

# TIDES : DAILY HIGH AND LOW WATERS

Station.....PAKPANANG.....Month.....OCTOBER.....Year...2016.....

Date	HIGH WATER					Moon's Phase	Date	LOW WATER					Remark
	Higher H.W.		Lower H.W.					Higher L.W.		Lower L.W.			
	Time	Height	Time	Height				Time	Height	Time	Height		
	h	m	meter	h	m			meter	h	m	meter	h	
1	0150	2.69	1430	2.63	●	1	2020	2.15	0810	2.10			
2	1450	2.73	0210	2.71		2	2050	2.16	0800	2.11			
3	1430	2.81	0250	2.64		3	2210	2.22	0850	2.12			
4	1510	2.82	0310	2.67		4	2240	2.17	0910	2.12			
5	1510	2.95	0340	2.67		5	-	-	0930	2.16			
6	1550	2.84	0430	2.61		6	0000	2.21	1950	2.10			
7	1610	2.80	0500	2.41		7	0030	2.08	0950	2.00			
8	1640	2.75	0550	2.37		8	0050	2.10	1010	2.03			
9	1830	2.68	-	-	☾	9	-	-	1030	1.90			
10	1850	2.75	-	-		10	-	-	1110	1.96			
11	1910	2.81	-	-		11	-	-	0430	2.06			
12	1950	2.83	1030	2.38		12	1350	2.20	0530	2.16			
13	2050	2.96	-	-		13	-	-	0620	2.16			
14	2330	2.94	1130	2.66		14	1710	2.34	0630	2.24			
15	1230	2.81	-	-		15	0630	2.30	1830	2.28			
16	1310	2.96	0020	2.88	○	16	2020	2.29	0700	2.25			
17	1330	2.98	0110	2.88		17	0800	2.23	2110	2.22			
18	1420	3.08	0210	2.81		18	2220	2.20	0830	2.16			
19	1450	3.18	0250	2.68		19	2330	2.26	0850	2.14			
20	1550	3.11	0350	2.72		20	-	-	0950	2.15			
21	1640	3.15	0450	2.60		21	0020	2.24	0950	2.14			
22	1730	2.94	-	-		22	-	-	1010	1.98			
23	1840	2.77	-	-	☾	23	-	-	1030	1.88			
24	1920	2.91	-	-		24	-	-	0320	2.08			
25	2050	2.86	-	-		25	-	-	0530	2.18			
26	2110	2.91	1050	2.60		26	1430	2.38	0510	2.24			
27	2310	2.81	1150	2.66		27	1610	2.35	0610	2.24			
28	1210	2.83	2330	2.80		28	1930	2.34	0610	2.23			
29	1250	2.99	-	-		29	1830	2.47	0450	2.37			
30	1230	3.15	0130	2.91		30	1930	2.54	0700	2.44			
31	1300	2.99	0030	2.94	●	31	0810	2.30	2210	2.22			
Monthly						Monthly							
Sum		89.79		56.23		Sum		47.53		66.42			
Mean						Mean							
mean MSL						mean MSL							
H'est HW	=	3.180				L'est LW	=	1.880					
MHHW	=	2.896				MLLW	=	2.143					
MLHW	=	2.678				MHLW	=	2.263					
MHW	=	2.808				MLW	=	2.191					
M.S.L.	=	2.469				M.T.L.	=	2.500					
MHWS	=	2.842				MLWS	=	2.231					
MHWN	=	2.760				MLWN	=	2.019					
Mn.sp.range	=	0.612				Sp.range							
Mn.np.range	=	0.741				Np.range							
Mn.range	=	0.617											