



San Francisco, California, 2017

Datum:mean lower low water (MLLW) which is the chart datum of soundings

Times and Heights of High and Low Waters

January					February					March				
Time	Height	Time	Height		Time	Height	Time	Height		Time	Height	Time	Height	
h m	ft cm	h m	ft cm		h m	ft cm	h m	ft cm		h m	ft cm	h m	ft cm	
1 Su	02:11 AM 4.9 149 06:53 AM 2.9 88 12:51 PM 5.7 174 07:30 PM -0.4 -12	16 M	02:49 AM 5.5 168 08:08 AM 2.3 70 01:57 PM 5.4 165 08:22 PM 0.2 6		1 W	02:44 AM 5.5 168 08:20 AM 1.9 58 02:27 PM 5.0 152 08:29 PM 0.7 21	16 Th	03:10 AM 5.4 165 09:22 AM 1.6 49 03:29 PM 4.2 128 09:09 PM 1.9 58		1 W	01:22 AM 5.8 177 07:06 AM 1.0 30 01:32 PM 5.3 162 07:19 PM 0.7 21	16 Th	02:37 AM 5.4 165 08:47 AM 0.8 24 03:16 PM 4.5 137 08:45 PM 1.8 55	
2 M	02:50 AM 5.0 152 07:44 AM 2.9 88 01:38 PM 5.4 165 08:12 PM -0.1 -3	17 Tu	03:31 AM 5.5 168 09:10 AM 2.2 67 02:53 PM 4.8 146 09:07 PM 0.8 24		2 Th	03:27 AM 5.7 174 09:25 AM 1.6 49 03:36 PM 4.5 137 09:18 PM 1.2 37	17 F	03:50 AM 5.3 162 10:24 AM 1.5 46 04:45 PM 3.8 116 10:02 PM 2.3 70		2 Th	02:01 AM 5.9 180 08:00 AM 0.8 24 02:31 PM 4.9 149 08:04 PM 1.2 37	17 F	03:09 AM 5.3 162 09:33 AM 0.8 24 04:12 PM 4.1 125 09:27 PM 2.3 70	
3 Tu	03:31 AM 5.2 158 08:45 AM 2.7 82 02:33 PM 5.0 152 08:58 PM 0.3 9	18 W	04:15 AM 5.5 168 10:17 AM 2.0 61 03:58 PM 4.2 128 09:56 PM 1.4 43		3 F	04:14 AM 5.8 177 10:36 AM 1.3 40 05:00 PM 4.1 125 10:16 PM 1.8 55	18 Sa	04:36 AM 5.3 162 11:31 AM 1.3 40 06:22 PM 3.7 113 11:07 PM 2.7 82		3 F	02:44 AM 5.9 180 09:01 AM 0.6 18 03:42 PM 4.5 137 08:57 PM 1.8 55	18 Sa	03:47 AM 5.1 155 10:26 AM 0.9 27 05:21 PM 3.9 119 10:20 PM 2.7 82	
4 W	04:14 AM 5.3 162 09:54 AM 2.4 73 03:40 PM 4.5 137 09:49 PM 0.7 21	19 Th	04:59 AM 5.5 168 11:25 AM 1.8 55 05:19 PM 3.8 116 10:51 PM 1.9 58		4 Sa	05:06 AM 6.0 183 11:50 AM 0.8 24 06:36 PM 4.0 122 11:23 PM 2.2 67	19 Su	05:28 AM 5.3 162 12:35 PM 1.1 34 07:52 PM 3.8 116		4 Sa	03:34 AM 5.9 180 10:09 AM 0.5 15 05:07 PM 4.2 128 10:01 PM 2.3 70	19 Su	04:33 AM 5.0 152 11:27 AM 0.9 27 06:48 PM 3.8 116 11:31 PM 2.9 88	
5 Th	05:00 AM 5.6 171 11:08 AM 1.9 58 05:02 PM 4.2 128 10:45 PM 1.2 37	20 F	05:44 AM 5.5 168 12:31 PM 1.4 43 06:54 PM 3.7 113 11:50 PM 2.3 70		5 Su	06:04 AM 6.2 189 01:00 PM 0.3 9 08:02 PM 4.3 131	20 M	12:18 AM 2.9 88 06:23 AM 5.3 162 01:33 PM 0.8 24 08:54 PM 4.1 125		5 Su	04:32 AM 5.9 180 11:24 AM 0.3 9 06:38 PM 4.2 128 11:17 PM 2.6 79	20 M	05:28 AM 4.9 149 12:32 PM 0.9 27 08:11 PM 3.9 119	
6 F	05:48 AM 5.9 180 12:17 PM 1.3 40 06:34 PM 4.0 122 11:46 PM 1.6 49	21 Sa	06:29 AM 5.6 171 01:28 PM 1.0 30 08:18 PM 3.9 119		6 M	12:34 AM 2.5 76 07:03 AM 6.3 192 02:01 PM -0.2 -6 09:10 PM 4.6 140	21 Tu	01:22 AM 2.9 88 07:18 AM 5.5 168 02:21 PM 0.5 15 09:38 PM 4.4 134		6 M	05:37 AM 5.8 177 12:37 PM 0.1 3 07:55 PM 4.5 137	21 Tu	12:50 AM 3.0 91 06:31 AM 4.9 149 01:35 PM 0.7 21 09:10 PM 4.1 125	
7 Sa	06:37 AM 6.2 189 01:20 PM 0.6 18 08:00 PM 4.2 128	22 Su	12:50 AM 2.6 79 07:14 AM 5.7 174 02:17 PM 0.6 18 09:20 PM 4.1 125		7 Tu	01:41 AM 2.5 76 08:01 AM 6.5 198 02:56 PM -0.6 -18 10:04 PM 4.9 149	22 W	02:14 AM 2.9 88 08:09 AM 5.6 171 03:03 PM 0.2 6 10:13 PM 4.6 140		7 Tu	12:35 AM 2.6 79 06:46 AM 5.9 180 01:42 PM -0.2 -6 08:55 PM 4.8 146	22 W	01:58 AM 2.9 88 07:36 AM 4.9 149 02:30 PM 0.5 15 09:52 PM 4.4 134	
8 Su	12:48 AM 2.0 61 07:27 AM 6.5 198 02:16 PM -0.1 -3 09:12 PM 4.5 137	23 M	01:46 AM 2.8 85 07:58 AM 5.8 177 03:00 PM 0.3 9 10:08 PM 4.3 131		8 W	02:42 AM 2.5 76 08:56 AM 6.7 204 03:44 PM -0.8 -24 10:51 PM 5.2 158	23 Th	02:59 AM 2.7 82 08:57 AM 5.8 177 03:40 PM -0.1 -3 10:44 PM 4.8 146		8 W	01:44 AM 2.4 73 07:51 AM 6.0 183 02:38 PM -0.3 -9 09:43 PM 5.1 155	23 Th	02:52 AM 2.6 79 08:52 AM 5.1 155 03:17 PM 0.3 9 10:25 PM 4.7 143	
9 M	01:48 AM 2.2 67 08:17 AM 6.8 207 03:08 PM -0.7 -21 10:13 PM 4.8 146	24 Tu	02:35 AM 2.9 88 08:40 AM 6.0 183 03:38 PM 0.0 0 10:48 PM 4.5 137		9 Th	03:36 AM 2.3 70 09:48 AM 6.7 204 04:29 PM -0.9 -27 11:33 PM 5.4 165	24 F	03:38 AM 2.5 76 08:09 AM 6.0 183 04:15 PM -0.3 -9 11:14 PM 5.0 152		9 Th	02:43 AM 2.1 64 08:50 AM 6.1 186 03:26 PM -0.4 -12 10:25 PM 5.4 165	24 F	03:36 AM 2.3 70 09:31 AM 5.3 162 03:58 PM 0.1 3 10:56 PM 4.9 149	
10 Tu	02:46 AM 2.4 73 09:07 AM 7.0 213 03:57 PM -1.1 -34 11:05 PM 5.1 155	25 W	03:19 AM 2.9 88 09:20 AM 6.1 186 04:12 PM -0.3 -9 11:22 PM 4.7 143		10 F	04:27 AM 2.1 64 10:37 AM 6.6 201 05:10 PM -0.8 -24	25 Sa	04:16 AM 2.2 67 10:24 AM 6.1 186 04:50 PM -0.3 -9 11:43 PM 5.2 158		10 F	03:34 AM 1.8 55 09:43 AM 6.1 186 04:08 PM -0.3 -9 11:03 PM 5.5 168	25 Sa	04:16 AM 1.8 55 10:21 AM 5.1 168 04:37 PM 0.0 0 11:26 PM 5.2 158	
11 W	03:41 AM 2.4 73 09:56 AM 7.0 213 04:43 PM -1.3 -40 11:54 PM 5.3 162	26 Th	03:58 AM 2.8 85 10:00 AM 6.2 189 04:46 PM -0.4 -12 11:54 PM 4.9 149		11 Sa	12:12 AM 5.5 168 05:14 AM 1.9 58 11:23 AM 6.4 195 05:50 PM -0.6 -18	26 Su	04:54 AM 1.9 58 11:07 AM 6.1 186 05:24 PM -0.3 -9		11 Sa	04:20 AM 1.5 46 10:32 AM 6.0 183 04:47 PM -0.2 -6 11:37 PM 5.6 171	26 Su	04:55 AM 1.4 43 11:10 AM 5.7 174 05:14 PM 0.0 0 11:57 PM 5.5 168	
12 Th	04:33 AM 2.4 73 10:44 AM 7.0 213 05:28 PM -1.3 -40	27 F	04:35 AM 2.7 82 10:39 AM 6.3 192 05:19 PM -0.5 -15		12 Su	12:49 AM 5.6 171 06:01 AM 1.8 55 12:08 PM 6.1 186 06:28 PM -0.2 -6	27 M	12:14 AM 5.4 165 05:35 AM 1.5 46 11:52 AM 6.0 183 06:00 PM -0.1 -3		12 Su	06:03 AM 1.2 37 12:17 PM 5.8 177 06:23 PM 0.1 3	27 M	05:35 AM 0.9 27 11:58 AM 5.7 174 05:52 PM 0.2 6	
13 F	12:39 AM 5.4 165 05:25 AM 2.4 73 11:31 AM 6.8 207 06:12 PM -1.2 -37	28 Sa	12:26 AM 5.0 152 05:12 AM 2.6 79 11:18 AM 6.2 189 05:52 PM -0.6 -18		13 M	01:24 AM 5.6 171 06:47 AM 1.7 52 12:53 PM 5.7 174 07:06 PM 0.2 6	28 Tu	12:47 AM 5.6 171 06:18 AM 1.2 37 12:39 PM 5.7 174 06:38 PM 0.2 6		13 M	01:08 AM 5.6 171 06:44 AM 1.0 30 01:01 PM 5.5 168 06:58 PM 0.5 15	28 Tu	12:29 AM 5.7 174 06:17 AM 0.4 12 12:48 PM 5.6 171 06:31 PM 0.4 12	
14 Sa	01:23 AM 5.5 168 06:17 AM 2.3 70 12:19 PM 6.4 195 06:55 PM -0.8 -24	29 Su	12:58 AM 5.1 155 05:52 AM 2.5 76 11:59 AM 6.1 186 06:28 PM -0.5 -15		14 Tu	01:59 AM 5.5 168 07:35 AM 1.6 49 01:39 PM 5.2 158 07:44 PM 0.8 24	29 W	01:38 AM 5.6 171 07:24 AM 0.9 27 01:44 PM 5.2 158 07:33 PM 0.9 27		14 Tu	01:38 AM 5.6 171 07:24 AM 0.9 27 01:44 PM 5.2 158 07:33 PM 0.9 27	29 W	01:04 AM 5.9 180 07:02 AM 0.0 0 01:40 PM 5.4 165 07:12 PM 0.8 24	
15 Su	02:06 AM 5.5 168 07:11 AM 2.3 70 01:07 PM 5.9 180 07:38 PM -0.4 -12	30 M	01:31 AM 5.3 162 06:35 AM 2.3 70 12:43 PM 5.8 177 07:05 PM -0.2 -6		15 W	02:34 AM 5.5 168 08:26 AM 1.6 49 02:30 PM 4.7 143 08:24 PM 1.3 40	30 Th	02:07 AM 5.5 168 08:04 AM 0.8 24 02:28 PM 4.8 146 08:08 PM 1.4 43		15 W	02:07 AM 5.5 168 08:04 AM 0.8 24 02:28 PM 4.8 146 08:08 PM 1.4 43	30 Th	01:41 AM 6.1 186 07:50 AM -0.3 -9 02:36 PM 5.1 155 07:56 PM 1.3 40	
		31 Tu	02:06 AM 5.4 165 07:24 AM 2.1 64 01:31 PM 5.5 168 07:45 PM 0.2 6									31 F	02:22 AM 6.1 186 08:43 AM -0.4 -12 03:38 PM 4.8 146 08:45 PM 1.8 55	

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San Francisco, California, 2017

Times and Heights of High and Low Waters

July					August					September																																																																																																																																																																													
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height																																																																																																																																																																										
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm																																																																																																																																																																										
1 Sa	12:41 AM 1.7 52 06:24 AM 4.0 122 12:13 PM 1.1 34 07:17 PM 5.7 174	16 Su	05:22 AM 4.2 128 11:11 AM 1.1 34 06:14 PM 5.7 174	1 Tu	02:04 AM 1.0 30 08:55 AM 3.9 119 01:31 PM 2.6 79 07:56 PM 5.7 174	16 W	01:19 AM 0.5 15 08:21 AM 4.2 128 12:57 PM 2.5 76 07:27 PM 6.3 192	1 F	03:03 AM 0.7 21 10:18 AM 4.5 137 03:03 PM 2.8 85 08:55 PM 5.6 171	16 Sa	03:02 AM -0.1 -3 10:09 AM 5.2 158 03:11 PM 2.2 67 09:20 PM 6.2 189	2 Su	01:46 AM 1.3 40 07:50 AM 3.8 116 01:09 PM 1.6 49 08:01 PM 5.7 174	17 M	12:39 AM 1.4 43 06:49 AM 3.9 119 12:08 PM 1.5 46 07:02 PM 6.0 183	2 W	02:58 AM 0.7 21 10:02 AM 4.1 125 02:29 PM 2.7 82 08:42 PM 5.8 177	17 Th	02:24 AM 0.1 3 09:34 AM 4.5 137 02:06 PM 2.6 79 08:27 PM 6.5 198	2 Sa	03:46 AM 0.4 12 10:54 AM 4.7 143 03:48 PM 2.7 82 09:43 PM 5.8 177	17 Su	03:53 AM -0.2 -6 10:53 AM 5.5 168 04:04 PM 1.8 55 10:16 PM 6.2 189	3 M	02:43 AM 0.8 24 09:11 AM 3.8 116 02:03 PM 2.0 61 08:42 PM 5.8 177	18 Tu	01:44 AM 0.8 24 08:20 AM 3.9 119 01:10 PM 1.9 58 07:53 PM 6.3 192	3 Th	03:44 AM 0.4 12 10:53 AM 4.3 131 03:21 PM 2.8 85 09:26 PM 5.9 180	18 F	03:22 AM -0.3 -9 10:32 AM 4.8 146 03:09 PM 2.5 76 09:26 PM 6.7 204	3 Su	04:25 AM 0.3 9 11:26 AM 4.9 149 04:27 PM 2.4 73 10:27 PM 5.9 180	18 M	04:39 AM -0.1 -3 11:32 AM 5.7 174 04:53 PM 1.5 46 11:09 PM 6.2 189	4 Tu	03:33 AM 0.5 15 10:19 AM 4.0 122 02:54 PM 2.3 70 09:21 PM 5.9 180	19 W	02:44 AM 0.1 3 09:39 AM 4.2 128 02:12 PM 2.2 67 08:45 PM 6.6 201	4 F	04:24 AM 0.2 6 11:34 AM 4.5 137 04:06 PM 2.8 85 10:08 PM 6.0 183	19 Sa	04:14 AM -0.6 -18 11:20 AM 5.1 155 04:06 PM 2.3 70 10:21 PM 6.8 207	4 M	04:59 AM 0.1 3 11:55 AM 5.0 152 05:03 PM 2.2 67 11:10 PM 6.0 183	19 Tu	05:20 AM 0.0 0 12:09 PM 5.8 177 05:38 PM 1.1 34 11:58 PM 6.0 183	5 W	04:15 AM 0.1 3 11:14 AM 4.2 128 04:41 PM 2.5 76 09:57 PM 6.0 183	20 Th	03:38 AM -0.5 -15 10:44 AM 4.5 137 03:13 PM 2.3 70 09:37 PM 6.8 207	5 Sa	05:01 AM 0.0 0 12:09 PM 4.7 143 04:47 PM 2.8 85 10:48 PM 6.1 186	20 Su	05:01 AM -0.8 -24 12:04 PM 5.4 165 04:58 PM 2.0 61 11:13 PM 6.8 207	5 Tu	05:33 AM 0.1 3 12:23 PM 5.2 158 05:39 PM 1.9 58 11:52 PM 6.0 183	20 W	05:59 AM 0.3 9 12:43 PM 5.8 177 06:21 PM 0.9 27	6 Th	04:53 AM -0.1 -3 12:00 PM 4.3 131 04:25 PM 2.7 82 10:33 PM 6.0 183	21 F	04:30 AM -1.0 -30 11:39 AM 4.8 146 04:10 PM 2.4 73 10:29 PM 7.0 213	6 Su	05:34 AM -0.2 -6 12:41 AM 4.8 146 05:24 PM 2.7 82 11:27 PM 6.1 186	21 M	05:45 AM -0.7 -21 12:45 PM 5.6 171 05:48 PM 1.8 55	6 W	06:06 AM 0.1 3 12:52 PM 5.4 165 06:16 PM 1.6 49	21 Th	12:45 AM 5.8 177 06:37 AM 0.7 21 01:15 PM 5.8 177 07:03 PM 0.8 24	7 F	05:28 AM -0.3 -9 12:40 PM 4.5 137 05:06 PM 2.8 85 11:09 PM 6.0 183	22 Sa	05:18 AM -1.3 -40 12:28 PM 5.1 155 05:05 PM 2.3 70 11:20 PM 7.0 213	7 M	06:07 AM -0.3 -9 01:11 PM 4.9 149 06:01 PM 2.6 79	22 Tu	12:03 AM 6.6 201 06:27 AM -0.5 -15 01:23 PM 5.7 174 06:37 PM 1.6 49	7 Th	12:35 AM 5.9 180 06:40 AM 0.3 9 01:23 PM 5.6 171 06:57 PM 1.3 40	22 F	01:32 AM 5.5 168 07:14 AM 1.1 34 01:46 PM 5.7 174 07:46 PM 0.7 21	8 Sa	06:01 AM -0.5 -15 11:16 PM 4.6 140 05:44 PM 2.8 85 11:44 PM 6.0 183	23 Su	06:05 AM -1.4 -43 01:14 PM 5.3 162 05:58 PM 2.2 67	8 Tu	12:06 AM 6.1 186 06:39 AM -0.3 -9 01:41 PM 5.0 152 06:38 PM 2.4 73	23 W	12:51 AM 6.3 192 07:08 AM -0.2 -6 02:01 PM 5.7 174 07:25 PM 1.5 46	8 F	01:21 AM 5.7 174 07:16 AM 0.6 18 01:56 PM 5.7 174 07:42 PM 1.1 34	23 Sa	02:20 AM 5.1 155 07:53 AM 1.6 49 02:18 PM 5.6 171 08:30 PM 0.7 21	9 Su	06:33 AM -0.6 -18 12:40 PM 4.6 140 06:22 PM 2.9 88	24 M	12:10 AM 6.9 210 06:50 AM -1.3 -40 01:58 PM 5.5 168 06:52 PM 2.1 64	9 W	12:45 AM 6.0 183 07:12 AM -0.2 -6 02:12 PM 5.2 158 07:18 PM 2.3 70	24 Th	01:39 AM 5.9 180 07:48 AM 0.3 9 02:37 PM 5.7 174 08:15 PM 1.4 43	9 Sa	02:10 AM 5.4 165 07:55 AM 1.0 30 02:33 PM 5.8 177 08:31 PM 0.8 24	24 Su	03:11 AM 4.7 143 08:33 AM 2.1 64 02:53 PM 5.5 168 09:17 PM 0.8 24	10 M	12:21 AM 6.0 183 07:06 AM -0.6 -18 02:23 PM 4.7 143 07:00 PM 2.9 88	25 Tu	01:00 AM 6.6 201 07:35 AM -1.0 -30 02:41 PM 5.6 171 07:46 PM 2.1 64	10 Th	01:27 AM 5.8 177 07:47 AM 0.0 0 02:44 PM 5.3 162 08:03 PM 2.1 64	25 F	02:29 AM 5.4 165 08:29 AM 0.8 24 03:14 PM 5.6 171 09:06 PM 1.4 43	10 Su	03:07 AM 5.0 152 08:38 AM 1.4 43 03:14 PM 5.9 180 09:28 PM 0.7 21	25 M	04:08 AM 4.4 134 09:20 AM 2.5 76 03:32 PM 5.3 162 10:10 PM 0.9 27	11 Tu	12:58 AM 5.8 177 07:40 AM -0.5 -15 02:56 PM 4.8 146 07:41 PM 2.8 85	26 W	01:50 AM 6.2 189 08:19 AM -0.5 -15 03:24 PM 5.6 171 08:43 PM 2.0 61	11 F	02:12 AM 5.5 168 08:24 AM 0.3 9 03:20 PM 5.5 168 08:54 PM 1.9 58	26 Sa	03:22 AM 4.9 149 09:11 AM 1.4 43 03:52 PM 5.6 171 10:02 PM 1.4 43	11 M	04:13 AM 4.7 143 09:28 AM 1.9 58 04:02 PM 5.9 180 10:32 PM 0.6 18	26 Tu	05:18 AM 4.2 128 10:17 AM 2.9 88 04:18 PM 5.1 155 11:10 PM 1.0 30	12 W	01:38 AM 5.6 171 08:15 AM -0.4 -12 03:31 PM 4.9 149 08:27 PM 2.7 82	27 Th	02:42 AM 5.6 171 09:03 AM 0.0 0 04:07 PM 5.6 171 09:44 PM 1.9 58	12 Sa	03:04 AM 5.1 155 09:05 AM 0.8 24 03:59 PM 5.6 171 09:52 PM 1.6 49	27 Su	04:22 AM 4.4 134 09:58 AM 1.9 58 04:33 PM 5.5 168 11:03 PM 1.4 43	12 Tu	05:31 AM 4.4 134 10:28 AM 2.4 73 04:57 PM 5.9 180 11:43 PM 0.4 12	27 W	06:38 AM 4.1 125 11:30 AM 3.1 94 05:14 PM 5.0 152	13 Th	02:21 AM 5.3 162 08:53 AM -0.1 -3 04:08 PM 5.1 155 09:21 PM 2.6 79	28 F	03:38 AM 5.0 152 09:49 AM 0.6 18 04:50 PM 5.6 171 10:48 PM 1.8 55	13 Su	04:06 AM 4.6 140 09:50 AM 1.3 40 04:42 PM 5.8 177 10:58 PM 1.3 40	28 M	05:36 AM 4.1 125 10:53 AM 2.4 73 05:19 PM 5.4 165	13 W	06:58 AM 4.4 134 11:41 AM 2.7 82 06:01 PM 5.9 180	28 Th	12:15 AM 1.0 30 07:53 AM 4.2 128 12:47 PM 3.1 94 06:17 PM 4.9 149	14 F	03:10 AM 5.0 152 09:35 AM 0.2 6 04:47 PM 5.3 162 10:22 PM 2.3 70	29 Sa	04:42 AM 4.5 137 10:38 AM 1.2 37 05:35 PM 5.6 171 11:56 PM 1.6 49	14 M	05:22 AM 4.3 131 10:44 AM 1.8 55 05:32 PM 5.9 180	29 Tu	12:08 AM 1.3 40 07:05 AM 4.0 122 11:58 AM 2.8 85 06:11 PM 5.3 162	14 Th	12:56 AM 0.3 9 08:16 AM 4.6 140 12:59 PM 2.7 82 07:09 PM 6.0 183	29 F	01:17 AM 0.9 27 08:49 AM 4.4 134 01:51 PM 3.0 91 07:22 PM 5.0 152	15 Sa	04:09 AM 4.6 140 10:20 AM 0.6 18 05:28 PM 5.5 168 11:30 PM 1.9 58	30 Su	05:58 AM 4.0 122 11:32 AM 1.8 55 06:21 PM 5.6 171	15 Tu	12:09 AM 1.0 30 06:52 AM 4.1 125 11:47 AM 2.2 67 06:27 PM 6.1 186	30 W	01:14 AM 1.1 34 08:30 AM 4.1 125 01:08 PM 2.9 88 07:07 PM 5.4 165	15 F	02:03 AM 0.0 0 09:19 AM 4.9 149 02:10 PM 2.5 76 08:17 PM 6.0 183	30 Sa	02:12 AM 0.8 24 09:31 AM 4.7 143 02:43 PM 2.7 82 08:22 PM 5.1 155	31 M	01:03 AM 1.3 40 07:28 AM 3.8 116 12:30 PM 2.2 67 07:08 PM 5.6 171	31 Th	02:13 AM 0.9 27 09:33 AM 4.3 131 02:10 PM 2.9 88 08:03 PM 5.5 168

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h m	ft cm	h m	ft cm		h m	ft cm	h m	ft cm		h m	ft cm	h m	ft cm	
1 Su	02:59 AM 10:04 AM 03:26 PM 09:16 PM	16 M	03:26 AM 10:20 AM 04:01 PM 10:14 PM		1 W	03:32 AM 10:13 AM 04:17 PM 10:40 PM	16 Th	03:20 AM 09:52 AM 04:14 PM 10:58 PM		1 F	02:35 AM 09:05 AM 03:38 PM 10:28 PM	16 Sa	03:36 AM 09:49 AM 04:34 PM 11:42 PM	
2 M	03:40 AM 10:35 AM 04:04 PM 10:06 PM	17 Tu	04:10 AM 10:57 AM 04:46 PM 11:07 PM		2 Th	04:12 AM 10:46 AM 04:57 PM 11:32 PM	17 F	03:59 AM 10:22 AM 04:50 PM 11:44 PM		2 Sa	03:21 AM 09:45 AM 04:22 PM 11:23 PM	17 Su	04:15 AM 10:21 AM 05:07 PM	
3 Tu	04:17 AM 11:04 AM 04:40 PM 10:53 PM	18 W	04:51 AM 11:30 AM 05:27 PM 11:57 PM		3 F	04:53 AM 11:20 AM 05:38 PM	18 Sa	04:37 AM 10:50 AM 05:24 PM		3 Su	04:08 AM 10:27 AM 05:07 PM	18 M	12:22 AM 04:54 AM 10:53 AM 05:40 PM	
4 W	04:53 AM 11:33 AM 05:17 PM 11:40 PM	19 Th	05:29 AM 12:01 PM 06:05 PM		4 Sa	12:25 AM 05:35 AM 11:57 AM 06:22 PM	19 Su	12:29 AM 05:14 AM 11:19 AM 05:59 PM		4 M	12:16 AM 04:57 AM 11:12 AM 05:55 PM	19 Tu	01:00 AM 05:31 AM 11:26 AM 06:13 PM	
5 Th	05:29 AM 12:04 PM 05:56 PM	20 F	12:44 AM 06:05 AM 12:30 PM 06:43 PM		5 Su	01:19 AM 05:18 AM 11:37 AM 06:08 PM	20 M	01:12 AM 05:52 AM 11:50 AM 06:34 PM		5 Tu	01:10 AM 05:49 AM 11:59 AM 06:44 PM	20 W	01:36 AM 06:10 AM 12:01 PM 06:47 PM	
6 F	12:28 AM 06:06 AM 12:36 PM 06:38 PM	21 Sa	01:29 AM 06:42 AM 12:58 PM 07:20 PM		6 M	01:15 AM 06:06 AM 12:20 PM 06:58 PM	21 Tu	01:55 AM 06:31 AM 12:24 PM 07:11 PM		6 W	02:04 AM 06:46 AM 12:51 PM 07:36 PM	21 Th	02:13 AM 06:50 AM 12:38 PM 07:24 PM	
7 Sa	01:19 AM 06:45 AM 01:12 PM 07:23 PM	22 Su	02:16 AM 07:19 AM 01:28 PM 07:59 PM		7 Tu	02:14 AM 06:59 AM 01:09 PM 07:52 PM	22 W	02:41 AM 07:16 AM 01:02 PM 07:52 PM		7 Th	03:00 AM 07:50 AM 01:47 PM 08:30 PM	22 F	02:50 AM 07:37 AM 01:19 PM 08:02 PM	
8 Su	02:13 AM 08:16 AM 01:52 PM 08:13 PM	23 M	03:04 AM 07:59 AM 02:01 PM 08:40 PM		8 W	03:17 AM 08:02 AM 02:04 PM 08:51 PM	23 Th	03:29 AM 08:09 AM 01:45 PM 08:37 PM		8 F	03:56 AM 09:03 AM 02:49 PM 09:28 PM	23 Sa	03:29 AM 08:31 AM 02:06 PM 08:44 PM	
9 M	03:13 AM 08:45 AM 02:37 PM 09:09 PM	24 Tu	03:57 AM 08:45 AM 02:39 PM 09:26 PM		9 Th	04:23 AM 09:17 AM 03:08 PM 09:55 PM	24 F	04:18 AM 09:15 AM 02:37 PM 09:26 PM		9 Sa	04:53 AM 10:22 AM 04:00 PM 10:27 PM	24 Su	04:10 AM 09:35 AM 03:01 PM 09:30 PM	
10 Tu	04:20 AM 09:12 AM 03:29 PM 10:11 PM	25 W	04:57 AM 09:43 AM 03:25 PM 10:18 PM		10 F	05:28 AM 10:40 AM 04:20 PM 11:02 PM	25 Sa	05:08 AM 10:30 AM 03:38 PM 10:19 PM		10 Su	05:47 AM 11:40 AM 05:20 PM 11:27 PM	25 M	04:52 AM 10:45 AM 04:10 PM 10:21 PM	
11 W	05:35 AM 10:22 AM 04:30 PM 11:20 PM	26 Th	06:02 AM 10:58 AM 04:20 PM 11:16 PM		11 Sa	06:27 AM 11:59 AM 05:39 PM	26 Su	05:53 AM 11:40 AM 04:48 PM 11:14 PM		11 M	06:37 AM 12:49 PM 06:44 PM	26 Tu	05:35 AM 11:51 AM 05:32 PM 11:16 PM	
12 Th	06:50 AM 11:44 AM 05:40 PM	27 F	07:04 AM 12:17 PM 05:25 PM		12 Su	12:05 AM 07:18 AM 01:07 PM 06:57 PM	27 M	06:34 AM 12:38 PM 06:05 PM		12 Tu	12:24 AM 07:23 AM 01:48 PM 08:02 PM	27 W	06:18 AM 12:50 PM 06:59 PM	
13 F	12:31 AM 07:57 AM 01:04 PM 06:55 PM	28 Sa	12:17 AM 07:55 AM 01:23 PM 06:36 PM		13 M	01:02 AM 08:04 AM 02:04 PM 08:09 PM	28 Tu	12:08 AM 07:13 AM 01:27 PM 07:20 PM		13 W	01:18 AM 08:05 AM 02:38 PM 09:10 PM	28 Th	12:13 AM 07:02 AM 01:43 PM 08:19 PM	
14 Sa	01:38 AM 08:53 AM 02:13 PM 08:08 PM	29 Su	01:14 AM 08:35 AM 02:15 PM 07:44 PM		14 Tu	01:53 AM 08:44 AM 02:53 PM 09:12 PM	29 W	12:59 AM 07:50 AM 02:12 PM 08:29 PM		14 Th	02:08 AM 08:42 AM 03:21 PM 10:07 PM	29 F	01:09 AM 07:47 AM 02:33 PM 09:26 PM	
15 Su	02:36 AM 09:39 AM 03:11 PM 09:15 PM	30 M	02:04 AM 09:09 AM 02:59 PM 08:48 PM		15 W	02:39 AM 09:19 AM 03:35 PM 10:07 PM	30 Th	01:47 AM 08:27 AM 02:54 PM 09:31 PM		15 F	02:53 AM 09:17 AM 03:59 PM 10:57 PM	30 Sa	02:05 AM 08:33 AM 03:20 PM 10:24 PM	
		31 Tu	02:50 AM 09:41 AM 03:39 PM 09:45 PM									31 Su	02:58 AM 09:19 AM 04:07 PM 11:17 PM	

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.



SAN FRANCISCO (Golden Gate), California, 2018

Times and Heights of High and Low Waters

January				February				March										
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height							
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm							
1 M	03:47 AM 10:02 AM 04:52 PM	2.5 76 7.1 216 -1.6 -49	16 Tu	12:00 AM 04:33 AM 10:29 AM 05:19 PM	4.8 146 2.9 88 6.1 186 -0.5 -15	1 Th	12:28 AM 05:24 AM 11:34 AM 06:08 PM	5.5 168 2.0 61 6.8 207 -1.2 -37	16 F	12:21 AM 05:25 AM 11:29 AM 05:54 PM	4.9 149 2.2 67 5.8 177 -0.2 -6	1 Th	04:25 AM 10:37 AM 05:02 PM 11:55 PM	1.6 49 6.4 195 -0.9 -27 5.6 171	16 F	12:07 AM 05:30 AM 11:37 AM 05:50 PM	5.0 152 1.6 49 5.5 168 0.0 0	
2 Tu	12:06 AM 04:40 AM 10:51 AM 05:40 PM	5.2 158 2.6 79 7.1 216 -1.7 -52	17 W	12:32 AM 05:08 AM 11:04 AM 05:50 PM	4.8 146 2.9 88 6.0 183 -0.5 -15	2 F	01:10 AM 06:18 AM 12:25 PM 06:52 PM	5.6 171 1.8 55 6.4 195 -0.8 -24	17 Sa	12:49 AM 06:00 AM 12:07 PM 06:24 PM	5.1 155 2.0 61 5.6 171 0.0 0	2 F	05:14 AM 11:28 AM 05:43 PM	1.2 37 6.2 189 -0.6 -18	17 Sa	12:33 AM 06:04 AM 12:19 PM 06:21 PM	5.1 155 1.3 40 5.4 165 0.2 6	
3 W	12:54 AM 05:34 AM 11:42 AM 06:28 PM	5.4 165 2.5 76 7.0 213 -1.6 -49	18 Th	01:02 AM 05:44 AM 11:40 AM 06:22 PM	4.8 146 2.8 85 5.9 180 -0.4 -12	3 Sa	01:51 AM 07:13 AM 01:17 PM 07:35 PM	5.7 174 1.7 52 5.8 177 -0.3 -9	18 Su	01:18 AM 06:39 AM 12:48 PM 06:57 PM	5.2 158 1.8 55 5.3 162 0.3 9	3 Sa	12:32 AM 06:03 AM 12:18 PM 06:23 PM	5.7 174 1.0 30 5.8 177 -0.1 -3	18 Su	01:01 AM 06:40 AM 01:02 PM 06:53 PM	5.3 162 1.0 30 5.2 160 0.5 15	
4 Th	01:42 AM 06:31 AM 12:34 PM 07:16 PM	5.4 165 2.5 76 6.6 201 -1.2 -37	19 F	01:33 AM 06:21 AM 12:17 PM 06:54 PM	4.9 149 2.7 82 5.7 174 -0.3 -9	4 Su	02:33 AM 08:11 AM 03:15 PM 08:19 PM	5.7 174 1.6 49 5.2 158 0.4 12	19 M	01:48 AM 07:22 AM 01:34 PM 07:33 PM	5.3 162 1.6 49 4.9 149 0.7 21	4 Su	01:08 AM 06:51 AM 01:09 PM 07:03 PM	5.7 174 0.8 24 5.4 165 0.4 12	19 M	01:30 AM 07:19 AM 01:48 PM 07:27 PM	5.5 168 0.7 21 5.1 155 0.8 24	
5 F	02:30 AM 07:32 AM 11:42 PM 08:04 PM	5.5 168 2.4 73 6.1 186 -0.8 -24	20 Sa	02:04 AM 07:01 AM 12:55 PM 07:28 PM	4.9 149 2.6 79 5.4 165 -0.1 -3	5 M	03:16 AM 09:15 AM 03:15 PM 09:06 PM	5.6 171 1.5 46 4.6 140 1.1 34	20 Tu	02:22 AM 08:12 AM 02:29 PM 08:12 PM	5.4 165 1.4 43 4.5 137 1.2 37	5 M	01:44 AM 07:41 AM 02:03 PM 07:44 PM	5.7 174 0.8 24 4.9 149 1.1 34	20 Tu	02:02 AM 08:02 AM 02:39 PM 08:05 PM	5.6 171 0.4 12 4.8 146 1.3 40	
6 Sa	03:18 AM 08:39 AM 02:27 PM 08:54 PM	5.6 171 2.3 70 5.4 165 -0.2 -6	21 Su	02:38 AM 07:48 AM 01:39 PM 08:04 PM	5.0 152 2.5 76 5.0 152 0.3 9	6 Tu	04:01 AM 10:24 AM 04:31 PM 10:00 PM	5.6 171 1.4 43 4.0 122 1.7 52	21 W	03:00 AM 09:11 AM 03:39 PM 08:59 PM	5.5 168 1.2 37 4.1 125 1.8 55	6 Tu	02:21 AM 08:35 AM 03:02 PM 08:28 PM	5.6 171 0.8 24 4.4 134 1.7 52	21 W	02:37 AM 08:51 AM 03:39 PM 08:48 PM	5.6 171 0.3 9 4.4 134 1.8 55	
7 Su	04:07 AM 09:53 AM 03:33 PM 09:47 PM	5.6 171 2.1 64 4.7 143 0.5 15	22 M	03:14 AM 08:42 AM 02:31 PM 08:45 PM	5.1 155 2.3 70 4.6 140 0.7 21	7 W	04:49 AM 11:36 AM 06:05 PM 11:04 PM	5.5 168 1.2 37 3.8 116 2.3 70	22 Th	03:46 AM 10:20 AM 05:10 PM 09:59 PM	5.6 171 0.9 27 3.9 119 2.3 70	7 W	03:01 AM 09:33 AM 04:15 PM 09:21 PM	5.4 165 0.8 24 4.0 122 2.3 70	22 Th	03:17 AM 09:48 AM 04:51 PM 09:40 PM	5.7 174 0.2 6 4.2 128 2.3 70	
8 M	04:57 AM 11:09 AM 04:52 PM 10:43 PM	5.7 174 1.8 55 4.2 128 1.1 34	23 Tu	03:53 AM 09:47 AM 03:38 PM 09:32 PM	5.3 162 2.1 64 4.2 128 1.2 37	8 Th	05:40 AM 12:43 PM 07:39 PM	5.5 168 0.9 27 3.9 119	23 F	04:40 AM 11:35 AM 06:47 PM 11:13 PM	5.7 174 0.5 15 3.9 119 2.7 82	8 Th	03:46 AM 10:39 AM 05:45 PM 10:30 PM	5.2 158 0.9 27 3.9 119 2.7 82	23 F	04:06 AM 10:54 AM 06:17 PM 10:48 PM	5.6 171 0.1 3 4.1 125 2.7 82	
9 Tu	05:47 AM 12:20 PM 06:22 PM 11:43 PM	5.8 177 1.4 43 3.9 119 1.7 52	24 W	04:36 AM 10:58 AM 05:07 PM 10:28 PM	5.5 168 1.6 49 3.8 116 1.8 55	9 F	12:13 AM 06:32 AM 01:41 PM 08:50 PM	2.7 82 5.5 168 0.6 18 4.2 128	24 Sa	05:42 AM 12:47 PM 08:07 PM	5.8 177 0.1 3 4.2 128	9 F	04:39 AM 11:49 AM 07:16 PM 11:50 PM	5.1 155 0.8 24 4.0 122 2.9 88	24 Sa	05:07 AM 12:08 PM 07:42 PM	5.5 168 0.0 0 4.2 128	
10 W	06:35 AM 01:23 PM 07:50 PM	5.8 177 0.9 27 4.0 122	25 Th	05:25 AM 12:09 PM 06:46 PM 11:32 PM	5.7 174 1.1 34 3.8 116 2.2 67	10 Sa	01:18 AM 07:23 AM 02:30 PM 09:41 PM	2.8 85 5.6 171 0.3 9 4.4 134	25 Su	12:31 AM 06:48 AM 01:50 PM 09:06 PM	2.8 85 6.0 183 -0.4 -12 4.6 140	10 Sa	05:39 AM 12:53 PM 08:22 PM	5.0 152 6.0 18 4.2 128	25 Su	12:14 AM 06:18 AM 01:21 PM 08:50 PM	2.8 85 5.5 168 -0.2 -6 4.5 137	
11 Th	12:42 AM 07:20 AM 02:16 PM 09:02 PM	2.2 67 5.9 180 0.5 15 4.2 128	26 F	06:17 AM 01:13 PM 08:12 PM	6.0 183 0.4 12 4.1 125	11 Su	02:14 AM 08:10 AM 03:12 PM 10:22 PM	2.9 88 5.7 174 0.1 3 4.6 140	26 M	01:41 AM 07:51 AM 02:44 PM 09:54 PM	2.6 79 6.2 189 -0.7 -21 4.9 149	11 Su	01:01 AM 07:41 AM 02:48 PM 10:08 PM	2.9 88 5.0 152 0.4 12 4.4 134	26 M	01:36 AM 07:33 AM 02:26 PM 09:42 PM	2.7 82 5.5 168 -0.4 -12 4.8 146	
12 F	01:38 AM 08:01 AM 03:00 PM 09:58 PM	2.5 76 6.0 183 0.2 6 4.4 134	27 Sa	12:39 AM 07:11 AM 02:10 PM 09:19 PM	2.5 76 6.3 192 -0.3 -9 4.4 134	12 M	03:00 AM 08:54 AM 03:49 PM 10:56 PM	2.8 85 5.8 177 -0.1 -3 4.7 143	27 Tu	02:41 AM 08:50 AM 03:34 PM 10:37 PM	2.3 70 6.4 195 -0.9 -27 5.2 158	12 M	02:57 AM 08:38 AM 03:33 PM 10:43 PM	2.7 82 5.1 155 0.3 9 4.6 140	27 Tu	02:44 AM 08:42 AM 03:21 PM 10:26 PM	2.2 67 5.6 171 -0.5 -15 5.1 155	
13 Sa	02:29 AM 08:40 AM 03:39 PM 10:45 PM	2.7 82 6.1 186 -0.1 -3 4.6 140	28 Su	01:44 AM 08:05 AM 03:02 PM 10:14 PM	2.6 79 6.6 201 -0.8 -24 4.8 146	13 Tu	03:41 AM 09:34 AM 04:23 PM 11:26 PM	2.7 82 5.9 180 -0.2 -6 4.8 146	28 W	03:34 AM 09:45 AM 04:19 PM 11:17 PM	2.0 61 6.5 198 -1.0 -30 5.4 165	13 Tu	03:43 AM 09:28 AM 04:12 PM 11:13 PM	2.5 76 5.3 162 0.1 3 4.7 143	28 W	03:40 AM 09:44 AM 04:09 PM 11:05 PM	1.7 52 5.7 174 -0.5 -15 5.4 165	
14 Su	03:14 AM 09:17 AM 04:15 PM 11:24 PM	2.8 85 6.1 186 -0.3 -9 4.7 143	29 M	02:43 AM 08:58 AM 03:51 PM 11:01 PM	2.6 79 6.9 210 -1.2 -37 5.1 155	14 W	04:17 AM 10:13 AM 04:54 PM 11:53 PM	2.5 76 5.9 180 -0.3 -9 4.9 149	29 Th	04:22 AM 10:14 AM 04:47 PM 11:40 PM	2.2 67 5.4 165 0.0 0 4.8 146	14 W	04:22 AM 10:14 AM 04:47 PM 11:40 PM	2.2 67 5.4 165 0.0 0 4.8 146	29 Th	04:31 AM 10:41 AM 04:53 PM 11:41 PM	1.2 37 5.7 174 -0.3 -9 5.6 171	
15 M	03:55 AM 09:53 AM 04:48 PM	2.9 88 6.1 186 -0.4 -12	30 Tu	03:38 AM 09:51 AM 04:38 PM 11:46 PM	2.4 73 7.0 213 -1.4 -43 5.3 162	15 Th	04:51 AM 10:51 AM 05:24 PM	2.4 73 5.9 180 -0.3 -9	30 Th	04:57 AM 10:56 AM 05:19 PM	1.9 58 5.5 168 0.0 0	15 Th	04:57 AM 10:56 AM 05:19 PM	1.9 58 5.5 168 0.0 0	30 F	05:18 AM 11:34 AM 05:34 PM	0.8 24 5.7 174 -0.1 -3	
			31 W	04:31 AM 10:43 AM 05:24 PM	2.2 67 7.0 213 -1.4 -43											31 Sa	12:16 AM 06:03 AM 12:25 PM 06:13 PM	5.7 174 0.4 12 5.5 168 0.3 9



SAN FRANCISCO (Golden Gate), California, 2018

Times and Heights of High and Low Waters

April					May					June																																																																																																																																																																											
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height																																																																																																																																																																								
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm																																																																																																																																																																								
1 Su	12:50 AM 5.8 177 06:46 AM 0.2 6 01:15 PM 5.2 158 06:52 PM 0.8 24	16 M	12:14 AM 5.7 174 06:20 AM -0.1 -3 01:01 PM 5.0 152 06:21 PM 1.2 37	1 Tu	12:40 AM 5.8 177 07:08 AM -0.5 -15 02:05 PM 4.6 140 07:00 PM 2.1 64	16 W	12:09 AM 6.3 192 06:46 AM -1.2 -37 01:55 PM 4.8 146 06:36 PM 2.2 67	1 F	01:08 AM 5.6 171 08:01 AM -0.6 -18 03:31 PM 4.5 137 08:00 PM 3.1 94	16 Sa	01:20 AM 6.6 201 08:10 AM -1.6 -49 03:33 PM 5.2 158 08:15 PM 2.7 82	2 M	01:23 AM 5.7 174 07:29 AM 0.0 0 02:05 PM 4.9 149 07:30 PM 1.3 40	17 Tu	12:46 AM 5.8 177 07:01 AM -0.4 -12 01:52 PM 4.8 146 07:00 PM 1.6 49	2 W	01:10 AM 5.7 174 07:41 AM -0.5 -15 02:55 PM 4.5 137 07:41 PM 2.5 76	17 Th	12:50 AM 6.4 195 07:33 AM -1.4 -43 02:51 PM 4.8 146 07:26 PM 2.5 76	2 Sa	01:44 AM 5.4 165 08:40 AM -0.4 -12 04:15 PM 4.5 137 08:50 PM 3.2 98	17 Su	02:14 AM 6.2 189 09:02 AM -1.3 -40 04:25 PM 5.2 158 09:23 PM 2.6 79	3 Tu	01:55 AM 5.6 171 08:13 AM 0.0 0 02:58 PM 4.6 140 08:10 PM 1.8 55	18 W	01:21 AM 5.9 180 07:46 AM -0.6 -18 02:48 PM 4.7 143 07:43 PM 2.0 61	3 Th	01:43 AM 5.5 168 08:27 AM -0.4 -12 03:47 PM 4.4 134 08:26 PM 2.8 85	18 F	01:36 AM 6.3 192 08:23 AM -1.4 -43 03:49 PM 4.8 146 08:23 PM 2.7 82	3 Su	02:25 AM 5.1 155 09:21 AM -0.2 -6 05:00 PM 4.5 137 09:50 PM 3.2 98	18 M	03:13 AM 5.7 174 09:55 AM -0.8 -24 05:18 PM 5.4 165 10:40 PM 2.4 73	4 W	02:29 AM 5.5 168 08:58 AM 0.1 3 03:55 PM 4.3 131 08:55 PM 2.3 70	19 Th	02:01 AM 5.9 180 08:36 AM -0.7 -21 03:49 PM 4.5 137 08:32 PM 2.4 73	4 F	02:18 AM 5.2 158 09:10 AM -0.2 -6 03:47 PM 4.2 128 09:19 PM 3.0 91	19 Sa	02:27 AM 6.0 183 09:18 AM -1.2 -37 04:49 PM 4.8 146 09:31 PM 2.8 85	4 M	03:10 AM 4.8 146 10:06 AM 0.0 0 05:45 PM 4.5 137 11:00 PM 3.1 94	19 Tu	04:19 AM 5.1 155 10:51 AM -0.3 -9 06:10 PM 5.5 168 11:59 PM 2.1 64	5 Th	03:05 AM 5.2 158 09:47 AM 0.2 6 05:01 PM 4.1 125 09:48 PM 2.7 82	20 F	02:46 AM 5.8 177 09:31 AM -0.7 -21 04:58 PM 4.4 134 09:33 PM 2.7 82	5 Sa	02:59 AM 5.0 152 09:58 AM 0.0 0 05:43 PM 4.2 128 10:29 PM 3.1 94	20 Su	03:24 AM 5.6 171 10:17 AM -0.9 -27 05:51 PM 4.9 149 10:52 PM 2.7 82	5 Tu	04:05 AM 4.4 134 10:55 AM 0.3 9 06:29 PM 4.7 143	20 W	05:34 AM 4.6 140 11:49 AM 0.3 9 07:01 PM 5.7 174	6 F	03:46 AM 5.0 152 10:44 AM 0.4 12 06:18 PM 4.0 122 11:01 PM 3.0 91	21 Sa	03:40 AM 5.6 171 10:35 AM -0.6 -18 06:12 PM 4.4 134 10:52 PM 2.8 85	6 Su	03:48 AM 4.6 140 10:52 AM 0.2 6 06:43 PM 4.3 131 11:50 PM 3.1 94	21 M	04:31 AM 5.2 158 11:20 AM -0.5 -15 06:50 PM 5.1 155	6 W	12:12 AM 2.8 85 05:10 AM 4.1 125 11:46 AM 0.5 15 07:10 PM 4.9 149	21 Th	01:13 AM 1.6 49 06:57 AM 4.2 128 12:46 PM 0.8 24 07:49 PM 5.9 180	7 Sa	04:38 AM 4.7 143 11:48 AM 0.5 15 07:36 PM 4.1 125	22 Su	04:46 AM 5.3 162 11:44 AM -0.4 -12 07:21 PM 4.6 140	7 M	04:49 AM 4.4 134 11:50 AM 0.4 12 07:35 PM 4.4 134	22 Tu	12:17 AM 2.4 73 05:48 AM 4.8 146 12:23 PM -0.2 -6 07:43 PM 5.3 162	7 Th	01:15 AM 2.3 70 06:26 AM 3.9 119 12:37 PM 0.8 24 07:49 PM 5.2 158	22 F	02:17 AM 1.0 30 08:21 AM 4.1 125 01:42 PM 1.3 40 08:33 PM 6.1 186	8 Su	12:25 AM 3.0 91 05:42 AM 4.6 140 12:53 PM 0.5 15 08:36 PM 4.2 128	23 M	12:21 AM 2.7 82 06:02 AM 5.1 155 12:54 PM -0.3 -9 08:20 PM 4.9 149	8 Tu	01:02 AM 2.8 85 05:59 AM 4.2 128 12:48 PM 0.5 15 08:16 PM 4.6 140	23 W	01:31 AM 1.9 58 07:09 AM 4.5 137 01:22 PM 0.2 6 08:30 PM 5.6 171	8 F	02:07 AM 1.8 55 07:45 AM 3.8 116 01:28 PM 1.1 34 08:25 PM 5.5 168	23 Sa	03:13 AM 0.5 15 09:38 AM 4.1 125 02:35 PM 1.8 55 09:14 PM 6.2 189	9 M	01:37 AM 2.9 88 06:52 AM 4.5 137 01:52 PM 0.5 15 09:18 PM 4.4 134	24 Tu	01:39 AM 2.3 70 07:21 AM 4.9 149 01:56 PM -0.2 -6 09:09 PM 5.2 158	9 W	02:00 AM 2.4 73 07:13 AM 4.1 125 01:40 PM 0.6 18 08:51 PM 4.8 146	24 Th	02:34 AM 1.2 37 08:27 AM 4.4 134 02:16 PM 0.6 18 09:13 PM 5.8 177	9 Sa	02:53 AM 1.1 34 08:59 AM 3.9 119 02:17 PM 1.4 43 09:01 PM 5.8 177	24 Su	04:00 AM 0.1 3 10:42 AM 4.3 131 03:24 PM 2.2 67 09:52 PM 6.2 189	10 Tu	02:33 AM 2.5 76 07:59 AM 4.5 137 02:41 PM 0.4 12 09:51 PM 4.6 140	25 W	02:43 AM 1.7 52 08:34 AM 4.9 149 02:51 PM -0.1 -3 09:51 PM 5.5 168	10 Th	02:47 AM 1.9 58 08:21 AM 4.1 125 02:26 PM 0.7 21 09:23 PM 5.1 155	25 F	03:28 AM 0.6 18 09:38 AM 4.4 134 03:05 PM 1.0 30 09:51 PM 6.0 183	10 Su	03:35 AM 0.4 12 10:06 AM 4.1 125 03:04 PM 1.7 52 09:38 PM 6.1 186	11 W	03:18 AM 2.1 64 08:57 AM 4.7 143 03:23 PM 0.3 9 10:20 PM 4.8 146	26 Th	03:37 AM 1.1 34 09:40 AM 5.0 152 03:39 PM 0.2 6 10:29 PM 5.7 174	11 F	03:27 AM 1.3 40 09:23 AM 4.3 131 03:08 PM 0.8 24 09:53 PM 5.4 165	26 Sa	04:15 AM 0.1 3 10:41 AM 4.4 134 03:50 PM 1.4 43 10:26 PM 6.1 186	11 M	04:17 AM -0.2 -6 11:07 AM 4.4 134 03:51 PM 2.0 61 10:17 PM 6.4 195	12 Th	03:57 AM 1.7 52 09:49 AM 4.8 146 04:01 PM 0.3 9 10:48 PM 5.0 152	27 F	04:25 AM 0.6 18 10:40 AM 5.0 152 04:22 PM 0.5 15 11:04 PM 5.8 177	12 Sa	04:05 AM 0.8 24 10:20 AM 4.4 134 03:48 PM 1.0 30 10:24 PM 5.7 174	27 Su	04:58 AM -0.2 -6 11:37 AM 4.5 137 04:33 PM 1.8 55 11:00 PM 6.1 186	12 Tu	05:01 AM -0.8 -24 12:03 PM 4.6 140 04:38 PM 2.2 67 10:58 PM 6.7 204	12 W	05:57 AM -0.5 -15 01:10 PM 4.6 140 05:35 PM 2.9 88 11:36 PM 6.1 186	13 F	04:32 AM 1.3 40 10:37 AM 4.9 149 04:35 PM 0.4 12 11:15 PM 5.2 158	28 Sa	05:09 AM 0.1 3 11:34 AM 4.9 149 05:03 PM 0.8 24 11:37 PM 5.9 180	13 Su	04:42 AM 0.2 6 11:14 AM 4.6 140 04:28 PM 1.3 40 10:57 PM 5.9 180	28 M	05:37 AM -0.5 -15 12:29 PM 4.5 137 05:14 PM 2.1 64 11:32 PM 6.0 183	13 W	05:45 AM -1.3 -40 12:57 PM 4.8 146 05:27 PM 2.4 73 11:43 PM 6.8 207	28 Th	06:31 AM -0.6 -18 01:50 PM 4.7 143 06:15 PM 3.0 91	14 Sa	05:07 AM 0.8 24 11:24 AM 5.0 152 05:09 PM 0.6 18 11:44 PM 5.5 168	29 Su	05:50 AM -0.2 -6 12:26 PM 4.8 146 05:42 PM 1.3 40	14 M	05:21 AM -0.4 -12 12:07 PM 4.7 143 05:08 PM 1.6 49 11:32 PM 6.2 189	29 Tu	06:13 AM -0.7 -21 01:18 PM 4.6 140 05:54 PM 2.5 76	14 Th	06:32 AM -1.6 -49 01:49 PM 5.0 152 06:19 PM 2.6 79	29 F	12:11 AM 6.0 183 07:04 AM -0.6 -18 02:27 PM 4.7 143 06:55 PM 3.1 94	15 Su	05:42 AM 0.4 12 12:12 PM 5.0 152 05:44 PM 0.8 24	30 M	12:09 AM 5.9 180 06:30 AM -0.4 -12 01:16 PM 4.7 143 06:21 PM 1.7 52	15 Tu	06:02 AM -0.9 -27 01:01 PM 4.8 146 05:51 PM 1.9 58	30 W	12:03 AM 5.9 180 06:49 AM -0.7 -21 02:03 PM 4.6 140 06:35 PM 2.7 82	15 F	12:30 AM 6.8 207 07:20 AM -1.7 -52 02:41 PM 5.1 155 07:14 PM 2.7 82	30 Sa	12:46 AM 5.8 177 07:38 AM -0.5 -15 03:02 PM 4.7 143 07:35 PM 3.1 94	31 Th	12:35 AM 5.8 177 07:25 AM -0.7 -21 02:48 PM 4.5 137 07:16 PM 2.9 88				

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.



SAN FRANCISCO (Golden Gate),California,2018

Datum:mean lower low water (MLLW) which is the chart datum of soundings

Times and Heights of High and Low Waters

July					August					September							
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height				
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm				
1 Su	01:22 AM 08:12 AM 03:36 PM 08:19 PM	5.6 171 -0.4 -12 4.7 143 3.1 94	16 M	02:05 AM 08:40 AM 03:49 PM 09:06 PM	6.3 192 -0.9 -27 5.6 171 2.2 67	1 W	02:27 AM 08:49 AM 03:53 PM 09:23 PM	5.1 155 0.5 15 5.2 158 2.4 73	16 Th	03:56 AM 09:46 AM 04:35 PM 10:53 PM	5.0 152 1.1 34 5.9 180 1.3 40	1 Sa	04:15 AM 09:36 AM 04:18 PM 10:47 PM	4.4 134 2.0 61 5.7 174 1.1 34	16 Su	06:25 AM 11:19 AM 05:22 PM	4.3 131 2.9 88 5.4 165
2 M	02:01 AM 08:48 AM 04:12 PM 09:09 PM	5.3 162 -0.2 -6 4.8 146 3.0 91	17 Tu	03:03 AM 09:29 AM 04:36 PM 10:16 PM	5.7 174 -0.3 -9 5.7 174 2.0 61	2 Th	03:15 AM 09:27 AM 04:30 PM 10:21 PM	4.7 143 0.9 27 5.3 162 2.1 64	17 F	05:10 AM 10:40 AM 05:23 PM	4.5 137 1.8 55 5.8 177	2 Su	05:37 AM 10:31 AM 05:09 PM 11:58 PM	4.1 125 2.5 76 5.7 174 0.8 24	17 M	12:26 AM 07:50 AM 12:38 PM 06:23 PM	0.9 27 4.4 134 3.1 94 5.2 158
3 Tu	02:44 AM 09:26 AM 04:49 PM 10:07 PM	5.0 152 0.1 3 4.9 149 2.9 88	18 W	04:07 AM 10:19 AM 05:25 PM 11:31 PM	5.1 155 0.3 9 5.8 177 1.7 52	3 F	04:15 AM 10:10 AM 05:10 PM 11:27 PM	4.3 131 1.4 43 5.5 168 1.8 55	18 Sa	12:05 AM 06:37 AM 11:43 AM 06:16 PM	1.1 34 4.2 128 2.4 73 5.8 177	3 M	07:09 AM 11:41 AM 06:09 PM	4.1 125 2.8 85 5.9 180	18 Tu	01:31 AM 08:56 AM 01:47 PM 07:26 PM	0.8 24 4.6 140 3.0 91 5.2 158
4 W	03:33 AM 10:08 AM 05:28 PM 11:13 PM	4.6 140 0.4 12 5.0 152 2.6 79	19 Th	05:20 AM 11:14 AM 06:15 PM	4.5 137 1.0 30 5.9 180	4 Sa	05:34 AM 11:00 AM 05:55 PM	4.0 122 1.9 58 5.7 174	19 Su	01:14 AM 08:08 AM 12:53 PM 07:10 PM	0.9 27 4.2 128 2.7 82 5.7 174	4 Tu	01:10 AM 08:31 AM 12:58 PM 07:14 PM	0.5 15 4.3 131 3.0 91 6.1 186	19 W	02:27 AM 09:45 AM 02:43 PM 08:24 PM	0.7 21 4.7 143 2.8 85 5.3 162
5 Th	04:34 AM 10:53 AM 06:08 PM	4.2 128 0.8 24 5.2 158	20 F	12:44 AM 06:46 AM 12:12 PM 07:04 PM	1.3 40 4.1 125 1.6 49 6.0 183	5 Su	12:36 AM 07:08 AM 12:01 PM 06:46 PM	1.3 40 3.9 119 2.3 70 6.0 183	20 M	02:16 AM 09:22 AM 01:59 PM 08:04 PM	0.7 21 4.4 134 2.9 88 5.8 177	5 W	02:15 AM 09:33 AM 02:09 PM 08:18 PM	0.1 3 4.7 143 2.8 85 6.3 192	20 Th	03:15 AM 10:22 AM 03:29 PM 09:15 PM	0.5 15 4.9 149 2.6 79 5.4 165
6 F	12:20 AM 05:50 AM 11:43 AM 06:49 PM	2.2 67 3.9 119 1.3 40 5.5 168	21 Sa	01:51 AM 08:16 AM 01:13 PM 07:53 PM	0.9 27 4.0 122 2.1 64 6.1 186	6 M	01:41 AM 08:37 AM 01:07 PM 07:39 PM	0.7 21 4.0 122 2.6 79 6.3 192	21 Tu	03:09 AM 10:18 AM 02:56 PM 08:54 PM	0.5 15 4.6 140 2.9 88 5.8 177	6 Th	03:11 AM 10:22 AM 03:09 PM 09:19 PM	-0.3 -9 5.0 152 2.5 76 6.5 198	21 F	03:55 AM 10:53 AM 04:08 PM 10:01 PM	0.4 12 5.0 152 2.3 70 5.5 168
7 Sa	01:21 AM 07:19 AM 12:38 PM 07:32 PM	1.6 49 3.8 116 1.7 52 5.8 177	22 Su	02:49 AM 09:35 AM 02:12 PM 08:39 PM	0.5 15 4.2 128 2.5 76 6.1 186	7 Tu	02:40 AM 09:49 AM 02:11 PM 08:34 PM	0.1 3 4.4 134 2.8 85 6.6 201	22 W	03:54 AM 11:01 AM 03:44 PM 09:40 PM	0.3 9 4.8 146 2.9 88 5.9 180	7 F	04:02 AM 11:06 AM 04:04 PM 10:16 PM	-0.6 -18 5.3 162 2.1 64 6.6 201	22 Sa	04:30 AM 11:44 AM 04:44 PM 10:44 PM	0.4 12 5.1 155 2.0 61 5.6 171
8 Su	02:16 AM 08:44 AM 01:34 PM 08:15 PM	0.9 27 3.9 119 2.0 61 6.2 189	23 M	03:39 AM 10:37 AM 03:07 PM 09:22 PM	0.2 6 4.4 134 2.7 82 6.2 189	8 W	03:33 AM 11:34 AM 01:07 PM 09:29 PM	-0.4 -12 4.7 143 2.7 82 6.8 207	23 Th	04:33 AM 11:37 AM 04:26 PM 10:22 PM	0.2 6 4.9 149 2.7 82 6.0 183	8 Sa	04:49 AM 11:46 AM 04:55 PM 11:11 PM	-0.6 -18 5.5 168 1.7 52 6.6 201	23 Su	05:02 AM 11:46 AM 05:17 PM 11:25 PM	0.4 12 5.2 158 1.7 52 5.5 168
9 M	03:06 AM 07:19 AM 02:30 PM 09:01 PM	0.3 9 4.2 128 2.3 70 6.5 198	24 Tu	04:22 AM 11:35 AM 03:56 PM 10:02 PM	0.0 0 4.6 140 2.9 88 6.2 189	9 Th	04:23 AM 11:34 AM 04:08 PM 10:23 PM	-0.8 -24 5.0 152 2.6 79 7.0 213	24 F	05:08 AM 12:08 PM 05:03 PM 11:01 PM	0.1 3 4.9 149 2.6 79 6.0 183	9 Su	05:34 AM 12:25 PM 05:46 PM	-0.5 -15 5.7 174 1.3 40	24 M	05:32 AM 12:12 PM 05:50 PM	0.6 18 5.3 162 1.4 43
10 Tu	03:54 AM 10:59 AM 03:24 PM 09:48 PM	-0.4 -12 4.5 137 2.5 76 6.8 207	25 W	05:01 AM 12:10 PM 04:40 PM 10:40 PM	-0.2 -6 4.7 143 2.9 88 6.2 189	10 F	05:12 AM 12:18 PM 05:02 PM 11:17 PM	-1.1 -34 5.2 158 2.3 70 7.1 216	25 Sa	05:40 AM 12:37 PM 05:38 PM 11:39 PM	0.1 3 5.0 152 2.4 73 5.9 180	10 M	12:04 AM 06:16 AM 01:03 PM 06:35 PM	6.5 198 -0.3 -9 5.9 180 1.0 30	25 Tu	12:06 AM 06:02 AM 12:39 PM 06:23 PM	5.5 168 0.7 21 5.5 168 1.1 34
11 W	04:42 AM 11:53 AM 04:18 PM 10:36 PM	-1.0 -30 4.8 146 2.6 79 7.0 213	26 Th	05:36 AM 12:47 PM 05:20 PM 11:18 PM	-0.3 -9 4.8 146 2.9 88 6.1 186	11 Sa	05:58 AM 01:01 PM 05:55 PM	-1.2 -37 5.5 168 2.1 64	26 Su	06:10 AM 01:03 PM 06:12 PM	0.1 3 5.1 155 2.2 67	11 Tu	12:57 AM 06:58 AM 01:41 PM 07:26 PM	6.2 189 0.2 6 6.0 183 0.8 24	26 W	12:48 AM 06:33 AM 01:07 PM 06:59 PM	5.4 165 1.0 30 5.6 171 0.9 27
12 Th	05:29 AM 12:43 PM 05:11 PM 11:26 PM	-1.3 -40 5.0 152 2.6 79 7.1 216	27 F	06:09 AM 01:20 PM 05:57 PM 11:54 PM	-0.3 -9 4.8 146 2.9 88 6.0 183	12 Su	12:10 AM 06:43 AM 01:43 PM 06:49 PM	6.9 210 -1.0 -30 5.6 171 1.8 55	27 M	12:17 AM 06:39 AM 01:30 PM 06:46 PM	5.8 177 0.2 6 5.1 155 2.1 64	12 W	01:51 AM 07:41 AM 02:19 PM 08:17 PM	5.8 177 0.7 21 6.0 183 0.7 21	27 Th	01:32 AM 07:06 AM 01:37 PM 07:40 PM	5.2 158 1.3 40 5.7 174 0.7 21
13 F	06:17 AM 01:31 PM 06:06 PM	-1.5 -46 5.2 158 2.5 76	28 Sa	06:41 AM 01:50 PM 06:34 PM	-0.3 -9 4.9 149 2.8 85	13 M	01:03 AM 07:28 AM 02:24 PM 07:45 PM	6.6 201 -0.7 -21 5.8 177 1.6 49	28 Tu	12:55 AM 07:09 AM 01:58 PM 07:23 PM	5.6 171 0.4 12 5.3 162 1.9 58	13 Th	02:47 AM 08:24 AM 02:58 PM 09:12 PM	5.3 162 1.3 40 5.9 180 0.7 21	28 F	02:22 AM 07:42 AM 02:10 PM 08:25 PM	4.9 149 1.8 55 5.8 177 0.5 15
14 Sa	12:18 AM 07:05 AM 02:17 PM 07:02 PM	7.0 213 -1.5 -46 5.4 165 2.4 73	29 Su	12:30 AM 07:11 AM 02:20 PM 07:10 PM	5.9 180 -0.2 -6 4.9 149 2.7 82	14 Tu	01:57 AM 08:12 AM 03:06 PM 08:43 PM	6.2 189 -0.2 -6 5.9 180 1.5 46	29 W	01:36 AM 07:40 AM 02:27 PM 08:03 PM	5.4 165 0.7 21 5.4 165 1.7 52	14 F	03:49 AM 09:12 AM 03:40 PM 10:11 PM	4.8 146 1.9 58 5.7 174 0.8 24	29 Sa	03:18 AM 08:23 AM 02:49 PM 09:17 PM	4.7 143 2.2 67 5.8 177 0.4 12
15 Su	01:10 AM 07:52 AM 03:03 PM 08:02 PM	6.8 207 -1.3 -40 5.5 168 2.3 70	30 M	01:07 AM 07:43 AM 02:49 PM 07:49 PM	5.7 174 -0.1 -3 5.0 152 2.6 79	15 W	02:54 AM 08:58 AM 03:49 PM 09:46 PM	5.6 171 0.4 12 5.9 180 1.4 43	30 Th	02:20 AM 08:14 AM 02:59 PM 08:49 PM	5.1 155 1.1 34 5.5 168 1.5 46	15 Sa	05:01 AM 10:08 AM 04:27 PM 11:17 PM	4.5 137 2.5 76 5.5 168 0.9 27	30 Su	04:25 AM 09:12 AM 03:35 PM 10:19 PM	4.5 137 2.6 79 5.7 174 0.4 12
			31 Tu	01:45 AM 08:15 AM 03:20 PM 08:33 PM	5.4 165 0.1 3 5.1 155 2.5 76				31 F	03:11 AM 08:52 AM 03:35 PM 09:43 PM	4.7 143 1.5 46 5.6 171 1.3 40						

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.



SAN FRANCISCO (Golden Gate), California, 2018

Times and Heights of High and Low Waters

October				November				December			
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height
h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm
1 M	05:44 AM 4.4 134 10:17 AM 3.0 91 04:33 PM 5.7 174 11:29 PM 0.3 9	16 Tu	07:16 AM 4.5 137 12:17 PM 3.2 98 05:30 PM 4.8 146	1 Th	12:15 AM 0.0 0 07:46 AM 5.1 155 01:05 PM 2.6 79 06:43 PM 5.1 155	16 F	06:59 AM 4.9 149 12:50 PM 2.6 79 06:00 PM 4.2 128	1 Sa	06:57 AM 5.8 177 01:03 PM 1.5 46 06:54 PM 4.5 137	16 Su	06:28 AM 5.3 162 12:57 PM 2.0 61 06:31 PM 3.8 116
2 Tu	07:05 AM 4.5 137 11:39 AM 3.1 94 05:42 PM 5.6 171	17 W	12:35 AM 0.7 21 08:15 AM 4.7 143 01:27 PM 3.0 91 06:40 PM 4.7 143	2 F	01:20 AM 0.1 3 08:35 AM 5.4 165 02:11 PM 2.0 61 08:00 PM 5.1 155	17 Sa	12:24 AM 0.9 27 07:33 AM 5.1 155 01:38 PM 2.1 64 07:10 PM 4.2 128	2 Su	12:44 AM 0.8 24 07:42 AM 6.0 183 02:00 PM 0.9 27 08:10 PM 4.5 137	17 M	12:09 AM 1.5 46 07:06 AM 5.5 168 01:43 PM 1.3 40 07:48 PM 3.9 119
3 W	12:42 AM 0.2 6 08:14 AM 4.7 143 01:03 PM 2.9 88 06:57 PM 5.6 171	18 Th	01:34 AM 0.7 21 08:58 AM 4.8 146 02:22 PM 2.7 82 07:47 PM 4.7 143	3 Sa	02:17 AM 0.2 6 09:18 AM 5.7 174 03:08 PM 1.4 43 09:10 PM 5.1 155	18 Su	01:10 AM 1.1 34 08:04 AM 5.3 162 02:18 PM 1.5 46 08:12 PM 4.3 131	3 M	01:37 AM 1.2 37 08:23 AM 6.3 192 02:50 PM 0.3 9 09:17 PM 4.6 140	18 Tu	12:59 AM 1.8 55 07:42 AM 5.8 177 02:24 PM 0.7 21 08:54 PM 4.2 128
4 Th	01:49 AM 0.0 0 09:08 AM 5.0 152 02:12 PM 2.5 76 08:08 PM 5.8 177	19 F	02:24 AM 0.7 21 09:32 AM 5.0 152 03:07 PM 2.3 70 08:46 PM 4.8 146	4 Su	02:07 AM 0.5 15 08:57 AM 6.0 183 02:57 PM 0.7 21 09:13 PM 5.2 158	19 M	01:52 AM 1.2 37 08:34 AM 5.6 171 02:55 PM 1.0 30 09:08 PM 4.5 137	4 Tu	02:25 AM 1.6 49 09:01 AM 6.4 195 03:35 PM -0.2 -6 10:17 PM 4.7 143	19 W	01:47 AM 2.0 61 08:19 AM 6.2 189 03:04 PM 0.1 3 09:53 PM 4.4 134
5 F	02:46 AM -0.1 -3 09:52 AM 5.3 162 01:03 PM 2.0 61 09:13 PM 5.9 180	20 Sa	03:07 AM 0.7 21 10:01 AM 5.1 155 03:46 PM 1.8 55 09:38 PM 4.9 149	5 M	02:53 AM 0.8 24 09:34 AM 6.2 189 04:33 PM 0.2 6 10:11 PM 5.2 158	20 Tu	02:31 AM 1.5 46 09:04 AM 5.9 180 03:30 PM 0.4 12 10:01 PM 4.6 140	5 W	03:11 AM 2.0 61 09:37 AM 6.5 198 04:16 PM -0.5 -15 11:10 PM 4.8 146	20 Th	02:33 AM 2.3 70 08:57 AM 6.5 198 03:44 PM -0.5 -15 10:46 PM 4.7 143
6 Sa	03:37 AM -0.1 -3 10:32 AM 5.6 171 04:01 PM 1.4 43 10:13 PM 5.9 180	21 Su	03:44 AM 0.8 24 10:28 AM 5.3 162 04:21 PM 1.4 43 10:25 PM 5.0 152	6 Tu	03:36 AM 1.1 34 10:09 AM 6.3 192 04:26 PM -0.2 -6 11:05 PM 5.2 158	21 W	03:09 AM 1.7 52 09:36 AM 6.1 186 04:05 PM -0.1 -3 10:52 PM 4.8 146	6 Th	03:55 AM 2.3 70 10:12 AM 6.4 195 04:55 PM -0.7 -21	21 F	03:19 AM 2.5 76 09:37 AM 6.7 204 04:25 PM -1.0 -30 11:36 PM 4.9 149
7 Su	04:22 AM 0.0 0 11:10 AM 5.9 180 04:50 PM 0.9 27 11:09 PM 5.9 180	22 M	04:18 AM 0.9 27 10:54 AM 5.5 168 04:54 PM 1.0 30 11:11 PM 5.1 155	7 W	04:17 AM 1.6 49 10:44 AM 6.3 192 05:08 PM -0.4 -12 11:58 PM 5.1 155	22 Th	03:48 AM 2.0 61 10:09 AM 6.3 192 04:43 PM -0.5 -15 11:42 PM 4.9 149	7 F	12:00 AM 4.9 149 04:37 AM 2.6 79 10:46 AM 6.3 192 05:32 PM -0.7 -21	22 Sa	04:06 AM 2.6 79 10:20 AM 6.9 210 05:09 PM -1.3 -40
8 M	05:05 AM 0.3 9 11:46 AM 6.0 183 05:36 PM 0.5 15	23 Tu	04:51 AM 1.1 34 11:22 AM 5.7 174 05:27 PM 0.6 18 11:57 PM 5.1 155	8 Th	04:59 AM 2.0 61 11:17 AM 6.3 192 05:48 PM -0.5 -15	23 F	04:28 AM 2.3 70 10:45 AM 6.5 198 05:23 PM -0.9 -27	8 Sa	12:46 AM 4.9 149 05:20 AM 2.9 88 11:20 AM 6.1 186 06:09 PM -0.7 -21	23 Su	04:25 AM 5.1 155 11:05 AM 6.9 210 05:54 PM -1.5 -46
9 Tu	12:03 AM 5.8 177 05:46 AM 0.6 18 12:22 PM 6.1 186 06:21 PM 0.2 6	24 W	05:24 AM 1.4 43 11:50 AM 5.9 180 06:02 PM 0.2 6	9 F	12:49 AM 5.0 152 05:41 AM 2.4 73 11:51 AM 6.1 186 06:29 PM -0.5 -15	24 Sa	12:33 AM 5.0 152 05:11 AM 2.5 76 11:24 AM 6.6 201 06:07 PM -1.1 -34	9 Su	01:31 AM 4.9 149 06:03 AM 3.1 94 11:55 AM 5.9 180 06:46 PM -0.5 -15	24 M	01:13 AM 5.2 158 05:45 AM 2.7 82 11:54 AM 6.8 207 06:41 PM -1.4 -43
10 W	12:56 AM 5.6 171 06:27 AM 1.1 34 12:57 PM 6.2 189 07:06 PM 0.0 0	25 Th	12:44 AM 5.1 155 05:58 AM 1.7 52 12:21 PM 6.0 183 06:40 PM -0.1 -3	10 Sa	01:41 AM 4.9 149 06:24 AM 2.8 85 12:25 PM 5.9 180 07:10 PM -0.4 -12	25 Su	01:26 AM 5.0 152 05:58 AM 2.7 82 12:07 PM 6.5 198 06:54 PM -1.1 -34	10 M	02:14 AM 4.8 146 06:47 AM 3.2 98 12:31 PM 5.6 171 07:24 PM -0.3 -9	25 Tu	02:01 AM 5.2 158 06:41 AM 2.7 82 12:45 PM 6.5 198 07:30 PM -1.2 -37
11 Th	01:49 AM 5.3 162 07:09 AM 1.6 49 01:32 PM 6.1 186 07:52 PM 0.0 0	26 F	01:34 AM 5.0 152 06:36 AM 2.0 61 12:54 PM 6.1 186 07:21 PM -0.3 -9	11 Su	02:34 AM 4.8 146 07:12 AM 3.1 94 01:02 PM 5.6 171 07:54 PM -0.1 -3	26 M	02:20 AM 5.0 152 06:51 AM 2.9 88 12:55 PM 6.3 192 07:46 PM -1.0 -30	11 Tu	02:57 AM 4.8 146 07:36 AM 3.3 101 01:10 PM 5.3 162 08:04 PM -0.1 -3	26 W	02:50 AM 5.3 162 07:44 AM 2.6 79 01:41 PM 6.0 183 08:21 PM -0.8 -24
12 F	02:44 AM 5.0 152 07:52 AM 2.1 64 02:08 PM 5.9 180 08:39 PM 0.1 3	27 Sa	02:27 AM 4.9 149 07:16 AM 2.4 73 01:32 PM 6.1 186 08:08 PM -0.5 -15	12 M	03:29 AM 4.6 140 08:08 AM 3.3 101 01:44 PM 5.2 158 08:42 PM 0.1 3	27 Tu	03:17 AM 5.0 152 07:53 AM 3.0 91 01:50 PM 5.9 180 08:41 PM -0.7 -21	12 W	03:40 AM 4.7 143 08:33 AM 3.3 101 01:55 PM 5.0 152 08:48 PM 0.2 6	27 Th	03:41 AM 5.4 165 08:55 AM 2.5 76 02:44 PM 5.4 165 09:14 PM -0.2 -6
13 Sa	03:43 AM 4.7 143 08:40 AM 2.6 79 02:47 PM 5.6 171 09:30 PM 0.3 9	28 Su	03:25 AM 4.8 146 08:03 AM 2.7 82 02:15 PM 6.0 183 09:00 PM -0.4 -12	13 Tu	04:28 AM 4.6 140 09:18 AM 3.4 104 02:33 PM 4.9 149 09:35 PM 0.4 12	28 W	04:16 AM 5.1 155 09:09 AM 3.0 91 02:54 PM 5.5 168 09:41 PM -0.4 -12	13 Th	04:24 AM 4.7 143 09:42 AM 3.2 98 02:47 PM 4.6 140 09:34 PM 0.5 15	28 F	04:33 AM 5.6 171 10:15 AM 2.2 67 03:56 PM 4.8 146 10:11 PM 0.4 12
14 Su	04:49 AM 4.5 137 09:39 AM 3.0 91 03:31 PM 5.3 162 10:26 PM 0.5 15	29 M	04:29 AM 4.7 143 09:00 AM 3.0 91 03:06 PM 5.8 177 09:59 PM -0.3 -9	14 W	05:26 AM 4.6 140 10:39 AM 3.3 101 03:34 PM 4.6 140 10:33 PM 0.6 18	29 Th	05:14 AM 5.2 158 10:35 AM 2.7 82 04:09 PM 5.0 152 10:44 PM 0.0 0	14 F	05:08 AM 4.8 146 10:55 AM 2.9 88 03:51 PM 4.2 128 10:25 PM 0.8 24	29 Sa	05:25 AM 5.8 177 11:34 AM 1.7 52 05:21 PM 4.3 131 11:11 PM 1.0 30
15 M	06:03 AM 4.5 137 10:54 AM 3.3 101 04:25 PM 5.0 152 11:30 PM 0.7 21	30 Tu	05:38 AM 4.7 143 10:14 AM 3.2 98 04:09 PM 5.5 168 11:05 PM -0.2 -6	15 Th	06:17 AM 4.7 143 11:52 AM 3.0 91 04:45 PM 4.3 131 11:31 PM 0.8 24	30 F	06:08 AM 5.5 168 11:55 AM 2.2 67 05:31 PM 4.7 143 11:46 PM 0.4 12	15 Sa	05:49 AM 5.0 152 12:02 PM 2.5 76 05:08 PM 3.9 119 11:17 PM 1.2 37	30 Su	06:15 AM 6.0 183 12:46 PM 1.2 37 06:51 PM 4.1 125
		31 W	06:46 AM 4.8 146 11:42 AM 3.1 94 05:23 PM 5.3 162							31 M	12:11 AM 1.5 46 07:04 AM 6.2 189 01:47 PM 0.6 18 08:13 PM 4.2 128