

# TIDES : DAILY HIGH AND LOW WATERS

Month.....JULY.....Station.....PAKPANANG.....Year...2015.....

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 m	meter	
1	0020	2.78	1350	2.18		1	1050	1.92	1720	1.77	
2	0130	2.76	1430	2.07	☉	2	-	-	1030	1.78	
3	0150	2.71	-	-		3	-	-	-	-	
4	0240	2.80	1510	2.14		4	-	-	1100	1.78	
5	0320	2.68	1620	2.08		5	-	-	-	-	
6	0410	2.77	1650	2.29		6	1230	2.03	2110	1.82	
7	0420	2.86	1740	2.27		7	1340	1.95	2210	1.78	
8	0540	2.62	1850	2.28		8	2310	1.92	1210	1.83	
9	0620	2.56	1950	2.39	☾	9	-	-	1250	1.89	
10	2040	2.47	0530	2.40		10	0020	2.04	1340	1.80	
11	2130	2.62	0630	2.38		11	0310	2.15	1410	1.92	
12	2230	2.75	-	-		12	-	-	1420	1.94	
13	2330	2.92	-	-		13	-	-	1530	1.97	
14	-	-	-	-		14	-	-	1710	1.96	
15	0010	2.83	1450	2.10		15	1750	1.82	1110	1.80	
16	0110	2.88	1510	2.21	●	16	1150	1.96	1830	1.88	
17	0140	2.96	1510	2.33		17	1220	2.10	1850	1.95	
18	0230	2.97	1610	2.34		18	1210	2.04	1950	1.94	
19	0330	2.86	1600	2.30		19	1250	2.02	2040	1.94	
20	0340	2.90	1710	2.34		20	1230	2.04	2140	2.00	
21	0420	2.84	1720	2.58		21	2150	2.18	1210	2.14	
22	0450	2.80	1750	2.38		22	2230	2.12	1230	1.97	
23	0510	2.72	1840	2.52		23	-	-	1230	2.04	
24	0520	2.58	1930	2.52	☾	24	-	-	1250	1.94	
25	1940	2.60	0530	2.50		25	0040	2.25	1310	1.97	
26	2150	2.70	-	-		26	-	-	1330	1.93	
27	2210	2.72	-	-		27	-	-	1350	2.00	
28	2230	2.87	-	-		28	-	-	1450	1.97	
29	2330	2.94	-	-		29	-	-	1610	2.08	
30	-	-	-	-		30	-	-	1730	1.95	
31	0050	2.95	-	-	☉	31	-	-	1750	1.86	
Monthly						Monthly					
Sum		80.42		48.6		Sum		30.54		55.6	
Mean						Mean					
mean MSL						mean MSL					
H' est HW	=	2.970				L' est LW	=	1.770			
MHHW	=	2.773				MLLW	=	1.917			
MLHW	=	2.314				MHLW	=	2.036			
MHW	=	2.580				MLW	=	1.958			
M.S.L.	=	2.307				M.T.L.	=	2.269			
MHWS	=	2.051				MLWS	=	1.475			
MHWN	=	2.524				MLWN	=	1.973			
Mn.sp.range	=	0.576				Sp.range					
Mn.np.range	=	0.551				Np.range					
Mn.range	=	0.623									