



December 2023 - January 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
Dec 3 Moon near Regulus II OcD 24:31 Red Spot 24:56	Dec 4 R Spot 20:47 Mercury elongation Third Quarter Moon after midnight	Dec 5 III EcR 17:40 II Tr 19:22– 21:38 II Sh 20:55-23:14 I OcD 22:36	Dec 6 R Spot 22:26 Neptune stationary I Tr 19:47-21:56 I Sh 20:36-22:46	Dec 7 R Spot 18:17 I OcD 17:03 II EcR 17:44 I EcR 20:03	Dec 8 Moon above Spica I ShE 17:15 Red Spot 24:04	Dec 9 R Spot 19:55 Moon 4° below Venus 11:00 Sunrise 7:51 set 16:41
Dec 10 Venus↑04:17 Mercury sets 17:52 Saturn transits 17:24 Jupiter transits 21:25	Dec 11 Red Spot 21:34	Dec 12 New Moon III Ec 20:00-21:42 II Tr 21:41-23:58 II Sh 23:31	Dec 13 R Spot 23:12 Mercury stationary I Tr 21:35-23:44 I Sh 22:32-24:42	Dec 14 R Spot 19:03 Geminids peak I Oc/Ec 18:50-21:58 II EcR 20:23	Dec 15 I TrE 18:11 I ShE 19:11 Red Spot 24:50	Dec 16 Red Spot 20:42 Sunrise 7:57 set 16:42
Dec 17 Moon near Saturn Algol min 19:17	Dec 18 Red Spot 22:20	Dec 19 II TrI 24:03 First Quarter Moon III Oc 19:44-21:27 III EcD 24:02	Dec 20 R Spot 23:59 Lunar Straight Wall I TrI 23:24 I ShI 24:28	Dec 21 Solstice 23:27 II O/Ec 18:28-23:02 I Oc/Ec 20:39-23:53 Vesta opposition	Dec 22 Ursids evening Mercury inf. conj. I Tr 17:51-20:01 I Sh 18:57-21:06	Dec 23 Ursids a.m. II ShE 17:43 I EcR 18:22 Sunrise 8:01 set 16:45
Dec 24 Moon below M45 very early Red Spot 17:20	Dec 25 Venus↑04:52 Saturn sets 21:39 Jupiter transits 20:23 Red Spot 23:07	Dec 26 R Spot 18:58 Long Night Full Moon ~16 hours III OcD 23:20	Dec 27 Jupiter 1 moon seen 04:03-04:45 Red Spot 24:46	Dec 28 R Spot 20:37 II Oc 20:55-23:16 I OcD 22:28 II EcD 23:20	Dec 29 I TrI 19:42-21:51 I Sh 20:53-23:02	Dec 30 I EcR 20:18 II Sh 18:00-20:19 III Sh 18:17-19:55 Sunrise 8:03 set 16:50
Dec 31 Jupiter stationary I ShE 17:31 Red Spot 18:07	Jan 1 Red Spot 23:56	Jan 2 Earth at perihelion Mercury stationary Red Spot 19:47	Jan 3 Third Quarter Moon	Jan 4 R Spot 21:26 Quadrantids 05:00 II OcD 23:24 I OcD 24:19	Jan 5 Red Spot 17:18 I Tr 21:33-23:43 I Sh 22:49-24:58	Jan 6 SJAC 19:00 II Sh 20:36-22:55 III ShI 22:20-23:58 Sunrise 8:03 set 16:56
Jan 7 I TrE 18:11 I Sh 17:18-19:27 Red Spot 18:56	Jan 8 II EcR 17:40 Moon occult Antares ~11:02-11:55 6° below Venus	Jan 9 R Spot 20:35 WBJAC meet 19:00 Venus/Mercury/Moon Algol minimum 17:50	Jan 10 Venus↑05:29 Mercury rises 06:24 Saturn sets 20:44 Jupiter transits 19:20	Jan 11 New Moon Red Spot 22:14	Jan 12 R Spot 18:05 Mercury elongation I TrI 23:27 I ShI 24:45	Jan 13 R Spot 23:53 II Tr 20:38-22:58 III Tr 20:56-22:49 Sunrise 8:01 set 17:04

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