I TrI 24:14</b>	Nov 4 <b>New Moon</b> <i>Uranus opposition</i> <b>I OcD 21:21</b> <b>I EcR 24:58</b>	Nov 5 <b>South Taurids</b> <b>I Tr 18:42-20:59</b> <b>I Sh 20:01-22:18</b> <b>III O/E 20:12/21:58</b>	Nov 6 <b>I EcR 19:27</b> <b>SJAC meeting 19:00</b> <b>II OcD 22:31</b> <i>Sunrise 8:10 set 18:04</i>
Nov 7 <b>Standard Time 02:00</b> <b>Red Spot 17:36</b> <i>Moon near Venus</i>	Nov 8 <b>II Sh 18:26-21:13</b> <b>II TrE 18:36</b> <b>Red Spot 23:23</b>	Nov 9 <b>R Spot 19:15</b> <b>WBJAC meet 19:00</b> <i>Cook sees Mercury transit NZ 1769</i>	Nov 10 <i>Mercury near Mars</i> <i>Jupiter-Moon-Saturn</i> <b>Red Spot 24:59</b>	Nov 11 <b>I OcD 22:16</b> <b>First Quarter Moon</b> <b>Lunar X 19:00</b> <b>Red Spot 20:54</b>	Nov 12 <b>North Taurids</b> <b>III Oc 19:32-23:10</b> <b>I Tr 19:37-21:54</b> <b>I Sh 20:57-23:13</b>	Nov 13 <b>I EcR 20:23</b> <b>Red Spot 22:33</b> <i>Sunrise 7:20 set 16:56</i>

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