

Cristobal, Caribbean Sea

Times and Heights of High and Low Waters - year 2022

January				February				March															
Hour	Height	Hour	Height	Hour	Height	Hour	Height	Hour	Height	Hour	Height												
1 Sáb	h m 218 1049 1919	pies -0.1 1.6 -0.3	cm -3 49 -9	16 Dom	h m 1113 2042	pies 1.2 -0.2	cm 37 -6	1 Mar	h m 126 414 1218 2024	pies 0.1 0.0 1.3 -0.3	cm 3 0 40 -9	16 Mié	h m 1156 2044	pies 0.9 -0.1	cm 27 -3	1 Mar	h m 334 1103 1845	pies 0.0 1.1 -0.2	cm 0 34 -6	16 Mié	h m 251 1034 1822	pies 0.1 0.8 0.0	cm 3 24 0
2 Dom	47 258 1142 2012	0.0 -0.1 1.6 -0.4	0 -3 49 -12	17 Lun	1151 2123	1.2 -0.2	37 -6	2 Mié	241 543 1316 2107	0.2 0.1 1.1 -0.3	6 3 34 -9	17 Jue	1243 2103	0.8 -0.1	24 -3	2 Mié	40 456 1203 1931	0.3 0.1 0.9 -0.2	9 3 27 -6	17 Jue	16 418 1126 1848	0.3 0.2 0.7 0.0	9 6 21 0
3 Lun	1237 2100	1.5 -0.4	46 -12	18 Mar	1229 2154	1.1 -0.2	34 -6	3 Jue	341 731 1416 2146	0.4 0.2 1.0 -0.3	12 6 30 -9	18 Vie	406 617 1337 2117	0.3 0.2 0.7 -0.1	9 6 21 -3	3 Jue	146 636 1309 2014	0.4 0.1 0.7 -0.1	12 3 21 -3	18 Vie	102 614 1230 1910	0.4 0.2 0.5 0.0	12 6 15 0
4 Mar	1333 2144	1.4 -0.4	43 -12	19 Mié	1309 2216	1.1 -0.2	34 -6	4 Vie	429 920 1518 2221	0.5 0.2 0.8 -0.2	15 6 24 -6	19 Sáb	401 850 1438 2131	0.4 0.3 0.6 0.0	12 9 18 0	4 Vie	243 822 1421 2053	0.5 0.1 0.6 -0.1	15 3 18 -3	19 Sáb	144 809 1350 1933	0.5 0.1 0.4 0.1	15 3 12 3
5 Mié	433 701 1429 2225	0.3 0.2 1.3 -0.4	9 6 40 -12	20 Jue	1350 2230	1.0 -0.2	30 -6	5 Sáb	511 1055 1621 2253	0.7 0.2 0.6 -0.2	21 6 18 -6	20 Dom	421 1031 1544 2148	0.6 0.2 0.4 0.0	18 6 12 0	5 Sáb	332 955 1536 2128	0.7 0.0 0.5 0.0	21 0 15 0	20 Dom	226 938 1514 2002	0.7 0.0 0.3 0.1	21 0 9 3
6 Jue	516 849 1525 2302	0.5 0.3 1.1 -0.4	15 9 34 -12	21 Vie	1434 2241	0.9 -0.2	27 -6	6 Dom	549 1215 1724 2322	0.8 0.1 0.5 -0.1	24 3 15 -3	21 Lun	450 1146 1649 2211	0.8 0.0 0.3 -0.1	24 0 9 -3	6 Dom	415 1109 1647 2201	0.8 -0.1 0.4 0.0	24 -3 12 0	21 Lun	310 1044 1628 2037	0.9 -0.2 0.2 0.1	27 -6 6 3
7 Vie	556 1031 1621 2335	0.6 0.4 0.9 -0.3	18 12 27 -9	22 Sáb	559 931 1523 2251	0.5 0.4 0.7 -0.1	15 12 21 -3	7 Lun	626 1322 1824 2348	0.9 0.0 0.4 -0.1	27 0 12 -3	22 Mar	525 1246 1750 2241	1.0 -0.1 0.2 -0.1	30 -3 6 -3	7 Lun	454 1208 1750 2232	0.9 -0.1 0.3 0.0	27 -3 9 0	22 Mar	355 1138 1729 2120	1.0 -0.3 0.2 0.0	30 -9 6 0
8 Sáb	634 1203 1717	0.8 0.3 0.7	24 9 21	23 Dom	557 1123 1617 2304	0.6 0.3 0.6 -0.1	18 9 18 -3	8 Mar	701 1420 1921	1.0 -0.1 0.3	30 -3 9	23 Mié	606 1340 1845 2317	1.1 -0.2 0.2 -0.1	34 -6 6 -3	8 Mar	531 1257 1842 2301	0.9 -0.2 0.3 0.1	27 -6 9 3	23 Mié	442 1227 1819 2208	1.1 -0.4 0.2 0.0	34 -12 6 0
9 Dom	5 711 1327 1815	-0.2 0.9 0.2 0.5	-6 27 6 15	24 Lun	616 1247 1715 2322	0.8 0.2 0.4 -0.1	24 6 12 -3	9 Mié	11 735 1513 2014	0.0 1.1 -0.1 0.2	0 34 -3 6	24 Jue	649 1432 1938 2358	1.3 -0.3 0.1 -0.1	40 -9 3 -3	9 Mié	608 1342 1927 2329	1.0 -0.2 0.2 0.1	30 -6 6 3	24 Jue	530 1314 1904 2300	1.2 -0.4 0.2 0.0	37 -12 6 0
10 Lun	31 746 1443 1915	-0.2 1.0 0.1 0.4	-6 30 3 12	25 Mar	645 1356 1816 2345	1.0 0.1 0.3 -0.2	30 3 9 -6	10 Jue	31 810 1604 2105	0.0 1.1 -0.1 0.1	0 34 -3 3	25 Vie	736 1522 2030	1.3 -0.3 0.1	40 -9 3	10 Jue	643 1424 2005 2356	1.0 -0.2 0.2 0.1	30 -6 6 3	25 Vie	619 1400 1948 2353	1.3 -0.4 0.2 0.0	40 -12 6 0
11 Mar	53 821 1552 2018	-0.1 1.1 0.0 0.2	-3 34 0 6	26 Mié	722 1458 1918	1.2 -0.1 0.2	37 -3 6	11 Vie	48 845 1656 2157	0.0 1.1 -0.2 0.1	0 34 -6 3	26 Sáb	44 824 1614 2125	-0.1 1.3 -0.3 0.1	-3 40 -9 3	11 Vie	719 1505 2040	1.0 -0.2 0.2	30 -6 6	26 Sáb	709 1445 2033	1.3 -0.4 0.2	40 -12 6
12 Mié	109 854 1656 2128	0.0 1.2 0.0 0.1	0 37 0 3	27 Jue	15 803 1556 2022	-0.2 -0.4 -0.2 0.1	-6 43 -6 3	12 Sáb	100 920 1750 2300	0.0 1.1 -0.2 0.0	0 34 -6 0	27 Dom	134 915 1705 2224	-0.1 1.3 -0.3 0.1	-3 40 -9 3	12 Sáb	22 755 1548 2116	0.0 1.0 -0.2 0.1	0 30 -6 3	27 Dom	50 759 1530 2121	0.0 1.2 -0.4 0.3	0 37 -12 9
13 Jue	117 928 1758 2257	0.0 1.2 -0.1 0.1	0 37 -3 3	28 Vie	50 848 1653 2129	-0.2 1.4 -0.3 0.0	-6 43 -9 0	13 Dom	101 957 1845	-0.1 1.1 -0.2	-3 34 -6	28 Lun	229 1008 1756 2330	-0.1 1.2 -0.3 0.2	-3 37 -9 6	13 Dom	48 832 1631 2154	0.0 1.0 -0.2 0.1	0 30 -6 3	28 Lun	151 851 1614 2213	0.0 1.1 -0.3 0.4	0 34 -9 12
14 Vie	105 1002 1857	0.0 1.2 -0.2	0 37 -6	29 Sáb	130 937 1749 2242	-0.2 1.5 -0.3 0.0	-6 46 -9 0	14 Lun	1035 1936	1.1 -0.2	34 -6	14 Lun	118 910 1712 2238	0.0 0.9 -0.1 0.1	0 27 -3 3	29 Mar	300 946 1657 2308	0.0 0.9 -0.2 0.4	0 27 -6 12				
15 Sáb	1037 1952	1.2 -0.2	37 -6	30 Dom	216 1029 1844	-0.1 1.5 -0.3	-3 46 -9	15 Mar	1114 2016	1.0 -0.2	30 -6	15 Mar	155 950 1750 2327	0.0 0.9 -0.1 0.2	0 27 -3 6	30 Mié	422 1047 1738	0.1 0.7 -0.1	3 21 -3				
				31 Lun	2 308 1122 1936	0.0 -0.1 1.4 -0.3	0 -3 43 -9									31 Jue	3 559 1158 1817	0.5 0.1 0.5 0	15 3 15 0				

Panama Canal (HIAM)
Jorge F. Rodríguez C.



New Moon



First Quarter



Full Moon



Last Quarter

Cristobal, Caribbean Sea

Times and Heights of High and Low Waters - year 2022

April					May					June																								
Hour		Height			Hour		Height			Hour		Height			Hour		Height																	
	h	m	pies	cm		h	m	pies	cm		h	m	pies	cm		h	m	pies	cm															
1 Vie ☀	56	0.6	18		16 Sáb ☉	721	0.0	0		1 Dom	55	1.0	30		16 Lun	2	1.2	37		1 Mié	129	1.1	34		16 Jue	123	1.5	46						
	740	0.0	0			1237	0.2	6			923	-0.3	-9			835	-0.3	-9			1034	-0.4	-12			946	-0.6	-18						
	1326	0.4	12			1705	0.1	3																										
	1854	0.1	3																															
2 Sáb	146	0.7	21		17 Dom	40	0.9	27		2 Lun	136	1.0	30		17 Mar	54	1.3	40		2 Jue	207	1.1	34		17 Vie	219	1.4	43		17 Vie	1028	-0.6	-18	
	907	-0.1	-3			840	-0.2	-6			1011	-0.3	-9			926	-0.5	-15			1106	-0.4	-12			1721	0.3	9			1954	0.2	6	
	1504	0.3	9			1428	0.2	6																										
	1930	0.1	3			1735	0.1	3																										
3 Dom	232	0.8	24		18 Lun	130	1.0	30		3 Mar	216	1.0	30		18 Mié	148	1.4	43		3 Vie	245	1.0	30		18 Sáb	315	1.3	40		18 Sáb	1108	-0.6	-18	
	1013	-0.2	-6			941	-0.3	-9			1051	-0.4	-12			1012	-0.6	-18			1133	-0.4	-12			1758	0.4	12			2137	0.3	9	
	1634	0.3	9			1604	0.1	3																										
	2006	0.2	6			1819	0.0	0																										
4 Lun	314	0.9	27		19 Mar	222	1.1	34		4 Mié	256	1.0	30		19 Jue	243	1.4	43		4 Sáb	323	1.0	30		19 Dom	410	1.1	34		19 Dom	1144	-0.5	-15	
	1105	-0.3	-9			1032	-0.4	-12			1126	-0.4	-12			1055	-0.6	-18			1156	-0.4	-12			1837	0.6	18			2312	0.3	9	
	1743	0.3	9			1706	0.2	6																										
	2042	0.2	6			1923	0.1	3																										
5 Mar	354	0.9	27		20 Mié	314	1.2	37		5 Jue	335	1.0	30		20 Vie	338	1.3	40		5 Dom	400	0.9	27		20 Lun	505	0.9	27		20 Lun	1218	-0.4	-12	
	1148	-0.3	-9			1119	-0.5	-15			1158	-0.4	-12			1137	-0.6	-18			1216	-0.3	-9			1916	0.8	24						
	1832	0.3	9			1750	0.2	6																										
	2120	0.2	6			2035	0.1	3																										
6 Mié	432	0.9	27		21 Jue	406	1.3	40		6 Vie	413	1.0	30		21 Sáb	432	1.3	40		6 Lun	437	0.9	27		21 Mar	42	0.2	6		21 Mar	600	0.7	21	
	1227	-0.3	-9			1203	-0.5	-15			1228	-0.4	-12			1216	-0.6	-18			1232	-0.3	-9			1955	0.9	27			1249	-0.3	-9	
	1907	0.3	9			1829	0.2	6																										
	2158	0.2	6			2144	0.1	3																										
7 Jue	510	1.0	30		22 Vie	459	1.3	40		7 Sáb	451	1.0	30		22 Dom	524	1.1	34		7 Mar	515	0.7	21		22 Mié	210	0.2	6		22 Mié	659	0.5	15	
	1302	-0.3	-9			1246	-0.5	-15			1255	-0.3	-9			1254	-0.5	-15			1246	-0.2	-6			1957	0.6	18			1316	-0.2	-6	
	1935	0.3	9			1907	0.3	9			2006	0.3	9			1938	0.6	18																
	2235	0.2	6			2251	0.1	3			2219	0.2	6																					
8 Vie	547	1.0	30		23 Sáb	550	1.2	37		8 Dom	527	0.9	27		23 Lun	16	0.2	6		8 Mié	102	0.3	9		23 Jue	333	0.1	3		23 Jue	803	0.3	9	
	1337	-0.3	-9			1327	-0.5	-15			1320	-0.3	-9			617	0.9	27			557	0.6	18			1338	-0.1	-3			2110	1.1	34	
	2000	0.2	6			1948	0.4	12			2014	0.4	12			1328	-0.4	-12			1259	-0.2	-6			2017	0.8	24						
	2313	0.1	3			2359	0.1	3			2326	0.3	9			2019	0.7	21																
9 Sáb	624	1.0	30		24 Dom	642	1.1	34		9 Lun	604	0.9	27		24 Mar	140	0.2	6		9 Jue	231	0.3	9		24 Vie	452	0.0	0		24 Vie	919	0.2	6	
	1410	-0.3	-9			1407	-0.4	-12			1342	-0.3	-9			711	0.7	21			645	0.4	12			1352	-0.1	-3			2147	1.2	37	
	2025	0.2	6			2030	0.5	15			2030	0.4	12			1359	-0.3	-9			1313	-0.2	-6			2044	1.0	30						
	2352	0.1	3																															
10 Dom	701	0.9	27		25 Lun	109	0.1	3		10 Mar	37	0.3	9		25 Mié	308	0.1	3		10 Vie	356	0.1	3		25 Sáb	604	-0.1	-3		25 Sáb	1059	0.1	3	
	1442	-0.2	-6			734	1.0	30			643	0.7	21			809	0.5	15			743	0.3	9			1348	0.0	0			2223	1.2	37	
	2051	0.3	9			1445	-0.3	-9			1401	-0.2	-6			1426	-0.2	-6			1330	-0.2	-6			2118	1.1	34						
						2115	0.5	15			2052	0.5	15			2139	0.9	27			2118	1.1	34											
11 Lun	36	0.1	3		26 Mar	225	0.1	3		11 Mié	155	0.3	9		26 Jue	439	0.1	3		11 Sáb	515	0.0	0		26 Dom	709	-0.2	-6		26 Dom	2300	1.2	37	
	738	0.9	27			827	0.8	24			724	0.6	18			917	0.3	9			859	0.1	3											
	1512	-0.2	-6			1520	-0.2	-6			1418	-0.2	-6			1447	-0.1	-3			1349	-0.1	-3											
	2121	0.3	9			2200	0.7	21			2119	0.7	21			2218	1.0	30			2159	1.3	40											
12 Mar	129	0.2	6		27 Mié	350	0.1	3		12 Jue	322	0.2	6		27 Vie	607	-0.1	-3		12 Dom	623	-0.2	-6		27 Lun	806	-0.3	-9		27 Lun	2336	1.2	37	
	817	0.8	24			927	0.6	18			813	0.4	12			1051	0.1	3			1036	0.0	0											
	1539	-0.1	-3			1551	-0.1	-3			1434	-0.1	-3			1455	0.0	0			1412	-0.1	-3			2245	1.4	43						
	2154	0.4	12			2245	0.8	24			2152	0.8	24			2257	1.1	34			2245	1.4	43											
13 Mié	236	0.2	6		28 Jue	525	0.1	3		13 Vie	455	0.1	3		28 Sáb	725	-0.2	-6		13 Lun	722	-0.3	-9		28 Mar	856	-0.3	-9						
	900	0.7	21			1040	0.4	12			917	0.3	9			2335	1.1	34			1234	-0.1	-3											
	1602	-0.1	-3			1618	0.0	0			1450	-0.1	-3								1434	-0.2	-6											
	2230	0.5	15			2330	0.8	24			2230	1.0	30								2335	1.5	46											
14 Jue	401	0.2	6																															

Cristobal, Caribbean Sea

Times and Heights of High and Low Waters - year 2022

October					November					December																								
Hour		Height			Hour		Height			Hour		Height			Hour		Height																	
	h	m	pies	cm		h	m	pies	cm		h	m	pies	cm		h	m	pies	cm															
1 Sáb	6	-0.2	-6		16 Dom	45	-0.2	-6		1 Mar	59	-0.3	-9		16 Mié	105	-0.1	-3		1 Jue	59	-0.3	-9		16 Vie	31	-0.1	-3						
	612	0.3	9			732	0.5	15			726	0.5	15			813	0.6	18			752	0.9	27			751	0.8	24						
	925	0.2	6			1026	0.4	12			1123	0.3	9			1126	0.5	15			1311	0.4	12			1303	0.5	15		1739	0.7	21		
	1657	1.4	43			1729	1.2	37			1807	1.3	40			1746	1.0	30			1840	0.9	27			1840	0.9	27		1739	0.7	21		
2 Dom	49	-0.2	-6		17 Lun	119	-0.1	-3		2 Mié	136	-0.3	-9		17 Jue	125	-0.1	-3		2 Vie	130	-0.2	-6		17 Sáb	43	-0.1	-3		17 Sáb	43	-0.1	-3	
	649	0.4	12			758	0.5	15			805	0.7	21			828	0.7	21			831	1.0	30			807	0.9	27			807	0.9	27	
	1021	0.2	6			1108	0.4	12			1238	0.3	9			1239	0.5	15			1440	0.3	9			1429	0.4	12			1429	0.4	12	
	1746	1.4	43			1807	1.1	34			1859	1.2	37			1823	0.9	27			1938	0.7	21			1938	0.7	21			1825	0.5	15	
3 Lun	131	-0.2	-6		18 Mar	152	-0.1	-3		3 Jue	212	-0.2	-6		18 Vie	143	0.0	0		3 Sáb	158	-0.1	-3		18 Dom	55	-0.1	-3		18 Dom	55	-0.1	-3	
	726	0.4	12			824	0.5	15			846	0.8	24			847	0.8	24			911	1.1	34			830	1.1	34			830	1.1	34	
	1119	0.2	6			1151	0.4	12			1358	0.3	9			1359	0.5	15			1609	0.2	6			1550	0.2	6			1550	0.2	6	
	1835	1.4	43			1843	1.1	34			1953	1.0	30			1903	0.7	21			2046	0.5	15			1920	0.3	9			1920	0.3	9	
4 Mar	213	-0.2	-6		19 Mié	222	0.0	0		4 Vie	245	-0.1	-3		19 Sáb	158	0.0	0		4 Dom	221	0.0	0		19 Lun	108	0.0	0		19 Lun	108	0.0	0	
	807	0.4	12			850	0.5	15			930	0.9	27			910	0.9	27			952	1.2	37			901	1.2	37			901	1.2	37	
	1219	0.2	6			1238	0.4	12			1525	0.3	9			1525	0.4	12			1735	0.1	3			1704	0.1	3			1704	0.1	3	
	1925	1.4	43			1920	1.0	30			2052	0.8	24			1949	0.6	18			2213	0.3	9			2030	0.2	6			2030	0.2	6	
5 Mié	254	-0.2	-6		20 Jue	250	0.0	0		5 Sáb	315	0.0	0		20 Dom	211	0.1	3		5 Lun	236	0.1	3		20 Mar	124	0.0	0		20 Mar	124	0.0	0	
	851	0.5	15			919	0.6	18			1014	1.0	30			939	1.0	30			1032	1.3	40			938	1.3	40			938	1.3	40	
	1323	0.2	6			1334	0.4	12			1658	0.2	6			1656	0.3	9			1656	0.3	9			1808	0.0	0			1808	0.0	0	
	2017	1.2	37			1958	0.9	27			2204	0.6	18			2049	0.4	12			2049	0.4	12			2158	0.1	3			2158	0.1	3	
6 Jue	335	-0.1	-3		21 Vie	315	0.1	3		6 Dom	342	0.1	3		21 Lun	221	0.1	3		6 Mar	21	0.2	6		21 Mié	143	0.0	0		21 Mié	143	0.0	0	
	940	0.6	18			948	0.6	18			1059	1.1	34			1012	1.2	37			226	0.1	3			1020	1.5	46			1020	1.5	46	
	1436	0.2	6			1443	0.4	12			1832	0.1	3			1821	0.1	3			1112	1.3	40			1905	-0.2	-6			1905	-0.2	-6	
	2111	1.1	34			2039	0.8	24			2340	0.4	12			2217	0.2	6			1957	-0.2	-6			2347	0.0	0			2347	0.0	0	
7 Vie	414	0.0	0		22 Sáb	335	0.1	3		7 Lun	402	0.2	6		22 Mar	230	0.1	3		7 Mié	1153	1.3	40		22 Jue	202	-0.1	-3		22 Jue	202	-0.1	-3	
	1031	0.7	21			1020	0.7	21			1143	1.2	37			1051	1.3	40			2051	-0.2	-6			1108	1.5	46			1108	1.5	46	
	1559	0.2	6			1609	0.4	12			1953	0.0	0			1930	0.0	0								1955	-0.3	-9			1955	-0.3	-9	
	2212	0.9	27			2129	0.6	18																										
8 Sáb	452	0.1	3		23 Dom	351	0.2	6		8 Mar	159	0.3	9		23 Mié	1136	1.4	43		8 Jue	1233	1.3	40		23 Vie	1159	1.6	49		23 Vie	1159	1.6	49	
	1124	0.8	24			1054	0.8	24			404	0.2	6			2024	-0.2	-6			2137	-0.3	-9			2041	-0.4	-12			2041	-0.4	-12	
	1735	0.2	6			1749	0.3	9			1228	1.2	37																					
	2324	0.7	21			2238	0.5	15			2057	-0.1	-3																					
9 Dom	530	0.2	6		24 Lun	403	0.2	6		9 Mié	1311	1.3	40		24 Jue	1225	1.5	46		9 Vie	1313	1.3	40		24 Sáb	1252	1.6	49		24 Sáb	1252	1.6	49	
	1217	0.9	27			1132	1.0	30			2148	-0.2	-6			2111	-0.3	-9			2217	-0.3	-9			2123	-0.4	-12			2123	-0.4	-12	
	1914	0.2	6			1923	0.2	6																										
10 Lun	55	0.5	15		25 Mar	23	0.4	12		10 Jue	1355	1.3	40		25 Vie	1317	1.5	46		10 Sáb	1353	1.2	37		25 Dom	1347	1.5	46		25 Dom	1347	1.5	46	
	606	0.2	6			412	0.3	9			2232	-0.2	-6			2154	-0.4	-12			2251	-0.3	-9			2204	-0.4	-12			2204	-0.4	-12	
	1308	1.0	30			1214	1.1	34																										
	2041	0.0	0			2036	0.0	0																										
11 Mar	239	0.5	15		26 Mié	1300	1.2	37		11 Vie	1437	1.2	37		26 Sáb	1411	1.5	46		11 Dom	1431	1.2	37		26 Lun	457	0.3	9		26 Lun	457	0.3	9	
	643	0.3	9			2131	-0.1	-3			2309	-0.2	-6			2234	-0.4	-12			2319	-0.2	-6			1443	1.4	43			1443	1.4	43	
	1357	1.1	34																															
	2149	-0.1	-3																															
12 Mié	418	0.4	12		27 Jue	1350	1.3	40		12 Sáb	1518	1.2	37		27 Dom	1505	1.5	46		12 Lun	1508	1.1	34		27 Mar	530	0.5	15		27 Mar	530	0.5	15	
	723	0.3	9			2218	-0.2	-6			2343	-0.2	-6			2313	-0.4	-12			2343	-0.2	-6			855	0.4	12			855	0.4	12	
	1444	1.2	37																															
	2243	-0.1	-3																															
13 Jue	533	0.5	15		28 Vie	1441	1.4	43		13 Dom	1557	1.2	37		28 Lun	606	0.4	12		13 Mar	1544	1.0	30		28 Mié	608	0.7	21		28 Mié	608	0.7	21	
	808	0.4	12																															