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NEWCASTLE						
LAT 32° 56' LONG 151° 47' TIME ZONE -1000						
TIMES AND HEIGHTS OF HIGH AND LOW WATERS						
JANUARY – 2014						
SUN. TIME M	MON. TIME M	TUES. TIME M	WED. TIME M	THURS. TIME M	FRI. TIME M	SAT. TIME M
			1 ●	2	3	4
			0110 0.36 0748 2.04 1427 0.16 2028 1.50	0203 0.34 0839 2.08 1516 0.11 2121 1.53	0257 0.34 0930 2.08 1606 0.10 2214 1.55	0352 0.37 1021 2.02 1655 0.14 2306 1.56
5	6	7	8 ●	9	10	11
0448 0.43 1111 1.90 1745 0.21	0000 1.55 0545 0.50 1201 1.75 1833 0.31	0054 1.54 0647 0.58 1254 1.58 1922 0.40	0151 1.53 0754 0.65 1352 1.42 2013 0.49	0251 1.54 0908 0.69 1458 1.29 2105 0.56	0350 1.56 1024 0.69 1608 1.23 2200 0.59	0446 1.60 1132 0.64 1714 1.21 2252 0.60
12	13	14	15 ○	16 ○	17	18
0538 1.64 1227 0.58 1810 1.23 2342 0.60	0623 1.68 1310 0.52 1858 1.27	0027 0.58 0704 1.73 1346 0.46 1939 1.31	0108 0.56 0743 1.76 1421 0.42 2016 1.35	0146 0.54 0819 1.78 1454 0.39 2053 1.38	0224 0.53 0854 1.79 1526 0.37 2129 1.40	0301 0.53 0929 1.78 1558 0.37 2204 1.41
19	20	21	22	23	24 ●	25
0340 0.54 1002 1.74 1630 0.38 2241 1.43	0419 0.57 1038 1.69 1704 0.40 2318 1.43	0501 0.60 1114 1.61 1739 0.43	0000 1.44 0548 0.64 1153 1.52 1816 0.46	0045 1.45 0641 0.68 1239 1.43 1900 0.50	0138 1.47 0744 0.70 1336 1.34 1950 0.54	0238 1.52 0859 0.68 1448 1.28 2050 0.55
26	27	28	29	30	31 ●	
0342 1.59 1016 0.61 1607 1.27 2157 0.54	0445 1.69 1127 0.49 1719 1.31 2301 0.49	0544 1.82 1227 0.36 1823 1.39	0001 0.43 0640 1.93 1320 0.24 1919 1.47	0058 0.36 0733 2.02 1410 0.15 2013 1.55	0152 0.31 0825 2.06 1458 0.10 2103 1.61	

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NEWCASTLE						
LAT 32° 56' LONG 151° 47' TIME ZONE -1000						
TIMES AND HEIGHTS OF HIGH AND LOW WATERS						
FEBRUARY – 2014						
SUN. TIME M	MON. TIME M	TUES. TIME M	WED. TIME M	THURS. TIME M	FRI. TIME M	SAT. TIME M
						1
						0246 0.30 0915 2.04 1544 0.11 2153 1.65
2	3	4	5	6	7 ●	8
0340 0.31 1004 1.96 1629 0.16 2242 1.66	0433 0.37 1052 1.83 1714 0.24 2330 1.65	0529 0.45 1140 1.67 1757 0.35	0019 1.62 0626 0.55 1228 1.50 1841 0.47	0111 1.58 0728 0.63 1320 1.34 1928 0.57	0207 1.54 0836 0.69 1422 1.22 2020 0.64	0308 1.52 0951 0.71 1536 1.16 2120 0.69
9	10	11	12	13	14	15 ○
0410 1.53 1102 0.68 1650 1.17 2222 0.69	0507 1.56 1159 0.62 1750 1.22 2320 0.66	0557 1.61 1243 0.55 1837 1.28	0009 0.62 0641 1.66 1320 0.49 1917 1.34	0053 0.57 0720 1.70 1354 0.44 1954 1.40	0131 0.53 0757 1.74 1426 0.40 2029 1.44	0209 0.50 0832 1.75 1456 0.37 2102 1.48
16	17	18	19	20	21	22
0245 0.48 0906 1.74 1527 0.36 2135 1.52	0323 0.48 0940 1.71 1557 0.37 2210 1.55	0402 0.50 1015 1.66 1629 0.39 2246 1.56	0444 0.52 1052 1.59 1702 0.43 2325 1.57	0530 0.56 1132 1.50 1739 0.48	0009 1.56 0621 0.60 1219 1.40 1822 0.53	0100 1.56 0723 0.62 1317 1.32 1915 0.59
23 ●	24	25	26	27	28	
0201 1.56 0837 0.62 1431 1.26 2022 0.62	0312 1.60 0956 0.57 1554 1.27 2137 0.61	0422 1.68 1106 0.47 1708 1.33 2248 0.55	0526 1.79 1207 0.36 1810 1.44 2351 0.46	0623 1.88 1259 0.26 1904 1.54	0049 0.38 0717 1.95 1346 0.19 1955 1.64	

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NEWCASTLE							
LAT 32° 56' LONG 151° 47' TIME ZONE -1000							
TIMES AND HEIGHTS OF HIGH AND LOW WATERS							
MARCH – 2014							
SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.	
TIME M	TIME M	TIME M	TIME M	TIME M	TIME M	TIME M	TIME M
30	31 ●					1 ●	
0135 0.36 0749 1.82 1401 0.28 2019 1.82	0226 0.33 0838 1.77 1444 0.31 2102 1.86					0143 0.31 0808 1.96 1432 0.16 2043 1.72	
2	3	4	5	6	7	8 ●	
0236 0.29 0858 1.93 1515 0.18 2129 1.76	0328 0.30 0945 1.84 1558 0.24 2214 1.77	0419 0.35 1031 1.71 1639 0.34 2259 1.75	0511 0.43 1117 1.56 1719 0.45 2343 1.69	0604 0.52 1203 1.42 1800 0.56 2343 1.69	0029 1.62 0700 0.61 1253 1.30 1843 0.66	0118 1.55 0800 0.67 1351 1.21 1934 0.73	
9	10	11	12	13	14	15	
0216 1.50 0906 0.70 1502 1.17 2040 0.78	0321 1.48 1015 0.69 1620 1.19 2150 0.78	0426 1.50 1114 0.65 1721 1.25 2255 0.73	0521 1.54 1202 0.59 1809 1.33 2349 0.67	0609 1.59 1242 0.52 1849 1.41 2349 0.67	0034 0.61 0650 1.64 1316 0.47 1925 1.48	0114 0.55 0729 1.67 1348 0.43 1959 1.55	
16	17 ○	18	19	20	21	22	
0151 0.50 0804 1.69 1419 0.40 2031 1.61	0229 0.46 0941 1.68 1449 0.39 2105 1.66	0307 0.44 0917 1.66 1521 0.40 2140 1.70	0346 0.44 0956 1.61 1555 0.43 2216 1.72	0430 0.45 1036 1.55 1631 0.47 2257 1.71	0518 0.48 1121 1.47 1712 0.53 2341 1.69	0612 0.52 1213 1.39 1759 0.60	
23	24 ●	25	26	27	28	29	
0033 1.66 0714 0.55 1314 1.32 1857 0.66	0136 1.63 0824 0.86 1429 1.30 2009 0.69	0249 1.64 0937 0.52 1547 1.33 2128 0.67	0402 1.68 1044 0.45 1657 1.42 2240 0.60	0507 1.74 1141 0.38 1755 1.54 2344 0.51	0605 1.80 1231 0.31 1845 1.65	0042 0.42 0659 1.83 1318 0.28 1933 1.75	

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NEWCASTLE							
LAT 32° 56' LONG 151° 47' TIME ZONE -1000							
TIMES AND HEIGHTS OF HIGH AND LOW WATERS							
APRIL – 2014							
SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.	
TIME M	TIME M	TIME M	TIME M	TIME M	TIME M	TIME M	TIME M
		1	2	3	4	5	
		0315 0.33 0926 1.68 1524 0.38 2145 1.86	0404 0.37 1012 1.58 1602 0.47 2226 1.82	0452 0.44 1056 1.48 1641 0.56 2306 1.76	0540 0.51 1141 1.38 1719 0.66 2347 1.68	0629 0.59 1228 1.30 1801 0.74	
6	7 ●	8	9	10	11	12	
0032 1.60 0720 0.65 1321 1.25 1852 0.81	0124 1.53 0817 0.68 1426 1.23 1958 0.85	0226 1.48 0919 0.69 1537 1.26 2112 0.85	0333 1.47 1017 0.66 1641 1.32 2221 0.80	0435 1.50 1109 0.62 1730 1.40 2320 0.73	0527 1.53 1152 0.57 1812 1.49	0008 0.66 0613 1.57 1230 0.52 1848 1.58	
13	14	15 ○	16	17	18	19	
0050 0.58 0653 1.60 1303 0.48 1924 1.66	0130 0.51 0733 1.62 1336 0.46 1958 1.74	0209 0.46 0813 1.62 1410 0.45 2034 1.81	0249 0.41 0855 1.60 1446 0.45 2112 1.85	0333 0.39 0939 1.57 1525 0.48 2152 1.87	0419 0.39 1025 1.52 1607 0.53 2235 1.86	0510 0.41 1115 1.47 1654 0.59 2323 1.82	
20	21	22 ●	23	24	25	26	
0605 0.45 1211 1.42 1747 0.65	0017 1.76 0706 0.48 1315 1.38 1850 0.71	0120 1.71 0811 0.49 1425 1.39 2002 0.73	0231 1.67 0916 0.49 1536 1.45 2119 0.71	0343 1.67 1016 0.46 1639 1.54 2231 0.64	0447 1.68 1111 0.43 1734 1.65 2336 0.56	0545 1.69 1200 0.40 1824 1.75	
27	28	29 ●	30				
0034 0.48 0640 1.68 1246 0.40 1910 1.84	0126 0.42 0730 1.65 1329 0.42 1954 1.89	0215 0.39 0818 1.61 1410 0.46 2036 1.91	0301 0.39 0905 1.55 1449 0.52 2115 1.90				

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NEWCASTLE							
LAT 32° 56' LONG 151° 47' TIME ZONE -1000							
TIMES AND HEIGHTS OF HIGH AND LOW WATERS							
MAY - 2014							
SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.	
TIME M	TIME M	TIME M	TIME M	TIME M	TIME M	TIME M	TIME M
				1	2	3	
				0345 0.41	0429 0.46	0512 0.51	
				0950 1.49	1033 1.43	1116 1.38	
				1528 0.58	1605 0.65	1644 0.72	
				2155 1.87	2232 1.81	2311 1.73	
4	5	6	7 ☉	8	9	10	
0555 0.57	0640 0.62	0039 1.58	0134 1.52	0237 1.48	0341 1.47	0438 1.48	
1200 1.34	1249 1.32	0730 0.65	0824 0.66	0919 0.66	1010 0.63	1056 0.60	
1727 0.78	1816 0.83	1345 1.31	1446 1.33	1548 1.39	1641 1.47	1727 1.56	
2352 1.65		1916 0.87	2026 0.88	2138 0.85	2242 0.79	2335 0.70	
11	12	13	14	15 ☉	16	17	
0530 1.50	0022 0.61	0105 0.53	0148 0.44	0232 0.38	0319 0.34	0408 0.32	
1137 0.56	0615 1.53	0701 1.55	0746 1.56	0834 1.56	0924 1.55	1015 1.53	
1807 1.66	1215 0.53	1254 0.50	1333 0.49	1415 0.49	1501 0.51	1550 0.54	
	1845 1.75	1925 1.84	2005 1.92	2047 1.97	2132 1.99	2220 1.97	
18	19	20	21 ☉	22	23	24	
0500 0.34	0556 0.37	0006 1.84	0106 1.75	0213 1.67	0321 1.61	0427 1.57	
1109 1.50	1206 1.48	0653 0.41	0752 0.44	0850 0.47	0946 0.48	1039 0.49	
1643 0.59	1740 0.65	1307 1.48	1411 1.50	1515 1.55	1615 1.63	1711 1.71	
2311 1.92		1844 0.70	1954 0.72	2108 0.71	2222 0.67	2328 0.61	
25	26	27	28	29 ☉	30	31	
0526 1.54	0026 0.54	0116 0.48	0202 0.45	0245 0.43	0325 0.44	0403 0.46	
1128 0.50	0621 1.52	0712 1.50	0800 1.48	0845 1.46	0928 1.44	1009 1.42	
1800 1.79	1214 0.51	1257 0.54	1338 0.56	1417 0.60	1457 0.64	1535 0.68	
	1846 1.85	1930 1.89	2011 1.91	2049 1.90	2126 1.87	2202 1.82	

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NEWCASTLE							
LAT 32° 56' LONG 151° 47' TIME ZONE -1000							
TIMES AND HEIGHTS OF HIGH AND LOW WATERS							
JUNE - 2014							
SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.	
TIME M	TIME M	TIME M	TIME M	TIME M	TIME M	TIME M	TIME M
1	2	3	4	5	6 ☉	7	
0442 0.50	0520 0.53	0600 0.57	0000 1.62	0048 1.55	0144 1.48	0245 1.43	
1049 1.40	1130 1.38	1215 1.37	0645 0.60	0732 0.62	0822 0.63	0912 0.62	
1615 0.72	1657 0.76	1744 0.80	1303 1.37	1357 1.39	1453 1.43	1548 1.50	
2240 1.76	2318 1.69		1838 0.84	1940 0.86	2048 0.85	2157 0.80	
8	9	10	11	12	13 ☉	14	
0348 1.42	0446 1.42	0540 1.44	0041 0.51	0128 0.41	0215 0.32	0304 0.26	
1000 0.61	1046 0.58	1131 0.55	0632 1.47	0724 1.50	0815 1.53	0909 1.55	
1639 1.59	1725 1.69	1810 1.80	1216 0.52	1303 0.49	1352 0.47	1444 0.47	
2258 0.72	2352 0.62		1854 1.90	1940 1.98	2028 2.04	2116 2.07	
15	16	17	18	19	20 ☉	21	
0355 0.24	0445 0.25	0538 0.28	0632 0.34	0049 1.74	0151 1.61	0258 1.50	
1002 1.56	1057 1.56	1152 1.56	1249 1.56	0726 0.40	0820 0.46	0914 0.51	
1537 0.49	1632 0.53	1730 0.58	1833 0.63	1348 1.57	1449 1.60	1549 1.65	
2207 2.04	2259 1.97	2352 1.87		1941 0.68	2054 0.69	2210 0.68	
22	23	24	25	26	27 ☉	28	
0405 1.43	0508 1.39	0016 0.57	0105 0.52	0147 0.47	0226 0.45	0301 0.44	
1006 0.55	1058 0.57	0604 1.38	0656 1.38	0742 1.39	0824 1.40	0903 1.41	
1645 1.70	1737 1.76	1145 0.59	1230 0.59	1313 0.60	1353 0.61	1431 0.62	
2318 0.63		1825 1.80	1908 1.83	1947 1.85	2026 1.85	2101 1.84	
29	30						
0337 0.44	0412 0.45						
0942 1.41	1019 1.41						
1510 0.63	1549 0.65						
2137 1.81	2213 1.76						

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NEWCASTLE							
LAT 32° 56' LONG 151° 47' TIME ZONE -1000							
TIMES AND HEIGHTS OF HIGH AND LOW WATERS							
JULY - 2014							
SUN. TIME M	MON. TIME M	TUES. TIME M	WED. TIME M	THURS. TIME M	FRI. TIME M	SAT. TIME M	
		1	2	3	4	5 ●	
		0446 0.47	0523 0.50	0602 0.52	0009 1.55	0058 1.46	
		1059 1.41	1139 1.41	1222 1.42	0643 0.55	0728 0.58	
		1630 0.68	1714 0.72	1802 0.75	1310 1.43	1401 1.46	
		2248 1.70	2327 1.63	1858 0.79	2001 0.79		
6	7	8	9	10	11	12 ○	
0155 1.39	0300 1.34	0408 1.33	0511 1.36	0018 0.47	0109 0.35	0159 0.24	
0815 0.59	0907 0.59	1001 0.58	1056 0.54	0609 1.40	0705 1.46	0759 1.51	
1458 1.51	1553 1.58	1647 1.68	1739 1.79	1149 0.50	1243 0.45	1335 0.40	
2112 0.77	2221 0.70	2323 0.59		1830 1.90	1920 2.00	2011 2.07	
13	14	15	16	17	18	19 ●	
0247 0.17	0336 0.15	0425 0.16	0515 0.21	0604 0.29	0029 1.66	0127 1.50	
0852 1.56	0945 1.60	1037 1.62	1130 1.63	1224 1.62	0655 0.38	0746 0.47	
1430 0.38	1524 0.39	1620 0.42	1717 0.48	1818 0.55	1320 1.61	1419 1.61	
2101 2.09	2152 2.05	2243 1.96	2335 1.82	1924 0.62	2037 0.66		
20	21	22	23	24	25	26	
0232 1.37	0343 1.28	0451 1.26	0003 0.58	0049 0.52	0129 0.47	0203 0.43	
0839 0.55	0934 0.60	1030 0.62	0549 1.27	0639 1.30	0723 1.34	0802 1.37	
1520 1.62	1619 1.64	1715 1.67	1122 0.62	1210 0.60	1253 0.58	1333 0.56	
2154 0.66	2305 0.63		1803 1.71	1846 1.74	1927 1.77	2003 1.78	
27 ●	28	29	30	31			
0236 0.40	0308 0.39	0341 0.39	0413 0.40	0446 0.42			
0839 1.40	0915 1.42	0950 1.44	1026 1.45	1103 1.46			
1411 0.55	1448 0.55	1527 0.56	1606 0.58	1647 0.61			
2038 1.78	2113 1.77	2146 1.73	2221 1.67	2258 1.59			

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NEWCASTLE							
LAT 32° 56' LONG 151° 47' TIME ZONE -1000							
TIMES AND HEIGHTS OF HIGH AND LOW WATERS							
AUGUST - 2014							
SUN. TIME M	MON. TIME M	TUES. TIME M	WED. TIME M	THURS. TIME M	FRI. TIME M	SAT. TIME M	
					1	2	
					0521 0.45	0559 0.49	
					1143 1.46	1227 1.47	
					1733 0.65	1824 0.69	
					2337 1.51		
3	4 ●	5	6	7	8	9	
0022 1.41	0116 1.33	0224 1.27	0340 1.25	0450 1.29	0552 1.36	0050 0.27	
0639 0.53	0727 0.56	0824 0.58	0927 0.57	1031 0.53	1131 0.46	0649 1.45	
1315 1.48	1412 1.51	1514 1.56	1615 1.65	1715 1.76	1810 1.88	1228 0.39	
1924 0.71	2035 0.70	2150 0.64	2259 0.53	2358 0.40		1903 1.98	
10	11 ○	12	13	14	15	16	
0139 0.17	0226 0.10	0313 0.09	0400 0.12	0445 0.19	0532 0.29	0007 1.53	
0742 1.54	0833 1.61	0924 1.66	1015 1.69	1104 1.70	1155 1.67	0619 0.40	
1323 0.32	1417 0.29	1511 0.28	1606 0.32	1703 0.39	1802 0.47	1247 1.63	
1954 2.04	2045 2.04	2135 1.98	2225 1.86	2315 1.71		1905 0.56	
17 ●	18	19	20	21	22	23	
0102 1.37	0207 1.25	0320 1.18	0432 1.18	0531 1.22	0024 0.51	0101 0.45	
0709 0.51	0802 0.60	0902 0.65	1003 0.66	1101 0.64	0619 1.27	0700 1.33	
1344 1.59	1445 1.56	1548 1.55	1647 1.57	1739 1.61	1152 0.60	1236 0.56	
2016 0.62	2131 0.64	2242 0.62	2339 0.57		1823 1.65	1903 1.68	
24	25	26 ●	27	28	29	30	
0135 0.40	0206 0.37	0236 0.35	0306 0.34	0337 0.35	0409 0.38	0443 0.41	
0737 1.39	0812 1.43	0845 1.47	0919 1.50	0954 1.53	1030 1.54	1107 1.54	
1315 0.52	1353 0.49	1430 0.47	1507 0.47	1545 0.48	1627 0.51	1711 0.54	
1939 1.71	2014 1.71	2047 1.70	2121 1.66	2157 1.61	2233 1.53	2313 1.45	

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NEWCASTLE							
LAT 32° 56' LONG 151° 47' TIME ZONE -1000							
TIMES AND HEIGHTS OF HIGH AND LOW WATERS							
SEPTEMBER – 2014							
SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.	
TIME M	TIME M	TIME M	TIME M	TIME M	TIME M	TIME M	TIME M
	1	2 ●	3	4	5	6	
	0600 0.51 1237 1.53 1900 0.61	0054 1.27 0651 0.56 1333 1.53 2010 0.61	0204 1.22 0753 0.59 1440 1.55 2127 0.56	0323 1.22 0905 0.59 1550 1.62 2236 0.46	0436 1.29 1015 0.53 1654 1.72 2335 0.34	0538 1.39 1119 0.45 1752 1.83	
7	8	9 ○	10	11	12	13	
0028 0.22 0633 1.50 1217 0.35 1845 1.91	0115 0.14 0724 1.61 1313 0.27 1937 1.94	0200 0.09 0813 1.70 1406 0.23 2027 1.92	0245 0.10 0900 1.75 1500 0.22 2116 1.84	0330 0.15 0948 1.78 1553 0.26 2206 1.72	0414 0.24 1036 1.77 1647 0.33 2255 1.57	0458 0.35 1123 1.72 1744 0.42 2345 1.42	
14	15	16 ●	17	18	19	20	
0543 0.46 1212 1.65 1843 0.51	0040 1.28 0630 0.57 1304 1.58 1947 0.58	0142 1.19 0724 0.66 1401 1.51 2056 0.61	0254 1.15 0827 0.71 1506 1.48 2202 0.61	0407 1.17 0934 0.71 1609 1.48 2259 0.57	0505 1.23 1037 0.68 1705 1.51 2345 0.51	0552 1.30 1131 0.62 1752 1.55	
21	22	23	24 ●	25	26	27	
0023 0.45 0632 1.38 1217 0.56 1833 1.59	0058 0.40 0708 1.45 1258 0.50 1911 1.62	0129 0.37 0742 1.51 1336 0.45 1946 1.63	0200 0.35 0815 1.56 1413 0.42 2021 1.61	0230 0.34 0848 1.61 1450 0.40 2058 1.58	0300 0.35 0922 1.64 1529 0.40 2134 1.54	0333 0.38 0959 1.66 1611 0.41 2215 1.47	
28	29	30					
0409 0.42 1037 1.65 1656 0.44 2258 1.40	0448 0.48 1119 1.63 1746 0.47 2346 1.32	0533 0.54 1208 1.60 1845 0.50					

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NEWCASTLE							
LAT 32° 56' LONG 151° 47' TIME ZONE -1000							
TIMES AND HEIGHTS OF HIGH AND LOW WATERS							
OCTOBER – 2014							
SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.	
TIME M	TIME M	TIME M	TIME M	TIME M	TIME M	TIME M	TIME M
			1	2 ●	3	4	
			0045 1.26 0629 0.59 1306 1.58 1953 0.51	0157 1.23 0736 0.63 1415 1.57 2105 0.47	0315 1.26 0852 0.62 1527 1.61 2212 0.40	0423 1.35 1005 0.55 1633 1.67 2310 0.31	
5	6	7	8 ○	9	10	11	
0522 1.47 1110 0.46 1733 1.74	0000 0.23 0615 1.59 1210 0.36 1827 1.78	0047 0.18 0703 1.71 1304 0.28 1919 1.79	0131 0.16 0750 1.79 1358 0.23 2009 1.75	0215 0.19 0837 1.84 1449 0.22 2059 1.67	0258 0.25 0922 1.86 1541 0.25 2147 1.57	0341 0.34 1007 1.83 1631 0.31 2236 1.45	
12	13	14	15	16 ●	17	18	
0423 0.44 1051 1.77 1723 0.39 2325 1.35	0506 0.55 1135 1.68 1815 0.47	0016 1.26 0551 0.64 1221 1.59 1910 0.54	0113 1.20 0644 0.72 1313 1.50 2008 0.58	0217 1.18 0746 0.76 1412 1.44 2108 0.59	0326 1.20 0857 0.77 1516 1.42 2204 0.57	0426 1.27 1004 0.73 1618 1.43 2253 0.53	
19	20	21	22	23	24 ●	25	
0515 1.35 1103 0.67 1712 1.46 2335 0.48	0556 1.44 1153 0.59 1757 1.49	0013 0.44 0633 1.52 1237 0.52 1838 1.52	0046 0.40 0708 1.60 1316 0.46 1916 1.53	0118 0.38 0742 1.67 1355 0.40 1955 1.53	0151 0.38 0817 1.73 1434 0.36 2035 1.51	0225 0.38 0853 1.77 1515 0.34 2116 1.48	
26	27	28	29	30	31 ●		
0302 0.41 0931 1.79 1558 0.33 2200 1.44	0342 0.45 1014 1.78 1645 0.35 2248 1.39	0427 0.50 1058 1.75 1737 0.37 2342 1.34	0518 0.57 1148 1.71 1834 0.40	0043 1.31 0617 0.62 1245 1.65 1937 0.41	0150 1.31 0726 0.65 1352 1.61 2042 0.40		

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Add one hour to the times when Daylight Saving Time is in force

NEWCASTLE						
LAT 32° 56' LONG 151° 47' TIME ZONE -1000						
TIMES AND HEIGHTS OF HIGH AND LOW WATERS						
NOVEMBER – 2014						
SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.
TIME M	TIME M	TIME M	TIME M	TIME M	TIME M	TIME M
30 0241 1.46 0827 0.64 1440 1.56 2114 0.38						1 0301 1.36 0841 0.64 1504 1.60 2144 0.37
2 0406 1.45 0954 0.59 1612 1.60 2240 0.33	3 0502 1.57 1102 0.50 1713 1.62 2330 0.29	4 0554 1.68 1203 0.41 1809 1.62 2330 0.29	5 0017 0.27 0643 1.78 1259 0.33 1902 1.61	6 0102 0.28 0729 1.86 1350 0.28 1953 1.57	7 ☉ 0145 0.32 0814 1.90 1440 0.26 2042 1.52	8 0228 0.37 0857 1.90 1527 0.28 2130 1.45
9 0309 0.45 0939 1.86 1613 0.32 2216 1.39	10 0350 0.53 1020 1.80 1658 0.38 2302 1.33	11 0431 0.60 1100 1.72 1743 0.44 2348 1.28	12 0515 0.68 1141 1.63 1828 0.50 2302 1.33	13 0038 1.25 0604 0.74 1225 1.54 1916 0.54	14 0133 1.24 0701 0.78 1316 1.46 2009 0.57	15 ☉ 0234 1.26 0808 0.80 1416 1.41 2103 0.56
16 0334 1.32 0919 0.78 1520 1.38 2155 0.54	17 0428 1.39 1025 0.73 1621 1.38 2242 0.51	18 0514 1.48 1122 0.65 1715 1.40 2323 0.48	19 0555 1.58 1211 0.57 1801 1.42 2323 0.48	20 0001 0.45 0632 1.67 1255 0.48 1846 1.43	21 0038 0.43 0710 1.75 1336 0.40 1930 1.45	22 ☉ 0115 0.42 0748 1.82 1418 0.33 2015 1.45
23 0155 0.41 0829 1.88 1501 0.28 2100 1.45	24 0237 0.42 0912 1.91 1546 0.26 2149 1.44	25 0323 0.45 0957 1.91 1634 0.26 2240 1.42	26 0413 0.50 1044 1.87 1726 0.27 2334 1.40	27 0508 0.55 1134 1.81 1819 0.31 2334 1.40	28 0032 1.39 0608 0.60 1230 1.72 1916 0.34	29 ☉ 0136 1.41 0715 0.63 1331 1.64 2015 0.36

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NEWCASTLE						
LAT 32° 56' LONG 151° 47' TIME ZONE -1000						
TIMES AND HEIGHTS OF HIGH AND LOW WATERS						
DECEMBER – 2014						
SUN.	MON.	TUES.	WED.	THURS.	FRI.	SAT.
TIME M	TIME M	TIME M	TIME M	TIME M	TIME M	TIME M
	1 0344 1.53 0942 0.62 1548 1.50 2209 0.38	2 0441 1.63 1054 0.55 1653 1.47 2300 0.39	3 0533 1.72 1158 0.48 1753 1.46 2349 0.39	4 0623 1.80 1254 0.40 1847 1.44 2349 0.39	5 0035 0.41 0709 1.86 1344 0.35 1939 1.43	6 ☉ 0118 0.43 0753 1.89 1430 0.32 2027 1.41
7 0200 0.47 0835 1.89 1512 0.32 2112 1.39	8 0242 0.51 0915 1.86 1552 0.34 2155 1.36	9 0322 0.56 0953 1.82 1631 0.37 2236 1.34	10 0401 0.61 1030 1.75 1709 0.41 2317 1.32	11 0443 0.66 1107 1.68 1747 0.46 2317 1.32	12 0000 1.31 0528 0.71 1145 1.59 1829 0.49	13 0047 1.31 0619 0.75 1230 1.51 1914 0.53
14 ☉ 0140 1.32 0718 0.79 1320 1.43 2002 0.55	15 0237 1.35 0826 0.79 1420 1.36 2054 0.55	16 0333 1.41 0937 0.77 1525 1.32 2145 0.55	17 0426 1.49 1044 0.70 1628 1.31 2232 0.53	18 0513 1.58 1141 0.62 1725 1.32 2318 0.50	19 0558 1.68 1230 0.51 1817 1.35 2318 0.50	20 0001 0.47 0641 1.78 1316 0.41 1907 1.39
21 0046 0.44 0724 1.88 1401 0.31 1956 1.43	22 ☉ 0131 0.41 0809 1.95 1446 0.23 2045 1.46	23 0219 0.40 0856 1.99 1532 0.19 2136 1.48	24 0310 0.40 0943 2.00 1620 0.17 2227 1.49	25 0402 0.43 1031 1.96 1709 0.19 2320 1.50	26 0458 0.47 1122 1.87 1800 0.23 2320 1.50	27 0015 1.50 0557 0.53 1215 1.75 1851 0.30
28 0113 1.51 0700 0.59 1312 1.62 1945 0.36	29 ☉ 0214 1.53 0811 0.63 1415 1.49 2041 0.42	30 0316 1.58 0928 0.63 1526 1.39 2137 0.46	31 0417 1.63 1045 0.60 1635 1.33 2232 0.49			

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