



# November - December 2024

**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 (Double Tr or Sh)**



Sun	Mon	Tue	Wed	Thu	Fri	Sat
Nov 3 <b>SNAS 20:00</b> Standard Time 2:00 Moon near Mercury <b>II ShI 24:30</b>	Nov 4 Moon below Venus <b>Red Spot 20:05</b>	Nov 5 <b>S Taurids peak 03:00</b> Algol min 19:31 <b>II OcR 21:44</b>	Nov 6 Mercury sets 17:46 Venus sets 18:58 <b>Red Spot 21:35</b>	Nov 7 Jupiter rises 18:51 Saturn transits 20:12 Mars rises 21:55	Nov 8 <b>I Sh 21:51-24:03</b> <b>I TrI 22:34-24:45</b> <b>Red Spot 23:13</b>	Nov 9 <b>I OcD 19:12</b> <b>Qtr 1 / Straight Wall</b> <b>I OcR 22:05</b> Sunrise 7:15 set 17:00
Nov 10 <b>SNAS 20:00</b> Moon below Saturn <b>I TrI 19:11</b> <b>Red Spot 24:50</b>	Nov 11 Moon occult Neptune 22:29 - 23:34 <b>Red Spot 20:42</b>	Nov 12 <b>N Taurids peak 2:00</b> WBJAC meet 19:00 <b>II EcD 20:14</b>	Nov 13 <b>III EcR 18:36</b> 11 Parthenope at opp. <b>III Oc 18:59-20:58</b> <b>Red Spot 22:20</b>	Nov 14 <b>Red Spot 18:11</b> <b>II TrE 19:06</b>	Nov 15 <b>I ShI 23:45</b> <b>I TrI 24:18</b> <b>Full Moon in M45</b> after midnight (3:00)	Nov 16 Mercury elong. Saturn stationary Uranus opposition Sunrise 7:24 set 16:53
Nov 17 <b>I ShE 20:25</b> <b>Leonids peak 08:00</b> Moon near Jupiter <b>I Tr 18:45-20:55</b>	Nov 18 <b>I OcR 18:15</b> <b>Red Spot 21:26</b>	Nov 19 <b>R Spot 17:18</b> <b>RASC NB 19:00</b> Moon near Pollux <b>II EcD 22:50</b>	Nov 20 <b>R Spot 23:04</b> Moon near Mars <b>III EcD 20:28</b> <b>III OcR 24:18</b>	Nov 21 <b>II Sh 18:00-20:32</b> <b>II Tr 18:50-21:21</b> <b>Red Spot 18:55</b>	Nov 22 Third Quarter Moon Algol minimum 24:25 <b>Red Spot 24:42</b>	Nov 23 <b>Red Spot 20:33</b> <b>I EcD 23:00</b> Sunrise 7:33 set 16:47
Nov 24 <b>SNAS 20:00</b> <b>I Sh 20:08-22:20</b> <b>I Tr 20:28-22:39</b>	Nov 25 Algol minimum 21:14 <b>I OcR 19:59</b> <b>Red Spot 22:11</b>	Nov 26 Mercury stationary <b>Red Spot 18:02</b>	Nov 27 <b>R Spot 23:49</b> Moon occults Spica 06:54-07:46 <b>III EcD 24:28</b>	Nov 28 <b>R Spot 19:40</b> Algol min 18:03 <b>I Sh 20:36-23:09</b> <b>I Tr 21:04-23:35</b>	Nov 29 Jupiter↑17:14 Saturn transits 18:46 Venus sets 19:34 Mars rises 20:49	Nov 30 Mercury↓17:19 <b>II OcR 17:39</b> <b>I OcD 24:55</b> Sunrise 7:42 set 16:43
Dec 1 <b>New Moon</b> <b>Red Spot 17:13</b> <b>I Sh 22:02-24:14</b> <b>I Tr 22:12-24:23</b>	Dec 2 <b>I EcD 19:24</b> <b>I OcR 21:43</b> <b>Red Spot 22:59</b>	Dec 3 <b>I ShE 18:43</b> <b>I TrE 18:49</b> <b>Red Spot 18:51</b>	Dec 4 Moon below Venus Mars near M44 <b>Red Spot 24:37</b>	Dec 5 <b>R Spot 20:28</b> Mercury inf. conj. <b>I ShI 23:11</b> <b>I TrI 23:18</b>	Dec 6 <b>Red Spot 16:20</b> Mars stationary →	Dec 7 <b>SJAC 19:00</b> Jupiter opposition <b>II Ec 17:20-19:54</b> Sunrise 7:50 set 16:41
Dec 8 <b>SNAS 20:00</b> <b>First Quarter Moon</b> <b>Lunar Straight Wall</b> <b>Red Spot 17:58</b>	Dec 9 ←Neptune stationary <b>I Oc/Ec 21:15-23:30</b> <b>Red Spot 23:44</b>	Dec 10 <b>R Spot 19:36</b> WBJAC meet 19:00 <b>I Tr 18:21-20:32</b> <b>I Sh 18:26-20:38</b>	Dec 11 <b>I EcR 17:59</b> Mars rises 20:01	Dec 12 <b>R Spot 21:13</b> Saturn transits 17:58 Venus sets 20:04 Jupiter transit 23:55	Dec 13 Moon near Pleiades <b>Geminids peak</b> <b>Red Spot 17:05</b>	Dec 14 <b>Geminids peak</b> Moon near Jupiter <b>II Oc/Ec 19:35-22:32</b> Sunrise 7:56 set 16:42

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