

MANILA NORTH HARBOR

LAT 14° 36'N LONG 120° 57'E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

May				June				July				August			
Time		Ht.		Time		Ht.		Time		Ht.		Time		Ht.	
h. min.		m.		h. min.		m.		h. min.		m.		h. min.		m.	
1	03 03	-0.10		16	02 21	0.08		1	08 00	1.12		1	09 06	1.48	
MON	18 43	0.61		TUE	08 45	0.61		FRI	17 05	-0.01		TUE	18 03	-0.15	
					14 11	0.38									
					20 08	0.63									
2	03 21	-0.04		17	02 39	0.20		2	08 34	1.26		2	09 57	1.53	
TUE	10 10	0.44		WED	08 56	0.75		SUN	17 27	-0.16		WED	18 48	-0.13	
	14 24	0.33			15 48	0.21									
	20 12	0.55			21 34	0.52									
3	03 24	0.04		18	02 41	0.30		3	09 14	1.38		3	10 48	1.51	
WED	09 52	0.54		THU	09 11	0.89		MON	18 13	-0.22		THU	19 29	-0.07	
	15 42	0.20			16 50	0.04									
	21 23	0.50			22 51	0.43									
4	03 18	0.12		19	02 15	0.35		4	09 58	1.46		4	11 36	1.41	
THU	09 52	0.67		FRI	09 30	0.99		TUE	19 06	-0.24		FRI	20 05	0.03	
	16 36	0.07			17 39	-0.09									
	22 23	0.45													
5	03 09	0.20		20	00 21	0.37		5	10 47	1.49		5	02 19	0.45	
FRI	10 02	0.79		SAT	01 34	0.36		WED	20 00	-0.22		SAT	03 58	0.44	
	17 23	-0.06			09 54	1.06							12 25	1.26	
	23 24	0.40			18 25	-0.17							20 32	0.14	
6	03 02	0.26		21	10 24	1.10		6	11 39	1.47		6	02 36	0.56	
SAT	10 15	0.91		SUN	19 11	-0.21		THU	20 52	-0.18		SUN	06 00	0.49	
	18 09	-0.17											13 15	1.07	
													20 50	0.26	
7	00 33	0.34		22	11 02	1.10		7	12 30	1.39		7	02 58	0.69	
SUN	02 58	0.30		MON	20 00	-0.22		FRI	21 34	-0.10		MON	07 59	0.48	
	10 33	1.02											14 08	0.86	
	19 01	-0.24											20 57	0.37	
8	11 00	1.10		23	11 46	1.09		8	13 21	1.25		8	03 23	0.82	
MON	20 00	-0.28		TUE	20 54	-0.22		SAT	22 06	0.01		TUE	09 36	0.42	
													15 10	0.66	
													20 58	0.44	
9	11 37	1.15		24	12 36	1.06		9	14 09	1.06		9	03 54	0.92	
TUE	21 08	-0.29		WED	21 54	-0.20		SUN	22 24	0.14		WED	11 17	0.36	
													13 57	0.51	
													20 52	0.48	
10	12 29	1.18		25	13 24	1.03		10	05 34	0.63		10	04 34	1.00	
WED	22 24	-0.29		THU	22 52	-0.18		MON	08 49	0.55		THU	13 32	0.28	
									14 59	0.85					
									22 30	0.26					
11	13 31	1.17		26	14 09	0.98		11	05 45	0.76		11	05 24	1.04	
THU	23 34	-0.26		FRI	23 44	-0.15		TUE	10 59	0.50		FRI	15 08	0.18	
									16 01	0.63					
									22 26	0.35					
12	14 35	1.14		27	14 51	0.90		12	06 06	0.89		12	06 24	1.08	
FRI				SAT				WED	11 16	0.55		SAT	16 11	0.10	
									15 26	0.61					
									22 59	0.23					
13	00 31	-0.22		28	00 27	-0.10		13	07 03	0.67		13	07 29	1.12	
SAT	15 39	1.05		SUN	15 29	0.80		WED	14 26	0.42		SUN	16 59	0.03	
									16 56	0.44					
									22 32	0.31					
14	01 18	-0.14		29	00 58	-0.03		14	07 09	0.82		14	08 29	1.17	
SUN	16 47	0.92		MON	16 14	0.66		THU	15 32	0.25		MON	17 40	-0.01	
									20 39	0.35					
									21 49	0.35					
15	01 54	-0.04		30	01 15	0.06		15	07 53	1.14		15	09 19	1.22	
MON	08 51	0.49		TUE	09 25	0.54		SAT	17 06	0.00		TUE	18 16	-0.03	
	10 53	0.47			13 31	0.47									
	18 18	0.77			17 31	0.52									
				31	01 19	0.15						31	08 15	1.38	
				WED	08 46	0.64						MON	17 19	-0.13	
					15 22	0.31									
					19 46	0.42									

TIME MERIDIAN 120 DEG. EAST. 0000 IS MIDNIGHT, 1200 IS NOON

HEIGHTS ARE IN METERS AND RECKONED FROM THE DATUM OF SOUNDINGS ON CHARTS OF THE LOCALITY WHICH IS MEAN LOWER LOW WATER