

## Battery - January 2022

### Times and Heights of High and Low Waters

<b>1</b> Sat	00:22 -0.5 06:30 5.6 13:13 -0.8 19:00 4.4	<b>9</b> Sun	01:27 4.3 07:45 0.6 13:40 4.1 20:06 0.1	<b>17</b> Mon	01:32 0.1 07:43 4.7 14:22 -0.2 20:17 3.9	<b>25</b> Tue	01:04 4.4 07:43 0.5 13:13 4.0 19:58 0.2
<b>2</b> Sun	01:17 -0.7 07:23 5.8 14:07 -1.0 19:55 4.5	<b>10</b> Mon	02:18 4.2 08:48 0.6 14:33 3.8 20:59 0.3	<b>18</b> Tue	02:13 0.1 08:17 4.8 15:01 -0.2 20:54 3.9	<b>26</b> Wed	01:59 4.5 09:00 0.4 14:17 3.8 21:08 0.2
<b>3</b> Mon	02:11 -0.8 08:16 5.8 14:58 -1.1 20:50 4.6	<b>11</b> Tue	03:11 4.2 09:46 0.6 15:29 3.6 21:49 0.4	<b>19</b> Wed	02:52 0.0 08:49 4.7 15:38 -0.2 21:30 3.9	<b>27</b> Thu	03:02 4.7 10:06 0.2 15:31 3.8 22:11 0.0
<b>4</b> Tue	03:04 -0.7 09:10 5.7 15:48 -1.0 21:47 4.5	<b>12</b> Wed	04:04 4.2 10:39 0.5 16:28 3.6 22:36 0.4	<b>20</b> Thu	03:29 0.0 09:21 4.7 16:13 -0.2 22:07 3.9	<b>28</b> Fri	04:12 4.9 11:06 -0.1 16:48 3.9 23:11 -0.2
<b>5</b> Wed	03:55 -0.6 10:06 5.4 16:37 -0.9 22:45 4.5	<b>13</b> Thu	04:57 4.3 11:27 0.4 17:23 3.6 23:21 0.4	<b>21</b> Fri	04:05 0.1 09:56 4.6 16:47 -0.1 22:46 4.0	<b>29</b> Sat	05:21 5.1 12:03 -0.4 17:55 4.1
<b>6</b> Thu	04:47 -0.3 11:03 5.1 17:26 -0.6 23:42 4.4	<b>14</b> Fri	05:45 4.4 12:13 0.2 18:13 3.7	<b>22</b> Sat	04:43 0.2 10:37 4.5 17:21 -0.1 23:28 4.1	<b>30</b> Sun	00:09 -0.4 06:21 5.4 12:58 -0.7 18:53 4.4
<b>7</b> Fri	05:42 -0.0 11:57 4.8 18:17 -0.4	<b>15</b> Sat	00:05 0.3 06:28 4.6 12:58 0.1 18:57 3.8	<b>23</b> Sun	05:27 0.3 11:24 4.3 17:59 0.0	<b>31</b> Mon	01:05 -0.6 07:15 5.6 13:50 -0.9 19:45 4.6
<b>8</b> Sat	00:36 4.4 06:41 0.3 12:49 4.5 19:11 -0.1	<b>16</b> Sun	00:49 0.2 07:07 4.7 13:41 -0.1 19:38 3.9	<b>24</b> Mon	00:14 4.2 06:25 0.4 12:16 4.2 18:50 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.

## Battery - February 2022

### Times and Heights of High and Low Waters

<b>1</b> Tue ●	01:59 -0.8 08:06 5.6 14:40 -1.0 20:36 4.7	<b>9</b> Wed	02:21 4.1 09:09 0.8 14:50 3.5 21:07 0.8	<b>17</b> Thu	02:32 -0.2 08:27 4.9 15:09 -0.4 20:59 4.4	<b>25</b> Fri	02:44 4.7 09:50 0.3 15:24 3.8 21:59 0.3
<b>2</b> Wed	02:50 -0.8 08:56 5.5 15:26 -1.0 21:27 4.8	<b>10</b> Thu	03:15 4.0 10:05 0.7 15:52 3.4 22:00 0.8	<b>18</b> Fri	03:12 -0.2 09:00 4.9 15:43 -0.4 21:34 4.5	<b>26</b> Sat	04:00 4.8 10:51 0.0 16:42 4.0 23:01 0.1
<b>3</b> Thu	03:39 -0.7 09:46 5.3 16:11 -0.9 22:19 4.7	<b>11</b> Fri	04:15 4.0 10:56 0.6 16:53 3.4 22:50 0.7	<b>19</b> Sat	03:51 -0.2 09:36 4.8 16:17 -0.3 22:12 4.6	<b>27</b> Sun	05:12 5.0 11:47 -0.3 17:48 4.3 23:58 -0.2
<b>4</b> Fri	04:27 -0.5 10:36 5.0 16:55 -0.7 23:09 4.6	<b>12</b> Sat	05:12 4.2 11:44 0.4 17:47 3.6 23:38 0.5	<b>20</b> Sun	04:31 -0.1 10:18 4.6 16:51 -0.2 22:55 4.7	<b>28</b> Mon	06:13 5.2 12:40 -0.5 18:43 4.6
<b>5</b> Sat	05:15 -0.1 11:26 4.7 17:38 -0.3 23:58 4.5	<b>13</b> Sun	06:02 4.4 12:29 0.3 18:33 3.8	<b>21</b> Mon	05:16 0.0 11:06 4.4 17:29 -0.1 23:43 4.7		
<b>6</b> Sun	06:07 0.2 12:15 4.3 18:24 0.1	<b>14</b> Mon	00:24 0.4 06:44 4.6 13:13 0.1 19:14 4.0	<b>22</b> Tue	06:12 0.2 12:01 4.2 18:17 0.2		
<b>7</b> Mon	00:46 4.4 07:05 0.6 13:04 4.0 19:14 0.4	<b>15</b> Tue	01:08 0.2 07:22 4.7 13:54 -0.1 19:51 4.2	<b>23</b> Wed ☾	00:37 4.7 07:25 0.4 13:01 4.0 19:29 0.4		
<b>8</b> Tue ☾	01:32 4.2 08:08 0.7 13:55 3.7 20:10 0.7	<b>16</b> Wed ☉	01:51 -0.0 07:55 4.9 14:32 -0.3 20:25 4.3	<b>24</b> Thu	01:36 4.7 08:42 0.4 14:08 3.8 20:49 0.4		

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 - March 2022**

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

<b>1</b> Tue	00:53 -0.4 07:05 5.4 13:30 -0.7 19:32 4.9	<b>9</b> Wed	00:44 4.3 07:23 0.9 13:21 3.7 19:12 1.1	<b>17</b> Thu	02:26 -0.0 08:26 4.9 14:58 -0.2 20:52 4.8	<b>25</b> Fri	02:25 4.9 09:27 0.4 15:09 4.0 21:39 0.7
<b>2</b> Wed ●	01:45 -0.6 07:52 5.5 14:17 -0.8 20:18 5.0	<b>10</b> Thu ☾	01:30 4.1 08:28 1.0 14:15 3.5 20:19 1.2	<b>18</b> Fri ○	03:10 -0.2 09:00 5.0 15:36 -0.3 21:26 5.1	<b>26</b> Sat	03:35 4.8 10:34 0.3 16:22 4.0 22:48 0.5
<b>3</b> Thu	02:34 -0.7 08:37 5.4 15:00 -0.8 21:03 5.1	<b>11</b> Fri	02:23 4.0 09:28 1.0 15:15 3.4 21:23 1.2	<b>19</b> Sat	03:53 -0.4 09:36 5.0 16:12 -0.4 22:02 5.2	<b>27</b> Sun	04:50 4.8 11:34 0.1 17:34 4.3 23:50 0.3
<b>4</b> Fri	03:20 -0.6 09:22 5.2 15:41 -0.7 21:48 5.0	<b>12</b> Sat	03:26 3.9 10:22 0.9 16:18 3.5 22:18 1.1	<b>20</b> Sun	04:35 -0.4 10:16 4.9 16:49 -0.3 22:42 5.3	<b>28</b> Mon	06:00 4.9 12:28 -0.1 18:36 4.6
<b>5</b> Sat	04:05 -0.4 10:08 4.9 16:20 -0.4 22:32 4.9	<b>13</b> Sun	05:32 4.1 12:10 0.7 18:15 3.7	<b>21</b> Mon	05:19 -0.3 11:02 4.7 17:27 -0.2 23:29 5.3	<b>29</b> Tue	00:46 0.0 06:58 5.1 13:18 -0.3 19:28 4.9
<b>6</b> Sun	04:49 -0.1 10:54 4.6 16:58 -0.1 23:16 4.7	<b>14</b> Mon	00:09 0.8 06:28 4.3 12:55 0.5 19:02 4.0	<b>22</b> Tue	06:07 -0.1 11:56 4.5 18:09 0.1	<b>30</b> Wed	01:38 -0.2 07:47 5.3 14:05 -0.4 20:13 5.2
<b>7</b> Mon	05:34 0.3 11:42 4.2 17:36 0.4	<b>15</b> Tue	00:56 0.5 07:13 4.5 13:38 0.2 19:43 4.3	<b>23</b> Wed	00:22 5.2 07:04 0.1 12:56 4.2 19:03 0.4	<b>31</b> Thu	02:28 -0.3 08:32 5.3 14:49 -0.5 20:55 5.3
<b>8</b> Tue	00:00 4.5 06:24 0.6 12:30 3.9 18:18 0.7	<b>16</b> Wed	01:42 0.3 07:51 4.8 14:19 -0.0 20:19 4.6	<b>24</b> Thu	01:20 5.0 08:13 0.3 14:00 4.1 20:19 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 - April 2022

Times and Heights of High and Low Waters

<b>1</b> Fri ●	03:15 -0.4 09:14 5.2 15:31 -0.4 21:35 5.4	<b>9</b> Sat ☾	02:32 4.1 09:46 1.2 15:38 3.6 21:41 1.5	<b>17</b> Sun	03:33 -0.4 09:13 5.0 15:43 -0.3 21:34 5.8	<b>25</b> Mon	04:34 4.8 11:12 0.2 17:18 4.6 23:35 0.5
<b>2</b> Sat	04:00 -0.3 09:56 5.0 16:10 -0.3 22:14 5.3	<b>10</b> Sun	03:31 4.0 10:42 1.1 16:37 3.7 22:43 1.3	<b>18</b> Mon	04:20 -0.5 09:59 4.9 16:25 -0.2 22:19 5.8	<b>26</b> Tue	05:39 4.8 12:03 0.0 18:17 4.9
<b>3</b> Sun	04:42 -0.2 10:40 4.8 16:46 0.0 22:53 5.1	<b>11</b> Mon	04:36 4.1 11:31 0.9 17:33 3.9 23:36 1.0	<b>19</b> Tue	05:07 -0.5 10:52 4.7 17:09 -0.1 23:10 5.7	<b>27</b> Wed	00:29 0.3 06:35 4.9 12:51 -0.1 19:06 5.2
<b>4</b> Mon	05:23 0.0 11:25 4.5 17:21 0.3 23:33 4.9	<b>12</b> Tue	05:38 4.3 12:15 0.6 18:22 4.2	<b>20</b> Wed	05:58 -0.3 11:52 4.5 17:58 0.2	<b>28</b> Thu	01:20 0.1 07:24 4.9 13:35 -0.1 19:50 5.4
<b>5</b> Tue	06:04 0.3 12:12 4.2 17:54 0.7	<b>13</b> Wed	00:25 0.7 06:29 4.5 12:58 0.3 19:04 4.6	<b>21</b> Thu	00:10 5.5 06:55 -0.0 12:56 4.4 18:58 0.5	<b>29</b> Fri	02:09 -0.0 08:08 4.9 14:18 -0.1 20:29 5.5
<b>6</b> Wed	00:13 4.7 06:48 0.6 13:01 4.0 18:28 1.0	<b>14</b> Thu	01:12 0.4 07:12 4.8 13:39 0.1 19:41 5.0	<b>22</b> Fri	01:14 5.2 08:01 0.2 14:01 4.3 20:12 0.8	<b>30</b> Sat ●	02:55 -0.1 08:50 4.9 14:59 0.0 21:06 5.5
<b>7</b> Thu	00:56 4.4 07:40 0.9 13:51 3.8 19:09 1.3	<b>15</b> Fri	02:00 0.0 07:52 4.9 14:20 -0.1 20:17 5.4	<b>23</b> Sat ☾	02:19 5.0 09:10 0.3 15:07 4.3 21:28 0.8		
<b>8</b> Fri	01:41 4.2 08:43 1.1 14:43 3.6 20:22 1.5	<b>16</b> Sat ○	02:47 -0.2 08:32 5.0 15:01 -0.3 20:54 5.6	<b>24</b> Sun	03:26 4.9 10:14 0.3 16:13 4.4 22:35 0.7		

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 2022**

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

<b>1</b> Sun	03:38 -0.1 09:32 4.7 15:38 0.2 21:42 5.4	<b>9</b> Mon	02:39 4.2 09:56 1.0 15:50 3.9 22:02 1.4	<b>17</b> Tue	04:05 -0.6 09:46 4.8 16:06 -0.2 22:02 6.1	<b>25</b> Wed	05:10 4.6 11:33 0.1 17:50 5.0
<b>2</b> Mon	04:19 -0.0 10:14 4.5 16:15 0.4 22:17 5.2	<b>10</b> Tue	03:35 4.2 10:46 0.9 16:42 4.2 23:00 1.1	<b>18</b> Wed	04:55 -0.6 10:44 4.7 16:56 -0.0 22:59 5.9	<b>26</b> Thu	00:09 0.5 06:07 4.6 12:19 0.1 18:39 5.2
<b>3</b> Tue	04:59 0.1 10:59 4.3 16:50 0.6 22:54 5.0	<b>11</b> Wed	04:35 4.3 11:31 0.6 17:32 4.5 23:52 0.8	<b>19</b> Thu	05:47 -0.4 11:48 4.6 17:50 0.2	<b>27</b> Fri	00:59 0.3 06:58 4.5 13:03 0.2 19:23 5.4
<b>4</b> Wed	05:39 0.4 11:47 4.1 17:23 0.9 23:32 4.8	<b>12</b> Thu	05:34 4.4 12:14 0.4 18:18 4.9	<b>20</b> Fri	00:03 5.6 06:43 -0.2 12:53 4.6 18:51 0.5	<b>28</b> Sat	01:47 0.2 07:44 4.5 13:46 0.3 20:02 5.4
<b>5</b> Thu	06:19 0.6 12:36 4.0 17:55 1.1	<b>13</b> Fri	00:43 0.4 06:28 4.6 12:57 0.2 19:01 5.4	<b>21</b> Sat	01:07 5.4 07:44 0.0 13:55 4.6 20:00 0.7	<b>29</b> Sun	02:32 0.1 08:27 4.5 14:27 0.4 20:38 5.4
<b>6</b> Fri	00:14 4.6 07:05 0.9 13:25 3.9 18:32 1.4	<b>14</b> Sat	01:33 0.1 07:18 4.8 13:42 -0.0 19:44 5.8	<b>22</b> Sun	02:09 5.2 08:48 0.2 14:55 4.6 21:11 0.8	<b>30</b> Mon	03:16 0.1 09:09 4.4 15:08 0.5 21:14 5.3
<b>7</b> Sat	01:00 4.4 07:59 1.1 14:12 3.8 19:27 1.5	<b>15</b> Sun	02:24 -0.3 08:05 4.9 14:29 -0.2 20:26 6.0	<b>23</b> Mon	03:09 4.9 09:49 0.2 15:55 4.7 22:17 0.7	<b>31</b> Tue	03:57 0.1 09:52 4.3 15:47 0.6 21:49 5.2
<b>8</b> Sun	01:48 4.3 09:00 1.1 15:00 3.8 20:52 1.6	<b>16</b> Mon	03:15 -0.5 08:54 4.9 15:17 -0.2 21:12 6.1	<b>24</b> Tue	04:10 4.8 10:44 0.2 16:54 4.8 23:16 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 - June 2022**

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

<b>1</b> Wed 04:37 0.2 10:37 4.2 16:24 0.8 22:24 5.0	<b>9</b> Thu 03:41 4.3 10:43 0.6 16:39 4.8 23:21 0.8	<b>17</b> Fri 05:32 -0.6 11:38 4.8 17:40 0.1 23:53 5.7	<b>25</b> Sat 00:35 0.5 06:30 4.2 12:31 0.5 18:53 5.2
<b>2</b> Thu 05:16 0.3 11:23 4.1 17:00 0.9 23:02 4.8	<b>10</b> Fri 04:43 4.3 11:31 0.4 17:32 5.2	<b>18</b> Sat 06:25 -0.4 12:40 4.8 18:38 0.3	<b>26</b> Sun 01:23 0.4 07:19 4.2 13:15 0.6 19:35 5.2
<b>3</b> Fri 05:55 0.5 12:11 4.0 17:34 1.1 23:42 4.7	<b>11</b> Sat 00:15 0.4 05:48 4.4 12:19 0.2 18:24 5.6	<b>19</b> Sun 00:53 5.5 07:21 -0.2 13:38 4.8 19:41 0.6	<b>27</b> Mon 02:08 0.3 08:05 4.3 13:59 0.6 20:14 5.2
<b>4</b> Sat 06:35 0.7 12:56 3.9 18:10 1.2	<b>12</b> Sun 01:09 0.1 06:48 4.6 13:10 0.0 19:15 5.9	<b>20</b> Mon 01:50 5.2 08:19 0.0 14:33 4.9 20:48 0.7	<b>28</b> Tue 02:52 0.3 08:48 4.3 14:42 0.7 20:51 5.2
<b>5</b> Sun 00:25 4.5 07:19 0.8 13:39 3.9 18:55 1.4	<b>13</b> Mon 02:03 -0.3 07:44 4.7 14:03 -0.1 20:05 6.1	<b>21</b> Tue 02:45 4.9 09:16 0.2 15:28 4.9 21:53 0.8	<b>29</b> Wed 03:34 0.2 09:30 4.3 15:23 0.7 21:27 5.1
<b>6</b> Mon 01:09 4.5 08:09 0.9 14:21 4.0 20:01 1.4	<b>14</b> Tue 02:57 -0.5 08:39 4.8 14:58 -0.2 20:57 6.2	<b>22</b> Wed 03:40 4.6 10:10 0.3 16:22 4.9 22:52 0.7	<b>30</b> Thu 04:14 0.2 10:13 4.2 16:02 0.7 22:02 5.0
<b>7</b> Tue 01:55 4.4 09:03 0.9 15:03 4.2 21:19 1.3	<b>15</b> Wed 03:49 -0.6 09:35 4.8 15:51 -0.2 21:51 6.1	<b>23</b> Thu 04:37 4.4 11:00 0.4 17:16 5.0 23:46 0.6	
<b>8</b> Wed 02:45 4.3 09:55 0.8 15:48 4.5 22:24 1.1	<b>16</b> Thu 04:41 -0.7 10:35 4.8 16:45 -0.1 22:51 6.0	<b>24</b> Fri 05:35 4.2 11:46 0.4 18:07 5.1	

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 - July 2022**

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

<b>1</b> Fri	04:52 0.3 10:57 4.2 16:40 0.8 22:37 4.9	<b>9</b> Sat	04:08 4.2 10:55 0.5 16:54 5.3 23:53 0.4	<b>17</b> Sun	06:01 -0.5 12:17 5.1 18:19 0.2	<b>25</b> Mon	00:56 0.6 06:55 4.1 12:47 0.9 19:10 5.0
<b>2</b> Sat	05:29 0.4 11:40 4.1 17:15 0.9 23:13 4.8	<b>10</b> Sun	05:19 4.3 11:51 0.3 17:56 5.6	<b>18</b> Mon	00:31 5.4 06:51 -0.2 13:12 5.1 19:17 0.5	<b>26</b> Tue	01:42 0.5 07:43 4.2 13:33 0.8 19:52 5.1
<b>3</b> Sun	06:05 0.5 12:21 4.1 17:51 1.0 23:51 4.7	<b>11</b> Mon	00:49 0.1 06:28 4.4 12:48 0.1 18:55 5.9	<b>19</b> Tue	01:25 5.1 07:43 0.1 14:04 5.0 20:20 0.8	<b>27</b> Wed	02:26 0.4 08:26 4.3 14:17 0.7 20:30 5.2
<b>4</b> Mon	06:40 0.6 13:00 4.2 18:31 1.1	<b>12</b> Tue	01:45 -0.2 07:30 4.6 13:46 -0.0 19:52 6.1	<b>20</b> Wed	02:17 4.7 08:38 0.3 14:55 5.0 21:24 0.9	<b>28</b> Thu	03:08 0.3 09:06 4.4 15:00 0.7 21:06 5.2
<b>5</b> Tue	00:33 4.6 07:17 0.7 13:38 4.3 19:25 1.2	<b>13</b> Wed	02:40 -0.5 08:27 4.8 14:43 -0.2 20:46 6.2	<b>21</b> Thu	03:09 4.4 09:32 0.6 15:46 4.9 22:24 0.9	<b>29</b> Fri	03:47 0.2 09:46 4.4 15:40 0.6 21:40 5.1
<b>6</b> Wed	01:19 4.5 08:02 0.7 14:18 4.5 20:38 1.2	<b>14</b> Thu	03:33 -0.6 09:23 4.9 15:38 -0.3 21:41 6.1	<b>22</b> Fri	04:05 4.1 10:24 0.7 16:38 4.9 23:19 0.9	<b>30</b> Sat	04:24 0.2 10:24 4.4 16:18 0.6 22:11 5.1
<b>7</b> Thu	02:08 4.4 08:58 0.7 15:03 4.8 21:51 1.0	<b>15</b> Fri	04:23 -0.7 10:21 5.0 16:32 -0.2 22:38 6.0	<b>23</b> Sat	05:04 4.0 11:14 0.8 17:32 4.9	<b>31</b> Sun	04:59 0.2 11:01 4.4 16:55 0.7 22:43 5.0
<b>8</b> Fri	03:04 4.3 09:57 0.6 15:55 5.0 22:54 0.8	<b>16</b> Sat	05:12 -0.7 11:19 5.0 17:24 -0.1 23:35 5.7	<b>24</b> Sun	00:09 0.7 06:02 4.0 12:01 0.9 18:23 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 - August 2022**

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

<b>1</b> Mon 05:32 0.3 11:38 4.5 17:32 0.8 23:19 4.8	<b>9</b> Tue 00:33 0.2 06:18 4.4 12:35 0.2 18:44 5.8	<b>17</b> Wed 00:55 4.9 07:03 0.3 13:28 5.1 19:47 0.8	<b>25</b> Thu 01:56 0.5 08:00 4.4 13:52 0.7 20:06 5.1
<b>2</b> Tue 06:02 0.4 12:15 4.6 18:11 0.9	<b>10</b> Wed 01:28 -0.1 07:21 4.7 13:34 0.0 19:42 6.0	<b>18</b> Thu 01:46 4.5 07:53 0.7 14:16 4.9 20:50 1.0	<b>26</b> Fri 02:37 0.3 08:38 4.6 14:35 0.6 20:40 5.2
<b>3</b> Wed 00:01 4.7 06:34 0.5 12:54 4.7 19:00 1.0	<b>11</b> Thu 02:22 -0.4 08:16 5.0 14:30 -0.2 20:36 6.1	<b>19</b> Fri 02:39 4.2 08:49 1.0 15:06 4.8 21:52 1.1	<b>27</b> Sat 03:15 0.2 09:13 4.7 15:16 0.5 21:11 5.2
<b>4</b> Thu 00:49 4.5 07:12 0.6 13:38 4.9 20:08 1.0	<b>12</b> Fri 03:13 -0.6 09:09 5.2 15:24 -0.3 21:27 6.1	<b>20</b> Sat 03:34 4.0 09:47 1.2 15:58 4.7 22:49 1.1	<b>28</b> Sun 03:51 0.1 09:47 4.8 15:56 0.4 21:42 5.2
<b>5</b> Fri 01:42 4.4 08:07 0.7 14:27 5.0 21:25 1.0	<b>13</b> Sat 04:01 -0.7 10:01 5.3 16:15 -0.3 22:18 5.9	<b>21</b> Sun 04:33 3.9 10:42 1.2 16:56 4.6 23:41 1.0	<b>29</b> Mon 04:25 0.1 10:19 4.9 16:34 0.4 22:14 5.1
<b>6</b> Sat 02:41 4.2 09:21 0.7 15:24 5.2 22:34 0.8	<b>14</b> Sun 04:47 -0.6 10:54 5.3 17:06 -0.1 23:10 5.6	<b>22</b> Mon 05:34 3.9 11:33 1.2 17:53 4.7	<b>30</b> Tue 04:57 0.2 10:53 5.0 17:13 0.5 22:51 4.9
<b>7</b> Sun 03:48 4.1 10:32 0.6 16:29 5.3 23:35 0.5	<b>15</b> Mon 05:32 -0.4 11:47 5.3 17:56 0.2	<b>23</b> Tue 00:28 0.8 06:30 4.1 12:21 1.1 18:44 4.8	<b>31</b> Wed 05:28 0.3 11:31 5.1 17:55 0.6 23:36 4.7
<b>8</b> Mon 05:04 4.2 11:35 0.5 17:39 5.5	<b>16</b> Tue 00:03 5.3 06:17 -0.1 12:38 5.2 18:49 0.5	<b>24</b> Wed 01:13 0.7 07:17 4.3 13:07 0.9 19:28 5.0	

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 2022

Times and Heights of High and Low Waters

<b>1</b> Thu	06:00 0.4 12:16 5.1 18:44 0.8	<b>9</b> Fri	02:01 -0.4 08:03 5.3 14:16 -0.2 20:21 5.9	<b>17</b> Sat	02:09 4.1 08:01 1.3 14:24 4.6 21:15 1.3	<b>25</b> Sun	02:38 0.2 08:38 5.1 14:50 0.3 20:40 5.2
<b>2</b> Fri	00:28 4.5 06:40 0.6 13:06 5.2 19:50 0.9	<b>10</b> Sat	02:49 -0.5 08:51 5.5 15:08 -0.3 21:08 5.9	<b>18</b> Sun	03:05 3.9 09:06 1.5 15:17 4.5 22:16 1.2	<b>26</b> Mon	03:15 0.1 09:09 5.3 15:32 0.2 21:12 5.2
<b>3</b> Sat	01:27 4.3 07:38 0.8 14:03 5.2 21:08 0.9	<b>11</b> Sun	03:35 -0.6 09:37 5.6 15:57 -0.2 21:55 5.7	<b>19</b> Mon	04:03 3.8 10:09 1.5 16:16 4.4 23:09 1.1	<b>27</b> Tue	03:50 0.0 09:40 5.4 16:14 0.1 21:48 5.0
<b>4</b> Sun	02:32 4.2 09:04 0.9 15:06 5.2 22:18 0.8	<b>12</b> Mon	04:18 -0.5 10:24 5.6 16:45 -0.1 22:42 5.4	<b>20</b> Tue	05:03 3.9 11:04 1.4 17:17 4.5 23:56 0.9	<b>28</b> Wed	04:24 0.1 10:16 5.5 16:56 0.2 22:29 4.8
<b>5</b> Mon	03:44 4.1 10:21 0.8 16:17 5.2 23:20 0.5	<b>13</b> Tue	05:00 -0.2 11:11 5.5 17:31 0.2 23:32 5.0	<b>21</b> Wed	05:59 4.1 11:53 1.2 18:11 4.7	<b>29</b> Thu	04:59 0.2 10:57 5.5 17:41 0.3 23:19 4.6
<b>6</b> Tue	05:01 4.3 11:26 0.6 17:31 5.4	<b>14</b> Wed	05:40 0.1 11:59 5.3 18:20 0.5	<b>22</b> Thu	00:39 0.7 06:47 4.3 12:39 0.9 18:56 4.9	<b>30</b> Fri	05:38 0.4 11:48 5.4 18:34 0.5
<b>7</b> Wed	00:17 0.2 06:12 4.6 12:26 0.3 18:36 5.6	<b>15</b> Thu	00:24 4.6 06:21 0.6 12:47 5.1 19:12 0.9	<b>23</b> Fri	01:21 0.5 07:28 4.6 13:24 0.7 19:34 5.1		
<b>8</b> Thu	01:10 -0.1 07:11 4.9 13:22 0.0 19:31 5.9	<b>16</b> Fri	01:16 4.3 07:06 1.0 13:34 4.8 20:11 1.1	<b>24</b> Sat	02:00 0.3 08:05 4.9 14:08 0.5 20:08 5.2		

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 - October 2022**

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

<b>1</b> Sat	00:18 4.4 06:24 0.6 12:46 5.3 19:39 0.7	<b>9</b> Sun ○	02:23 -0.4 08:30 5.7 14:50 -0.2 20:47 5.5	<b>17</b> Mon ☾	02:35 3.8 08:17 1.6 14:35 4.3 21:36 1.2	<b>25</b> Tue ●	02:37 -0.1 08:33 5.6 15:10 -0.1 20:46 5.0
<b>2</b> Sun ☾	01:25 4.2 07:31 0.9 13:51 5.2 20:54 0.8	<b>10</b> Mon	03:06 -0.4 09:11 5.7 15:37 -0.2 21:30 5.3	<b>18</b> Tue	03:30 3.8 09:29 1.6 15:32 4.3 22:31 1.1	<b>26</b> Wed	03:17 -0.1 09:09 5.7 15:55 -0.2 21:27 4.8
<b>3</b> Mon	02:34 4.1 08:58 1.0 14:59 5.1 22:03 0.6	<b>11</b> Tue	03:47 -0.3 09:52 5.7 16:23 -0.1 22:15 5.0	<b>19</b> Wed	04:27 3.9 10:30 1.5 16:30 4.3 23:18 0.9	<b>27</b> Thu	03:57 -0.1 09:49 5.8 16:41 -0.2 22:14 4.7
<b>4</b> Tue	03:46 4.2 10:14 0.9 16:11 5.1 23:04 0.4	<b>12</b> Wed	04:27 0.0 10:34 5.5 17:07 0.2 23:03 4.7	<b>20</b> Thu	05:21 4.1 11:21 1.2 17:26 4.4	<b>28</b> Fri	04:39 0.0 10:36 5.7 17:30 -0.1 23:10 4.5
<b>5</b> Wed	04:58 4.4 11:18 0.6 17:22 5.2 23:59 0.1	<b>13</b> Thu	05:05 0.4 11:17 5.2 17:51 0.4 23:54 4.4	<b>21</b> Fri	00:01 0.7 06:09 4.3 12:09 0.9 18:14 4.6	<b>29</b> Sat	05:25 0.2 11:32 5.5 18:24 0.1
<b>6</b> Thu	06:03 4.8 12:15 0.3 18:23 5.4	<b>14</b> Fri	05:42 0.7 12:03 5.0 18:38 0.8	<b>22</b> Sat	00:41 0.4 06:51 4.7 12:54 0.6 18:55 4.8	<b>30</b> Sun	00:17 4.3 06:19 0.5 12:38 5.3 19:27 0.3
<b>7</b> Fri	00:49 -0.2 06:58 5.1 13:09 0.1 19:16 5.5	<b>15</b> Sat	00:47 4.1 06:21 1.1 12:51 4.7 19:32 1.0	<b>23</b> Sun	01:20 0.2 07:27 5.0 13:39 0.3 19:32 4.9	<b>31</b> Mon	01:26 4.2 07:30 0.7 13:46 5.1 20:37 0.4
<b>8</b> Sat	01:37 -0.4 07:46 5.5 14:01 -0.1 20:03 5.6	<b>16</b> Sun	01:41 3.9 07:09 1.4 13:42 4.5 20:34 1.2	<b>24</b> Mon	01:58 0.0 08:00 5.3 14:25 0.1 20:09 5.0		

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 2022**

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

<b>1</b> Tue ☾	02:33 4.2 08:50 0.8 14:53 5.0 21:44 0.3	<b>9</b> Wed	02:18 -0.1 08:24 5.5 15:01 -0.1 20:52 4.5	<b>17</b> Thu	02:43 3.8 08:47 1.4 14:32 4.1 21:33 0.8	<b>25</b> Fri	02:37 -0.4 08:32 5.8 15:28 -0.6 21:05 4.5
<b>2</b> Wed	03:40 4.3 10:02 0.7 16:00 4.9 22:44 0.1	<b>10</b> Thu	02:57 0.2 09:01 5.3 15:43 0.0 21:37 4.3	<b>18</b> Fri	03:33 4.0 09:44 1.1 15:26 4.1 22:16 0.5	<b>26</b> Sat	03:26 -0.3 09:25 5.7 16:18 -0.5 22:06 4.4
<b>3</b> Thu	04:46 4.5 11:05 0.5 17:04 4.9 23:36 -0.1	<b>11</b> Fri	03:35 0.4 09:40 5.0 16:25 0.3 22:27 4.1	<b>19</b> Sat	04:21 4.3 10:35 0.8 16:20 4.2 22:57 0.3	<b>27</b> Sun	04:18 -0.1 10:26 5.5 17:12 -0.3 23:13 4.3
<b>4</b> Fri	05:46 4.8 12:01 0.2 18:04 5.0	<b>12</b> Sat	04:11 0.7 10:23 4.8 17:08 0.5 23:19 3.9	<b>20</b> Sun	05:05 4.6 11:24 0.5 17:10 4.4 23:38 0.1	<b>28</b> Mon	05:15 0.1 11:32 5.3 18:11 -0.2
<b>5</b> Sat	00:24 -0.3 06:39 5.2 12:54 0.0 18:56 5.0	<b>13</b> Sun	04:47 1.0 11:10 4.5 17:55 0.8	<b>21</b> Mon	05:45 5.0 12:12 0.1 17:56 4.5	<b>29</b> Tue	00:19 4.3 06:21 0.4 12:36 5.0 19:15 -0.0
<b>6</b> Sun	01:10 -0.3 06:25 5.4 12:44 -0.1 18:42 5.0	<b>14</b> Mon	00:11 3.7 05:27 1.2 12:01 4.3 18:49 1.0	<b>22</b> Tue	00:20 -0.1 06:24 5.4 13:00 -0.2 18:41 4.6	<b>30</b> Wed ☾	01:22 4.3 07:34 0.5 13:38 4.8 20:18 -0.0
<b>7</b> Mon	00:54 -0.3 07:07 5.6 13:32 -0.2 19:26 4.9	<b>15</b> Tue	01:02 3.7 06:21 1.4 12:51 4.2 19:49 1.0	<b>23</b> Wed ●	01:04 -0.3 07:04 5.7 13:49 -0.4 19:25 4.6		
<b>8</b> Tue ○	01:37 -0.2 07:46 5.6 14:17 -0.2 20:08 4.8	<b>16</b> Wed ☾	01:52 3.7 07:38 1.5 13:41 4.1 20:44 0.9	<b>24</b> Thu	01:50 -0.3 07:46 5.8 14:38 -0.6 20:13 4.6		

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.

## Battery - December 2022

### Times and Heights of High and Low Waters

<b>1</b> Thu	02:23 4.4 08:44 0.5 14:39 4.7 21:17 -0.1	<b>9</b> Fri	02:32 0.2 08:37 5.0 15:21 -0.1 21:16 4.0	<b>17</b> Sat	02:34 3.9 09:02 1.0 14:23 3.9 21:26 0.4	<b>25</b> Sun	03:16 -0.6 09:18 5.7 16:04 -0.9 21:58 4.5
<b>2</b> Fri	03:24 4.6 09:47 0.4 15:40 4.5 22:09 -0.2	<b>10</b> Sat	03:11 0.3 09:15 4.8 16:01 0.0 22:02 3.9	<b>18</b> Sun	03:21 4.2 10:00 0.7 15:22 3.9 22:12 0.2	<b>26</b> Mon	04:09 -0.5 10:18 5.5 16:55 -0.8 23:01 4.4
<b>3</b> Sat	04:22 4.8 10:44 0.2 16:39 4.4 22:57 -0.2	<b>11</b> Sun	03:48 0.5 09:55 4.6 16:41 0.2 22:50 3.7	<b>19</b> Mon	04:12 4.5 10:54 0.3 16:24 3.9 22:59 0.0	<b>27</b> Tue	05:04 -0.3 11:19 5.2 17:49 -0.6
<b>4</b> Sun	05:16 5.0 11:36 0.0 17:33 4.4 23:42 -0.2	<b>12</b> Mon	04:23 0.6 10:37 4.4 17:21 0.4 23:38 3.6	<b>20</b> Tue	05:04 4.9 11:46 -0.0 17:24 4.1 23:47 -0.2	<b>28</b> Wed	00:02 4.4 06:05 -0.0 12:19 4.9 18:46 -0.4
<b>5</b> Mon	06:03 5.1 12:25 -0.1 18:22 4.4	<b>13</b> Tue	04:59 0.8 11:20 4.3 18:04 0.6	<b>21</b> Wed	05:54 5.3 12:39 -0.4 18:19 4.2	<b>29</b> Thu	01:00 4.4 07:12 0.2 13:15 4.6 19:45 -0.2
<b>6</b> Tue	00:26 -0.2 06:44 5.2 13:12 -0.2 19:07 4.3	<b>14</b> Wed	00:24 3.6 05:39 1.0 12:03 4.1 18:52 0.7	<b>22</b> Thu	00:38 -0.4 06:42 5.6 13:31 -0.6 19:10 4.4	<b>30</b> Fri	01:57 4.5 08:21 0.3 14:12 4.3 20:44 -0.1
<b>7</b> Wed ○	01:10 -0.1 07:23 5.2 13:57 -0.2 19:49 4.3	<b>15</b> Thu	01:07 3.6 06:37 1.1 12:46 4.0 19:45 0.7	<b>23</b> Fri ●	01:31 -0.5 07:31 5.8 14:23 -0.8 20:02 4.5	<b>31</b> Sat	02:54 4.5 09:25 0.3 15:11 4.1 21:34 -0.1
<b>8</b> Thu	01:52 0.0 08:00 5.2 14:40 -0.2 20:32 4.2	<b>16</b> Fri ☾	01:50 3.7 07:54 1.1 13:32 3.9 20:37 0.6	<b>24</b> Sat	02:24 -0.6 08:23 5.8 15:13 -0.9 20:58 4.5		

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.