

Location: KDAA

Lat: 38.43 N Long: 77.11 W

Time from UTC: -4

Date	Sun R	S	C Twi B	E	N Twi B	E	A Twi B	E	Moon R	S	Moon Illum
20250801	0611	2018	0542	2047	0505	2124	0426	2202	1405	----	46.8%
20250802	0611	2017	0543	2046	0507	2122	0427	2201	1507	0005	56.2%
20250803	0612	2016	0544	2045	0508	2121	0429	2159	1609	0037	65.5%
20250804	0613	2015	0544	2044	0509	2120	0430	2158	1709	0116	74.3%
20250805	0614	2014	0545	2043	0510	2118	0431	2156	1804	0204	82.3%
20250806	0615	2013	0546	2042	0511	2117	0433	2155	1853	0300	89.2%
20250807	0616	2012	0547	2040	0512	2116	0434	2153	1934	0403	94.6%
20250808	0617	2010	0548	2039	0513	2114	0435	2152	2009	0512	98.3%
20250809	0618	2009	0549	2038	0514	2113	0437	2150	2039	0622	99.9%
20250810	0618	2008	0550	2037	0515	2112	0438	2149	2106	0733	99.1%
20250811	0619	2007	0551	2035	0517	2110	0439	2147	2131	0843	95.9%
20250812	0620	2006	0552	2034	0518	2109	0441	2145	2156	0954	90.3%
20250813	0621	2004	0553	2033	0519	2107	0442	2144	2222	1105	82.5%
20250814	0622	2003	0554	2031	0520	2106	0443	2142	2252	1218	72.9%
20250815	0623	2002	0555	2030	0521	2104	0444	2140	2327	1333	62.1%
20250816	0624	2001	0556	2028	0522	2103	0446	2139	----	1448	50.7%
20250817	0625	1959	0557	2027	0523	2101	0447	2137	0010	1600	39.3%
20250818	0626	1958	0558	2026	0524	2100	0448	2135	0103	1705	28.6%
20250819	0626	1957	0559	2024	0525	2058	0450	2134	0206	1800	19%
20250820	0627	1955	0600	2023	0526	2056	0451	2132	0315	1843	11%
20250821	0628	1954	0601	2021	0528	2055	0452	2130	0427	1919	5.1%
20250822	0629	1953	0602	2020	0529	2053	0453	2128	0537	1948	1.4%
20250823	0630	1951	0603	2018	0530	2052	0455	2127	0645	2012	0%
20250824	0631	1950	0603	2017	0531	2050	0456	2125	0749	2034	0.9%
20250825	0632	1948	0604	2015	0532	2048	0457	2123	0851	2056	3.9%
20250826	0633	1947	0605	2014	0533	2047	0458	2121	0952	2117	8.6%
20250827	0634	1946	0606	2012	0534	2045	0459	2119	1052	2140	14.9%
20250828	0634	1944	0607	2011	0535	2043	0501	2118	1153	2205	22.4%
20250829	0635	1943	0608	2009	0536	2042	0502	2116	1254	2235	30.8%
20250830	0636	1941	0609	2008	0537	2040	0503	2114	1356	2311	39.9%
20250831	0637	1940	0610	2006	0538	2038	0504	2112	1457	2354	49.3%

Key

.... means sun or moon below horizon all day or
twilight never begins

**** means sun or moon above horizon all day
or twilight never ends

---- in rise column means no rise that day and
in set column - no set that day

R - Rise

S - Set

B - Beginning

E - Ending

C Twi - Civil Twilight: Sun is 6 deg below the horizon

N Twi - Nautical Twilight: Sun is 12 deg below the horizon

A Twi - Astonomical Twilight: Sun is 18 deg below the horizon

Moon Illumination is valid 00:01L for that day.