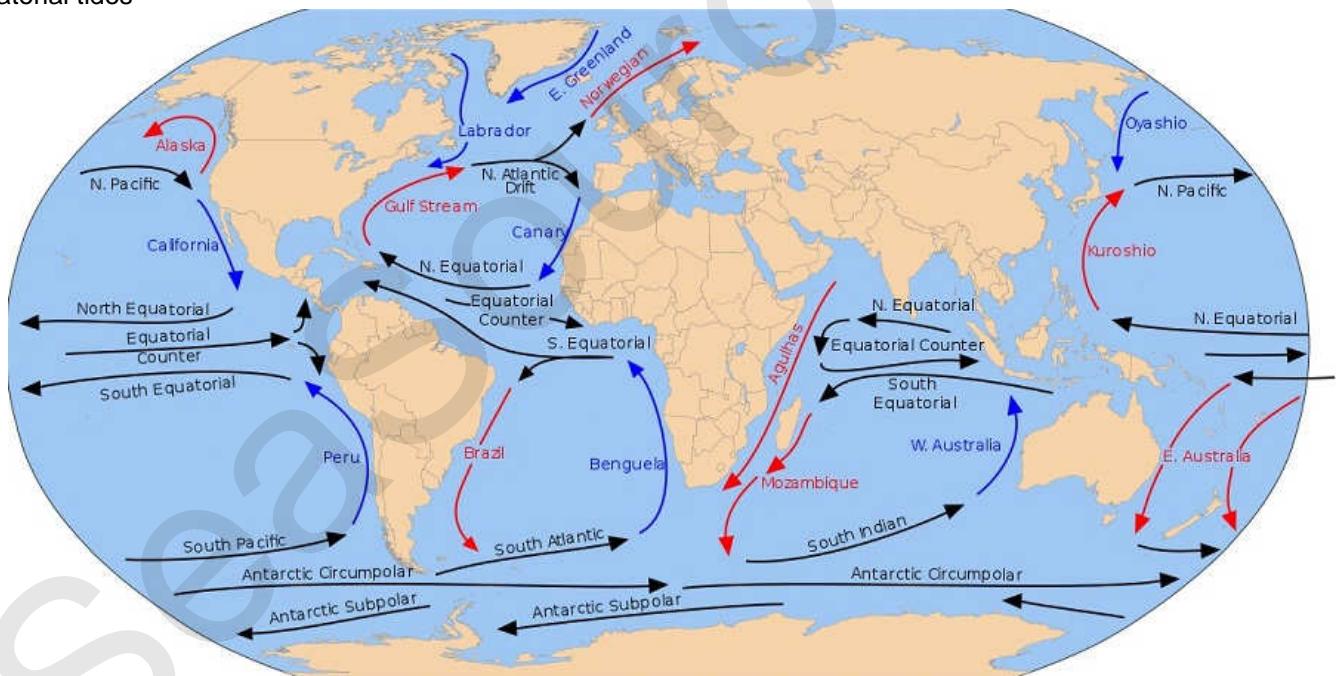


equatorial tides



ocean\_currents







TABLE 3.—HEIGHT OF TIDE AT ANY TIME

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		Time from the nearest high water or low water																	
		Duration of rise or fall, sec footnote																	
		Correction to height																	
Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.
0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2
1.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.4	0.4	0.5
1.5	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.8	0.9
2.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2
2.5	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2		
3.0	0.0	0.0	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.8	0.9	1.0	1.2	1.3	1.5			
3.5	0.0	0.0	0.1	0.2	0.2	0.3	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.4	1.6	1.8			
4.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	1.0	1.2	1.4	1.6	1.8	2.0			
4.5	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.0	2.2			
5.0	0.0	0.1	0.1	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.5	1.7	1.9	2.0	2.2	2.5			
5.5	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.4	1.6	1.9	2.2	2.5			
6.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.4	2.7			
6.5	0.0	0.1	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	1.9	2.2	2.6	2.9	3.2			
7.0	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.2	1.4	1.8	2.1	2.4	2.8	3.1	3.5	3.8			
7.5	0.0	0.1	0.2	0.3	0.5	0.7	1.0	1.2	1.5	1.9	2.2	2.6	3.0	3.4	3.8				
8.0	0.0	0.1	0.2	0.3	0.5	0.8	1.0	1.3	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4			
8.5	0.0	0.1	0.2	0.4	0.6	0.8	1.1	1.4	1.8	2.1	2.5	2.9	3.4	3.8	4.2				
9.0	0.0	0.1	0.2	0.4	0.6	0.9	1.2	1.5	1.9	2.2	2.7	3.1	3.6	4.0	4.5				
9.5	0.0	0.1	0.2	0.4	0.6	0.9	1.2	1.6	2.0	2.4	2.8	3.3	3.8	4.3	4.8				
10.0	0.0	0.1	0.2	0.4	0.7	1.0	1.3	1.7	2.1	2.5	3.0	3.5	4.0	4.5	5.0				
10.5	0.0	0.1	0.3	0.5	0.7	1.0	1.3	1.7	2.2	2.6	3.1	3.6	4.2	4.7	5.2				
11.0	0.0	0.1	0.3	0.5	0.7	1.1	1.4	1.8	2.3	2.8	3.3	3.8	4.4	4.9	5.5				
11.5	0.0	0.1	0.3	0.5	0.8	1.1	1.5	1.9	2.4	2.9	3.4	4.0	4.6	5.1	5.8				
12.0	0.0	0.1	0.3	0.5	0.8	1.1	1.5	2.0	2.5	3.0	3.6	4.1	4.8	5.4	6.0				
12.5	0.0	0.1	0.3	0.5	0.8	1.2	1.6	2.1	2.6	3.1	3.7	4.3	5.0	5.6	6.2				
13.0	0.0	0.1	0.3	0.6	0.9	1.2	1.7	2.2	2.7	3.2	3.9	4.5	5.1	5.8	6.5				
13.5	0.0	0.1	0.3	0.6	0.9	1.3	1.7	2.2	2.8	3.4	4.0	4.7	5.3	6.0	6.8				
14.0	0.0	0.2	0.3	0.6	0.9	1.3	1.8	2.3	2.9	3.5	4.2	4.8	5.5	6.3	7.0				
14.5	0.0	0.2	0.4	0.6	1.0	1.4	1.9	2.4	3.0	3.6	4.3	5.0	5.7	6.3	7.2				
15.0	0.0	0.2	0.4	0.6	1.0	1.4	1.9	2.5	3.1	3.8	4.4	5.2	5.9	6.7	7.5				
15.5	0.0	0.2	0.4	0.7	1.0	1.5	2.0	2.6	3.2	3.9	4.6	5.4	6.1	6.9	7.8				
16.0	0.0	0.2	0.4	0.7	1.1	1.5	2.1	2.6	3.3	4.0	4.7	5.5	6.3	7.2	8.0				
16.5	0.0	0.2	0.4	0.7	1.1	1.6	2.1	2.7	3.4	4.1	4.9	5.7	6.5	7.4	8.2				
17.0	0.0	0.2	0.4	0.7	1.1	1.6	2.2	2.8	3.5	4.2	5.0	5.9	6.7	7.6	8.5				
17.5	0.0	0.2	0.4	0.8	1.2	1.7	2.2	2.9	3.6	4.4	5.2	6.0	6.9	7.8	8.8				
18.0	0.0	0.2	0.4	0.8	1.2	1.7	2.3	3.0	3.7	4.5	5.3	6.2	7.1	8.1	9.0				
18.5	0.1	0.2	0.5	0.8	1.2	1.8	2.4	3.1	3.8	4.6	5.5	6.4	7.3	8.3	9.2				
19.0	0.1	0.2	0.5	0.8	1.3	1.9	2.4	3.1	3.9	4.8	5.6	6.6	7.5	8.5	9.5				
19.5	0.1	0.2	0.5	0.8	1.3	1.9	2.5	3.2	4.0	4.9	5.8	6.7	7.7	8.7	9.8				
20.0	0.1	0.2	0.5	0.9	1.3	1.9	2.6	3.3	4.1	5.0	5.9	6.9	7.9	9.0	10.0				

Obtain from the predictions the high water and low water, one of which is before and the other after the time for which the height is required. The difference between the times of occurrence of these tides is the duration of rise or fall, and the difference between their heights is the range of tide for the above table. Find the difference between the nearest high or low water and the time for which the height is required.

Enter the table with the duration of rise or fall, printed in heavy-faced type, which most nearly agrees with the actual value, and on that horizontal line find the time from the nearest high or low water which agrees most nearly with the corresponding actual difference. The correction sought is in the column directly below, on the line with the range of tide.

When the nearest tide is high water, subtract the correction.

When the nearest tide is low water, add the correction.

































TABLE 3.—HEIGHT OF TIDE AT ANY TIME

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Time from the nearest high water or low water																	
Duration of rise or fall, see footnote																	
Correction to height																	
Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.	Ft.
0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
1.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
1.5	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
2.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.8	0.9
2.5	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2
3.0	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.6	0.8	0.9	1.0	1.2	1.3	1.5	
3.5	0.0	0.0	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1.0	1.2	1.4	1.6	1.8	
4.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	
4.5	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.7	1.9	2.0	2.2	
5.0	0.0	0.1	0.1	0.2	0.3	0.5	0.6	0.8	1.0	1.2	1.5	1.7	2.0	2.2	2.5		
5.5	0.0	0.1	0.1	0.2	0.4	0.5	0.7	0.9	1.1	1.4	1.6	1.9	2.2	2.5			
6.0	0.0	0.1	0.1	0.3	0.4	0.6	0.8	1.0	1.2	1.5	1.8	2.1	2.4				
6.5	0.0	0.1	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.6	1.9	2.2	2.6				
7.0	0.0	0.1	0.2	0.3	0.5	0.7	0.9	1.2	1.4	1.8	2.1	2.4					
7.5	0.0	0.1	0.2	0.3	0.5	0.7	1.0	1.2	1.5	1.9	2.2						
8.0	0.0	0.1	0.2	0.3	0.5	0.8	1.0	1.3	1.6	2.0	2.4						
8.5	0.0	0.1	0.2	0.4	0.6	0.8	1.1	1.4	1.8	2.1	2.5						
9.0	0.0	0.1	0.2	0.4	0.8	0.9	1.2	1.5	1.9	2.2	2.7						
9.5	0.0	0.1	0.2	0.4	0.6	0.9	1.2	1.6	2.0	2.4	2.8						
10.0	0.0	0.1	0.2	0.4	0.7	1.0	1.3	1.7	2.1	2.5	3.0						
10.5	0.0	0.1	0.3	0.5	0.7	1.0	1.3	1.7	2.2	2.6	3.1						
11.0	0.0	0.1	0.3	0.5	0.7	1.1	1.4	1.8	2.3	2.8	3.3						
11.5	0.0	0.1	0.3	0.5	0.8	1.1	1.5	1.9	2.4	2.9	3.4						
12.0	0.0	0.1	0.3	0.5	0.8	1.1	1.5	2.0	2.5	3.0	3.6						
12.5	0.0	0.1	0.3	0.5	0.8	1.2	1.6	2.1	2.6	3.1	3.7						
13.0	0.0	0.1	0.3	0.6	0.9	1.2	1.7	2.2	2.7	3.2	3.9						
13.5	0.0	0.1	0.3	0.6	0.9	1.3	1.7	2.2	2.8	3.4	4.0						
14.0	0.0	0.2	0.3	0.6	0.9	1.3	1.8	2.3	2.9	3.5	4.2						
14.5	0.0	0.2	0.4	0.6	1.0	1.4	1.9	2.4	3.0	3.8	4.3						
15.0	0.0	0.2	0.4	0.6	1.0	1.4	1.9	2.5	3.1	3.8	4.4						
15.5	0.0	0.2	0.4	0.7	1.0	1.5	2.0	2.6	3.2	3.9	4.6						
16.0	0.0	0.2	0.4	0.7	1.1	1.5	2.1	2.6	3.3	4.0	4.7						
16.5	0.0	0.2	0.4	0.7	1.1	1.6	2.1	2.7	3.4	4.1	4.9						
17.0	0.0	0.2	0.4	0.7	1.1	1.6	2.2	2.8	3.5	4.2	5.0						
17.5	0.0	0.2	0.4	0.8	1.2	1.7	2.2	2.9	3.6	4.4	5.2						
18.0	0.0	0.2	0.4	0.8	1.2	1.7	2.3	3.0	3.7	4.5	5.3						
18.5	0.1	0.2	0.5	0.8	1.2	1.8	2.4	3.1	3.8	4.6	5.5						
19.0	0.1	0.2	0.5	0.8	1.3	1.8	2.4	3.1	3.9	4.8	5.6						
19.5	0.1	0.2	0.5	0.8	1.3	1.9	2.5	3.2	4.0	4.9	5.8						
20.0	0.1	0.2	0.5	0.9	1.3	1.9	2.6	3.3	4.1	5.0	5.9						

Obtain from the predictions the high water and low water, one of which is before and the other after the time for which the height is required. The difference between the times of occurrence of these tides is the duration of rise or fall, and the difference between their heights is the range of tide for the above table. Find the difference between the nearest high or low water and the time for which the height is required.

Enter the table with the duration of rise or fall, printed in heavy-faced type, which most nearly agrees with the actual value, and on that horizontal line find the time from the nearest high or low water which agrees most nearly with the corresponding actual difference. The correction sought is in the column directly below, on the line with the range of tide.

When the nearest tide is high water, subtract the correction.

When the nearest tide is low water, add the correction.





1238. What will be the height of tide at Three Mile Harbor Entrance, Gardiners Bay, NY, at 0700 (ZD +5) on 14 Nov 1983?

Answers	1.1 feet (-0.3 meters)	1.9 feet (0.6 meters)	2.2 feet (0.7 meters)
Reference Station(New London, pg.443) Diff. at Sub. Station(Gardiners Bay, NY, 13995) (+)	High 4:11 0:00 Low 11:08 0:00 (-) 2:0 11:08	High 0.2 0.0 Low 0.0 0.2 (-) 0.2 0.2	Height 0.5 0.0 Low 0.0 0.5 (-) 0.5 0.5
Duration of Tide = 3:56 Time to Nearest (H or L) = 1:146 Range of Tide = 0.5 Correction From Table 3 = 0.3 Height of Tide = 0.5 Charted Depth = 0.5 Depth of Water = 0.5	Time = 0700 Desired time = 0700 Duration = 0:00 Time to nearest low = 4:11 Time to nearest high = 11:08		

tide1238

1248. On 6 July 1983, at 1520 DST (ZD +4) what will be the predicted height of tide at Newburgh, NY?

Answers	2.1 feet	3.7 feet	3.2 feet	0.4 feet
Reference Station(New York, pg.56) Diff. at Sub. Station(Newburgh, NY, 13455) (+) Corrected Time of Tide	High 4:12 1:00 Low 10:00 1:00 (-) 2:4 10:00	High 3.9 0.4 Low 0.4 2.4 (-) 2.4 0.6	Height 0.4 0.4 Low 0.0 0.6 (-) 0.6 0.6	Duration of Tide = 6:47 Time to Nearest (H or L) = 0:10 Range of Tide = 1.8 Correction From Table 3 = 0.0 Height of Tide = 0.0 Charted Depth = 0.0 Depth of Water = 0.0
DST = -1 hour from problem Desired time = 15:20 Duration = 0:47 Time to nearest low = 10:00 Time to nearest high = 15:27	Time = 1520 Desired time = 1520 Duration = 0:47 Time to nearest low = 10:00 Time to nearest high = 15:27			

tide1248

1260. On 26 February 1983, at 1750 EST (ZD +5) what will be the predicted height of tide at New Haven (city dock), CT?

Answers	-1.3 foot (-0.1 meter)	-1.6 foot (-0.5 meter)	1.3 feet (0.4 meter)	1.6 feet (0.5 meter)
Reference Station(Bridgeport, pg.48) Diff. at Sub. New Haven (city dock), CT, 12227) (+) Corrected Time of Tide	High 22:09 0:02 Low 18:33 0:02 (-) 6:47 18:33	High 0.7 0.7 Low 0.7 6.4 (-) 6.4 -1.3	Height 0.3 0.3 Low 0.0 -1.3 (-) 0.3 -1.3	Duration of Tide = 6:11 Time to Nearest (H or L) = 1:20 Range of Tide = 0.7 Correction From Table 3 = 0.7 Height of Tide = 0.0 Charted Depth = 0.0 Depth of Water = 0.0
Desired time = 1750 Duration = 0:11 Time to nearest low = 18:33 Time to nearest high = 22:00	Time = 1750 Desired time = 1750 Duration = 0:11 Time to nearest low = 18:33 Time to nearest high = 22:00			

tide1260

1279. For 3 November 1983, at 0830 EST (ZD +5) at Catskill, NY, what is the predicted height of tide?

Answers	+0.1 Foot (+0.0 m)	-0.6 Foot (-0.2 m)	+0.9 foot (+0.3 m)	-1.3 feet (-0.4 m)
Reference Station(New York, pg.56) Diff. at Sub. Station(Catskill, NY, 15227) (+) Corrected Time of Tide	High 6:49 6:37 Low 0:33 6:55 (-) 5:16 0:33	High 5.5 0.7 Low 0.7 4.8 (-) 4.8 -1.3	Height 0.3 0.3 Low 0.0 -1.3 (-) 0.3 -1.3	Duration of Tide = 5:58 Time to Nearest (H or L) = 1:02 Range of Tide = 5.8 Correction From Table 3 = 0.4 Height of Tide = 0.0 Charted Depth = 0.0 Depth of Water = 0.0
Desired time = 0830 Duration = 0:18 Time to nearest low = 0:09 Time to nearest high = 4:56	Time = 0830 Desired time = 0830 Duration = 0:18 Time to nearest low = 0:09 Time to nearest high = 4:56			

tide1279

1288. Your vessel will be docking at Chester, PA, during the evening of 22 April 1983. The chart shows a depth of 20 feet (6.1 meters) at the pier. What will be the depth of water available at 2310 EST (ZD +5)?

Answers	19.2 feet (5.9 meters)	20.8 feet (6.3 meters)	21.2 feet (6.4 meters)	25.8 feet (7.9 meters)
Reference Station(Philadelphia, pg.76) Diff. at Sub. Station(Chester, PA, 18577) (+) Corrected Time of Tide	High 20:44 0:51 Low 0:45 0:00 (-) 21:15 next day 0:00 2:47	High 0.5 0.0 Low 0.5 0.4 (-) 0.5 0.4	Height 0.4 0.0 Low 0.0 0.4 (-) 0.4 0.4	Duration of Tide = 7:03 Time to Nearest (H or L) = 3:02 Range of Tide = 0.7 Correction From Table 3 = 0.5 Height of Tide = 0.0 Charted Depth = 20 Depth of Water = 24.8
Desired time = 2310 Duration = 0:46 Time to nearest low = 5:05 Time to nearest high = 8:03	Time = 2310 Desired time = 2310 Duration = 0:46 Time to nearest low = 5:05 Time to nearest high = 8:03			

tide1288

1299. What will be the time ZD +5 of the second high tide at Weymouth Fore River Bridge, MA, on 12 November 1983?

Answers	1619	1643	1647	1650
Reference Station(Boston, pg.36) Diff. at Sub. Weymouth Fore River Bridge, MA, 9262) (+) Corrected Time of Tide	High 16:12 16:10 Low 22:06 23:10 (-) 21:12 23:10	High 0.6 0.6 Low 0.6 0.6 (-) 0.6 0.6	Height 0.4 0.0 Low 0.0 0.4 (-) 0.4 0.4	Duration of Tide = 6:20 Time to Nearest (H or L) = 0:20 Range of Tide = 6.0 Correction From Table 3 = 0.5 Height of Tide = 0.0 Charted Depth = 0 Depth of Water = 0
Desired time = 1630 Duration = 0:14 Time to nearest high or low = 16:47	Time = 1630 Desired time = 1630 Duration = 0:14 Time to nearest high or low = 16:47			

tide1299

1469. The charted channel depth at Eastport, ME, is 28 feet. You are drawing 31.5 feet and wish 2 feet clearance under the keel. What is the earliest time after 1700 (ZD +4) on 6 September 1983 that you can enter the channel?

Answers	1825	1903	1915	2003
Reference Station(Eastport, pg.28) Diff. at Sub. (Eastport, ME, 6227) Corrected Time of Tide correction from table 3 (+) 1 hr for DST = Desired time	High 22:08 16:03 0:00 0:00 22:08 16:03 18:15 1:00 (+) 1 hr for DST = Desired time	Time 16:03 0:00 0:00 0:00 16:03 21:12 18:15 1:00 (+) 1 hr for DST = Desired time	High 21.1 21.1 0.0 0.0 21.1 21.1 5.5 5.5 Nearest = 15.6	Height -1.8 -1.8 0.0 0.0 -1.8 -1.8 5.5 5.5 Time to nearest low = 1:57 Time to nearest high = 4:08 Desired time = 18:00
Enter table 3 with 3.6 which is 1/2 of 7.3 across from range 11.5 which is 1/2 of 22.9 as the closest determined correction 11.5 as the time to the next high tide will be 18:15 + 1 hr for Standard Tide = 19:15 as the time tide will be 33.5'. See diagram 2 with question for example.	Duration = 23:11 4:08 28' -1.8 26.8 27.9 RANGE	Duration = 23:11 4:08 28' -1.8 26.8 27.9 RANGE		

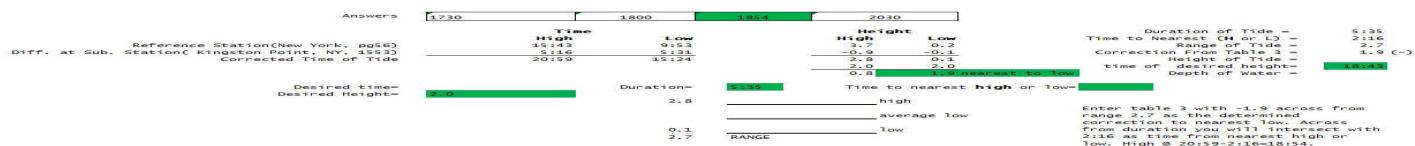
This number comes from the difference between average low of 28' and the desired height of 33.5' needed to get a safety margin of 2' when vessels drawing 31.5'.

tide1469

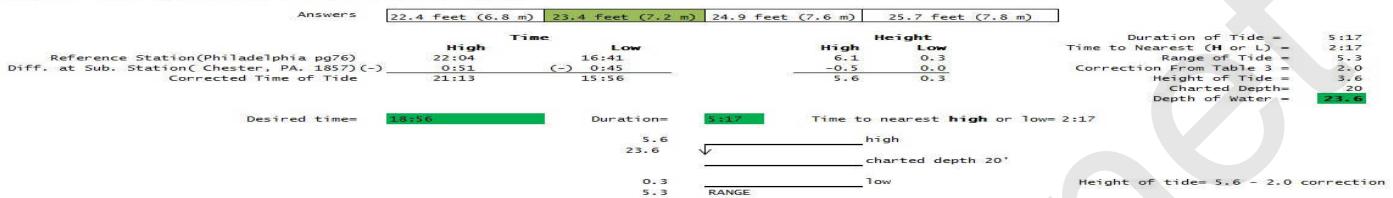




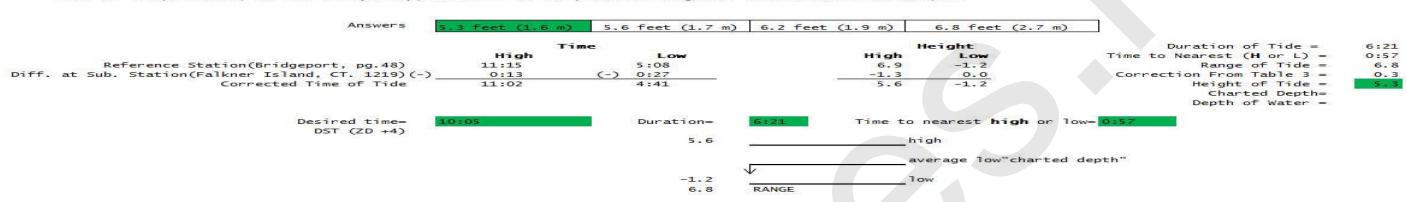
427. On 23 March 1983, at Kingston Point, NY, what is the earliest time after 1700 EST (ZD +5) that the predicted tide will be +2.0 feet?


**tide427**

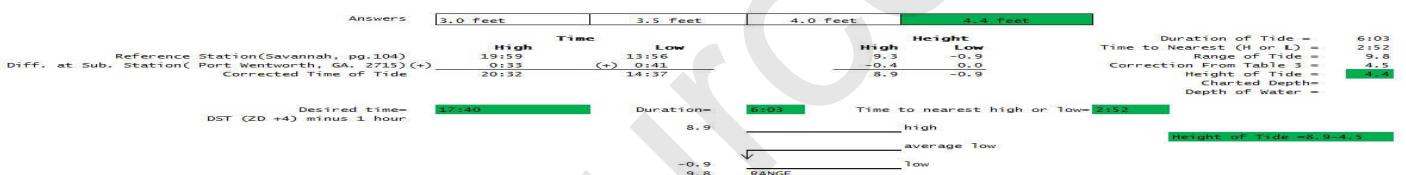
437. Your vessel will be docking at Chester, PA, during the evening of 22 April 1983. The chart shows a depth of 20 feet (6.1 meters) at the pier. What will be the depth of water available at 1856 EST (ZD +5)?


**tide437**

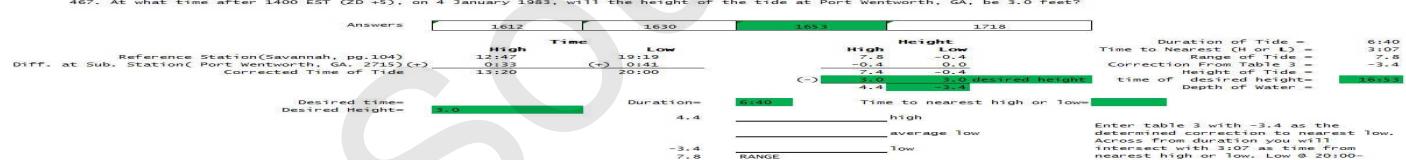
447. On 27 April 1983, at 1105 DST (ZD +4), what will be the predicted height of tide at Falkner Island, CT?


**tide447**

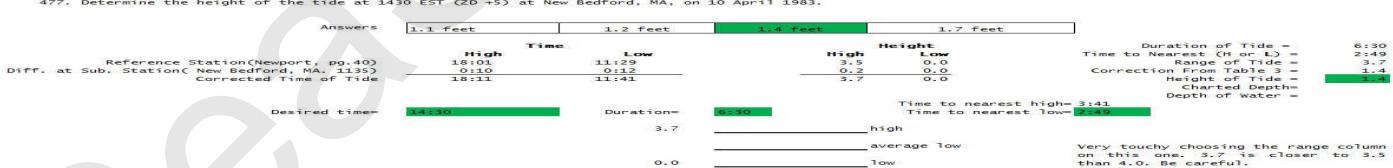
457. Find the height of the tide at Port Wentworth, GA, on 5 October 1983, at 1840 DST (ZD +4).


**tide457**

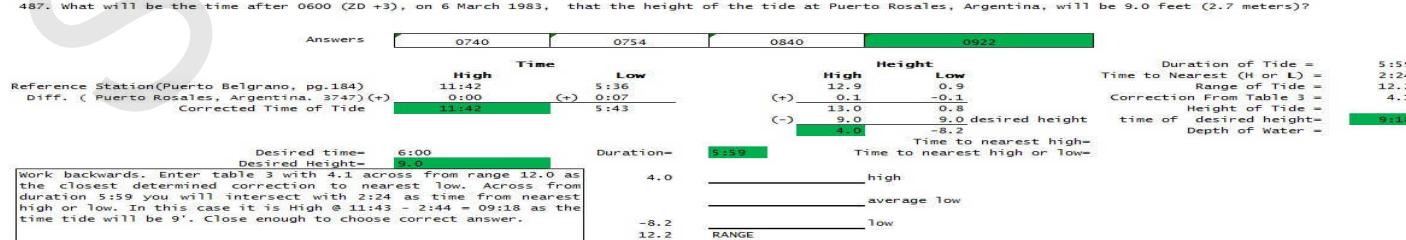
467. At what time after 1400 EST (ZD +5), on 4 January 1983, will the height of the tide at Port Wentworth, GA, be 3.0 feet?


**tide467**

477. Determine the height of the tide at 1430 EST (ZD +5) at New Bedford, MA, on 10 April 1983.


**tide477**

487. What will be the time after 0600 (ZD +3), on 6 March 1983, that the height of the tide at Puerto Rosales, Argentina, will be 9.0 feet (2.7 meters)?


**tide487**



497. What will be the time after 0300 (ZD +4), on 5 March 1983, when the height of the tide at Port of Spain, Trinidad, will be 2.5 feet (.76 meters)?



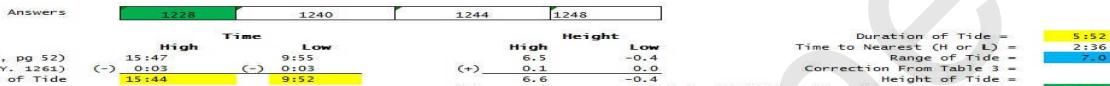
**Desired time=**  
**Desired Height=**

Work backwards. Enter table 3 with .6 across from range 1.6 as the closest determined correction to nearest high. Across from duration 6:02 you will intersect with 2:36 as time from nearest high or low. In this case it is High @ 8:38 - 2:36 = 06:02 as the time tide will be 2.5'. "See diagram 2" with question for example.

**Duration= 6:02**  
**Time to nearest high or low= n/a**

tide497

507. What will be the time after 1000 EST (ZD +5), on 4 March 1983, that the height of the tide at City Island, NY, will be 2.4 feet?



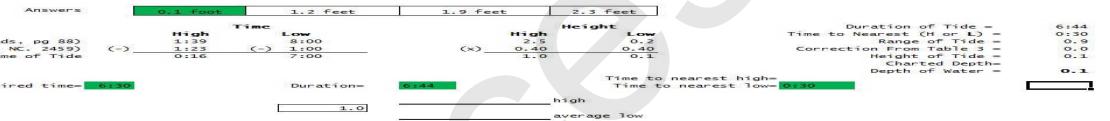
**Desired time=**  
**Desired Height=**

Work backwards. Enter table 3 with 2.4 across from range 7.0 as the closest determined correction to nearest high. Across from duration 5:52 you will intersect with 2:36 as time from nearest high or low. In this case it is Low @ 9:52 + 2:36 = 12:28 as the time tide will be 2.4'. "See diagram 2" with question for example.

**Duration= 5:52**  
**Time to nearest high or low= n/a**

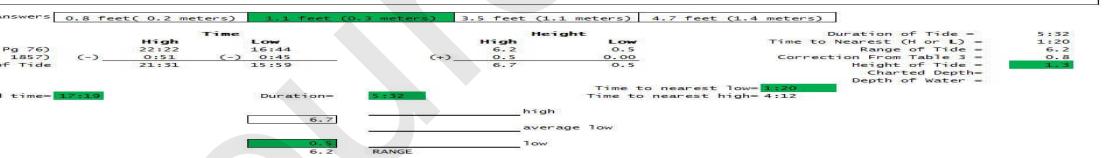
tide507

517. On 5 March 1983, at 0630 EST (ZD +5), what will be the predicted height of tide at Ocracoke, Ocracoke Inlet, NC?



tide517

527. On 6 June 1983, at 1719 EST (ZD +5), what will be the predicted height of tide at Chester, PA?



tide527

537. What will be the height of tide at Gordathy Neck, VA, at 1800 DST (ZD +4), on 16 August 1983?

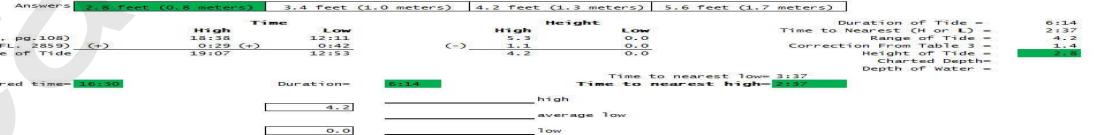


Daylight savings time is -1 hour. Desired time= 15:00.

**Desired time= 15:00**  
**Duration= 1:30**  
**Time to nearest high= 1:40**  
**Time to nearest low= 13:40**

tide537

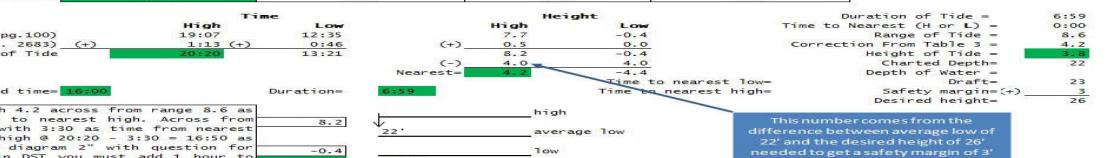
547. On 2 November 1983, at 1630 EST (ZD +5), what will be the predicted height of tide at Fulton, FL?



Desired time= 16:30  
Duration= 0:30  
Time to nearest low= 15:37  
Time to nearest high= 2:22

tide547

557. Your vessel has a draft of 23 feet. On 23 June 1983 you wish to pass over a temporary obstruction near Beaufort, SC, that has a charted depth of 22 feet. Allowing for a safety margin of 3 feet, what is the earliest time after 1600 DST (ZD +4) that this passage can be made?



work backwards. Enter table 3 with 4.2 across from range 8.6 as the closest determined correction to nearest high. Across from duration 6:30 you will intersect with 2:36 as time from nearest high or low. In this case it is high @ 20:20 - 13:21 = 16:50 as the time tide will be 26'. "See diagram 2" with question for example. Because the question is in DST you must add 1 hour to the answer to arrive at 17:50 when the tide will be 26'.

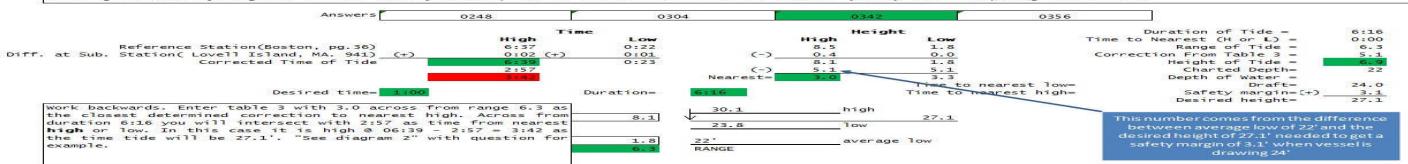
**Duration= 6:30**  
**Time to nearest low= 2:36**  
**Time to nearest high= 16:50**

This number comes from the difference between the charted depth of 22' and the desired height of 26' needed to get a safety margin of 3'.

tide557

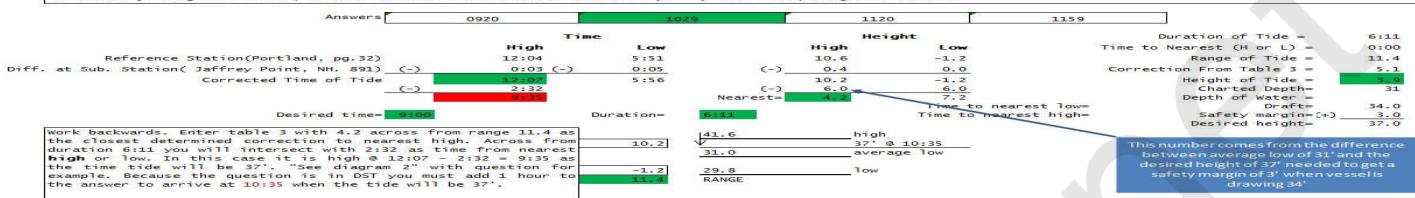


577. Your vessel has a draft of 24 feet. On 7 April 1983 you wish to pass over a temporary obstruction near Lovell Island, MA, that has a charted depth of 22 feet. Allowing for a safety margin of 3.1 feet under your keel, what is the earliest time after 0100 EST (ZD +5) that this passage can be made?



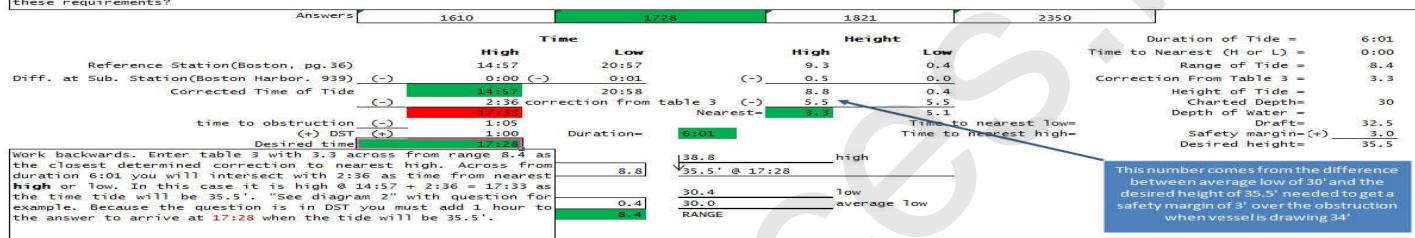
### tide577

587. Your vessel has a draft of 34 feet. On 8 October 1983 you wish to pass over an obstruction near Jaffrey Point, NH, that has a charted depth of 31 feet. Allowing for a safety margin of 3 feet, what is the earliest time after 0900 DST (ZD +4) that this passage can be made?



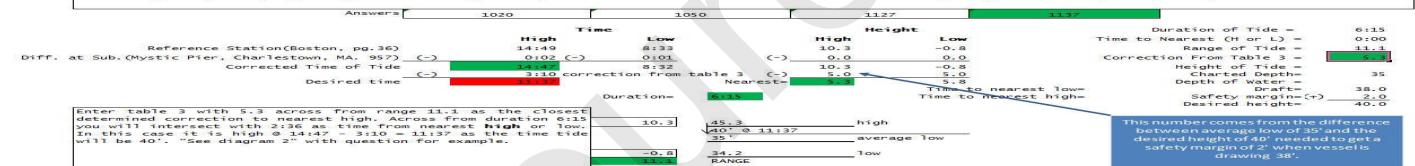
### tide587

597. You will be loading in Boston Harbor to a maximum draft of 32'06". The charted depth of an obstruction in the channel near Boston Light is 30 Feet and you wish to have 3 feet of keel clearance. The steaming time from the pier to the obstruction is 01h 05m. What is the latest time (ZD +4) you can sail on 17 May 1983 and meet these requirements?



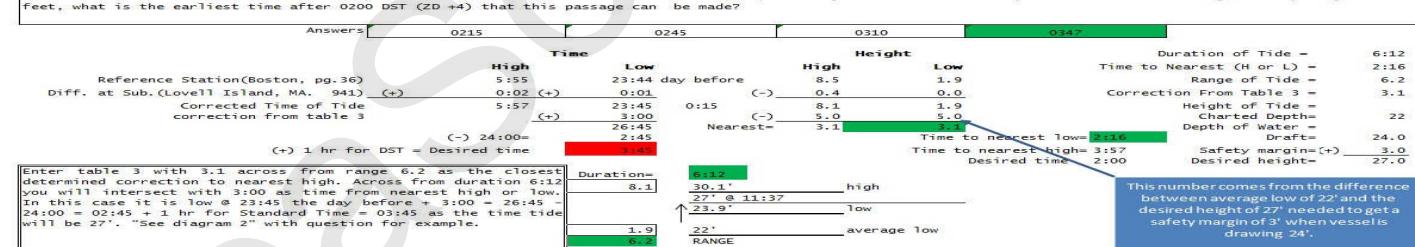
### tide597

607. The charted depth alongside the south face of Mystic Pier, Charlestown, MA, is 35 feet. Your maximum draft is 38 feet. You wish to have 2 feet under the bottom, on a rising tide, when you go alongside to discharge a heavy lift. What is the earliest time after 0900 EST (ZD +5), on 2 February 1983, that you can dock?



### tide607

637. Your draft is 24 feet. You wish to pass over an obstruction near Lovell Island, MA, on 6 May 1983. The charted depth is 22 feet. Allowing a safety margin of 3.0 feet, what is the earliest time after 0200 DST (ZD +4) that this passage can be made?



### tide637