



November - December 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 (Double Tr or Sh)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
Nov 6 <i>Standard Time 02:00</i> Red Spot 19:40	Nov 7 On November 8:→ I Tr 21:25-23:39 I Sh 22:25-24:38	Nov 8 WBJAC 19:00 Lunar eclipse 5:08 Total 6:16 ~ 7:20 <i>Mercury sup. conj.</i>	Nov 9 <i>Uranus opp.</i> I Oc/Ec 18:38-21:52 III/II Tr 20:15-21:36 II Sh 21:06-23:35	Nov 10 I TrE 18:06 I ShE 19:07 Red Spot 22:57	Nov 11 II EcR 18:25 Red Spot 18:48	Nov 12 North Taurids peak Red Spot 24:35 <i>Sunrise 7:18 set 16:57</i>
Nov 13 <i>Moon near Pollux</i> Red Spot 20:26	Nov 14 <i>Mars rises 18:27</i> <i>Jupiter transits 20:45</i> <i>Saturn sets 23:08</i>	Nov 15 R Spot 22:05 I TrI 23:15 I ShI 24:21 <i>Q3 Moon tomorrow</i>	Nov 16 II ShI 23:42 I Oc/Ec 20:27-23:47 II Tr 21:29-24:00 III TrI 23:50	Nov 17 R Spot 23:44 Leonids peak 20:00 I Tr 17:42-19:55 I Sh 18:50-21:03	Nov 18 R Spot 19:35 Leonids shower morn I EcR 18:16 II EcR 21:03	Nov 19 Algol 24:06 RASCNB AGM Leonids burst 02:00? <i>Sunrise 7:28 set 16:50</i>
Nov 20 III EcD 18:21 III EcR 21:04 Red Spot 21:14	Nov 21 Red Spot 17:05	Nov 22 <i>Algol minimum 20:55</i> Red Spot 22:52	Nov 23 R Spot 18:44 New Moon I OcD 22:17 II TrI 23:55	Nov 24 R Spot 24:31 <i>Jupiter stationary</i> I Tr 19:33-21:46 I Sh 20:46-22:59	Nov 25 II OcD 18:38 I EcR 20:11 II EcR 23:42 Red Spot 20:22	Nov 26 I ShE 17:28 <i>Sunrise 7:37 set 16:45</i>
Nov 27 R Spot 22:01 III Oc 17:15-20:10 II ShE 18:04 III Ec 22:23-01:05	Nov 28 <i>Moon near Saturn</i> Red Spot 17:52	Nov 29 R Spot 23:40 <i>Mars rises 17:05</i> <i>Jupiter transits 19:46</i> <i>Saturn sets 22:13</i>	Nov 30 Qtr 1 Moon Lunar X 17:00 <i>Mars closest</i> Red Spot 19:31	Dec 1 <i>Moon-Jupiter</i> Lunar Straight Wall I Tr 21:26-23:39 I Sh 22:42-24:55	Dec 2 R Spot 21:13 I Oc/Ec 18:36-22:06 II Oc 21:09-23:45 II EcD 23:50	Dec 3 I TrE 18:07 SJAC meeting 19:00 I Sh 17:11-19:24 <i>Sunrise 7:45 set 16:42</i>
Dec 4 II TrE 18:09 II Sh 18:13-20:40 III Oc 21:03-23:59 Red Spot 22:52	Dec 5 <i>← Neptune stationary</i> Red Spot 18:43	Dec 6 Red Spot 24:31	Dec 7 Full Moon occults Mars 24:07-24:35 Red Spot 20:23	Dec 8 III ShE 19:16 <i>Mars opposition</i> I TrI 23:19 I ShI 24:38	Dec 9 R Spot 22:01 I OcD 20:29 II OcD 23:43 I EcR 24:02	Dec 10 R Spot 17:53 I Tr 17:48-20:01 I Sh 19:08-21:19 <i>Sunrise 7:52 set 16:41</i>
Dec 11 I EcR 18:31 II TrE 18:10-20:41 II Sh 20:49-23:16 Red Spot 23:40	Dec 12 Red Spot 19:32 <i>Algol minimum 22:38</i>	Dec 13 II EcR 18:18 WBJAC 19:00 <i>Jupiter transits 18:53</i> <i>Saturn sets 21:23</i>	Dec 14 Geminids peak Red Spot 21:11 <i>Mars transits 23:40</i>	Dec 15 R Spot 17:02 III TrE 18:00 <i>Algol min 19:27</i> III Sh 20:41-23:18	Dec 16 <i>Third Quarter Moon</i> I OcD 22:24 Red Spot 22:50	Dec 17 R Spot 18:41 I Tr 19:43-21:56 I Sh 21:04-23:15 <i>Sunrise 7:58 set 16:42</i>

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