



NOAA Tide Predictions

Cape Charles Harbor, Virginia, 2014

The NOAA Tide Predictions application provides predictions in both graphical and tabular formats, with many user selected options, for over 3000 stations broken down by key areas in each state. Users can also access stations via the Google map interface. Additional information can be found in the help page.

Station Types: The NOAA Tide Predictions application provides predictions from 2 distinct categories of stations at over 3000 locations:

Harmonic - The predicted height values for Harmonic stations are conducted by combining the harmonic constituents into a single tide curve.

Subordinate - The high and low height values for Subordinate stations are obtained by means and differences, and ratios applied to the full harmonic constant predictions at a specific Harmonic station (a Reference station).

Disclaimer: The official Tide prediction tables are published annually on October 1, for the following calendar year. Tide predictions generated prior to the publishing date of the official tables are subject to change. The predictions from the web based NOAA Tidal Predictions are based upon the latest information available as of the date of your request. Tide predictions generated may differ from the official published predictions if information for the station requested has been updated since the publishing date of the official published tables.



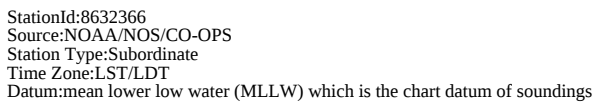
Cape Charles Harbor, Virginia, 2014

Times and Heights of High and Low Waters

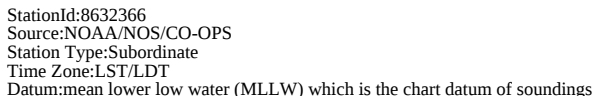
January					February					March				
Time		Height			Time		Height			Time		Height		
h	m	ft	cm		h	m	ft	cm		h	m	ft	cm	
1	02:12 AM	-0.7	-21		16	02:51 AM	-0.2	-6		1	02:44 AM	-0.6	-18	
W	08:27 AM	3.0	91		Th	09:02 AM	2.4	73		Sa	08:48 AM	2.9	88	
	03:02 PM	-0.6	-18			03:32 PM	-0.1	-3			03:13 PM	-0.5	-15	
	08:49 PM	2.3	70			09:17 PM	2.0	61			09:11 PM	2.8	85	
2	03:06 AM	-0.7	-21		17	03:28 AM	-0.2	-6		2	03:36 AM	-0.6	-18	
Th	09:19 AM	3.0	91		F	09:36 AM	2.3	70		Su	09:36 AM	2.8	85	
	03:54 PM	-0.6	-18			04:05 PM	-0.1	-3			04:00 PM	-0.5	-15	
	09:43 PM	2.4	73			09:52 PM	2.0	61			09:59 PM	2.8	85	
3	04:01 AM	-0.7	-21		18	04:04 AM	-0.1	-3		3	04:27 AM	-0.5	-15	
F	10:10 AM	2.9	88		Sa	10:09 AM	2.3	70		M	10:22 AM	2.7	82	
	04:46 PM	-0.6	-18			04:37 PM	-0.1	-3			04:46 PM	-0.5	-15	
	10:37 PM	2.4	73			10:28 PM	2.0	61			10:47 PM	2.8	85	
4	04:57 AM	-0.6	-18		19	04:41 AM	-0.1	-3		4	05:18 AM	-0.4	-12	
Sa	11:01 AM	2.8	85		Su	10:42 AM	2.2	67		Tu	11:08 AM	2.5	76	
	05:38 PM	-0.6	-18			05:11 PM	-0.1	-3			05:32 PM	-0.3	-9	
	11:32 PM	2.4	73			11:05 PM	2.0	61			11:34 PM	2.7	82	
5	05:54 AM	-0.4	-12		20	05:20 AM	0.0	0		5	06:08 AM	-0.2	-6	
Su	11:53 AM	2.6	79		M	11:17 AM	2.2	67		W	11:53 AM	2.3	70	
	06:31 PM	-0.5	-15			05:47 PM	-0.1	-3			06:19 PM	-0.2	-6	
						11:43 PM	2.0	61						
6	12:28 AM	2.4	73		21	06:02 AM	0.1	3		6	12:22 AM	2.5	76	
M	06:54 AM	-0.3	-9		Tu	11:54 AM	2.1	64		Th	07:01 AM	0.0	0	
	12:46 PM	2.4	73			06:26 PM	-0.1	-3			12:40 PM	2.1	64	
	07:25 PM	-0.4	-12								07:08 PM	0.0	0	
7	01:28 AM	2.3	70		22	12:25 AM	2.0	61		7	01:12 AM	2.4	73	
Tu	07:58 AM	-0.1	-3		W	06:50 AM	0.1	3		F	07:56 AM	0.2	6	
	01:43 PM	2.1	64			12:36 PM	2.0	61			01:30 PM	2.0	61	
	08:21 PM	-0.3	-9			07:10 PM	-0.1	-3			08:01 PM	0.2	6	
8	02:30 AM	2.3	70		23	01:12 AM	2.1	64		8	02:08 AM	2.2	67	
W	09:05 AM	0.0	0		Th	08:43 AM	0.2	6		Sa	08:55 AM	0.4	12	
	02:43 PM	1.9	58			01:23 PM	1.9	58			02:26 PM	1.8	55	
	09:19 PM	-0.2	-6			07:59 PM	-0.1	-3			08:59 PM	0.3	9	
9	03:35 AM	2.2	67		24	02:05 AM	2.1	64		9	04:10 AM	2.1	64	
Th	10:12 AM	0.1	3		F	08:40 AM	0.2	6		Su	10:57 AM	0.5	15	
	03:47 PM	1.8	55			02:19 PM	1.8	55			04:28 PM	1.8	55	
	10:16 PM	-0.1	-3			08:56 PM	-0.1	-3			11:01 PM	0.3	9	
10	04:38 AM	2.2	67		25	03:05 AM	2.2	67		10	05:16 AM	2.1	64	
F	11:15 AM	0.1	3		Sa	09:48 AM	0.1	3		M	11:56 AM	0.5	15	
	04:52 PM	1.7	52			03:21 PM	1.8	55			05:34 PM	1.8	55	
	11:12 PM	-0.1	-3			09:57 PM	-0.2	-6						
11	05:36 AM	2.2	67		26	04:10 AM	2.3	70		11	12:01 AM	0.3	9	
Sa	12:11 PM	0.1	3		Su	10:54 AM	0.0	0		Tu	06:17 AM	2.1	64	
	05:50 PM	1.7	52			04:29 PM	1.9	58			12:48 PM	0.4	12	
						11:00 PM	-0.3	-9			06:33 PM	1.9	58	
12	12:03 AM	-0.1	-3		27	05:16 AM	2.5	76		12	12:55 AM	0.3	9	
Su	06:26 AM	2.3	70		M	11:58 AM	-0.1	-3		W	07:08 AM	2.2	67	
	01:01 PM	0.1	3			05:37 PM	2.0	61			01:33 PM	0.4	12	
	06:40 PM	1.8	55								07:22 PM	2.0	61	
13	12:50 AM	-0.1	-3		28	12:02 AM	-0.4	-12		13	01:43 AM	0.2	6	
M	07:11 AM	2.3	70		Tu	06:19 AM	2.6	79		Th	07:52 AM	2.2	67	
	01:44 PM	0.0	0			12:57 PM	-0.3	-9			02:13 PM	0.3	9	
	07:24 PM	1.8	55			06:41 PM	2.1	64			08:05 PM	2.2	67	
14	01:33 AM	-0.1	-3		29	01:02 AM	-0.6	-18		14	02:25 AM	0.1	3	
Tu	07:51 AM	2.4	73		W	07:18 AM	2.8	85		F	08:31 AM	2.3	70	
	02:23 PM	0.0	0			01:52 PM	-0.5	-15			02:49 PM	0.2	6	
	08:03 PM	1.9	58			07:40 PM	2.3	70			08:44 PM	2.3	70	
15	02:13 AM	-0.2	-6		30	02:00 AM	-0.7	-21		15	03:04 AM	0.0	0	
W	08:27 AM	2.4	73		Th	08:13 AM	2.9	88		Sa	09:07 AM	2.4	73	
	02:58 PM	-0.1	-3			02:45 PM	-0.6	-18			03:23 PM	0.1	3	
	08:41 PM	1.9	58			08:35 PM	2.5	76			09:21 PM	2.4	73	
					31	02:55 AM	-0.7	-21						
					F	09:04 AM	2.9	88						
						03:35 PM	-0.7	-21						
						09:28 PM	2.6	79						
										31	04:22 AM	-0.4	-12	
										M	10:16 AM	2.7	82	
											04:34 PM	-0.3	-9	
											10:37 PM	3.0	91	

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.

Referenced to Station: CHESAPEAKE BAY BRIDGE TUNNEL (8638863) Height offset in feet (low:*0.92 high: * 0.90) Time offset in mins (low:63 high: 45)

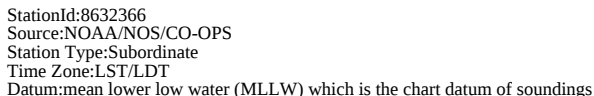


April					May					June																			
Time		Height			Time		Height			Time		Height			Time		Height												
	h	m	ft	cm		h	m	ft	cm		h	m	ft	cm		h	m	ft	cm										
1 Tu	05:10 AM	-0.3	-9		16 W	04:36 AM	-0.1	-3		1 Th	05:34 AM	-0.1	-3		16 F	05:01 AM	-0.2	-6		1 Su	06:28 AM	0.1	3		16 M	06:27 AM	-0.3	-9	
	11:01 AM	2.6	79			10:27 AM	2.4	73			11:20 AM	2.3	70			10:50 AM	2.4	73			12:15 PM	2.1	64			12:21 PM	2.5	76	
	05:18 PM	-0.2	-6			04:40 PM	-0.1	-3			05:32 PM	0.1	3			05:04 PM	-0.2	-6			06:28 PM	0.3	9			06:41 PM	-0.2	-6	
	11:21 PM	2.9	88			10:45 PM	2.8	85			11:36 PM	2.8	85			11:11 PM	3.0	91											
2 W	05:56 AM	-0.2	-6		17 Th	05:19 AM	-0.1	-3		2 F	06:16 AM	0.0	0		17 Sa	05:50 AM	-0.2	-6		2 M	12:28 AM	2.4	73		17 Tu	12:41 AM	2.8	85	
	11:44 AM	2.5	76			11:08 AM	2.4	73			12:01 PM	2.3	70			11:39 AM	2.4	73			07:07 AM	0.2	6			07:20 AM	-0.3	-9	
	06:02 PM	-0.1	-3			05:23 PM	-0.1	-3			06:15 PM	0.2	6			05:55 PM	-0.1	-3			12:56 PM	2.1	64			01:17 PM	2.6	79	
						11:28 PM	2.8	85											07:12 PM		0.4	12		07:41 PM		-0.1	-3		
3 Th	12:04 AM	2.8	85		18 F	06:04 AM	-0.1	-3		3 Sa	12:17 AM	2.6	79		18 Su	12:01 AM	2.9	88		3 Tu	01:09 AM	2.3	70		18 W	01:36 AM	2.6	79	
	06:43 AM	0.0	0			11:52 AM	2.4	73			06:59 AM	0.2	6			06:41 AM	-0.2	-6			07:47 AM	0.3	9			08:15 AM	-0.2	-6	
	12:26 PM	2.3	70			06:10 PM	0.0	0			12:42 PM	2.2	67			12:31 PM	2.4	73			01:39 PM	2.1	64			02:17 PM	2.6	79	
	06:46 PM	0.1	3								06:59 PM	0.3	9			06:51 PM	-0.1	-3			07:59 PM	0.5	15			08:46 PM	0.0	0	
4 F	12:48 AM	2.6	79		19 Sa	12:14 AM	2.8	85		4 Su	12:59 AM	2.5	76		19 M	12:54 AM	2.8	85		4 W	01:52 AM	2.2	67		19 Th	02:35 AM	2.5	76	
	07:29 AM	0.1	3			06:54 AM	0.0	0			07:42 AM	0.3	9			07:36 AM	-0.1	-3			08:29 AM	0.3	9			09:13 AM	-0.1	-3	
	01:10 PM	2.2	67			12:40 PM	2.3	70			01:25 PM	2.1	64			01:27 PM	2.4	73			02:25 PM	2.1	64			03:19 PM	2.6	79	
	07:32 PM	0.2	6			07:01 PM	0.0	0			07:46 PM	0.4	12			07:51 PM	0.0	0			08:51 PM	0.5	15			09:53 PM	0.1	3	
5 Sa	01:34 AM	2.5	76		20 Su	01:05 AM	2.7	82		5 M	01:44 AM	2.3	70		20 Tu	01:50 AM	2.7	82		5 Th	02:37 AM	2.1	64		20 F	03:36 AM	2.3	70	
	08:18 AM	0.3	9			07:47 AM	0.1	3			08:27 AM	0.4	12			08:33 AM	-0.1	-3			09:14 AM	0.4	12			10:11 AM	-0.1	-3	
	01:56 PM	2.1	64			01:34 PM	2.3	70			02:12 PM	2.0	61			02:28 PM	2.4	73			03:15 PM	2.1	64			04:24 PM	2.6	79	
	08:22 PM	0.4	12			07:59 PM	0.1	3			08:37 PM	0.5	15			08:56 PM	0.1	3			09:45 PM	0.5	15			11:01 PM	0.1	3	
6 Su	02:23 AM	2.3	70		21 M	02:02 AM	2.6	79		6 Tu	02:32 AM	2.2	67		21 W	02:51 AM	2.5	76		6 F	03:27 AM	2.0	61		21 Sa	04:42 AM	2.2	67	
	09:10 AM	0.5	15			08:46 AM	0.1	3			09:15 AM	0.5	15			09:33 AM	0.0	0			10:01 AM	0.3	9			11:09 AM	0.0	0	
	02:47 PM	2.0	61			02:34 PM	2.3	70			03:04 PM	2.0	61			03:34 PM	2.4	73			04:07 PM	2.2	67			05:27 PM	2.6	79	
	09:18 PM	0.5	15			09:03 PM	0.2	6			09:33 PM	0.6	18			10:06 PM	0.1	3			10:42 PM	0.5	15						
7 M	03:18 AM	2.2	67		22 Tu	03:04 AM	2.5	76		7 W	03:25 AM	2.1	64		22 Th	03:56 AM	2.4	73		7 Sa	04:20 AM	2.0	61		22 Su	12:06 AM	0.1	3	
	10:05 AM	0.5	15			09:50 AM	0.1	3			10:05 AM	0.5	15			10:35 AM	0.0	0			10:51 AM	0.3	9			05:48 AM	2.1	64	
	03:44 PM	1.9	58			03:41 PM	2.3	70			03:59 PM	2.1	64			04:41 PM	2.5	76			05:00 PM	2.3	70			12:06 PM	0.0	0	
	10:18 PM	0.5	15			10:13 PM	0.2	6			10:32 PM	0.6	18			11:15 PM	0.1	3			11:39 PM	0.4	12			06:26 PM	2.6	79	
8 Tu	04:19 AM	2.1	64		23 W	04:13 AM	2.5	76		8 Th	04:20 AM	2.0	61		23 F	05:04 AM	2.3	70		8 Su	05:16 AM	2.0	61		23 M	01:05 AM	0.1	3	
	11:01 AM	0.6	18			10:55 AM	0.1	3			10:55 AM	0.5	15			11:34 AM	0.0	0			11:41 AM	0.2	6			06:49 AM	2.1	64	
	04:46 PM	2.0	61			04:52 PM	2.4	73			04:56 PM	2.1	64			05:46 PM	2.6	79			05:53 PM	2.4	73			12:59 PM	0.0	0	
	11:20 PM	0.5	15			11:24 PM	0.1	3			11:30 PM	0.5	15										07:20 PM	2.7		82			
9 W	05:21 AM	2.1	64		24 Th	05:23 AM	2.4	73		9 F	05:17 AM	2.0	61		24 Sa	12:21 AM	0.1	3		9 M	12:33 AM	0.3	9		24 Tu	01:58 AM	0.1	3	
	11:54 AM	0.5	15			11:57 AM	0.1	3			11:44 AM	0.4	12			06:10 AM	2.3	70			06:12 AM	2.0	61			07:44 AM	2.1	64	
	05:46 PM	2.0	61			06:01 PM	2.5	76			05:50 PM	2.3	70			12:30 PM	0.0	0			12:32 PM	0.1	3			01:50 PM	0.0	0	
																06:46 PM	2.7	82			06:45 PM	2.6	79			08:08 PM	2.7	82	
10 Th	12:16 AM	0.4	12		25 F	12:31 AM	0.0	0		10 Sa	12:24 AM	0.4	12		25 Su	01:20 AM	0.0	0		10 Tu	01:25 AM	0.1	3		25 W	02:46 AM	0.1	3	
	06:17 AM	2.1	64			06:30 AM	2.5	76			06:11 AM	2.1	64			07:10 AM	2.3	70			07:07 AM	2.1	64			08:32 AM	2.1	64	
	12:41 PM	0.5	15			12:54 PM	0.0	0			12:31 PM	0.3	9			01:23 PM	-0.1	-3			01:22 PM	0.0	0			02:36 PM	0.1	3	
	06:39 PM	2.2	67			07:02 PM	2.7	82			06:39 PM	2.4	73			07:39 PM	2.8	85			07:36 PM	2.7	82			08:51 PM	2.7	82	
11 F	01:06 AM	0.3	9		26 Sa	01:32 AM	-0.1	-3		11 Su	01:13 AM	0.3	9		26 M	02:14 AM	0.0	0		11 W	02:15 AM	0.0	0		26 Th	03:29 AM	0.0	0	
	07:06 AM	2.2	67			07:29 AM	2.5	76			07:01 AM	2.1	64			08:03 AM	2.3	70			08:00 AM	2.2	67			09:15 AM	2.1	64	
	01:24 PM	0.3	9			01:47 PM	-0.1	-3			01:16 PM	0.2	6			02:12 PM	-0.1	-3			02:13 PM	-0.1	-3			03:20 PM	0.1	3	
	07:25 PM	2.3	70			07:57 PM	2.8	85			07:26 PM	2.6	79			08:27 PM	2.8	85			08:26 PM	2.9	88			09:32 PM	2.7	82	
12 Sa	01:52 AM	0.2	6		27 Su	02:27 AM	-0.2	-6		12 M	01:59 AM	0.2	6		27 Tu	03:03 AM	-0.1	-3		12 Th	03:05 AM	-0.2	-6		27 F	04:09 AM	0.0	0	
	07:50 AM	2.2	67			08:22 AM	2.5	76			07:48 AM	2.2	67			08:52 AM	2.3	70			08:51 AM	2.3	70			09:55 AM	2.2	67	
	02:03 PM	0.2	6			02:36 PM	-0.2	-6			02:00 PM	0.1	3			02:58 PM	-0.1	-3			03:04 PM	-0.2	-6			04:01 PM	0.1	3	
	08:07 PM	2.5	76			08:46 PM	2.9	88			08:10 PM	2.7	82			09:11 PM	2.9	88			09:16 PM	3.0	91			10:10 PM	2.6	79	
13 Su	02:33 AM	0.1	3		28 M	03:18 AM	-0.2	-6		13 Tu	02:44 AM	0.0	0		28 W	03:49 AM	-0.1	-3		13 F	03:54 AM	-0.3	-9		28 Sa	04:47 AM	0.1	3	
	08:30 AM	2.3	70			09:11 AM	2.5	76			08:33 AM	2.3	70			09:36 AM	2.3	70			04:42 AM	2.4	73			10:33 AM	2.2	67	
	02:41 PM	0.1	3			03:23 PM	-0.2	-6			02:44 PM	0.0	0			03:42 PM	0.0	0			03:56 PM	-0.3	-9			04:41 PM	0.1	3	
	08:47 PM	2.6	79			09:31 PM	3.0	91			08:54 PM	2.8	85			09:52 PM	2.8	85			10:06 PM	3.0	91			10:46 PM	2.6	79	
14 M	03:14 AM	0.0	0		29 Tu	04:06 AM	-0.2	-6		14 W	03:29 AM	-0.1	-3		29 Th	04:31 AM	-0.1	-3		14 Sa	04:44 AM	-0.3	-9		29 Su	05:22 AM	0.1	3	
	09:09 AM	2.4	73			09:56 AM	2.5	76			09:18 AM	2.3	70			10:17 AM	2.2	67			10:34 AM	2.5	76			11:10 AM	2.2	67	
	03:20 PM	0.0	0			04:07 PM	-0.1	-3			03:29 PM	-0.1	-3			04:24 PM	0.0	0			04:48 PM	-0.3	-9			05:21 PM	0.2	6	
	09:25 PM	2.7	82			10:14 PM	3.0	91			09:38 PM	2.9	88			10:32 PM	2.7	82			10:57 PM	3.0	91			11:23 PM	2.5	76	
15 Tu	03:54 AM	0.0	0		30 W	04:51 AM	-0.2	-6		15 Th	04:15 AM	-0.2	-6		30 F	05:11 AM	0.0	0		15 Su	05:35 AM	-0.3	-9		30 M	05:57 AM	0.1	3	
	09:47 AM	2.4	73			10:39 AM	2.4	73			10:03 AM	2.4	73			10:57 AM	2.2	67			11:26 AM	2.5	76			11:48 AM	2.2	67	
	03:59 PM	0.0	0			04:50 PM	-0.1	-3			04:15 PM	-0.1	-3			05:05 PM	0.1	3			05:43 PM	-0.3	-9			06:00 PM	0.3	9	
	10:04 PM	2.8	8																										



Times and Heights of High and Low Waters

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Referenced to Station: CHESAPEAKE BAY BRIDGE TUNNEL (8638863) Height offset in feet (low:*0.92 high: * 0.90) Time offset in mins (low:63 high: 45)



Times and Heights of High and Low Waters

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