



November - December 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
Nov 7 <i>Standard Time 02:00</i> Red Spot 17:36 <i>Moon near Venus</i>	Nov 8 II Sh 18:26-21:13 II TrE 18:36 Red Spot 23:23	Nov 9 R Spot 19:15 WBJAC meet 19:00 Cook sees Mercury transit NZ 1769	Nov 10 <i>Mercury near Mars</i> <i>Jupiter-Moon-Saturn</i> Red Spot 24:59	Nov 11 I OcD 22:16 First Quarter Moon Lunar X 19:00 Red Spot 20:54	Nov 12 <i>North Taurids</i> III Oc 19:32-23:10 I Tr 19:37-21:54 I Sh 20:57-23:13	Nov 13 I EcR 20:23 Red Spot 22:33 <i>Sunrise 7:20 set 16:56</i>
Nov 14 I ShE 17:42 IV OcD 22:56 Red Spot 18:24	Nov 15 II Tr 18:22-21:12 II ShI 21:02	Nov 16 III ShE 18:38 Red Spot 20:03	Nov 17 II EcR 19:01 <i>Leonids peak</i> <i>Moon near Uranus</i> Algol minimum 23:38	Nov 18 <i>Leonids peak</i> Red Spot 21:42 <i>Saturn sets 21:54</i> <i>Jupiter sets 23:18</i>	Nov 19 I TrI 21:33 Almost Total Eclipse Moon 02:02-08:04 I ShI 22:53	Nov 20 Algol 20:27 RASC ZOOM 13:00 I Oc/E 18:41-22:18 <i>Sunrise 7:29 set 16:49</i>
Nov 21 I Sh 17:22-19:38 I TrE 18:19 Red Spot 19:13	Nov 22 II TrI 21:00	Nov 23 III TrE 17:19 III ShI 19:08 IV ShI 19:52 Red Spot 20:52	Nov 24 II EcR 21:39 Red Spot 16:43	Nov 25 Red Spot 22:31	Nov 26 <i>Ceres opposition</i> Red Spot 18:22	Nov 27 Third Quarter Moon I OcD 20:37 <i>Sunrise 7:38 set 16:44</i>
Nov 28 R Spot 20:02 <i>Vesta in conjunction</i> I Tr 18:00-20:16 I Sh 19:18-21:34	Nov 29 <i>Mercury sup. conj.</i> I EcR 18:43	Nov 30 III Tr 17:51-21:27 Red Spot 21:44	Dec 1 IV OcD 17:37 II OcD 18:48 IV OcR 22:13 <i>Neptune stationary</i>	Dec 2 <i>Venus sets 19:24</i> <i>Saturn sets 21:05</i> <i>Jupiter sets 22:32</i>	Dec 3 <i>Venus brightest</i> Red Spot 19:14 II ShE 18:23	Dec 4 SJAC Zoom 19:00 New Moon at perigee <i>Sunrise 7:46 set 16:42</i>
Dec 5 I Tr 19:58-22:14 I ShI 21:13 Red Spot 20:54	Dec 6 <i>Moon below Venus</i> Red Spot 16:45 I EcR 20:38	Dec 7 <i>Moon below Saturn</i> I ShE 17:58	Dec 8 <i>Moon below Jupiter</i> Red Spot 18:24 II OcD 21:31	Dec 9	Dec 10 Q1 Moon II Sh 18:13-21:00 IV ShE 18:16 II TrE 18:33	Dec 11 <i>Sunrise 7:53 set 16:41</i>
Dec 12 Lunar Straight Wall Red Spot 21:43	Dec 13 R Spot 17:34 I OcD 19:03 Algol minimum 18:59 Geminids peak	Dec 14 Geminids peak I Sh 17:38-19:54 I TrE 18:43	Dec 15 I EcR 17:03 Red Spot 19:13	Dec 16 <i>Venus sets 19:03</i> <i>Saturn sets 20:16</i> <i>Jupiter sets 21:49</i>	Dec 17 R Spot 20:53 <i>Venus stationary</i> → II Tr 18:28-21:18 II ShI 20:50	Dec 18 Iv OcR 17:38 III OcR 20:02 III EcD 21:11 <i>Sunrise 7:58 set 16:43</i>

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