

## Battery - January 2023

### Times and Heights of High and Low Waters

<b>1</b> Sun	03:47 4.6 10:20 0.2 16:07 3.9 22:24 0.0	<b>9</b> Mon	03:26 0.2 09:30 4.6 16:12 -0.0 22:16 3.8	<b>17</b> Tue	03:22 4.5 10:28 0.3 15:48 3.6 22:27 0.2	<b>25</b> Wed	04:48 -0.6 10:58 5.2 17:19 -0.9 23:35 4.8
<b>2</b> Mon	04:43 4.6 11:13 0.1 17:06 3.8 23:12 0.1	<b>10</b> Tue	04:01 0.3 10:04 4.4 16:46 0.1 22:57 3.7	<b>18</b> Wed	04:28 4.8 11:25 -0.0 17:02 3.8 23:24 -0.1	<b>26</b> Thu	05:43 -0.3 11:52 4.8 18:09 -0.5
<b>3</b> Tue	05:34 4.7 12:02 0.0 17:59 3.8 23:58 0.1	<b>11</b> Wed	04:35 0.5 10:39 4.3 17:19 0.2 23:36 3.7	<b>19</b> Thu	05:32 5.1 12:20 -0.4 18:05 4.0	<b>27</b> Fri	00:28 4.7 06:43 0.1 12:46 4.5 19:03 -0.2
<b>4</b> Wed	06:20 4.8 12:50 -0.1 18:46 3.9	<b>12</b> Thu	05:09 0.6 11:15 4.1 17:50 0.3	<b>20</b> Fri	00:21 -0.4 06:30 5.4 13:14 -0.7 19:01 4.3	<b>28</b> Sat 	01:21 4.6 07:49 0.3 13:40 4.1 20:01 0.1
<b>5</b> Thu	00:43 0.1 07:01 4.8 13:34 -0.1 19:30 4.0	<b>13</b> Fri	00:12 3.8 05:52 0.8 11:56 3.9 18:26 0.4	<b>21</b> Sat 	01:17 -0.6 07:23 5.7 14:06 -1.0 19:54 4.5	<b>29</b> Sun	02:14 4.5 08:54 0.4 14:37 3.8 20:59 0.3
<b>6</b> Fri 	01:27 0.1 07:40 4.8 14:17 -0.2 20:12 4.0	<b>14</b> Sat	00:50 3.9 06:55 0.9 12:42 3.8 19:16 0.5	<b>22</b> Sun	02:12 -0.8 08:16 5.8 14:56 -1.1 20:48 4.7	<b>30</b> Mon	03:10 4.3 09:55 0.4 15:38 3.6 21:54 0.4
<b>7</b> Sat	02:09 0.1 08:18 4.8 14:57 -0.2 20:53 3.9	<b>15</b> Sun 	01:32 4.1 08:17 0.8 13:34 3.7 20:22 0.5	<b>23</b> Mon	03:04 -0.9 09:09 5.7 15:44 -1.2 21:43 4.8	<b>31</b> Tue	04:09 4.3 10:49 0.4 16:41 3.5 22:45 0.5
<b>8</b> Sun	02:49 0.2 08:54 4.7 15:36 -0.1 21:34 3.9	<b>16</b> Mon	02:23 4.3 09:27 0.6 14:36 3.6 21:27 0.4	<b>24</b> Tue	03:56 -0.8 10:03 5.5 16:32 -1.1 22:39 4.8		

East River Constant    HWS Batt. + 1:30    LWS Batt. + 1:20  
 North River Constant    HWS Batt. + 2:20    LWS Batt. + 2:40

East River slack water lasts from 4 to 8 minutes. North River about 35 minutes.  
 North River is running flood 15 feet below the surface 1 hour before turning  
 from ebb to flood at surface. High water slack occurs in the Narrows 15 minutes  
 before the H.W.S. East River and low water slack occurs about 20 minutes  
 before the L.W.S. North River.

## Battery - February 2023

### Times and Heights of High and Low Waters

<b>1</b> Wed	05:07 4.3 11:39 0.3 17:38 3.6 23:34 0.4	<b>9</b> Thu	04:15 0.2 10:05 4.4 16:40 0.0 22:46 4.2	<b>17</b> Fri	05:18 5.0 12:02 -0.3 17:54 4.2	<b>25</b> Sat	06:14 0.1 12:18 4.3 18:22 0.1
<b>2</b> Thu	05:59 4.4 12:26 0.2 18:27 3.8	<b>10</b> Fri	04:49 0.3 10:39 4.2 17:05 0.2 23:20 4.2	<b>18</b> Sat	00:09 -0.3 06:19 5.4 12:55 -0.7 18:50 4.6	<b>26</b> Sun	00:43 4.7 07:16 0.4 13:12 4.0 19:18 0.5
<b>3</b> Fri	00:21 0.3 06:44 4.5 13:11 0.0 19:11 3.9	<b>11</b> Sat	05:27 0.5 11:21 4.0 17:34 0.3 23:59 4.3	<b>19</b> Sun	01:05 -0.6 07:13 5.6 13:46 -0.9 19:41 4.9	<b>27</b> Mon	01:34 4.4 08:21 0.7 14:08 3.7 20:21 0.8
<b>4</b> Sat	01:06 0.2 07:24 4.6 13:52 -0.1 19:51 4.0	<b>12</b> Sun	06:19 0.6 12:09 3.8 18:16 0.4	<b>20</b> Mon	01:59 -0.9 08:03 5.7 14:34 -1.1 20:31 5.1	<b>28</b> Tue	02:30 4.2 09:24 0.7 15:09 3.5 21:23 0.9
<b>5</b> Sun ○	01:48 0.1 08:00 4.7 14:32 -0.2 20:30 4.1	<b>13</b> Mon	00:46 4.4 07:38 0.7 13:05 3.7 19:23 0.6	<b>21</b> Tue	02:50 -1.0 08:52 5.7 15:20 -1.2 21:21 5.2		
<b>6</b> Mon	02:28 0.1 08:34 4.7 15:08 -0.2 21:06 4.1	<b>14</b> Tue	01:42 4.5 08:59 0.6 14:10 3.6 20:55 0.6	<b>22</b> Wed	03:40 -0.9 09:42 5.5 16:05 -1.0 22:12 5.2		
<b>7</b> Tue	03:06 0.0 09:06 4.6 15:42 -0.2 21:41 4.1	<b>15</b> Wed	02:48 4.5 10:06 0.4 15:27 3.6 22:07 0.3	<b>23</b> Thu	04:29 -0.7 10:34 5.1 16:48 -0.7 23:03 5.1		
<b>8</b> Wed	03:41 0.1 09:36 4.5 16:13 -0.1 22:14 4.1	<b>16</b> Thu	04:05 4.7 11:05 0.1 16:47 3.8 23:10 0.0	<b>24</b> Fri	05:20 -0.3 11:26 4.7 17:33 -0.3 23:53 4.9		

East River Constant    HWS Batt. + 1:30    LWS Batt. + 1:20  
North River Constant    HWS Batt. + 2:20    LWS Batt. + 2:40

East River slack water lasts from 4 to 8 minutes. North River about 35 minutes. North River is running flood 15 feet below the surface 1 hour before turning from ebb to flood at surface. High water slack occurs in the Narrows 15 minutes before the H.W.S. East River and low water slack occurs about 20 minutes before the L.W.S. North River.

**TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME**

**Battery - March 2023**

**Times and Heights of High and Low Waters**

<b>1</b> Wed	03:32 4.1 10:20 0.7 16:13 3.5 22:19 0.9	<b>9</b> Thu	03:21 -0.0 09:07 4.6 15:39 -0.1 21:32 4.7	<b>17</b> Fri	04:51 4.8 11:46 0.1 17:37 4.1 23:58 0.2	<b>25</b> Sat	05:56 -0.2 12:00 4.6 17:58 0.1
<b>2</b> Thu	04:36 4.1 11:11 0.6 17:12 3.7 23:09 0.8	<b>10</b> Fri	03:57 0.0 09:37 4.4 16:06 0.1 22:02 4.7	<b>18</b> Sat	06:04 5.0 12:41 -0.2 18:41 4.5	<b>26</b> Sun	00:16 5.1 06:46 0.2 12:53 4.3 18:42 0.6
<b>3</b> Fri	05:33 4.2 11:57 0.4 18:03 3.9 23:57 0.6	<b>11</b> Sat	04:33 0.1 10:14 4.3 16:33 0.2 22:38 4.8	<b>19</b> Sun	00:56 -0.2 07:05 5.3 13:33 -0.5 19:35 5.0	<b>27</b> Mon	01:05 4.7 07:41 0.6 13:46 4.0 19:35 1.0
<b>4</b> Sat	06:20 4.4 12:41 0.3 18:47 4.1	<b>12</b> Sun	06:13 0.3 11:59 4.1 18:05 0.4	<b>20</b> Mon	01:51 -0.5 07:57 5.5 14:22 -0.8 20:24 5.3	<b>28</b> Tue	01:56 4.4 08:44 0.9 14:41 3.8 20:40 1.3
<b>5</b> Sun	00:42 0.4 07:00 4.6 13:22 0.1 19:25 4.3	<b>13</b> Mon	00:24 4.7 07:03 0.5 12:52 3.9 18:49 0.6	<b>21</b> Tue	02:44 -0.7 08:45 5.6 ● 15:08 -0.9 21:10 5.6	<b>29</b> Wed	02:50 4.2 09:49 1.0 ● 15:39 3.7 21:48 1.3
<b>6</b> Mon	01:24 0.2 07:36 4.7 14:00 -0.0 20:01 4.5	<b>14</b> Tue	01:18 4.7 08:18 0.7 13:53 3.8 20:00 0.8	<b>22</b> Wed	03:34 -0.8 09:32 5.5 15:53 -0.9 21:55 5.6	<b>30</b> Thu	03:51 4.0 10:46 0.9 16:40 3.7 22:48 1.3
<b>7</b> Tue	02:05 0.1 08:08 4.8 ○ 14:35 -0.1 20:34 4.6	<b>15</b> Wed	02:20 4.7 09:38 0.6 ● 15:02 3.7 21:41 0.8	<b>23</b> Thu	04:22 -0.7 10:19 5.3 16:35 -0.7 22:41 5.5	<b>31</b> Fri	04:56 4.0 11:37 0.8 17:39 3.9 23:40 1.1
<b>8</b> Wed	02:44 -0.0 08:38 4.7 15:08 -0.1 21:04 4.6	<b>16</b> Thu	03:31 4.7 10:47 0.4 16:20 3.8 22:55 0.5	<b>24</b> Fri	05:09 -0.5 11:09 4.9 17:17 -0.4 23:28 5.3		

East River Constant    HWS Batt. + 1:30    LWS Batt. + 1:20  
North River Constant    HWS Batt. + 2:20    LWS Batt. + 2:40

East River slack water lasts from 4 to 8 minutes. North River about 35 minutes. North River is running flood 15 feet below the surface 1 hour before turning from ebb to flood at surface. High water slack occurs in the Narrows 15 minutes before the H.W.S. East River and low water slack occurs about 20 minutes before the L.W.S. North River.

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Battery - April 2023

Times and Heights of High and Low Waters

<b>1</b> Sat	05:56 4.2 12:22 0.7 18:31 4.1	<b>9</b> Sun	05:20 0.0 10:58 4.3 17:13 0.3 23:12 5.2	<b>17</b> Mon	00:42 -0.0 06:46 5.2 13:07 -0.4 19:16 5.3	<b>25</b> Tue	00:29 4.8 07:09 0.6 13:22 4.0 18:56 1.2
<b>2</b> Sun	00:28 0.8 06:45 4.4 13:04 0.5 19:15 4.4	<b>10</b> Mon	06:05 0.2 11:50 4.2 17:52 0.5	<b>18</b> Tue	01:35 -0.3 07:37 5.3 13:54 -0.5 20:03 5.7	<b>26</b> Wed	01:20 4.5 08:06 0.9 14:15 3.9 19:57 1.5
<b>3</b> Mon	01:13 0.6 07:27 4.5 13:43 0.3 19:53 4.6	<b>11</b> Tue	00:05 5.1 06:59 0.4 12:51 4.1 18:44 0.7	<b>19</b> Wed	02:27 -0.5 08:24 5.3 14:40 -0.5 20:46 5.8	<b>27</b> Thu	02:13 4.3 09:08 1.1 15:08 3.8 ☾ 21:07 1.6
<b>4</b> Tue	01:57 0.4 08:03 4.7 14:21 0.2 20:26 4.9	<b>12</b> Wed	01:06 5.0 08:08 0.6 13:55 4.0 20:06 0.9	<b>20</b> Thu	03:16 -0.5 09:10 5.2 ● 15:24 -0.4 21:28 5.8	<b>28</b> Fri	03:07 4.1 10:05 1.1 16:03 3.9 22:11 1.5
<b>5</b> Wed	02:39 0.2 08:36 4.7 14:58 0.1 20:57 5.1	<b>13</b> Thu	02:13 4.9 09:22 0.6 ☾ 15:03 4.0 21:34 0.9	<b>21</b> Fri	04:03 -0.5 09:57 5.0 16:06 -0.2 22:11 5.7	<b>29</b> Sat	04:05 4.1 10:55 1.0 16:58 4.0 23:05 1.3
<b>6</b> Thu	03:20 0.0 09:07 4.7 ○ 15:32 0.0 21:25 5.2	<b>14</b> Fri	03:24 4.8 10:27 0.4 16:15 4.2 22:44 0.6	<b>22</b> Sat	04:49 -0.3 10:45 4.7 16:47 0.1 22:54 5.4	<b>30</b> Sun	05:04 4.1 11:39 0.8 17:49 4.3 23:54 1.0
<b>7</b> Fri	04:00 -0.1 09:40 4.6 16:06 0.1 21:55 5.3	<b>15</b> Sat	04:38 4.9 11:25 0.1 17:24 4.5 23:45 0.3	<b>23</b> Sun	05:33 -0.1 11:36 4.5 17:28 0.5 23:40 5.1		
<b>8</b> Sat	04:40 -0.1 10:15 4.5 16:38 0.2 22:30 5.3	<b>16</b> Sun	05:47 5.0 12:17 -0.2 18:24 4.9	<b>24</b> Mon	06:19 0.3 12:29 4.2 18:09 0.9		

East River Constant    HWS Batt. + 1:30    LWS Batt. + 1:20  
North River Constant    HWS Batt. + 2:20    LWS Batt. + 2:40

East River slack water lasts from 4 to 8 minutes. North River about 35 minutes. North River is running flood 15 feet below the surface 1 hour before turning from ebb to flood at surface. High water slack occurs in the Narrows 15 minutes before the H.W.S. East River and low water slack occurs about 20 minutes before the L.W.S. North River.

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Battery - May 2023

Times and Heights of High and Low Waters

<b>1</b> Mon	05:57 4.2 12:20 0.6 18:34 4.6	<b>9</b> Tue	05:57 -0.0 11:50 4.3 17:51 0.5	<b>17</b> Wed	01:18 -0.1 07:15 4.9 13:25 -0.2 19:40 5.7	<b>25</b> Thu	00:47 4.5 07:27 0.8 13:46 4.0 19:15 1.4
<b>2</b> Tue	00:41 0.8 06:43 4.4 13:00 0.5 19:12 4.9	<b>10</b> Wed	00:00 5.3 06:52 0.2 12:54 4.3 18:51 0.7	<b>18</b> Thu	02:09 -0.2 08:04 4.9 14:11 -0.1 20:22 5.8	<b>26</b> Fri	01:35 4.4 08:21 1.0 14:34 4.0 20:19 1.6
<b>3</b> Wed	01:26 0.5 07:24 4.5 13:39 0.3 19:47 5.2	<b>11</b> Thu	01:06 5.2 07:56 0.3 13:57 4.3 20:06 0.9	<b>19</b> Fri	02:58 -0.3 08:50 4.8 14:56 0.0 ● 21:03 5.7	<b>27</b> Sat	02:22 4.2 09:16 1.0 15:21 4.0 ● 21:26 1.5
<b>4</b> Thu	02:11 0.2 08:01 4.5 14:18 0.2 20:19 5.4	<b>12</b> Fri	02:10 5.0 09:02 0.3 ● 15:00 4.4 21:23 0.8	<b>20</b> Sat	03:44 -0.2 09:36 4.6 15:40 0.2 21:44 5.6	<b>28</b> Sun	03:09 4.1 10:05 1.0 16:09 4.2 22:25 1.4
<b>5</b> Fri	02:56 0.0 08:38 4.6 ○ 14:57 0.2 20:51 5.6	<b>13</b> Sat	03:14 4.9 10:04 0.2 16:03 4.6 22:30 0.6	<b>21</b> Sun	04:28 -0.1 10:24 4.5 16:21 0.5 22:25 5.3	<b>29</b> Mon	04:00 4.1 10:50 0.9 16:57 4.4 23:17 1.1
<b>6</b> Sat	03:40 -0.1 09:16 4.5 15:37 0.2 21:27 5.7	<b>14</b> Sun	04:20 4.9 11:00 0.0 17:05 4.9 23:30 0.4	<b>22</b> Mon	05:11 0.1 11:14 4.3 17:02 0.7 23:10 5.0	<b>30</b> Tue	04:55 4.0 11:32 0.7 17:42 4.7
<b>7</b> Sun	04:24 -0.2 10:00 4.5 16:18 0.2 22:09 5.6	<b>15</b> Mon	05:24 4.9 11:50 -0.1 18:03 5.2	<b>23</b> Tue	05:54 0.3 12:06 4.2 17:42 1.0 23:58 4.8	<b>31</b> Wed	00:07 0.9 05:50 4.1 12:13 0.6 18:25 5.0
<b>8</b> Mon	05:09 -0.1 10:50 4.4 17:02 0.3 23:00 5.5	<b>16</b> Tue	00:25 0.2 06:23 4.9 12:39 -0.2 18:54 5.5	<b>24</b> Wed	06:38 0.6 12:57 4.1 18:24 1.2		

East River Constant    HWS Batt. + 1:30    LWS Batt. + 1:20  
North River Constant    HWS Batt. + 2:20    LWS Batt. + 2:40

East River slack water lasts from 4 to 8 minutes. North River about 35 minutes. North River is running flood 15 feet below the surface 1 hour before turning from ebb to flood at surface. High water slack occurs in the Narrows 15 minutes before the H.W.S. East River and low water slack occurs about 20 minutes before the L.W.S. North River.

**TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME**

**Battery - June 2023**

**Times and Heights of High and Low Waters**

<b>1</b> Thu	00:55 0.6 06:40 4.2 12:55 0.5 19:04 5.3	<b>9</b> Fri	01:00 5.4 07:37 -0.0 13:48 4.7 19:55 0.6	<b>17</b> Sat	02:38 0.0 08:32 4.5 14:31 0.4 20:42 5.5	<b>25</b> Sun	01:34 4.3 08:16 0.9 14:34 4.2 20:34 1.5
<b>2</b> Fri	01:43 0.3 07:27 4.3 13:40 0.3 19:44 5.6	<b>10</b> Sat ☾	02:00 5.2 08:37 0.0 14:46 4.8 21:06 0.7	<b>18</b> Sun ●	03:24 0.0 09:18 4.4 15:16 0.5 21:22 5.4	<b>26</b> Mon ☾	02:15 4.1 09:04 0.9 15:14 4.3 21:41 1.4
<b>3</b> Sat	02:32 0.0 08:11 4.4 14:27 0.2 20:25 5.8	<b>11</b> Sun	02:58 4.9 09:36 0.1 15:43 5.0 22:12 0.6	<b>19</b> Mon	04:07 0.1 10:04 4.4 15:59 0.6 22:03 5.2	<b>27</b> Tue	03:00 4.0 09:53 0.9 15:56 4.5 22:39 1.2
<b>4</b> Sun ○	03:20 -0.2 08:57 4.5 15:15 0.2 21:09 5.9	<b>12</b> Mon	03:57 4.7 10:31 0.0 16:41 5.1 23:12 0.5	<b>20</b> Tue	04:48 0.2 10:51 4.3 16:39 0.8 22:45 5.0	<b>28</b> Wed	03:52 3.9 10:40 0.8 16:43 4.8 23:33 0.9
<b>5</b> Mon	04:08 -0.3 09:48 4.5 16:04 0.1 21:59 5.8	<b>13</b> Tue	04:59 4.6 11:22 0.1 17:37 5.3	<b>21</b> Wed	05:28 0.3 11:39 4.2 17:18 0.9 23:29 4.8	<b>29</b> Thu	04:54 3.9 11:28 0.7 17:34 5.1
<b>6</b> Tue	04:56 -0.3 10:44 4.5 16:54 0.2 22:56 5.7	<b>14</b> Wed	00:08 0.3 05:59 4.5 12:11 0.1 18:30 5.4	<b>22</b> Thu	06:08 0.5 12:27 4.1 17:57 1.1	<b>30</b> Fri	00:25 0.6 05:58 4.0 12:18 0.5 18:26 5.4
<b>7</b> Wed	05:46 -0.3 11:47 4.5 17:48 0.3 23:58 5.5	<b>15</b> Thu	01:00 0.2 06:55 4.5 12:58 0.2 19:17 5.5	<b>23</b> Fri	00:13 4.6 06:48 0.7 13:12 4.1 18:38 1.3		
<b>8</b> Thu	06:39 -0.2 12:49 4.6 18:48 0.5	<b>16</b> Fri	01:50 0.1 07:45 4.5 13:45 0.3 20:01 5.6	<b>24</b> Sat	00:55 4.5 07:30 0.8 13:54 4.1 19:29 1.4		

East River Constant    HWS Batt. + 1:30    LWS Batt. + 1:20  
North River Constant    HWS Batt. + 2:20    LWS Batt. + 2:40

East River slack water lasts from 4 to 8 minutes. North River about 35 minutes. North River is running flood 15 feet below the surface 1 hour before turning from ebb to flood at surface. High water slack occurs in the Narrows 15 minutes before the H.W.S. East River and low water slack occurs about 20 minutes before the L.W.S. North River.



**TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME**

**Battery - July 2023**

**Times and Heights of High and Low Waters**

<b>1</b> Sat	01:17 0.3 06:57 4.2 13:10 0.4 19:16 5.7	<b>9</b> Sun	01:42 5.2 08:07 -0.1 14:24 5.1 20:46 0.6	<b>17</b> Mon	03:02 0.2 08:58 4.4 14:54 0.6 21:04 5.2	<b>25</b> Tue	01:27 4.1 07:44 0.9 14:17 4.6 20:53 1.3
<b>2</b> Sun	02:09 -0.0 07:50 4.4 14:04 0.2 20:06 5.9	<b>10</b> Mon	02:37 4.8 09:05 0.1 15:18 5.2 21:52 0.6	<b>18</b> Tue	03:43 0.2 09:41 4.4 15:37 0.7 21:43 5.1	<b>26</b> Wed	02:13 4.0 08:39 1.0 14:59 4.7 22:02 1.2
<b>3</b> Mon	03:01 -0.3 08:42 4.6 14:58 0.0 20:57 6.0	<b>11</b> Tue	03:34 4.5 10:01 0.2 16:13 5.2 22:53 0.6	<b>19</b> Wed	04:23 0.2 10:24 4.4 16:17 0.7 22:20 5.0	<b>27</b> Thu	03:08 3.9 09:48 1.0 15:51 4.9 23:03 1.0
<b>4</b> Tue	03:51 -0.5 09:36 4.7 15:52 -0.1 21:51 6.0	<b>12</b> Wed	04:34 4.3 10:54 0.4 17:10 5.2 23:48 0.5	<b>20</b> Thu	05:00 0.3 11:08 4.4 16:54 0.8 22:58 4.9	<b>28</b> Fri	04:13 3.9 10:52 0.8 16:52 5.1 23:59 0.6
<b>5</b> Wed	04:40 -0.6 10:33 4.8 16:44 -0.1 22:48 5.9	<b>13</b> Thu	05:37 4.2 11:45 0.5 18:05 5.2	<b>21</b> Fri	05:35 0.4 11:50 4.3 17:30 0.9 23:34 4.7	<b>29</b> Sat	05:27 4.0 11:52 0.6 17:57 5.4
<b>6</b> Thu	05:29 -0.6 11:33 4.9 17:38 0.0 23:47 5.7	<b>14</b> Fri	00:40 0.4 06:35 4.2 12:34 0.5 18:56 5.2	<b>22</b> Sat	06:08 0.5 12:30 4.3 18:07 1.1	<b>30</b> Sun	00:54 0.3 06:35 4.2 12:50 0.4 18:58 5.7
<b>7</b> Fri	06:19 -0.5 12:33 5.0 18:35 0.2	<b>15</b> Sat	01:30 0.3 07:27 4.2 13:22 0.6 19:42 5.3	<b>23</b> Sun	00:10 4.5 06:38 0.7 13:07 4.4 18:47 1.2	<b>31</b> Mon	01:48 -0.0 07:34 4.5 13:48 0.1 19:53 5.9
<b>8</b> Sat	00:46 5.5 07:11 -0.3 13:29 5.1 19:38 0.5	<b>16</b> Sun	02:17 0.2 08:14 4.3 14:09 0.6 20:24 5.3	<b>24</b> Mon	00:46 4.3 07:07 0.8 13:41 4.4 19:41 1.3		

East River Constant    HWS Batt. + 1:30    LWS Batt. + 1:20  
North River Constant    HWS Batt. + 2:20    LWS Batt. + 2:40

East River slack water lasts from 4 to 8 minutes. North River about 35 minutes. North River is running flood 15 feet below the surface 1 hour before turning from ebb to flood at surface. High water slack occurs in the Narrows 15 minutes before the H.W.S. East River and low water slack occurs about 20 minutes before the L.W.S. North River.

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

**Battery - August 2023**

**Times and Heights of High and Low Waters**

<b>1</b> Tue ○	02:40 -0.3 08:28 4.8 14:44 -0.1 20:46 6.1	<b>9</b> Wed	03:11 4.3 09:30 0.6 15:43 5.1 22:30 0.8	<b>17</b> Thu	03:52 0.2 09:53 4.6 15:53 0.6 21:52 5.1	<b>25</b> Fri	02:41 3.9 09:07 1.1 15:16 5.0 22:39 1.0
<b>2</b> Wed	03:30 -0.6 09:20 5.1 15:38 -0.3 21:38 6.1	<b>10</b> Thu	04:12 4.1 10:28 0.8 16:42 5.0 23:27 0.7	<b>18</b> Fri	04:27 0.2 10:30 4.7 16:30 0.7 22:23 4.9	<b>26</b> Sat	03:52 3.9 10:32 1.0 16:26 5.1 23:38 0.7
<b>3</b> Thu	04:19 -0.7 10:15 5.2 16:31 -0.3 22:32 6.0	<b>11</b> Fri	05:15 4.0 11:22 0.9 17:41 4.9	<b>19</b> Sat	04:59 0.3 11:05 4.6 17:05 0.8 22:54 4.7	<b>27</b> Sun	05:10 4.1 11:37 0.7 17:40 5.4
<b>4</b> Fri	05:06 -0.7 11:11 5.3 17:23 -0.2 23:28 5.7	<b>12</b> Sat	00:19 0.6 06:16 4.1 12:13 0.9 18:36 5.0	<b>20</b> Sun	05:27 0.5 11:38 4.6 17:40 0.9 23:26 4.5	<b>28</b> Mon	00:33 0.3 06:21 4.4 12:37 0.3 18:44 5.7
<b>5</b> Sat	05:53 -0.6 12:07 5.4 18:18 0.1	<b>13</b> Sun	01:07 0.5 07:08 4.2 13:01 0.8 19:23 5.1	<b>21</b> Mon	05:51 0.6 12:10 4.7 18:17 1.0	<b>29</b> Tue	01:26 -0.1 07:19 4.8 13:34 0.0 19:40 6.0
<b>6</b> Sun	00:24 5.4 06:41 -0.3 13:02 5.4 19:17 0.4	<b>14</b> Mon	01:52 0.4 07:54 4.4 13:48 0.7 20:05 5.1	<b>22</b> Tue	00:03 4.3 06:15 0.8 12:45 4.7 19:02 1.2	<b>30</b> Wed	02:17 -0.4 08:12 5.2 14:29 -0.3 20:31 6.1
<b>7</b> Mon	01:19 5.0 07:33 0.0 13:55 5.3 20:21 0.6	<b>15</b> Tue	02:35 0.3 08:36 4.5 14:32 0.7 20:43 5.2	<b>23</b> Wed	00:48 4.1 06:49 0.9 13:27 4.8 20:10 1.3	<b>31</b> Thu ○	03:06 -0.7 09:02 5.5 15:23 -0.4 21:20 6.1
<b>8</b> Tue ◐	02:14 4.7 08:30 0.4 14:48 5.2 21:28 0.7	<b>16</b> Wed ●	03:15 0.3 09:15 4.6 15:13 0.6 21:19 5.2	<b>24</b> Thu ◐	01:41 4.0 07:40 1.1 14:17 4.9 21:31 1.2		

East River Constant    HWS Batt. + 1:30    LWS Batt. + 1:20  
North River Constant    HWS Batt. + 2:20    LWS Batt. + 2:40


East River slack water lasts from 4 to 8 minutes. North River about 35 minutes. North River is running flood 15 feet below the surface 1 hour before turning from ebb to flood at surface. High water slack occurs in the Narrows 15 minutes before the H.W.S. East River and low water slack occurs about 20 minutes before the L.W.S. North River.



**TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME**

**Battery - September 2023**

**Times and Heights of High and Low Waters**

<b>1</b> Fri	03:53 -0.8 09:52 5.7 16:14 -0.4 22:11 5.9	<b>9</b> Sat	04:52 4.0 10:59 1.2 17:14 4.7 23:53 0.8	<b>17</b> Sun	04:21 0.3 10:18 5.0 16:42 0.5 22:18 4.7	<b>25</b> Mon	05:01 4.3 11:26 0.7 17:26 5.3
<b>2</b> Sat	04:38 -0.7 10:43 5.8 17:05 -0.3 23:04 5.6	<b>10</b> Sun	05:52 4.1 11:51 1.1 18:11 4.8	<b>18</b> Mon	04:48 0.5 10:45 5.0 17:18 0.7 22:50 4.5	<b>26</b> Tue	00:12 0.2 06:07 4.7 12:24 0.3 18:29 5.6
<b>3</b> Sun	05:23 -0.5 11:36 5.7 17:57 -0.0 23:59 5.2	<b>11</b> Mon	00:40 0.7 06:44 4.3 12:39 1.0 18:59 4.9	<b>19</b> Tue	05:13 0.6 11:17 5.0 17:55 0.8 23:32 4.3	<b>27</b> Wed	01:03 -0.2 07:04 5.2 13:20 -0.1 19:23 5.8
<b>4</b> Mon	06:09 -0.1 12:30 5.6 18:52 0.3	<b>12</b> Tue	01:22 0.5 07:29 4.5 13:23 0.8 19:40 5.0	<b>20</b> Wed	05:41 0.8 11:59 5.0 18:41 1.0	<b>28</b> Thu	01:52 -0.5 07:54 5.6 14:14 -0.3 20:13 5.9
<b>5</b> Tue	00:55 4.8 06:58 0.3 13:23 5.3 19:54 0.7	<b>13</b> Wed	02:03 0.4 08:09 4.7 14:07 0.7 20:17 5.1	<b>21</b> Thu	00:23 4.1 06:19 1.0 12:51 5.0 19:47 1.1	<b>29</b> Fri	02:39 -0.7 08:41 5.9 15:06 -0.5 21:00 5.8
<b>6</b> Wed 	01:52 4.5 07:54 0.8 14:17 5.1 21:00 0.9	<b>14</b> Thu	02:41 0.3 08:45 4.9 14:48 0.6 20:50 5.1	<b>22</b> Fri 	01:24 4.0 07:14 1.1 13:51 4.9 21:09 1.1	<b>30</b> Sat	03:25 -0.7 09:27 6.0 15:57 -0.5 21:49 5.6
<b>7</b> Thu	02:49 4.2 08:58 1.1 15:12 4.9 22:05 1.0	<b>15</b> Fri 	03:17 0.2 09:19 5.0 15:28 0.5 21:20 5.0	<b>23</b> Sat	02:31 3.9 08:56 1.2 14:58 5.0 22:19 0.9		
<b>8</b> Fri	03:50 4.0 10:02 1.2 16:12 4.7 23:02 0.9	<b>16</b> Sat	03:50 0.3 09:50 5.0 16:06 0.5 21:49 4.9	<b>24</b> Sun	03:45 4.0 10:21 1.0 16:13 5.1 23:18 0.6		

East River Constant    HWS Batt. + 1:30    LWS Batt. + 1:20  
North River Constant    HWS Batt. + 2:20    LWS Batt. + 2:40

East River slack water lasts from 4 to 8 minutes. North River about 35 minutes. North River is running flood 15 feet below the surface 1 hour before turning from ebb to flood at surface. High water slack occurs in the Narrows 15 minutes before the H.W.S. East River and low water slack occurs about 20 minutes before the L.W.S. North River.

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Battery - October 2023

Times and Heights of High and Low Waters

<b>1</b> Sun	04:10 -0.6 10:14 6.0 16:46 -0.3 22:40 5.3	<b>9</b> Mon	05:22 4.1 11:24 1.2 17:37 4.5	<b>17</b> Tue	04:16 0.4 10:07 5.3 17:00 0.3 22:27 4.3	<b>25</b> Wed	05:51 4.9 12:11 0.2 18:10 5.3
<b>2</b> Mon	04:53 -0.3 11:03 5.8 17:35 -0.1 23:34 4.9	<b>10</b> Tue	00:06 0.7 06:14 4.4 12:11 1.0 18:26 4.7	<b>18</b> Wed	04:48 0.5 10:44 5.2 17:42 0.5 23:14 4.1	<b>26</b> Thu	00:38 -0.4 06:46 5.4 13:05 -0.2 19:04 5.4
<b>3</b> Tue	05:37 0.1 11:55 5.5 18:27 0.3	<b>11</b> Wed	00:47 0.6 06:58 4.6 12:56 0.8 19:08 4.8	<b>19</b> Thu	05:23 0.7 11:33 5.1 18:31 0.7	<b>27</b> Fri	01:25 -0.6 07:34 5.7 13:58 -0.4 19:54 5.4
<b>4</b> Wed	00:31 4.5 06:24 0.6 12:49 5.2 19:24 0.7	<b>12</b> Thu	01:25 0.4 07:37 4.9 13:39 0.6 19:45 4.8	<b>20</b> Fri	00:14 4.0 06:08 0.9 12:33 5.0 19:35 0.8	<b>28</b> Sat	02:12 -0.6 08:19 6.0 14:49 -0.5 20:41 5.3
<b>5</b> Thu	01:29 4.3 07:18 1.0 13:44 4.9 20:28 0.9	<b>13</b> Fri	02:02 0.3 08:11 5.1 14:21 0.5 20:18 4.8	<b>21</b> Sat	01:22 3.9 07:14 1.1 13:41 4.9 20:50 0.8	<b>29</b> Sun	02:57 -0.6 09:03 6.0 15:39 -0.5 21:28 5.1
<b>6</b> Fri	02:26 4.1 08:23 1.3 14:40 4.6 21:33 1.0	<b>14</b> Sat	02:38 0.2 08:42 5.2 15:02 0.3 20:49 4.8	<b>22</b> Sun	02:31 4.0 08:53 1.1 14:50 4.9 21:58 0.6	<b>30</b> Mon	03:42 -0.4 09:47 5.9 16:27 -0.4 22:18 4.8
<b>7</b> Sat	03:25 4.0 09:31 1.5 15:39 4.5 22:32 1.0	<b>15</b> Sun	03:12 0.2 09:10 5.3 15:42 0.3 21:19 4.7	<b>23</b> Mon	03:40 4.2 10:10 0.9 16:01 5.0 22:56 0.3	<b>31</b> Tue	04:26 -0.1 10:32 5.6 17:14 -0.1 23:11 4.5
<b>8</b> Sun	04:24 4.0 10:32 1.4 16:40 4.4 23:22 0.9	<b>16</b> Mon	03:45 0.3 09:37 5.3 16:21 0.3 21:50 4.5	<b>24</b> Tue	04:49 4.5 11:14 0.5 17:09 5.1 23:48 -0.1		

East River Constant    HWS Batt. + 1:30    LWS Batt. + 1:20  
North River Constant    HWS Batt. + 2:20    LWS Batt. + 2:40

East River slack water lasts from 4 to 8 minutes. North River about 35 minutes. North River is running flood 15 feet below the surface 1 hour before turning from ebb to flood at surface. High water slack occurs in the Narrows 15 minutes before the H.W.S. East River and low water slack occurs about 20 minutes before the L.W.S. North River.

TIMES ADJUSTED FOR DAYLIGHT SAVINGS TIME

Battery - November 2023

Times and Heights of High and Low Waters

<b>1</b> Wed	05:09 0.3 11:22 5.3 18:02 0.2	<b>9</b> Thu	05:20 4.5 11:25 0.8 17:28 4.3 23:44 0.4	<b>17</b> Fri	04:19 0.4 10:25 5.2 17:22 0.2 23:14 4.0	<b>25</b> Sat	06:14 5.6 12:43 -0.4 18:36 4.8
<b>2</b> Thu	00:07 4.3 05:54 0.7 12:16 4.9 18:54 0.5	<b>10</b> Fri	05:59 4.8 12:09 0.5 18:08 4.4	<b>18</b> Sat	05:12 0.6 11:30 5.0 18:22 0.3	<b>26</b> Sun	00:46 -0.5 06:59 5.7 13:33 -0.5 19:24 4.7
<b>3</b> Fri	01:04 4.1 06:43 1.0 13:11 4.6 19:52 0.8	<b>11</b> Sat	00:21 0.3 06:34 5.0 12:53 0.3 18:45 4.4	<b>19</b> Sun	00:21 4.0 06:21 0.7 12:36 4.9 19:29 0.3	<b>27</b> Mon	01:33 -0.4 07:42 5.7 14:21 -0.5 20:11 4.6
<b>4</b> Sat	02:00 3.9 07:43 1.3 14:06 4.4 20:54 1.0	<b>12</b> Sun	00:59 0.2 07:05 5.2 13:37 0.1 19:20 4.4	<b>20</b> Mon	01:25 4.1 07:43 0.8 13:40 4.8 20:33 0.2	<b>28</b> Tue	02:18 -0.2 08:24 5.5 15:08 -0.4 20:59 4.4
<b>5</b> Sun	01:54 3.9 07:52 1.5 14:00 4.3 20:52 0.9	<b>13</b> Mon	01:37 0.2 07:36 5.4 14:19 -0.0 19:54 4.4	<b>21</b> Tue	02:28 4.3 08:56 0.6 14:44 4.8 21:30 -0.1	<b>29</b> Wed	03:03 -0.0 09:08 5.3 15:53 -0.2 21:49 4.2
<b>6</b> Mon	02:49 3.9 08:56 1.4 14:55 4.2 21:42 0.8	<b>14</b> Tue	02:15 0.2 08:07 5.4 15:02 -0.1 20:32 4.3	<b>22</b> Wed	03:31 4.6 09:59 0.3 15:48 4.7 22:23 -0.3	<b>30</b> Thu	03:46 0.2 09:55 5.0 16:37 0.0 22:42 4.0
<b>7</b> Tue	03:43 4.0 09:51 1.2 15:50 4.2 22:26 0.7	<b>15</b> Wed	02:54 0.2 08:44 5.4 15:46 -0.0 21:15 4.2	<b>23</b> Thu	04:31 5.0 10:56 0.1 16:49 4.7 23:12 -0.4		
<b>8</b> Wed	04:35 4.2 10:39 1.0 16:42 4.2 23:06 0.5	<b>16</b> Thu	03:34 0.3 09:29 5.3 16:31 0.1 22:09 4.0	<b>24</b> Fri	05:25 5.3 11:50 -0.2 17:45 4.8 23:59 -0.5		

East River Constant    HWS Batt. + 1:30    LWS Batt. + 1:20  
North River Constant    HWS Batt. + 2:20    LWS Batt. + 2:40

East River slack water lasts from 4 to 8 minutes. North River about 35 minutes. North River is running flood 15 feet below the surface 1 hour before turning from ebb to flood at surface. High water slack occurs in the Narrows 15 minutes before the H.W.S. East River and low water slack occurs about 20 minutes before the L.W.S. North River.

## Battery - December 2023

### Times and Heights of High and Low Waters

<b>1</b> Fri 04:28 0.5 10:45 4.7 17:23 0.3 23:36 3.9	<b>9</b> Sat 05:15 4.6 11:39 0.4 17:28 3.9 23:41 0.3	<b>17</b> Sun 05:11 0.1 11:24 5.1 18:03 -0.3	<b>25</b> Mon 00:25 -0.3 06:43 5.3 13:16 -0.4 19:10 4.2
<b>2</b> Sat 05:11 0.8 11:37 4.5 18:12 0.5	<b>10</b> Sun 05:54 4.8 12:25 0.2 18:13 4.0	<b>18</b> Mon 00:10 4.2 06:14 0.3 12:24 4.9 19:02 -0.2	<b>26</b> Tue 01:13 -0.2 07:26 5.2 14:04 -0.5 19:56 4.2
<b>3</b> Sun 00:28 3.8 06:01 1.1 12:26 4.2 19:06 0.7	<b>11</b> Mon 00:23 0.1 06:31 5.1 13:12 -0.1 18:54 4.1	<b>19</b> Tue 01:09 4.3 07:26 0.4 13:23 4.7 ☾ 20:03 -0.2	<b>27</b> Wed 01:59 -0.1 08:08 5.1 14:49 -0.4 ☉ 20:42 4.2
<b>4</b> Mon 01:18 3.7 07:02 1.2 13:15 4.1 20:01 0.8	<b>12</b> Tue 01:07 0.0 07:09 5.3 ● 13:59 -0.3 19:35 4.1	<b>20</b> Wed 02:08 4.5 08:37 0.3 14:23 4.5 21:01 -0.2	<b>28</b> Thu 02:43 -0.0 08:50 5.0 15:31 -0.3 21:28 4.1
<b>5</b> Tue 02:07 3.8 08:09 1.3 ☾ 14:02 3.9 20:52 0.7	<b>13</b> Wed 01:53 -0.1 07:49 5.4 14:45 -0.4 20:19 4.2	<b>21</b> Thu 03:07 4.7 09:42 0.2 15:25 4.3 21:55 -0.3	<b>29</b> Fri 03:25 0.1 09:33 4.8 16:12 -0.2 22:15 4.0
<b>6</b> Wed 02:56 3.9 09:09 1.2 14:52 3.8 21:38 0.6	<b>14</b> Thu 02:39 -0.2 08:33 5.4 15:31 -0.5 21:08 4.1	<b>22</b> Fri 04:07 4.8 10:40 -0.0 16:29 4.2 22:46 -0.3	<b>30</b> Sat 04:04 0.3 10:17 4.6 16:52 0.0 23:03 3.9
<b>7</b> Thu 03:45 4.0 10:03 1.0 15:46 3.8 22:20 0.5	<b>15</b> Fri 03:27 -0.2 09:24 5.4 16:19 -0.5 22:06 4.1	<b>23</b> Sat 05:04 5.0 11:35 -0.2 17:28 4.2 23:36 -0.3	<b>31</b> Sun 04:43 0.5 11:01 4.4 17:31 0.2 23:50 3.8
<b>8</b> Fri 04:31 4.3 10:52 0.7 16:39 3.8 23:00 0.4	<b>16</b> Sat 04:16 -0.1 10:22 5.2 17:08 -0.4 23:08 4.1	<b>24</b> Sun 05:56 5.2 12:27 -0.3 18:22 4.2	

East River Constant    HWS Batt. + 1:30    LWS Batt. + 1:20  
 North River Constant    HWS Batt. + 2:20    LWS Batt. + 2:40

East River slack water lasts from 4 to 8 minutes. North River about 35 minutes.  
 North River is running flood 15 feet below the surface 1 hour before turning  
 from ebb to flood at surface. High water slack occurs in the Narrows 15 minutes  
 before the H.W.S. East River and low water slack occurs about 20 minutes  
 before the L.W.S. North River.