



July –August 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
July 4 R Spot 24:29 I ShE 24:44 Mercury elongation M1 supernova 1054	July 5 <i>Earth aphelion 19:27</i>	July 6	July 7	July 8 <i>Moon L of Mercury</i>	July 9 New Moon 22:16 Red Spot 23:37	July 10 II ShI 23:25 <i>Sunrise 5:46 set 21:12</i>
July 11 <i>Mars-Venus-Moon</i> I ShI 24:20	July 12 IV ShI 23:30 I OcR 24:47	July 13 <i>Mars below Venus</i>	July 14 Saturn ↑22:13 <i>Mars sets 22:34</i> <i>Venus sets 22:39</i> <i>Jupiter rises 23:04</i>	July 15	July 16 R Spot 24:22 Lunar X 18:00 <i>Shoemaker-Levy IX hits Jupiter 1994</i>	July 17 Q1 Moon Lunar Straight Wall III ShE 23:17 <i>Sunrise 5:53 set 21:07</i>
July 18 <i>2 Pallas stationary</i> <i>6 Hebe opposition</i>	July 19 I EcD 23:31 II OcR 24:50	July 20 I ShE 23:01 I TrE 23:44	July 21 <i>Venus near Regulus</i> Red Spot 23:29	July 22	July 23 <i>Full Moon 23:37</i> <i>nearing Saturn</i>	July 24 III ShI 23:39 <i>Sunrise 6:00 set 21:00</i>
July 25 <i>Moon near Jupiter</i>	July 26 Red Spot 22:36 II EcD 23:02	July 27 I Sh 22:37-24:55 I TrI 23:12	July 28 R Spot 24:14 South δ Aquariids overnight I OcR 22:44	July 29 <i>Mars near Regulus</i> IV TrE 22:32	July 30 Saturn ↑20:55 <i>Jupiter rises 21:46</i> <i>Mars sets 21:55</i> <i>Venus sets 22:18</i>	July 31 <i>Third Quarter Moon near Uranus</i> <i>Sunrise 6:07 set 20:52</i>
Aug 1 <i>Mercury sup. conj.</i> <i>Caroline Herschel's first comet 1786</i>	Aug 2 <i>Saturn opposition</i> Red Spot 23:24	Aug 3 <i>Algol minimum 22:25</i> I ShI 24:32 I TrI 24:56	Aug 4 III OcR 22:50 II ShE 23:16 II TrE 23:59 I OcR 24:27	Aug 5 <i>3 Juno stationary</i>	Aug 6 IV EcD 23:18	Aug 7 SJAC meeting 19:00 Red Spot 22:31 <i>Sunrise 6:16 set 20:42</i>
Aug 8 New Moon III Ec II 24:37-01:45	Aug 9 Red Spot 24:09	Aug 10 <i>Moon 7° R of Venus</i> <i>Messier discovers M110 in 1773</i>	Aug 11 II ShI 23:00 II TrI 23:24 I EcD 23:42	Aug 12 R Spot 21:38 Perseids Peak I ShE 23:14 I TrE 23:24	Aug 13 Jupiter↑ 20:47 <i>Mars sets 21:19</i> <i>Venus sets 21:54</i> <i>Saturn transits 24:35</i>	Aug 14 <i>Sunrise 6:24 set 20:32</i>

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