

SANDY HOOK



SANDY HOOK PILOTS

2018
TIDE BOOK

Sandy Hook — January 2018

Times and Heights of High and Low Waters

1 00:27 -0.9 06:38 6.0 M 13:21 -1.0 19:11 5.0	9 01:35 4.6 07:56 0.4 Tu 13:47 4.2 20:23 0.1	17 01:41 0.0 07:50 5.0 W 14:20 -0.3 ● 20:13 4.2	25 01:15 4.5 08:00 0.5 Th 13:43 4.1 20:09 0.1
2 01:22 -1.0 07:30 6.1 Tu 14:13 -1.2 ○ 20:04 5.1	10 02:28 4.5 08:58 0.5 W 14:42 4.0 21:16 0.2	18 02:21 0.0 08:26 5.0 Th 14:57 -0.3 20:50 4.1	26 02:15 4.7 09:13 0.3 F 14:48 4.1 21:16 -0.1
3 02:15 -1.1 08:23 6.1 W 15:04 -1.2 20:59 5.1	11 03:22 4.5 09:54 0.4 Th 15:38 3.9 22:04 0.2	19 02:59 0.0 09:01 4.9 F 15:33 -0.2 21:27 4.1	27 03:20 4.9 10:16 0.0 Sa 15:57 4.2 22:17 -0.3
4 03:08 -1.0 09:16 5.9 Th 15:54 -1.1 21:55 5.0	12 04:15 4.6 10:44 0.3 F 16:34 3.8 22:50 0.2	20 03:35 0.1 09:37 4.7 Sa 16:07 -0.2 22:05 4.1	28 04:26 5.2 11:14 -0.4 Su 17:03 4.5 23:16 -0.6
5 03:59 -0.8 10:11 5.6 F 16:43 -0.9 22:52 4.9	13 05:05 4.7 11:31 0.1 Sa 17:27 3.9 23:34 0.1	21 04:11 0.2 10:16 4.6 Su 16:41 -0.1 22:46 4.1	29 05:28 5.6 12:10 -0.7 M 18:03 4.8
6 04:52 -0.4 11:07 5.3 Sa 17:34 -0.6 23:48 4.8	14 05:51 4.8 12:15 0.0 Su 18:13 4.0	22 04:50 0.4 11:00 4.5 M 17:17 0.0 23:31 4.2	30 00:12 -0.8 06:24 5.9 Tu 13:04 -1.0 18:57 5.0
7 05:48 -0.1 12:01 4.9 Su 18:28 -0.3	15 00:17 0.1 06:33 5.0 M 12:58 -0.1 18:56 4.1	23 05:36 0.5 11:49 4.3 Tu 18:02 0.1	31 01:08 -1.0 07:17 6.0 W 13:56 -1.2 ○ 19:49 5.2
8 00:42 4.7 06:50 0.2 M 12:55 4.6 ● 19:26 -0.1	16 01:00 0.0 07:13 5.0 Tu 13:40 -0.2 19:36 4.2	24 00:21 4.3 06:41 0.6 W 12:44 4.2 ● 19:00 0.1	

Slack water at Sandy Hook occurs 50 minutes after H.W. and 1 hour and 10 minutes after L.W. and lasts about 25 minutes.

The phase age of the tide is the interval by which spring tides follow full or new moon, and thus likewise the interval by which neap tide follows the moon's first and third quarters. The phase of the tides at Ft. Hamilton is 26.5 hours.

Sandy Hook — February 2018

Times and Heights of High and Low Waters

1	02:01 -1.1 08:08 6.0 Th 14:45 -1.2 20:41 5.3	9	02:41 4.3 09:19 0.6 F 15:03 3.7 21:28 0.6	17	02:40 -0.1 08:37 5.0 Sa 15:05 -0.4 20:57 4.6	25	02:59 5.0 09:59 0.1 Su 15:42 4.3 22:03 -0.1
2	02:52 -1.0 08:58 5.8 F 15:31 -1.2 21:33 5.2	10	03:36 4.3 10:13 0.5 Sa 16:02 3.7 22:19 0.5	18	03:17 -0.1 09:13 4.9 Su 15:39 -0.3 21:33 4.6	26	04:09 5.2 10:58 -0.2 M 16:49 4.6 23:03 -0.4
3	03:42 -0.9 09:49 5.5 Sa 16:16 -0.9 22:25 5.1	11	04:31 4.4 11:01 0.4 Su 16:58 3.8 23:06 0.4	19	03:55 0.0 09:53 4.8 M 16:13 -0.2 22:14 4.7	27	05:13 5.5 11:53 -0.6 Tu 17:49 4.9
4	04:30 -0.5 10:41 5.2 Su 17:01 -0.6 23:17 4.9	12	05:22 4.6 11:47 0.2 M 17:48 4.0 23:52 0.2	20	04:35 0.1 10:37 4.6 Tu 16:49 -0.1 23:00 4.7	28	00:00 -0.6 06:10 5.7 W 12:45 -0.8 18:42 5.3
5	05:20 -0.2 11:32 4.8 M 17:48 -0.2	13	06:08 4.8 12:30 0.0 Tu 18:32 4.2	21	05:21 0.3 11:29 4.4 W 17:32 0.0 23:52 4.8		
6	00:08 4.8 06:15 0.2 Tu 12:23 4.4 18:39 0.1	14	00:36 0.1 06:48 4.9 W 13:12 -0.1 19:11 4.3	22	06:21 0.4 12:25 4.3 Th 18:28 0.2		
7	00:58 4.6 07:16 0.5 W 13:13 4.1 ● 19:35 0.4	15	01:19 0.0 07:26 5.0 Th 13:52 -0.3 ● 19:48 4.4	23	00:49 4.8 07:38 0.5 F 13:26 4.2 ● 19:42 0.3		
8	01:49 4.4 08:20 0.6 Th 14:06 3.8 20:33 0.6	16	02:00 -0.1 08:02 5.1 F 14:29 -0.3 20:23 4.5	24	01:52 4.9 08:53 0.4 Sa 14:32 4.2 20:57 0.2		

Slack water at Sandy Hook occurs 50 minutes after H.W. and 1 hour and 10 minutes after L.W. and lasts about 25 minutes.

The phase age of the tide is the interval by which spring tides follow full or new moon, and thus likewise the interval by which neap tide follows the moon's first and third quarters. The phase of the tides at Ft. Hamilton is 26.5 hours.

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Sandy Hook — March 2018

Times and Heights of High and Low Waters

1	00:54 -0.8 07:02 5.9 Th 13:34 -1.0 19:32 5.5	9	01:07 4.5 07:35 0.8 F 13:32 3.8 ● 19:45 1.0	17	02:37 -0.1 08:35 5.2 Sa 14:57 -0.3 ● 20:53 5.0	25	02:37 5.0 09:37 0.4 Su 15:22 4.4 21:44 0.4
2	01:46 -0.9 07:50 5.9 F 14:21 -1.0 ○ 20:20 5.6	10	01:58 4.3 08:38 0.9 Sa 14:27 3.7 20:49 1.0	18	03:18 -0.2 09:12 5.2 Su 15:35 -0.4 21:28 5.2	26	03:44 5.0 10:42 0.2 M 16:30 4.5 22:51 0.2
3	02:35 -0.9 08:37 5.7 Sa 15:05 -0.9 21:07 5.5	11	03:53 4.3 10:36 0.8 Su 16:26 3.7 22:46 0.9	19	03:59 -0.3 09:51 5.1 M 16:11 -0.3 22:06 5.2	27	04:53 5.1 11:40 -0.1 Tu 17:34 4.8 23:51 -0.1
4	03:22 -0.7 09:24 5.4 Su 15:47 -0.7 21:55 5.4	12	04:51 4.3 11:26 0.6 M 17:24 3.9 23:37 0.7	20	04:40 -0.2 10:33 5.0 Tu 16:48 -0.3 22:49 5.3	28	05:57 5.3 12:32 -0.4 W 18:33 5.2
5	04:07 -0.5 10:12 5.1 M 16:27 -0.4 22:43 5.2	13	05:46 4.5 12:13 0.4 Tu 18:16 4.1	21	05:23 -0.1 11:22 4.8 W 17:28 -0.1 23:38 5.2	29	00:46 -0.4 06:53 5.5 Th 13:22 -0.6 19:24 5.5
6	04:52 -0.1 11:01 4.7 Tu 17:08 0.0 23:31 4.9	14	00:24 0.5 06:36 4.7 W 12:56 0.2 19:01 4.4	22	06:11 0.1 12:16 4.6 Th 18:13 0.1	30	01:39 -0.6 07:43 5.6 F 14:09 -0.7 20:12 5.7
7	05:39 0.3 11:50 4.3 W 17:51 0.4	15	01:10 0.3 07:19 4.9 Th 13:38 0.0 19:41 4.6	23	00:33 5.2 07:10 0.3 F 13:15 4.4 19:12 0.4	31	02:29 -0.6 08:29 5.6 Sa 14:54 -0.7 ○ 20:56 5.8
8	00:18 4.7 06:33 0.6 Th 12:40 4.0 18:43 0.8	16	01:54 0.0 07:58 5.1 F 14:19 -0.2 20:18 4.9	24	01:33 5.1 08:23 0.4 Sa 14:17 4.3 ● 20:27 0.5		

Slack water at Sandy Hook occurs 50 minutes after H.W. and 1 hour and 10 minutes after L.W. and lasts about 25 minutes.

The phase age of the tide is the interval by which spring tides follow full or new moon, and thus likewise the interval by which neap tide follows the moon's first and third quarters. The phase of the tides at Ft. Hamilton is 26.5 hours.

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Sandy Hook — April 2018

Times and Heights of High and Low Waters

1 03:16 -0.6 09:14 5.5 Su 15:36 -0.6 21:40 5.8	9 03:09 4.3 09:53 1.0 M 15:47 3.9 22:09 1.2	17 03:41 -0.4 09:30 5.2 Tu 15:45 -0.3 21:43 5.8	25 04:34 5.1 11:18 0.0 W 17:17 5.1 23:37 0.1
2 04:00 -0.5 09:58 5.2 M 16:15 -0.3 22:23 5.6	10 04:05 4.3 10:46 0.8 Tu 16:43 4.0 23:04 1.0	18 04:26 -0.4 10:17 5.1 W 16:28 -0.2 22:29 5.8	26 05:36 5.1 12:08 -0.2 Th 18:13 5.4
3 04:43 -0.3 10:44 4.9 Tu 16:53 0.0 23:07 5.3	11 05:02 4.4 11:33 0.6 W 17:36 4.3 23:53 0.7	19 05:12 -0.3 11:10 4.9 Th 17:13 -0.1 23:22 5.6	27 00:31 -0.1 06:32 5.2 F 12:56 -0.3 19:03 5.7
4 05:24 0.0 11:31 4.6 W 17:30 0.4 23:52 5.0	12 05:55 4.6 12:17 0.3 Th 18:24 4.6	20 06:03 -0.1 12:08 4.7 F 18:03 0.2	28 01:21 -0.2 07:21 5.3 Sa 13:41 -0.3 19:49 5.8
5 06:07 0.3 12:19 4.3 Th 18:09 0.7	13 00:40 0.4 06:42 4.9 F 13:00 0.1 19:06 5.0	21 00:21 5.5 07:02 0.1 Sa 13:09 4.6 19:04 0.4	29 02:09 -0.3 08:07 5.3 Su 14:24 -0.3 20:31 5.9
6 00:38 4.8 06:53 0.6 F 13:09 4.1 18:54 1.1	14 01:26 0.1 07:25 5.1 Sa 13:41 -0.1 19:45 5.3	22 01:23 5.3 08:10 0.3 Su 14:10 4.6 ☉ 20:18 0.6	30 02:55 -0.3 08:50 5.1 M 15:05 -0.1 ☽ 21:12 5.8
7 01:26 4.5 07:49 0.9 Sa 13:59 3.9 19:53 1.3	15 02:11 -0.1 08:06 5.2 Su 14:23 -0.2 20:23 5.6	23 02:26 5.2 09:20 0.3 M 15:12 4.7 21:33 0.6	
8 02:16 4.4 08:52 1.0 Su 14:52 3.8 ☉ 21:04 1.4	16 02:56 -0.3 08:47 5.2 M 15:04 -0.3 ☽ 21:01 5.7	24 03:30 5.1 10:23 0.1 Tu 16:15 4.8 22:39 0.4	

Slack water at Sandy Hook occurs 50 minutes after H.W. and 1 hour and 10 minutes after L.W. and lasts about 25 minutes.

The phase age of the tide is the interval by which spring tides follow full or new moon, and thus likewise the interval by which neap tide follows the moon's first and third quarters. The phase of the tides at Ft. Hamilton is 26.5 hours.

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Sandy Hook — May 2018

Times and Heights of High and Low Waters

1 03:38 -0.3 09:33 4.9 Tu 15:44 0.1 21:52 5.6	9 03:17 4.4 09:59 0.8 W 15:57 4.2 22:26 1.2	17 04:12 -0.6 10:03 5.1 Th 16:11 -0.3 22:15 6.1	25 05:11 4.9 11:41 0.0 F 17:49 5.5
2 04:19 -0.1 10:17 4.7 W 16:22 0.3 22:33 5.4	10 04:12 4.4 10:49 0.6 Th 16:50 4.5 23:19 0.9	18 05:01 -0.5 10:59 5.0 F 17:01 -0.1 23:11 5.9	26 00:12 0.2 06:06 4.8 Sa 12:27 -0.1 18:39 5.6
3 04:59 0.1 11:02 4.5 Th 16:59 0.6 23:16 5.1	11 05:07 4.6 11:34 0.4 F 17:40 4.9	19 05:53 -0.3 11:59 4.9 Sa 17:55 0.1	27 01:01 0.0 06:57 4.9 Su 13:11 0.0 19:24 5.8
4 05:38 0.3 11:50 4.2 F 17:36 0.9	12 00:08 0.5 06:00 4.7 Sa 12:19 0.1 18:27 5.3	20 00:11 5.7 06:50 -0.1 Su 13:00 4.9 18:56 0.4	28 01:48 0.0 07:43 4.8 M 13:54 0.1 20:05 5.8
5 00:00 4.9 06:20 0.6 Sa 12:39 4.1 18:16 1.2	13 00:57 0.2 06:50 4.9 Su 13:03 -0.1 19:11 5.6	21 01:12 5.5 07:53 0.1 M 13:59 4.9 20:06 0.6	29 02:33 -0.1 08:27 4.8 Tu 14:36 0.2 ○ 20:45 5.7
6 00:47 4.6 07:07 0.8 Su 13:27 4.0 19:07 1.4	14 01:45 -0.1 07:37 5.1 M 13:49 -0.2 19:54 5.9	22 02:12 5.3 08:58 0.1 Tu 14:58 5.0 ● 21:17 0.6	30 03:15 -0.1 09:09 4.7 W 15:16 0.3 21:24 5.6
7 01:35 4.5 08:03 1.0 M 14:16 4.0 20:15 1.5	15 02:34 -0.3 08:23 5.2 Tu 14:36 -0.3 ● 20:38 6.1	23 03:11 5.1 09:58 0.1 W 15:56 5.1 22:22 0.5	31 03:56 0.0 09:52 4.5 Th 15:55 0.5 22:03 5.4
8 02:25 4.4 09:04 1.0 Tu 15:06 4.0 ● 21:26 1.4	16 03:23 -0.5 09:11 5.2 W 15:23 -0.3 21:24 6.2	24 04:11 4.9 10:52 0.0 Th 16:54 5.3 23:19 0.3	

Slack water at Sandy Hook occurs 50 minutes after H.W. and 1 hour and 10 minutes after L.W. and lasts about 25 minutes.

The phase age of the tide is the interval by which spring tides follow full or new moon, and thus likewise the interval by which neap tide follows the moon's first and third quarters. The phase of the tides at Ft. Hamilton is 26.5 hours.

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Sandy Hook — June 2018

Times and Heights of High and Low Waters

1 04:35 0.1 10:36 4.4 F 16:32 0.7 22:44 5.2	9 04:20 4.5 10:50 0.4 Sa 16:54 5.0 23:36 0.6	17 05:38 -0.6 11:45 5.2 Su 17:44 -0.1 23:58 5.8	25 00:38 0.3 06:32 4.5 M 12:42 0.3 18:58 5.5
2 05:13 0.3 11:22 4.2 Sa 17:10 0.9 23:27 4.9	10 05:19 4.6 11:39 0.1 Su 17:47 5.4	18 06:32 -0.4 12:44 5.2 M 18:42 0.2	26 01:24 0.2 07:20 4.5 Tu 13:26 0.4 19:40 5.6
3 05:51 0.5 12:08 4.1 Su 17:48 1.1	11 00:29 0.2 06:16 4.8 M 12:28 -0.1 18:39 5.8	19 00:56 5.5 07:29 -0.2 Tu 13:41 5.2 19:47 0.5	27 02:09 0.1 08:04 4.5 W 14:09 0.4 20:21 5.6
4 00:11 4.7 06:32 0.6 M 12:54 4.1 18:31 1.3	12 01:21 -0.1 07:10 5.0 Tu 13:19 -0.2 19:29 6.1	20 01:53 5.3 08:29 0.0 W 14:37 5.2 ☉ 20:56 0.6	28 02:51 0.1 08:47 4.5 Th 14:51 0.5 ○ 20:59 5.5
5 00:56 4.6 07:17 0.8 Tu 13:38 4.1 19:27 1.4	13 02:14 -0.4 08:02 5.1 W 14:12 -0.4 ● 20:18 6.3	21 02:48 5.0 09:28 0.1 Th 15:32 5.2 22:00 0.6	29 03:32 0.1 09:28 4.5 F 15:31 0.6 21:38 5.4
6 01:42 4.5 08:10 0.8 W 14:23 4.2 ☉ 20:37 1.4	14 03:06 -0.6 08:54 5.2 Th 15:04 -0.4 21:09 6.4	22 03:45 4.7 10:22 0.2 F 16:27 5.3 22:58 0.5	30 04:11 0.1 10:09 4.4 Sa 16:10 0.7 22:17 5.2
7 02:30 4.4 09:07 0.8 Th 15:10 4.4 21:44 1.2	15 03:57 -0.7 09:49 5.2 F 15:57 -0.4 22:02 6.3	23 04:42 4.6 11:11 0.2 Sa 17:21 5.3 23:50 0.4	
8 03:22 4.4 10:00 0.6 F 16:01 4.7 22:43 0.9	16 04:47 -0.7 10:46 5.2 Sa 16:49 -0.3 22:59 6.1	24 05:39 4.5 11:57 0.2 Su 18:12 5.5	

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TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Sandy Hook — July 2018

Times and Heights of High and Low Waters

1 04:47 0.2 10:51 4.3 Su 16:47 0.8 22:56 5.0	9 04:44 4.5 11:06 0.2 M 17:13 5.5	17 06:08 -0.5 12:22 5.4 Tu 18:24 0.1	25 00:59 0.4 06:57 4.4 W 13:00 0.6 19:16 5.4
2 05:23 0.3 11:34 4.3 M 17:24 0.9 23:36 4.8	10 00:04 0.2 05:49 4.7 Tu 12:01 0.0 18:13 5.9	18 00:35 5.5 07:00 -0.2 W 13:17 5.4 19:23 0.4	26 01:43 0.3 07:42 4.5 Th 13:44 0.5 19:57 5.4
3 05:59 0.5 12:16 4.3 Tu 18:03 1.1	11 00:59 -0.1 06:49 4.9 W 12:57 -0.2 19:08 6.2	19 01:29 5.2 07:55 0.1 Th 14:10 5.3 ● 20:28 0.7	27 02:25 0.2 08:23 4.6 F 14:27 0.5 ○ 20:36 5.5
4 00:18 4.7 06:36 0.6 W 12:57 4.3 18:49 1.2	12 01:54 -0.4 07:44 5.2 Th 13:53 -0.4 20:02 6.4	20 02:22 4.8 08:53 0.3 F 15:03 5.2 21:33 0.7	28 03:05 0.1 09:03 4.6 Sa 15:08 0.5 21:13 5.4
5 01:02 4.6 07:19 0.6 Th 13:40 4.5 19:50 1.3	13 02:47 -0.7 08:38 5.3 F 14:48 -0.5 ● 20:54 6.5	21 03:17 4.5 09:49 0.5 Sa 15:56 5.2 22:32 0.7	29 03:43 0.1 09:41 4.6 Su 15:48 0.6 21:50 5.3
6 01:50 4.5 08:11 0.6 F 14:26 4.7 ● 21:02 1.2	14 03:39 -0.8 09:33 5.5 Sa 15:43 -0.5 21:48 6.4	22 04:13 4.3 10:41 0.6 Su 16:50 5.2 23:25 0.6	30 04:19 0.2 10:18 4.6 M 16:25 0.6 22:26 5.1
7 02:42 4.5 09:11 0.6 Sa 15:17 4.9 22:08 0.9	15 04:29 -0.8 10:28 5.5 Su 16:35 -0.4 22:43 6.2	23 05:11 4.2 11:29 0.6 M 17:42 5.2	31 04:53 0.2 10:56 4.6 Tu 17:01 0.7 23:03 5.0
8 03:40 4.4 10:10 0.4 Su 16:13 5.2 23:08 0.6	16 05:18 -0.7 11:25 5.5 M 17:28 -0.2 23:39 5.9	24 00:13 0.5 06:06 4.3 Tu 12:15 0.6 18:31 5.3	

Slack water at Sandy Hook occurs 50 minutes after H.W. and 1 hour and 10 minutes after L.W. and lasts about 25 minutes.

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TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Sandy Hook — August 2018

Times and Heights of High and Low Waters

1 05:26 0.3 11:34 4.6 W 17:38 0.9 23:43 4.8	9 00:40 -0.1 06:31 5.0 Th 12:41 -0.2 18:52 6.2	17 01:02 5.0 07:16 0.3 F 13:38 5.3 19:56 0.8	25 01:55 0.3 07:57 4.7 Sa 14:02 0.5 20:10 5.4
2 05:59 0.4 12:15 4.7 Th 18:20 1.0	10 01:35 -0.4 07:28 5.3 F 13:38 -0.4 19:47 6.4	18 01:55 4.6 08:12 0.7 Sa 14:29 5.2 ☉ 21:00 0.9	26 02:34 0.2 08:34 4.9 Su 14:44 0.4 ○ 20:47 5.4
3 00:28 4.7 06:37 0.5 F 12:59 4.8 19:14 1.1	11 02:27 -0.7 08:22 5.6 Sa 14:33 -0.6 ● 20:39 6.5	19 02:48 4.4 09:12 0.9 Su 15:21 5.0 22:01 1.0	27 03:12 0.1 09:10 4.9 M 15:24 0.4 21:21 5.4
4 01:18 4.6 07:24 0.6 Sa 13:48 4.9 ☉ 20:26 1.1	12 03:18 -0.8 09:14 5.8 Su 15:27 -0.6 21:30 6.4	20 03:44 4.2 10:09 1.0 M 16:15 5.0 22:56 0.9	28 03:48 0.1 09:44 5.0 Tu 16:03 0.5 21:56 5.2
5 02:13 4.5 08:28 0.6 Su 14:42 5.1 21:40 0.9	13 04:06 -0.8 10:07 5.8 M 16:19 -0.5 22:22 6.1	21 04:42 4.1 11:01 0.9 Tu 17:10 5.0 23:45 0.7	29 04:21 0.2 10:18 5.0 W 16:40 0.5 22:33 5.1
6 03:14 4.4 09:37 0.5 M 15:43 5.3 22:45 0.6	14 04:53 -0.7 11:00 5.8 Tu 17:09 -0.3 23:15 5.8	22 05:39 4.2 11:49 0.9 W 18:02 5.1	30 04:54 0.2 10:54 5.0 Th 17:18 0.6 23:14 4.9
7 04:21 4.5 10:42 0.3 Tu 16:48 5.6 23:44 0.3	15 05:39 -0.4 11:54 5.6 W 18:00 0.1	23 00:30 0.6 06:31 4.4 Th 12:34 0.7 18:49 5.2	31 05:27 0.3 11:36 5.0 F 17:59 0.8
8 05:28 4.7 11:42 0.1 W 17:52 5.9	16 00:09 5.4 06:26 -0.1 Th 12:47 5.5 18:55 0.4	24 01:13 0.4 07:16 4.6 F 13:19 0.6 19:31 5.4	

Slack water at Sandy Hook occurs 50 minutes after H.W. and 1 hour and 10 minutes after L.W. and lasts about 25 minutes.

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TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Sandy Hook — September 2018

Times and Heights of High and Low Waters

1 00:02 4.7 06:05 0.5 Sa 12:25 5.1 18:51 0.9	9 02:05 -0.6 08:04 5.9 Su 14:18 -0.5 ● 20:21 6.3	17 02:19 4.2 08:29 1.2 M 14:45 4.8 21:25 1.1	25 02:37 0.1 08:37 5.3 Tu 15:00 0.2 ○ 20:53 5.3
2 00:56 4.6 06:52 0.6 Su 13:19 5.2 20:02 1.0	10 02:53 -0.7 08:53 6.0 M 15:10 -0.6 21:10 6.2	18 03:14 4.1 09:33 1.3 Tu 15:38 4.7 22:22 1.0	26 03:14 0.0 09:10 5.4 W 15:40 0.2 21:29 5.2
3 01:55 4.5 07:59 0.7 M 14:18 5.2 ● 21:19 0.9	11 03:40 -0.7 09:42 6.1 Tu 15:59 -0.5 21:58 5.9	19 04:11 4.1 10:30 1.2 W 16:34 4.8 23:12 0.9	27 03:50 0.0 09:45 5.4 Th 16:20 0.3 22:08 5.1
4 02:59 4.5 09:17 0.7 Tu 15:22 5.4 22:27 0.6	12 04:24 -0.5 10:31 6.0 W 16:47 -0.2 22:48 5.5	20 05:08 4.2 11:21 1.0 Th 17:28 4.9 23:57 0.7	28 04:25 0.1 10:22 5.4 F 17:01 0.3 22:52 4.9
5 04:06 4.6 10:28 0.5 W 16:30 5.5 23:27 0.3	13 05:07 -0.2 11:21 5.7 Th 17:35 0.1 23:40 5.1	21 06:00 4.4 12:08 0.8 F 18:17 5.0	29 05:02 0.2 11:07 5.4 Sa 17:45 0.5 23:45 4.7
6 05:14 4.8 11:30 0.2 Th 17:37 5.8	14 05:50 0.2 12:12 5.5 F 18:25 0.5	22 00:39 0.5 06:46 4.7 Sa 12:52 0.6 19:01 5.2	30 05:43 0.4 12:01 5.3 Su 18:39 0.7
7 00:22 -0.1 06:16 5.2 F 12:28 -0.1 18:37 6.1	15 00:33 4.8 06:36 0.6 Sa 13:03 5.2 19:19 0.8	23 01:20 0.3 07:26 4.9 Su 13:36 0.5 19:40 5.3	
8 01:14 -0.4 07:12 5.6 Sa 13:24 -0.4 19:31 6.3	16 01:26 4.4 07:28 1.0 Su 13:53 5.0 ● 20:21 1.0	24 01:59 0.1 08:03 5.1 M 14:19 0.3 20:17 5.4	

Slack water at Sandy Hook occurs 50 minutes after H.W. and 1 hour and 10 minutes after L.W. and lasts about 25 minutes.

The phase age of the tide is the interval by which spring tides follow full or new moon, and thus likewise the interval by which neap tide follows the moon's first and third quarters. The phase of the tides at Ft. Hamilton is 26.5 hours.

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Sandy Hook — October 2018

Times and Heights of High and Low Waters

1 00:44 4.5 06:35 0.6 M 13:00 5.3 19:47 0.8	9 02:27 -0.6 08:31 6.2 Tu 14:51 -0.5 ● 20:48 5.8	17 02:42 4.0 08:51 1.4 W 14:59 4.5 21:41 1.0	25 02:41 -0.2 08:40 5.7 Th 15:19 -0.1 21:05 5.1
2 01:46 4.5 07:45 0.8 Tu 14:03 5.3 ● 21:03 0.7	10 03:11 -0.5 09:16 6.1 W 15:39 -0.4 21:34 5.5	18 03:36 4.0 09:55 1.4 Th 15:53 4.5 22:33 0.9	26 03:21 -0.2 09:18 5.7 F 16:02 -0.1 21:48 5.0
3 02:50 4.5 09:05 0.8 W 15:09 5.3 22:11 0.5	11 03:54 -0.3 10:01 6.0 Th 16:24 -0.2 22:21 5.2	19 04:30 4.2 10:49 1.1 F 16:47 4.6 23:19 0.7	27 04:01 -0.1 10:00 5.7 Sa 16:47 -0.1 22:37 4.8
4 03:56 4.7 10:17 0.5 Th 16:16 5.4 23:09 0.2	12 04:35 0.0 10:48 5.7 F 17:09 0.1 23:11 4.8	20 05:23 4.4 11:38 0.9 Sa 17:38 4.7	28 04:44 0.0 10:49 5.6 Su 17:35 0.1 23:34 4.6
5 05:01 5.0 11:19 0.2 F 17:21 5.6	13 05:15 0.3 11:36 5.4 Sa 17:54 0.4	21 00:01 0.4 06:09 4.7 Su 12:23 0.6 18:25 4.9	29 05:31 0.2 11:46 5.5 M 18:30 0.3
6 00:02 -0.2 06:01 5.3 Sa 12:16 -0.1 18:20 5.8	14 00:03 4.5 05:57 0.7 Su 12:25 5.1 18:43 0.7	22 00:41 0.2 06:51 5.0 M 13:08 0.4 19:07 5.1	30 00:36 4.5 06:27 0.5 Tu 12:49 5.3 19:35 0.4
7 00:52 -0.4 06:55 5.7 Su 13:10 -0.3 19:13 5.9	15 00:56 4.2 06:44 1.1 M 13:15 4.8 19:39 1.0	23 01:21 0.0 07:29 5.3 Tu 13:52 0.1 19:46 5.1	31 01:38 4.5 07:37 0.6 W 13:52 5.2 ● 20:46 0.4
8 01:40 -0.6 07:44 6.0 M 14:01 -0.5 20:01 5.9	16 01:49 4.1 07:42 1.4 Tu 14:06 4.6 ● 20:41 1.1	24 02:01 -0.1 08:04 5.5 W 14:35 0.0 ○ 20:25 5.2	

Slack water at Sandy Hook occurs 50 minutes after H.W. and 1 hour and 10 minutes after L.W. and lasts about 25 minutes.

The phase age of the tide is the interval by which spring tides follow full or new moon, and thus likewise the interval by which neap tide follows the moon's first and third quarters. The phase of the tides at Ft. Hamilton is 26.5 hours.

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Sandy Hook — November 2018

Times and Heights of High and Low Waters

1 02:41 4.6 08:55 0.6 Th 14:56 5.2 21:51 0.2	9 02:25 -0.2 08:33 5.8 F 15:02 -0.3 20:56 4.8	17 02:46 4.0 09:11 1.1 Sa 14:59 4.3 21:35 0.5	25 02:43 -0.4 08:45 5.9 Su 15:34 -0.5 21:25 4.7
2 03:43 4.8 10:05 0.4 F 16:00 5.2 22:49 -0.1	10 03:05 0.1 09:16 5.5 Sa 15:44 -0.1 21:43 4.5	18 03:37 4.3 10:03 0.8 Su 15:52 4.4 22:19 0.3	26 03:31 -0.3 09:38 5.7 M 16:24 -0.4 22:24 4.6
3 04:45 5.0 11:07 0.2 Sa 17:02 5.2 23:40 -0.3	11 03:44 0.4 10:01 5.2 Su 16:25 0.2 22:33 4.2	19 04:26 4.6 10:51 0.5 M 16:43 4.5 23:01 0.1	27 04:23 -0.1 10:36 5.5 Tu 17:18 -0.3 23:25 4.6
4 04:43 5.4 11:02 -0.1 Su 17:00 5.3 23:29 -0.5	12 04:24 0.7 10:48 4.9 M 17:09 0.5 23:24 4.0	20 05:11 4.9 11:38 0.2 Tu 17:31 4.7 23:43 -0.1	28 05:20 0.1 11:38 5.3 W 18:18 -0.1
5 05:36 5.7 11:54 -0.3 M 17:53 5.3	13 05:06 1.0 11:37 4.6 Tu 17:56 0.7	21 05:53 5.3 12:25 -0.1 W 18:16 4.8	29 00:26 4.6 06:26 0.3 Th 12:39 5.1 19:23 0.0
6 00:15 -0.5 06:24 5.9 Tu 12:44 -0.4 18:41 5.3	14 00:15 3.9 05:56 1.2 W 12:26 4.5 18:52 0.8	22 00:27 -0.3 06:34 5.6 Th 13:12 -0.3 19:00 4.9	30 01:26 4.7 07:40 0.4 F 13:39 5.0 ● 20:27 -0.1
7 01:00 -0.5 07:08 6.0 W 13:32 -0.5 ● 19:26 5.2	15 01:05 3.8 07:01 1.3 Th 13:16 4.3 ● 19:51 0.9	23 01:11 -0.4 07:15 5.8 F 13:59 -0.5 ○ 19:45 4.9	
8 01:43 -0.4 07:51 6.0 Th 14:18 -0.4 20:11 5.0	16 01:56 3.9 08:10 1.3 F 14:07 4.3 20:46 0.7	24 01:57 -0.4 07:58 5.9 Sa 14:46 -0.5 20:32 4.8	

Slack water at Sandy Hook occurs 50 minutes after H.W. and 1 hour and 10 minutes after L.W. and lasts about 25 minutes.

The phase age of the tide is the interval by which spring tides follow full or new moon, and thus likewise the interval by which neap tide follows the moon's first and third quarters. The phase of the tides at Ft. Hamilton is 26.5 hours.

Sandy Hook — December 2018

Times and Heights of High and Low Waters

1 02:25 4.8 Sa 14:40 4.8 21:24 -0.2	9 02:40 0.0 Su 08:49 5.3 15:20 -0.2 21:17 4.2	17 02:45 4.2 09:24 0.8 M 15:02 4.0 21:33 0.2	25 03:20 -0.7 09:27 5.8 Tu 16:09 -0.9 22:10 4.8
2 03:24 5.0 Su 09:51 0.1 15:40 4.7 22:16 -0.3	10 03:19 0.2 09:30 5.0 M 15:59 0.0 22:03 4.0	18 03:36 4.5 10:18 0.5 Tu 15:59 4.1 22:21 0.0	26 04:13 -0.6 10:25 5.6 W 17:00 -0.7 23:09 4.8
3 04:22 5.2 10:46 -0.1 M 16:38 4.7 23:04 -0.4	11 03:57 0.4 10:14 4.8 Tu 16:37 0.1 22:50 3.9	19 04:28 4.8 11:09 0.1 W 16:55 4.3 23:08 -0.2	27 05:08 -0.3 11:23 5.3 Th 17:55 -0.5
4 05:15 5.4 11:37 -0.3 Tu 17:32 4.7 23:49 -0.4	12 04:35 0.7 10:59 4.5 W 17:18 0.3 23:38 3.8	20 05:19 5.2 11:59 -0.2 Th 17:48 4.5 23:57 -0.5	28 00:08 4.8 06:10 -0.1 F 12:21 5.0 18:55 -0.4
5 06:03 5.6 12:26 -0.4 W 18:21 4.7	13 05:17 0.9 11:45 4.3 Th 18:02 0.5	21 06:07 5.6 12:50 -0.5 F 18:38 4.7	29 01:05 4.8 07:19 0.1 Sa 13:18 4.7 ● 19:57 -0.3
6 00:34 -0.4 06:47 5.6 Th 13:13 -0.4 19:06 4.7	14 00:24 3.8 06:09 1.1 F 12:31 4.2 18:53 0.6	22 00:47 -0.6 06:55 5.8 Sa 13:40 -0.8 ○ 19:28 4.8	30 02:02 4.8 08:28 0.2 Su 14:16 4.5 20:56 -0.2
7 01:17 -0.3 07:28 5.6 F 13:57 -0.4 ● 19:50 4.6	15 01:10 3.8 07:16 1.1 Sa 13:18 4.1 ● 19:49 0.6	23 01:38 -0.7 07:43 6.0 Su 14:30 -0.9 20:18 4.9	31 02:59 4.9 09:31 0.1 M 15:15 4.3 21:49 -0.2
8 01:59 -0.1 08:08 5.5 Sa 14:39 -0.3 20:33 4.4	16 01:56 4.0 08:24 1.0 Su 14:08 4.0 20:43 0.4	24 02:29 -0.8 08:33 5.9 M 15:19 -1.0 21:12 4.8	

Slack water at Sandy Hook occurs 50 minutes after H.W. and 1 hour and 10 minutes after L.W. and lasts about 25 minutes.

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