



NOAA Tide Predictions

Galveston Bay entrance, south jetty, ,2018

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

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

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

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

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



Galveston Bay entrance, south jetty, ,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	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft																																																																																				
1 12:09 AM 1.5 46 07:56 AM -1.4 -43 M 04:37 PM 1.9 58 08:53 PM 1.4 43	16 12:39 AM 1.2 37 08:27 AM -1.0 -30 Tu 05:03 PM 1.3 40 08:42 PM 1.1 34	1 02:15 AM 1.5 46 09:32 AM -1.2 -37 Th 05:39 PM 1.4 43 09:56 PM 0.9 27	16 02:17 AM 1.3 40 09:12 AM -0.5 -15 F 05:14 PM 1.3 40 09:22 PM 0.8 24	1 01:39 AM 1.7 52 08:36 AM -0.6 -18 Th 04:17 PM 1.5 46 08:49 PM 0.9 27	16 02:55 AM 1.6 49 09:23 AM 0.1 3 F 04:49 PM 1.6 49 09:26 PM 1.0 30	2 12:57 AM 1.6 49 08:46 AM -1.5 -46 Tu 05:27 PM 1.8 55 09:35 PM 1.4 43	17 01:13 AM 1.2 37 09:28 AM -0.9 -27 W 05:33 PM 1.3 40 09:07 PM 1.1 34	2 03:22 AM 1.4 43 09:28 AM -0.9 -27 F 06:16 PM 1.3 40 10:53 PM 0.7 21	17 03:05 AM 1.2 37 09:44 AM -0.4 -12 Sa 05:37 PM 1.2 37 10:02 PM 0.7 21	2 02:46 AM 1.7 52 09:26 AM -0.4 -12 F 04:46 PM 1.5 46 09:34 PM 0.7 21	17 03:49 AM 1.7 52 09:57 AM 0.3 9 Sa 05:07 PM 1.5 46 09:58 PM 0.8 24	3 01:50 AM 1.6 49 09:38 AM -1.4 -43 W 06:16 PM 1.7 52 10:25 PM 1.3 40	18 01:44 AM 1.2 37 09:28 AM -0.9 -27 Th 06:05 PM 1.3 40 09:43 PM 1.0 30	3 04:35 AM 1.2 37 11:12 AM -0.5 -15 Sa 06:49 PM 1.2 37 11:59 PM 0.5 15	18 04:02 AM 1.2 37 10:17 AM -0.1 -3 Su 05:57 PM 1.2 37 10:46 PM 0.5 15	3 03:54 AM 1.6 49 10:13 AM -0.1 -3 Sa 05:13 PM 1.4 43 10:21 PM 0.5 15	18 04:45 AM 1.7 52 10:41 AM 0.5 15 Su 05:23 PM 1.5 46 10:34 PM 0.5 15	4 02:48 AM 1.5 46 11:30 AM -1.2 -37 Th 07:04 PM 1.6 49 11:31 PM 1.2 37	19 02:14 AM 1.1 34 10:00 AM -0.8 -24 F 06:38 PM 1.2 37 10:29 PM 0.9 27	4 05:57 AM 1.1 34 12:02 PM -0.1 -3 Su 07:21 PM 1.1 34	19 05:12 AM 1.1 34 11:52 AM 0.1 3 M 06:14 PM 1.2 37 11:33 PM 0.3 9	4 05:03 AM 1.6 49 11:00 AM 0.3 9 Su 05:38 PM 1.3 40 11:10 PM 0.3 9	19 05:46 AM 1.7 52 11:09 AM 0.7 21 M 05:36 PM 1.5 46 11:14 PM 0.3 9	5 03:54 AM 1.3 40 11:24 AM -0.9 -27 F 07:49 PM 1.4 43	20 02:47 AM 1.0 30 10:33 AM -0.6 -18 Sa 07:09 PM 1.2 37 11:23 PM 0.8 24	5 01:10 AM 0.2 6 07:34 AM 0.9 27 M 12:58 PM 0.3 9 07:49 PM 1.0 30	20 06:37 AM 1.1 34 11:31 AM 0.4 12 Tu 06:26 PM 1.1 34	5 06:18 AM 1.5 46 11:49 AM 0.6 18 M 06:01 PM 1.3 40	20 06:53 AM 1.8 55 11:49 AM 1.0 30 Tu 05:44 PM 1.5 46 11:58 PM 0.1 3	6 01:02 AM 0.9 27 05:20 AM 1.1 34 Sa 12:20 PM -0.5 -15 08:30 PM 1.3 40	21 03:35 AM 0.9 27 11:08 AM -0.4 -12 Su 07:36 PM 1.1 34	6 02:21 AM 0.0 0 09:27 AM 0.9 27 Tu 02:17 PM 0.6 18 08:16 PM 1.0 30	21 12:26 AM 0.1 3 08:18 AM 1.1 34 W 12:17 PM 0.8 24 06:31 PM 1.2 37	6 12:01 AM 0.2 6 07:40 AM 1.5 46 Tu 12:47 PM 1.0 30 06:19 PM 1.3 40	21 08:08 AM 1.8 55 12:35 PM 1.3 40 W 05:46 PM 1.6 49	7 02:37 AM 0.6 18 07:12 AM 0.9 27 Su 01:22 PM -0.1 -3 09:06 PM 1.2 37	22 12:26 AM 0.6 18 05:09 AM 0.7 21 M 11:45 AM -0.1 -3 11:45 PM 1.0 30	7 03:25 AM -0.2 -6 11:30 AM 1.0 30 W 04:36 PM 0.9 27 08:40 PM 1.0 30	22 01:25 AM -0.1 -3 10:04 AM 1.2 37 Th 01:15 PM 1.1 34 06:29 PM 1.2 37	7 12:55 AM 0.1 3 09:12 AM 1.5 46 W 02:37 PM 1.2 37 06:29 PM 1.3 40	22 12:48 AM 0.0 0 09:30 AM 1.8 55 Th 01:29 PM 1.5 46 05:37 PM 1.6 49	8 03:46 AM 0.3 9 09:19 AM 0.8 24 M 02:40 PM 0.3 9 09:38 PM 1.1 34	23 01:30 AM 0.4 12 07:40 AM 0.6 18 Tu 12:29 PM 0.2 6 08:16 PM 1.0 30	8 04:20 AM -0.4 -12 01:15 PM 1.2 37 Th 06:30 PM 1.0 30 09:03 PM 1.0 30	23 02:30 AM -0.4 -12 11:41 AM 1.4 43 F 02:52 PM 1.3 40 06:12 PM 1.3 40	8 01:54 AM 0.0 0 10:53 AM 1.5 46 Th	23 01:47 AM -0.1 -3 10:58 AM 1.9 58 F 02:54 PM 1.7 52 05:00 PM 1.7 52	9 04:38 AM 0.0 0 11:27 AM 0.9 27 Tu 04:23 PM 0.6 18 10:04 PM 1.1 34	24 02:30 AM 0.1 3 09:56 AM 0.7 21 W 01:24 PM 0.5 15 08:29 PM 1.0 30	9 05:08 AM -0.5 -15 02:16 PM 1.3 40 F	24 03:38 AM -0.6 -18 12:55 PM 1.6 49 Sa	9 02:57 AM 0.0 0 12:28 PM 1.6 49 F	24 02:54 AM -0.2 -6 12:22 PM 2.0 61 Sa	10 05:20 AM -0.3 -9 01:13 PM 1.1 34 W 06:00 PM 0.8 24 10:27 PM 1.1 34	25 03:25 AM -0.3 -9 11:45 AM 1.0 30 Th 02:46 PM 0.8 24 08:42 PM 1.0 30	10 05:51 AM -0.6 -18 02:54 PM 1.4 43 Sa 08:17 PM 1.1 34 10:20 PM 1.1 34	25 04:46 AM -0.7 -21 01:50 PM 1.7 52 Su 06:52 PM 1.4 43 09:33 PM 1.5 46	10 04:02 AM -0.1 -3 01:29 PM 1.6 49 Sa	25 04:10 AM -0.2 -6 01:28 PM 2.0 61 Su	11 05:57 AM -0.6 -18 02:23 PM 1.2 37 Th 07:16 PM 1.0 30 10:48 PM 1.1 34	26 04:17 AM -0.6 -18 01:04 PM 1.2 37 F 04:44 PM 1.1 34 09:06 PM 1.1 34	11 06:30 AM -0.7 -21 03:20 PM 1.4 43 Su 08:24 PM 1.1 34 11:12 PM 1.2 37	26 05:49 AM -0.8 -24 02:33 PM 1.7 52 M 07:04 PM 1.4 43 11:10 PM 1.5 46	11 06:01 AM -0.1 -3 03:05 PM 1.7 52 Su	26 05:28 AM -0.2 -6 02:17 PM 2.0 61 M 07:47 PM 1.6 49 11:08 PM 1.7 52	12 06:30 AM -0.7 -21 03:09 PM 1.3 40 F 08:11 PM 1.1 34 11:10 PM 1.1 34	27 05:10 AM -1.0 -30 02:03 PM 1.4 43 Sa 06:25 PM 1.2 37 09:54 PM 1.2 37	12 07:06 AM -0.7 -21 03:42 PM 1.3 40 M 08:13 PM 1.1 34	27 06:49 AM -0.9 -27 03:11 PM 1.7 52 Tu 07:32 PM 1.3 40	12 06:53 AM -0.1 -3 03:30 PM 1.6 49 M 08:53 PM 1.4 43	27 06:40 AM -0.1 -3 02:55 PM 2.0 61 Tu 07:58 PM 1.5 46	13 07:00 AM -0.8 -24 03:43 PM 1.4 43 Sa 08:44 PM 1.1 34 11:35 PM 1.2 37	28 06:03 AM -1.2 -37 02:52 PM 1.6 49 Su 07:13 PM 1.2 37 10:59 PM 1.3 40	13 12:02 AM 1.2 37 07:39 AM -0.7 -21 Tu 04:03 PM 1.3 40 08:04 PM 1.1 34	28 12:28 AM 1.6 49 07:44 AM -0.8 -24 W 03:45 PM 1.6 49 08:08 PM 1.1 34	13 12:06 AM 1.5 46 07:37 AM -0.1 -3 Tu 03:51 PM 1.6 49 08:41 PM 1.3 40	28 12:45 AM 1.8 55 07:44 AM 0.0 0 W 03:26 PM 1.9 58 08:25 PM 1.3 40	14 07:29 AM -0.9 -27 04:10 PM 1.4 43 Su 08:51 PM 1.2 37	29 06:56 AM -1.4 -43 03:37 PM 1.6 49 M 07:48 PM 1.2 37	14 12:48 AM 1.3 40 08:11 AM -0.7 -21 W 04:26 PM 1.3 40 08:17 PM 1.0 30	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27	14 01:08 AM 1.5 46 08:15 AM -0.1 -3 W 04:10 PM 1.6 49 08:41 PM 1.2 37	29 02:03 AM 1.9 58 08:41 AM 0.1 3 Th 03:53 PM 1.8 55 08:58 PM 1.0 30	15 12:06 AM 1.2 37 07:57 AM -0.9 -27 M 04:36 PM 1.4 43 08:39 PM 1.1 34	30 12:05 AM 1.4 43 07:49 AM -1.4 -43 Tu 04:20 PM 1.6 49 08:25 PM 1.2 37	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27		15 02:03 AM 1.6 49 08:50 AM 0.0 0 Th 04:30 PM 1.6 49 08:59 PM 1.1 34	30 03:13 AM 2.0 61 09:33 AM 0.4 12 F 04:18 PM 1.8 55 09:35 PM 0.8 24		31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15
2 12:57 AM 1.6 49 08:46 AM -1.5 -46 Tu 05:27 PM 1.8 55 09:35 PM 1.4 43	17 01:13 AM 1.2 37 09:28 AM -0.9 -27 W 05:33 PM 1.3 40 09:07 PM 1.1 34	2 03:22 AM 1.4 43 09:28 AM -0.9 -27 F 06:16 PM 1.3 40 10:53 PM 0.7 21	17 03:05 AM 1.2 37 09:44 AM -0.4 -12 Sa 05:37 PM 1.2 37 10:02 PM 0.7 21	2 02:46 AM 1.7 52 09:26 AM -0.4 -12 F 04:46 PM 1.5 46 09:34 PM 0.7 21	17 03:49 AM 1.7 52 09:57 AM 0.3 9 Sa 05:07 PM 1.5 46 09:58 PM 0.8 24	3 01:50 AM 1.6 49 09:38 AM -1.4 -43 W 06:16 PM 1.7 52 10:25 PM 1.3 40	18 01:44 AM 1.2 37 09:28 AM -0.9 -27 Th 06:05 PM 1.3 40 09:43 PM 1.0 30	3 04:35 AM 1.2 37 11:12 AM -0.5 -15 Sa 06:49 PM 1.2 37 11:59 PM 0.5 15	18 04:02 AM 1.2 37 10:17 AM -0.1 -3 Su 05:57 PM 1.2 37 10:46 PM 0.5 15	3 03:54 AM 1.6 49 10:13 AM -0.1 -3 Sa 05:13 PM 1.4 43 10:21 PM 0.5 15	18 04:45 AM 1.7 52 10:41 AM 0.5 15 Su 05:23 PM 1.5 46 10:34 PM 0.5 15	4 02:48 AM 1.5 46 11:30 AM -1.2 -37 Th 07:04 PM 1.6 49 11:31 PM 1.2 37	19 02:14 AM 1.1 34 10:00 AM -0.8 -24 F 06:38 PM 1.2 37 10:29 PM 0.9 27	4 05:57 AM 1.1 34 12:02 PM -0.1 -3 Su 07:21 PM 1.1 34	19 05:12 AM 1.1 34 11:52 AM 0.1 3 M 06:14 PM 1.2 37 11:33 PM 0.3 9	4 05:03 AM 1.6 49 11:00 AM 0.3 9 Su 05:38 PM 1.3 40 11:10 PM 0.3 9	19 05:46 AM 1.7 52 11:09 AM 0.7 21 M 05:36 PM 1.5 46 11:14 PM 0.3 9	5 03:54 AM 1.3 40 11:24 AM -0.9 -27 F 07:49 PM 1.4 43	20 02:47 AM 1.0 30 10:33 AM -0.6 -18 Sa 07:09 PM 1.2 37 11:23 PM 0.8 24	5 01:10 AM 0.2 6 07:34 AM 0.9 27 M 12:58 PM 0.3 9 07:49 PM 1.0 30	20 06:37 AM 1.1 34 11:31 AM 0.4 12 Tu 06:26 PM 1.1 34	5 06:18 AM 1.5 46 11:49 AM 0.6 18 M 06:01 PM 1.3 40	20 06:53 AM 1.8 55 11:49 AM 1.0 30 Tu 05:44 PM 1.5 46 11:58 PM 0.1 3	6 01:02 AM 0.9 27 05:20 AM 1.1 34 Sa 12:20 PM -0.5 -15 08:30 PM 1.3 40	21 03:35 AM 0.9 27 11:08 AM -0.4 -12 Su 07:36 PM 1.1 34	6 02:21 AM 0.0 0 09:27 AM 0.9 27 Tu 02:17 PM 0.6 18 08:16 PM 1.0 30	21 12:26 AM 0.1 3 08:18 AM 1.1 34 W 12:17 PM 0.8 24 06:31 PM 1.2 37	6 12:01 AM 0.2 6 07:40 AM 1.5 46 Tu 12:47 PM 1.0 30 06:19 PM 1.3 40	21 08:08 AM 1.8 55 12:35 PM 1.3 40 W 05:46 PM 1.6 49	7 02:37 AM 0.6 18 07:12 AM 0.9 27 Su 01:22 PM -0.1 -3 09:06 PM 1.2 37	22 12:26 AM 0.6 18 05:09 AM 0.7 21 M 11:45 AM -0.1 -3 11:45 PM 1.0 30	7 03:25 AM -0.2 -6 11:30 AM 1.0 30 W 04:36 PM 0.9 27 08:40 PM 1.0 30	22 01:25 AM -0.1 -3 10:04 AM 1.2 37 Th 01:15 PM 1.1 34 06:29 PM 1.2 37	7 12:55 AM 0.1 3 09:12 AM 1.5 46 W 02:37 PM 1.2 37 06:29 PM 1.3 40	22 12:48 AM 0.0 0 09:30 AM 1.8 55 Th 01:29 PM 1.5 46 05:37 PM 1.6 49	8 03:46 AM 0.3 9 09:19 AM 0.8 24 M 02:40 PM 0.3 9 09:38 PM 1.1 34	23 01:30 AM 0.4 12 07:40 AM 0.6 18 Tu 12:29 PM 0.2 6 08:16 PM 1.0 30	8 04:20 AM -0.4 -12 01:15 PM 1.2 37 Th 06:30 PM 1.0 30 09:03 PM 1.0 30	23 02:30 AM -0.4 -12 11:41 AM 1.4 43 F 02:52 PM 1.3 40 06:12 PM 1.3 40	8 01:54 AM 0.0 0 10:53 AM 1.5 46 Th	23 01:47 AM -0.1 -3 10:58 AM 1.9 58 F 02:54 PM 1.7 52 05:00 PM 1.7 52	9 04:38 AM 0.0 0 11:27 AM 0.9 27 Tu 04:23 PM 0.6 18 10:04 PM 1.1 34	24 02:30 AM 0.1 3 09:56 AM 0.7 21 W 01:24 PM 0.5 15 08:29 PM 1.0 30	9 05:08 AM -0.5 -15 02:16 PM 1.3 40 F	24 03:38 AM -0.6 -18 12:55 PM 1.6 49 Sa	9 02:57 AM 0.0 0 12:28 PM 1.6 49 F	24 02:54 AM -0.2 -6 12:22 PM 2.0 61 Sa	10 05:20 AM -0.3 -9 01:13 PM 1.1 34 W 06:00 PM 0.8 24 10:27 PM 1.1 34	25 03:25 AM -0.3 -9 11:45 AM 1.0 30 Th 02:46 PM 0.8 24 08:42 PM 1.0 30	10 05:51 AM -0.6 -18 02:54 PM 1.4 43 Sa 08:17 PM 1.1 34 10:20 PM 1.1 34	25 04:46 AM -0.7 -21 01:50 PM 1.7 52 Su 06:52 PM 1.4 43 09:33 PM 1.5 46	10 04:02 AM -0.1 -3 01:29 PM 1.6 49 Sa	25 04:10 AM -0.2 -6 01:28 PM 2.0 61 Su	11 05:57 AM -0.6 -18 02:23 PM 1.2 37 Th 07:16 PM 1.0 30 10:48 PM 1.1 34	26 04:17 AM -0.6 -18 01:04 PM 1.2 37 F 04:44 PM 1.1 34 09:06 PM 1.1 34	11 06:30 AM -0.7 -21 03:20 PM 1.4 43 Su 08:24 PM 1.1 34 11:12 PM 1.2 37	26 05:49 AM -0.8 -24 02:33 PM 1.7 52 M 07:04 PM 1.4 43 11:10 PM 1.5 46	11 06:01 AM -0.1 -3 03:05 PM 1.7 52 Su	26 05:28 AM -0.2 -6 02:17 PM 2.0 61 M 07:47 PM 1.6 49 11:08 PM 1.7 52	12 06:30 AM -0.7 -21 03:09 PM 1.3 40 F 08:11 PM 1.1 34 11:10 PM 1.1 34	27 05:10 AM -1.0 -30 02:03 PM 1.4 43 Sa 06:25 PM 1.2 37 09:54 PM 1.2 37	12 07:06 AM -0.7 -21 03:42 PM 1.3 40 M 08:13 PM 1.1 34	27 06:49 AM -0.9 -27 03:11 PM 1.7 52 Tu 07:32 PM 1.3 40	12 06:53 AM -0.1 -3 03:30 PM 1.6 49 M 08:53 PM 1.4 43	27 06:40 AM -0.1 -3 02:55 PM 2.0 61 Tu 07:58 PM 1.5 46	13 07:00 AM -0.8 -24 03:43 PM 1.4 43 Sa 08:44 PM 1.1 34 11:35 PM 1.2 37	28 06:03 AM -1.2 -37 02:52 PM 1.6 49 Su 07:13 PM 1.2 37 10:59 PM 1.3 40	13 12:02 AM 1.2 37 07:39 AM -0.7 -21 Tu 04:03 PM 1.3 40 08:04 PM 1.1 34	28 12:28 AM 1.6 49 07:44 AM -0.8 -24 W 03:45 PM 1.6 49 08:08 PM 1.1 34	13 12:06 AM 1.5 46 07:37 AM -0.1 -3 Tu 03:51 PM 1.6 49 08:41 PM 1.3 40	28 12:45 AM 1.8 55 07:44 AM 0.0 0 W 03:26 PM 1.9 58 08:25 PM 1.3 40	14 07:29 AM -0.9 -27 04:10 PM 1.4 43 Su 08:51 PM 1.2 37	29 06:56 AM -1.4 -43 03:37 PM 1.6 49 M 07:48 PM 1.2 37	14 12:48 AM 1.3 40 08:11 AM -0.7 -21 W 04:26 PM 1.3 40 08:17 PM 1.0 30	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27	14 01:08 AM 1.5 46 08:15 AM -0.1 -3 W 04:10 PM 1.6 49 08:41 PM 1.2 37	29 02:03 AM 1.9 58 08:41 AM 0.1 3 Th 03:53 PM 1.8 55 08:58 PM 1.0 30	15 12:06 AM 1.2 37 07:57 AM -0.9 -27 M 04:36 PM 1.4 43 08:39 PM 1.1 34	30 12:05 AM 1.4 43 07:49 AM -1.4 -43 Tu 04:20 PM 1.6 49 08:25 PM 1.2 37	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27		15 02:03 AM 1.6 49 08:50 AM 0.0 0 Th 04:30 PM 1.6 49 08:59 PM 1.1 34	30 03:13 AM 2.0 61 09:33 AM 0.4 12 F 04:18 PM 1.8 55 09:35 PM 0.8 24		31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15						
3 01:50 AM 1.6 49 09:38 AM -1.4 -43 W 06:16 PM 1.7 52 10:25 PM 1.3 40	18 01:44 AM 1.2 37 09:28 AM -0.9 -27 Th 06:05 PM 1.3 40 09:43 PM 1.0 30	3 04:35 AM 1.2 37 11:12 AM -0.5 -15 Sa 06:49 PM 1.2 37 11:59 PM 0.5 15	18 04:02 AM 1.2 37 10:17 AM -0.1 -3 Su 05:57 PM 1.2 37 10:46 PM 0.5 15	3 03:54 AM 1.6 49 10:13 AM -0.1 -3 Sa 05:13 PM 1.4 43 10:21 PM 0.5 15	18 04:45 AM 1.7 52 10:41 AM 0.5 15 Su 05:23 PM 1.5 46 10:34 PM 0.5 15	4 02:48 AM 1.5 46 11:30 AM -1.2 -37 Th 07:04 PM 1.6 49 11:31 PM 1.2 37	19 02:14 AM 1.1 34 10:00 AM -0.8 -24 F 06:38 PM 1.2 37 10:29 PM 0.9 27	4 05:57 AM 1.1 34 12:02 PM -0.1 -3 Su 07:21 PM 1.1 34	19 05:12 AM 1.1 34 11:52 AM 0.1 3 M 06:14 PM 1.2 37 11:33 PM 0.3 9	4 05:03 AM 1.6 49 11:00 AM 0.3 9 Su 05:38 PM 1.3 40 11:10 PM 0.3 9	19 05:46 AM 1.7 52 11:09 AM 0.7 21 M 05:36 PM 1.5 46 11:14 PM 0.3 9	5 03:54 AM 1.3 40 11:24 AM -0.9 -27 F 07:49 PM 1.4 43	20 02:47 AM 1.0 30 10:33 AM -0.6 -18 Sa 07:09 PM 1.2 37 11:23 PM 0.8 24	5 01:10 AM 0.2 6 07:34 AM 0.9 27 M 12:58 PM 0.3 9 07:49 PM 1.0 30	20 06:37 AM 1.1 34 11:31 AM 0.4 12 Tu 06:26 PM 1.1 34	5 06:18 AM 1.5 46 11:49 AM 0.6 18 M 06:01 PM 1.3 40	20 06:53 AM 1.8 55 11:49 AM 1.0 30 Tu 05:44 PM 1.5 46 11:58 PM 0.1 3	6 01:02 AM 0.9 27 05:20 AM 1.1 34 Sa 12:20 PM -0.5 -15 08:30 PM 1.3 40	21 03:35 AM 0.9 27 11:08 AM -0.4 -12 Su 07:36 PM 1.1 34	6 02:21 AM 0.0 0 09:27 AM 0.9 27 Tu 02:17 PM 0.6 18 08:16 PM 1.0 30	21 12:26 AM 0.1 3 08:18 AM 1.1 34 W 12:17 PM 0.8 24 06:31 PM 1.2 37	6 12:01 AM 0.2 6 07:40 AM 1.5 46 Tu 12:47 PM 1.0 30 06:19 PM 1.3 40	21 08:08 AM 1.8 55 12:35 PM 1.3 40 W 05:46 PM 1.6 49	7 02:37 AM 0.6 18 07:12 AM 0.9 27 Su 01:22 PM -0.1 -3 09:06 PM 1.2 37	22 12:26 AM 0.6 18 05:09 AM 0.7 21 M 11:45 AM -0.1 -3 11:45 PM 1.0 30	7 03:25 AM -0.2 -6 11:30 AM 1.0 30 W 04:36 PM 0.9 27 08:40 PM 1.0 30	22 01:25 AM -0.1 -3 10:04 AM 1.2 37 Th 01:15 PM 1.1 34 06:29 PM 1.2 37	7 12:55 AM 0.1 3 09:12 AM 1.5 46 W 02:37 PM 1.2 37 06:29 PM 1.3 40	22 12:48 AM 0.0 0 09:30 AM 1.8 55 Th 01:29 PM 1.5 46 05:37 PM 1.6 49	8 03:46 AM 0.3 9 09:19 AM 0.8 24 M 02:40 PM 0.3 9 09:38 PM 1.1 34	23 01:30 AM 0.4 12 07:40 AM 0.6 18 Tu 12:29 PM 0.2 6 08:16 PM 1.0 30	8 04:20 AM -0.4 -12 01:15 PM 1.2 37 Th 06:30 PM 1.0 30 09:03 PM 1.0 30	23 02:30 AM -0.4 -12 11:41 AM 1.4 43 F 02:52 PM 1.3 40 06:12 PM 1.3 40	8 01:54 AM 0.0 0 10:53 AM 1.5 46 Th	23 01:47 AM -0.1 -3 10:58 AM 1.9 58 F 02:54 PM 1.7 52 05:00 PM 1.7 52	9 04:38 AM 0.0 0 11:27 AM 0.9 27 Tu 04:23 PM 0.6 18 10:04 PM 1.1 34	24 02:30 AM 0.1 3 09:56 AM 0.7 21 W 01:24 PM 0.5 15 08:29 PM 1.0 30	9 05:08 AM -0.5 -15 02:16 PM 1.3 40 F	24 03:38 AM -0.6 -18 12:55 PM 1.6 49 Sa	9 02:57 AM 0.0 0 12:28 PM 1.6 49 F	24 02:54 AM -0.2 -6 12:22 PM 2.0 61 Sa	10 05:20 AM -0.3 -9 01:13 PM 1.1 34 W 06:00 PM 0.8 24 10:27 PM 1.1 34	25 03:25 AM -0.3 -9 11:45 AM 1.0 30 Th 02:46 PM 0.8 24 08:42 PM 1.0 30	10 05:51 AM -0.6 -18 02:54 PM 1.4 43 Sa 08:17 PM 1.1 34 10:20 PM 1.1 34	25 04:46 AM -0.7 -21 01:50 PM 1.7 52 Su 06:52 PM 1.4 43 09:33 PM 1.5 46	10 04:02 AM -0.1 -3 01:29 PM 1.6 49 Sa	25 04:10 AM -0.2 -6 01:28 PM 2.0 61 Su	11 05:57 AM -0.6 -18 02:23 PM 1.2 37 Th 07:16 PM 1.0 30 10:48 PM 1.1 34	26 04:17 AM -0.6 -18 01:04 PM 1.2 37 F 04:44 PM 1.1 34 09:06 PM 1.1 34	11 06:30 AM -0.7 -21 03:20 PM 1.4 43 Su 08:24 PM 1.1 34 11:12 PM 1.2 37	26 05:49 AM -0.8 -24 02:33 PM 1.7 52 M 07:04 PM 1.4 43 11:10 PM 1.5 46	11 06:01 AM -0.1 -3 03:05 PM 1.7 52 Su	26 05:28 AM -0.2 -6 02:17 PM 2.0 61 M 07:47 PM 1.6 49 11:08 PM 1.7 52	12 06:30 AM -0.7 -21 03:09 PM 1.3 40 F 08:11 PM 1.1 34 11:10 PM 1.1 34	27 05:10 AM -1.0 -30 02:03 PM 1.4 43 Sa 06:25 PM 1.2 37 09:54 PM 1.2 37	12 07:06 AM -0.7 -21 03:42 PM 1.3 40 M 08:13 PM 1.1 34	27 06:49 AM -0.9 -27 03:11 PM 1.7 52 Tu 07:32 PM 1.3 40	12 06:53 AM -0.1 -3 03:30 PM 1.6 49 M 08:53 PM 1.4 43	27 06:40 AM -0.1 -3 02:55 PM 2.0 61 Tu 07:58 PM 1.5 46	13 07:00 AM -0.8 -24 03:43 PM 1.4 43 Sa 08:44 PM 1.1 34 11:35 PM 1.2 37	28 06:03 AM -1.2 -37 02:52 PM 1.6 49 Su 07:13 PM 1.2 37 10:59 PM 1.3 40	13 12:02 AM 1.2 37 07:39 AM -0.7 -21 Tu 04:03 PM 1.3 40 08:04 PM 1.1 34	28 12:28 AM 1.6 49 07:44 AM -0.8 -24 W 03:45 PM 1.6 49 08:08 PM 1.1 34	13 12:06 AM 1.5 46 07:37 AM -0.1 -3 Tu 03:51 PM 1.6 49 08:41 PM 1.3 40	28 12:45 AM 1.8 55 07:44 AM 0.0 0 W 03:26 PM 1.9 58 08:25 PM 1.3 40	14 07:29 AM -0.9 -27 04:10 PM 1.4 43 Su 08:51 PM 1.2 37	29 06:56 AM -1.4 -43 03:37 PM 1.6 49 M 07:48 PM 1.2 37	14 12:48 AM 1.3 40 08:11 AM -0.7 -21 W 04:26 PM 1.3 40 08:17 PM 1.0 30	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27	14 01:08 AM 1.5 46 08:15 AM -0.1 -3 W 04:10 PM 1.6 49 08:41 PM 1.2 37	29 02:03 AM 1.9 58 08:41 AM 0.1 3 Th 03:53 PM 1.8 55 08:58 PM 1.0 30	15 12:06 AM 1.2 37 07:57 AM -0.9 -27 M 04:36 PM 1.4 43 08:39 PM 1.1 34	30 12:05 AM 1.4 43 07:49 AM -1.4 -43 Tu 04:20 PM 1.6 49 08:25 PM 1.2 37	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27		15 02:03 AM 1.6 49 08:50 AM 0.0 0 Th 04:30 PM 1.6 49 08:59 PM 1.1 34	30 03:13 AM 2.0 61 09:33 AM 0.4 12 F 04:18 PM 1.8 55 09:35 PM 0.8 24		31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15												
4 02:48 AM 1.5 46 11:30 AM -1.2 -37 Th 07:04 PM 1.6 49 11:31 PM 1.2 37	19 02:14 AM 1.1 34 10:00 AM -0.8 -24 F 06:38 PM 1.2 37 10:29 PM 0.9 27	4 05:57 AM 1.1 34 12:02 PM -0.1 -3 Su 07:21 PM 1.1 34	19 05:12 AM 1.1 34 11:52 AM 0.1 3 M 06:14 PM 1.2 37 11:33 PM 0.3 9	4 05:03 AM 1.6 49 11:00 AM 0.3 9 Su 05:38 PM 1.3 40 11:10 PM 0.3 9	19 05:46 AM 1.7 52 11:09 AM 0.7 21 M 05:36 PM 1.5 46 11:14 PM 0.3 9	5 03:54 AM 1.3 40 11:24 AM -0.9 -27 F 07:49 PM 1.4 43	20 02:47 AM 1.0 30 10:33 AM -0.6 -18 Sa 07:09 PM 1.2 37 11:23 PM 0.8 24	5 01:10 AM 0.2 6 07:34 AM 0.9 27 M 12:58 PM 0.3 9 07:49 PM 1.0 30	20 06:37 AM 1.1 34 11:31 AM 0.4 12 Tu 06:26 PM 1.1 34	5 06:18 AM 1.5 46 11:49 AM 0.6 18 M 06:01 PM 1.3 40	20 06:53 AM 1.8 55 11:49 AM 1.0 30 Tu 05:44 PM 1.5 46 11:58 PM 0.1 3	6 01:02 AM 0.9 27 05:20 AM 1.1 34 Sa 12:20 PM -0.5 -15 08:30 PM 1.3 40	21 03:35 AM 0.9 27 11:08 AM -0.4 -12 Su 07:36 PM 1.1 34	6 02:21 AM 0.0 0 09:27 AM 0.9 27 Tu 02:17 PM 0.6 18 08:16 PM 1.0 30	21 12:26 AM 0.1 3 08:18 AM 1.1 34 W 12:17 PM 0.8 24 06:31 PM 1.2 37	6 12:01 AM 0.2 6 07:40 AM 1.5 46 Tu 12:47 PM 1.0 30 06:19 PM 1.3 40	21 08:08 AM 1.8 55 12:35 PM 1.3 40 W 05:46 PM 1.6 49	7 02:37 AM 0.6 18 07:12 AM 0.9 27 Su 01:22 PM -0.1 -3 09:06 PM 1.2 37	22 12:26 AM 0.6 18 05:09 AM 0.7 21 M 11:45 AM -0.1 -3 11:45 PM 1.0 30	7 03:25 AM -0.2 -6 11:30 AM 1.0 30 W 04:36 PM 0.9 27 08:40 PM 1.0 30	22 01:25 AM -0.1 -3 10:04 AM 1.2 37 Th 01:15 PM 1.1 34 06:29 PM 1.2 37	7 12:55 AM 0.1 3 09:12 AM 1.5 46 W 02:37 PM 1.2 37 06:29 PM 1.3 40	22 12:48 AM 0.0 0 09:30 AM 1.8 55 Th 01:29 PM 1.5 46 05:37 PM 1.6 49	8 03:46 AM 0.3 9 09:19 AM 0.8 24 M 02:40 PM 0.3 9 09:38 PM 1.1 34	23 01:30 AM 0.4 12 07:40 AM 0.6 18 Tu 12:29 PM 0.2 6 08:16 PM 1.0 30	8 04:20 AM -0.4 -12 01:15 PM 1.2 37 Th 06:30 PM 1.0 30 09:03 PM 1.0 30	23 02:30 AM -0.4 -12 11:41 AM 1.4 43 F 02:52 PM 1.3 40 06:12 PM 1.3 40	8 01:54 AM 0.0 0 10:53 AM 1.5 46 Th	23 01:47 AM -0.1 -3 10:58 AM 1.9 58 F 02:54 PM 1.7 52 05:00 PM 1.7 52	9 04:38 AM 0.0 0 11:27 AM 0.9 27 Tu 04:23 PM 0.6 18 10:04 PM 1.1 34	24 02:30 AM 0.1 3 09:56 AM 0.7 21 W 01:24 PM 0.5 15 08:29 PM 1.0 30	9 05:08 AM -0.5 -15 02:16 PM 1.3 40 F	24 03:38 AM -0.6 -18 12:55 PM 1.6 49 Sa	9 02:57 AM 0.0 0 12:28 PM 1.6 49 F	24 02:54 AM -0.2 -6 12:22 PM 2.0 61 Sa	10 05:20 AM -0.3 -9 01:13 PM 1.1 34 W 06:00 PM 0.8 24 10:27 PM 1.1 34	25 03:25 AM -0.3 -9 11:45 AM 1.0 30 Th 02:46 PM 0.8 24 08:42 PM 1.0 30	10 05:51 AM -0.6 -18 02:54 PM 1.4 43 Sa 08:17 PM 1.1 34 10:20 PM 1.1 34	25 04:46 AM -0.7 -21 01:50 PM 1.7 52 Su 06:52 PM 1.4 43 09:33 PM 1.5 46	10 04:02 AM -0.1 -3 01:29 PM 1.6 49 Sa	25 04:10 AM -0.2 -6 01:28 PM 2.0 61 Su	11 05:57 AM -0.6 -18 02:23 PM 1.2 37 Th 07:16 PM 1.0 30 10:48 PM 1.1 34	26 04:17 AM -0.6 -18 01:04 PM 1.2 37 F 04:44 PM 1.1 34 09:06 PM 1.1 34	11 06:30 AM -0.7 -21 03:20 PM 1.4 43 Su 08:24 PM 1.1 34 11:12 PM 1.2 37	26 05:49 AM -0.8 -24 02:33 PM 1.7 52 M 07:04 PM 1.4 43 11:10 PM 1.5 46	11 06:01 AM -0.1 -3 03:05 PM 1.7 52 Su	26 05:28 AM -0.2 -6 02:17 PM 2.0 61 M 07:47 PM 1.6 49 11:08 PM 1.7 52	12 06:30 AM -0.7 -21 03:09 PM 1.3 40 F 08:11 PM 1.1 34 11:10 PM 1.1 34	27 05:10 AM -1.0 -30 02:03 PM 1.4 43 Sa 06:25 PM 1.2 37 09:54 PM 1.2 37	12 07:06 AM -0.7 -21 03:42 PM 1.3 40 M 08:13 PM 1.1 34	27 06:49 AM -0.9 -27 03:11 PM 1.7 52 Tu 07:32 PM 1.3 40	12 06:53 AM -0.1 -3 03:30 PM 1.6 49 M 08:53 PM 1.4 43	27 06:40 AM -0.1 -3 02:55 PM 2.0 61 Tu 07:58 PM 1.5 46	13 07:00 AM -0.8 -24 03:43 PM 1.4 43 Sa 08:44 PM 1.1 34 11:35 PM 1.2 37	28 06:03 AM -1.2 -37 02:52 PM 1.6 49 Su 07:13 PM 1.2 37 10:59 PM 1.3 40	13 12:02 AM 1.2 37 07:39 AM -0.7 -21 Tu 04:03 PM 1.3 40 08:04 PM 1.1 34	28 12:28 AM 1.6 49 07:44 AM -0.8 -24 W 03:45 PM 1.6 49 08:08 PM 1.1 34	13 12:06 AM 1.5 46 07:37 AM -0.1 -3 Tu 03:51 PM 1.6 49 08:41 PM 1.3 40	28 12:45 AM 1.8 55 07:44 AM 0.0 0 W 03:26 PM 1.9 58 08:25 PM 1.3 40	14 07:29 AM -0.9 -27 04:10 PM 1.4 43 Su 08:51 PM 1.2 37	29 06:56 AM -1.4 -43 03:37 PM 1.6 49 M 07:48 PM 1.2 37	14 12:48 AM 1.3 40 08:11 AM -0.7 -21 W 04:26 PM 1.3 40 08:17 PM 1.0 30	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27	14 01:08 AM 1.5 46 08:15 AM -0.1 -3 W 04:10 PM 1.6 49 08:41 PM 1.2 37	29 02:03 AM 1.9 58 08:41 AM 0.1 3 Th 03:53 PM 1.8 55 08:58 PM 1.0 30	15 12:06 AM 1.2 37 07:57 AM -0.9 -27 M 04:36 PM 1.4 43 08:39 PM 1.1 34	30 12:05 AM 1.4 43 07:49 AM -1.4 -43 Tu 04:20 PM 1.6 49 08:25 PM 1.2 37	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27		15 02:03 AM 1.6 49 08:50 AM 0.0 0 Th 04:30 PM 1.6 49 08:59 PM 1.1 34	30 03:13 AM 2.0 61 09:33 AM 0.4 12 F 04:18 PM 1.8 55 09:35 PM 0.8 24		31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15																		
5 03:54 AM 1.3 40 11:24 AM -0.9 -27 F 07:49 PM 1.4 43	20 02:47 AM 1.0 30 10:33 AM -0.6 -18 Sa 07:09 PM 1.2 37 11:23 PM 0.8 24	5 01:10 AM 0.2 6 07:34 AM 0.9 27 M 12:58 PM 0.3 9 07:49 PM 1.0 30	20 06:37 AM 1.1 34 11:31 AM 0.4 12 Tu 06:26 PM 1.1 34	5 06:18 AM 1.5 46 11:49 AM 0.6 18 M 06:01 PM 1.3 40	20 06:53 AM 1.8 55 11:49 AM 1.0 30 Tu 05:44 PM 1.5 46 11:58 PM 0.1 3	6 01:02 AM 0.9 27 05:20 AM 1.1 34 Sa 12:20 PM -0.5 -15 08:30 PM 1.3 40	21 03:35 AM 0.9 27 11:08 AM -0.4 -12 Su 07:36 PM 1.1 34	6 02:21 AM 0.0 0 09:27 AM 0.9 27 Tu 02:17 PM 0.6 18 08:16 PM 1.0 30	21 12:26 AM 0.1 3 08:18 AM 1.1 34 W 12:17 PM 0.8 24 06:31 PM 1.2 37	6 12:01 AM 0.2 6 07:40 AM 1.5 46 Tu 12:47 PM 1.0 30 06:19 PM 1.3 40	21 08:08 AM 1.8 55 12:35 PM 1.3 40 W 05:46 PM 1.6 49	7 02:37 AM 0.6 18 07:12 AM 0.9 27 Su 01:22 PM -0.1 -3 09:06 PM 1.2 37	22 12:26 AM 0.6 18 05:09 AM 0.7 21 M 11:45 AM -0.1 -3 11:45 PM 1.0 30	7 03:25 AM -0.2 -6 11:30 AM 1.0 30 W 04:36 PM 0.9 27 08:40 PM 1.0 30	22 01:25 AM -0.1 -3 10:04 AM 1.2 37 Th 01:15 PM 1.1 34 06:29 PM 1.2 37	7 12:55 AM 0.1 3 09:12 AM 1.5 46 W 02:37 PM 1.2 37 06:29 PM 1.3 40	22 12:48 AM 0.0 0 09:30 AM 1.8 55 Th 01:29 PM 1.5 46 05:37 PM 1.6 49	8 03:46 AM 0.3 9 09:19 AM 0.8 24 M 02:40 PM 0.3 9 09:38 PM 1.1 34	23 01:30 AM 0.4 12 07:40 AM 0.6 18 Tu 12:29 PM 0.2 6 08:16 PM 1.0 30	8 04:20 AM -0.4 -12 01:15 PM 1.2 37 Th 06:30 PM 1.0 30 09:03 PM 1.0 30	23 02:30 AM -0.4 -12 11:41 AM 1.4 43 F 02:52 PM 1.3 40 06:12 PM 1.3 40	8 01:54 AM 0.0 0 10:53 AM 1.5 46 Th	23 01:47 AM -0.1 -3 10:58 AM 1.9 58 F 02:54 PM 1.7 52 05:00 PM 1.7 52	9 04:38 AM 0.0 0 11:27 AM 0.9 27 Tu 04:23 PM 0.6 18 10:04 PM 1.1 34	24 02:30 AM 0.1 3 09:56 AM 0.7 21 W 01:24 PM 0.5 15 08:29 PM 1.0 30	9 05:08 AM -0.5 -15 02:16 PM 1.3 40 F	24 03:38 AM -0.6 -18 12:55 PM 1.6 49 Sa	9 02:57 AM 0.0 0 12:28 PM 1.6 49 F	24 02:54 AM -0.2 -6 12:22 PM 2.0 61 Sa	10 05:20 AM -0.3 -9 01:13 PM 1.1 34 W 06:00 PM 0.8 24 10:27 PM 1.1 34	25 03:25 AM -0.3 -9 11:45 AM 1.0 30 Th 02:46 PM 0.8 24 08:42 PM 1.0 30	10 05:51 AM -0.6 -18 02:54 PM 1.4 43 Sa 08:17 PM 1.1 34 10:20 PM 1.1 34	25 04:46 AM -0.7 -21 01:50 PM 1.7 52 Su 06:52 PM 1.4 43 09:33 PM 1.5 46	10 04:02 AM -0.1 -3 01:29 PM 1.6 49 Sa	25 04:10 AM -0.2 -6 01:28 PM 2.0 61 Su	11 05:57 AM -0.6 -18 02:23 PM 1.2 37 Th 07:16 PM 1.0 30 10:48 PM 1.1 34	26 04:17 AM -0.6 -18 01:04 PM 1.2 37 F 04:44 PM 1.1 34 09:06 PM 1.1 34	11 06:30 AM -0.7 -21 03:20 PM 1.4 43 Su 08:24 PM 1.1 34 11:12 PM 1.2 37	26 05:49 AM -0.8 -24 02:33 PM 1.7 52 M 07:04 PM 1.4 43 11:10 PM 1.5 46	11 06:01 AM -0.1 -3 03:05 PM 1.7 52 Su	26 05:28 AM -0.2 -6 02:17 PM 2.0 61 M 07:47 PM 1.6 49 11:08 PM 1.7 52	12 06:30 AM -0.7 -21 03:09 PM 1.3 40 F 08:11 PM 1.1 34 11:10 PM 1.1 34	27 05:10 AM -1.0 -30 02:03 PM 1.4 43 Sa 06:25 PM 1.2 37 09:54 PM 1.2 37	12 07:06 AM -0.7 -21 03:42 PM 1.3 40 M 08:13 PM 1.1 34	27 06:49 AM -0.9 -27 03:11 PM 1.7 52 Tu 07:32 PM 1.3 40	12 06:53 AM -0.1 -3 03:30 PM 1.6 49 M 08:53 PM 1.4 43	27 06:40 AM -0.1 -3 02:55 PM 2.0 61 Tu 07:58 PM 1.5 46	13 07:00 AM -0.8 -24 03:43 PM 1.4 43 Sa 08:44 PM 1.1 34 11:35 PM 1.2 37	28 06:03 AM -1.2 -37 02:52 PM 1.6 49 Su 07:13 PM 1.2 37 10:59 PM 1.3 40	13 12:02 AM 1.2 37 07:39 AM -0.7 -21 Tu 04:03 PM 1.3 40 08:04 PM 1.1 34	28 12:28 AM 1.6 49 07:44 AM -0.8 -24 W 03:45 PM 1.6 49 08:08 PM 1.1 34	13 12:06 AM 1.5 46 07:37 AM -0.1 -3 Tu 03:51 PM 1.6 49 08:41 PM 1.3 40	28 12:45 AM 1.8 55 07:44 AM 0.0 0 W 03:26 PM 1.9 58 08:25 PM 1.3 40	14 07:29 AM -0.9 -27 04:10 PM 1.4 43 Su 08:51 PM 1.2 37	29 06:56 AM -1.4 -43 03:37 PM 1.6 49 M 07:48 PM 1.2 37	14 12:48 AM 1.3 40 08:11 AM -0.7 -21 W 04:26 PM 1.3 40 08:17 PM 1.0 30	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27	14 01:08 AM 1.5 46 08:15 AM -0.1 -3 W 04:10 PM 1.6 49 08:41 PM 1.2 37	29 02:03 AM 1.9 58 08:41 AM 0.1 3 Th 03:53 PM 1.8 55 08:58 PM 1.0 30	15 12:06 AM 1.2 37 07:57 AM -0.9 -27 M 04:36 PM 1.4 43 08:39 PM 1.1 34	30 12:05 AM 1.4 43 07:49 AM -1.4 -43 Tu 04:20 PM 1.6 49 08:25 PM 1.2 37	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27		15 02:03 AM 1.6 49 08:50 AM 0.0 0 Th 04:30 PM 1.6 49 08:59 PM 1.1 34	30 03:13 AM 2.0 61 09:33 AM 0.4 12 F 04:18 PM 1.8 55 09:35 PM 0.8 24		31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15																								
6 01:02 AM 0.9 27 05:20 AM 1.1 34 Sa 12:20 PM -0.5 -15 08:30 PM 1.3 40	21 03:35 AM 0.9 27 11:08 AM -0.4 -12 Su 07:36 PM 1.1 34	6 02:21 AM 0.0 0 09:27 AM 0.9 27 Tu 02:17 PM 0.6 18 08:16 PM 1.0 30	21 12:26 AM 0.1 3 08:18 AM 1.1 34 W 12:17 PM 0.8 24 06:31 PM 1.2 37	6 12:01 AM 0.2 6 07:40 AM 1.5 46 Tu 12:47 PM 1.0 30 06:19 PM 1.3 40	21 08:08 AM 1.8 55 12:35 PM 1.3 40 W 05:46 PM 1.6 49	7 02:37 AM 0.6 18 07:12 AM 0.9 27 Su 01:22 PM -0.1 -3 09:06 PM 1.2 37	22 12:26 AM 0.6 18 05:09 AM 0.7 21 M 11:45 AM -0.1 -3 11:45 PM 1.0 30	7 03:25 AM -0.2 -6 11:30 AM 1.0 30 W 04:36 PM 0.9 27 08:40 PM 1.0 30	22 01:25 AM -0.1 -3 10:04 AM 1.2 37 Th 01:15 PM 1.1 34 06:29 PM 1.2 37	7 12:55 AM 0.1 3 09:12 AM 1.5 46 W 02:37 PM 1.2 37 06:29 PM 1.3 40	22 12:48 AM 0.0 0 09:30 AM 1.8 55 Th 01:29 PM 1.5 46 05:37 PM 1.6 49	8 03:46 AM 0.3 9 09:19 AM 0.8 24 M 02:40 PM 0.3 9 09:38 PM 1.1 34	23 01:30 AM 0.4 12 07:40 AM 0.6 18 Tu 12:29 PM 0.2 6 08:16 PM 1.0 30	8 04:20 AM -0.4 -12 01:15 PM 1.2 37 Th 06:30 PM 1.0 30 09:03 PM 1.0 30	23 02:30 AM -0.4 -12 11:41 AM 1.4 43 F 02:52 PM 1.3 40 06:12 PM 1.3 40	8 01:54 AM 0.0 0 10:53 AM 1.5 46 Th	23 01:47 AM -0.1 -3 10:58 AM 1.9 58 F 02:54 PM 1.7 52 05:00 PM 1.7 52	9 04:38 AM 0.0 0 11:27 AM 0.9 27 Tu 04:23 PM 0.6 18 10:04 PM 1.1 34	24 02:30 AM 0.1 3 09:56 AM 0.7 21 W 01:24 PM 0.5 15 08:29 PM 1.0 30	9 05:08 AM -0.5 -15 02:16 PM 1.3 40 F	24 03:38 AM -0.6 -18 12:55 PM 1.6 49 Sa	9 02:57 AM 0.0 0 12:28 PM 1.6 49 F	24 02:54 AM -0.2 -6 12:22 PM 2.0 61 Sa	10 05:20 AM -0.3 -9 01:13 PM 1.1 34 W 06:00 PM 0.8 24 10:27 PM 1.1 34	25 03:25 AM -0.3 -9 11:45 AM 1.0 30 Th 02:46 PM 0.8 24 08:42 PM 1.0 30	10 05:51 AM -0.6 -18 02:54 PM 1.4 43 Sa 08:17 PM 1.1 34 10:20 PM 1.1 34	25 04:46 AM -0.7 -21 01:50 PM 1.7 52 Su 06:52 PM 1.4 43 09:33 PM 1.5 46	10 04:02 AM -0.1 -3 01:29 PM 1.6 49 Sa	25 04:10 AM -0.2 -6 01:28 PM 2.0 61 Su	11 05:57 AM -0.6 -18 02:23 PM 1.2 37 Th 07:16 PM 1.0 30 10:48 PM 1.1 34	26 04:17 AM -0.6 -18 01:04 PM 1.2 37 F 04:44 PM 1.1 34 09:06 PM 1.1 34	11 06:30 AM -0.7 -21 03:20 PM 1.4 43 Su 08:24 PM 1.1 34 11:12 PM 1.2 37	26 05:49 AM -0.8 -24 02:33 PM 1.7 52 M 07:04 PM 1.4 43 11:10 PM 1.5 46	11 06:01 AM -0.1 -3 03:05 PM 1.7 52 Su	26 05:28 AM -0.2 -6 02:17 PM 2.0 61 M 07:47 PM 1.6 49 11:08 PM 1.7 52	12 06:30 AM -0.7 -21 03:09 PM 1.3 40 F 08:11 PM 1.1 34 11:10 PM 1.1 34	27 05:10 AM -1.0 -30 02:03 PM 1.4 43 Sa 06:25 PM 1.2 37 09:54 PM 1.2 37	12 07:06 AM -0.7 -21 03:42 PM 1.3 40 M 08:13 PM 1.1 34	27 06:49 AM -0.9 -27 03:11 PM 1.7 52 Tu 07:32 PM 1.3 40	12 06:53 AM -0.1 -3 03:30 PM 1.6 49 M 08:53 PM 1.4 43	27 06:40 AM -0.1 -3 02:55 PM 2.0 61 Tu 07:58 PM 1.5 46	13 07:00 AM -0.8 -24 03:43 PM 1.4 43 Sa 08:44 PM 1.1 34 11:35 PM 1.2 37	28 06:03 AM -1.2 -37 02:52 PM 1.6 49 Su 07:13 PM 1.2 37 10:59 PM 1.3 40	13 12:02 AM 1.2 37 07:39 AM -0.7 -21 Tu 04:03 PM 1.3 40 08:04 PM 1.1 34	28 12:28 AM 1.6 49 07:44 AM -0.8 -24 W 03:45 PM 1.6 49 08:08 PM 1.1 34	13 12:06 AM 1.5 46 07:37 AM -0.1 -3 Tu 03:51 PM 1.6 49 08:41 PM 1.3 40	28 12:45 AM 1.8 55 07:44 AM 0.0 0 W 03:26 PM 1.9 58 08:25 PM 1.3 40	14 07:29 AM -0.9 -27 04:10 PM 1.4 43 Su 08:51 PM 1.2 37	29 06:56 AM -1.4 -43 03:37 PM 1.6 49 M 07:48 PM 1.2 37	14 12:48 AM 1.3 40 08:11 AM -0.7 -21 W 04:26 PM 1.3 40 08:17 PM 1.0 30	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27	14 01:08 AM 1.5 46 08:15 AM -0.1 -3 W 04:10 PM 1.6 49 08:41 PM 1.2 37	29 02:03 AM 1.9 58 08:41 AM 0.1 3 Th 03:53 PM 1.8 55 08:58 PM 1.0 30	15 12:06 AM 1.2 37 07:57 AM -0.9 -27 M 04:36 PM 1.4 43 08:39 PM 1.1 34	30 12:05 AM 1.4 43 07:49 AM -1.4 -43 Tu 04:20 PM 1.6 49 08:25 PM 1.2 37	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27		15 02:03 AM 1.6 49 08:50 AM 0.0 0 Th 04:30 PM 1.6 49 08:59 PM 1.1 34	30 03:13 AM 2.0 61 09:33 AM 0.4 12 F 04:18 PM 1.8 55 09:35 PM 0.8 24		31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15																														
7 02:37 AM 0.6 18 07:12 AM 0.9 27 Su 01:22 PM -0.1 -3 09:06 PM 1.2 37	22 12:26 AM 0.6 18 05:09 AM 0.7 21 M 11:45 AM -0.1 -3 11:45 PM 1.0 30	7 03:25 AM -0.2 -6 11:30 AM 1.0 30 W 04:36 PM 0.9 27 08:40 PM 1.0 30	22 01:25 AM -0.1 -3 10:04 AM 1.2 37 Th 01:15 PM 1.1 34 06:29 PM 1.2 37	7 12:55 AM 0.1 3 09:12 AM 1.5 46 W 02:37 PM 1.2 37 06:29 PM 1.3 40	22 12:48 AM 0.0 0 09:30 AM 1.8 55 Th 01:29 PM 1.5 46 05:37 PM 1.6 49	8 03:46 AM 0.3 9 09:19 AM 0.8 24 M 02:40 PM 0.3 9 09:38 PM 1.1 34	23 01:30 AM 0.4 12 07:40 AM 0.6 18 Tu 12:29 PM 0.2 6 08:16 PM 1.0 30	8 04:20 AM -0.4 -12 01:15 PM 1.2 37 Th 06:30 PM 1.0 30 09:03 PM 1.0 30	23 02:30 AM -0.4 -12 11:41 AM 1.4 43 F 02:52 PM 1.3 40 06:12 PM 1.3 40	8 01:54 AM 0.0 0 10:53 AM 1.5 46 Th	23 01:47 AM -0.1 -3 10:58 AM 1.9 58 F 02:54 PM 1.7 52 05:00 PM 1.7 52	9 04:38 AM 0.0 0 11:27 AM 0.9 27 Tu 04:23 PM 0.6 18 10:04 PM 1.1 34	24 02:30 AM 0.1 3 09:56 AM 0.7 21 W 01:24 PM 0.5 15 08:29 PM 1.0 30	9 05:08 AM -0.5 -15 02:16 PM 1.3 40 F	24 03:38 AM -0.6 -18 12:55 PM 1.6 49 Sa	9 02:57 AM 0.0 0 12:28 PM 1.6 49 F	24 02:54 AM -0.2 -6 12:22 PM 2.0 61 Sa	10 05:20 AM -0.3 -9 01:13 PM 1.1 34 W 06:00 PM 0.8 24 10:27 PM 1.1 34	25 03:25 AM -0.3 -9 11:45 AM 1.0 30 Th 02:46 PM 0.8 24 08:42 PM 1.0 30	10 05:51 AM -0.6 -18 02:54 PM 1.4 43 Sa 08:17 PM 1.1 34 10:20 PM 1.1 34	25 04:46 AM -0.7 -21 01:50 PM 1.7 52 Su 06:52 PM 1.4 43 09:33 PM 1.5 46	10 04:02 AM -0.1 -3 01:29 PM 1.6 49 Sa	25 04:10 AM -0.2 -6 01:28 PM 2.0 61 Su	11 05:57 AM -0.6 -18 02:23 PM 1.2 37 Th 07:16 PM 1.0 30 10:48 PM 1.1 34	26 04:17 AM -0.6 -18 01:04 PM 1.2 37 F 04:44 PM 1.1 34 09:06 PM 1.1 34	11 06:30 AM -0.7 -21 03:20 PM 1.4 43 Su 08:24 PM 1.1 34 11:12 PM 1.2 37	26 05:49 AM -0.8 -24 02:33 PM 1.7 52 M 07:04 PM 1.4 43 11:10 PM 1.5 46	11 06:01 AM -0.1 -3 03:05 PM 1.7 52 Su	26 05:28 AM -0.2 -6 02:17 PM 2.0 61 M 07:47 PM 1.6 49 11:08 PM 1.7 52	12 06:30 AM -0.7 -21 03:09 PM 1.3 40 F 08:11 PM 1.1 34 11:10 PM 1.1 34	27 05:10 AM -1.0 -30 02:03 PM 1.4 43 Sa 06:25 PM 1.2 37 09:54 PM 1.2 37	12 07:06 AM -0.7 -21 03:42 PM 1.3 40 M 08:13 PM 1.1 34	27 06:49 AM -0.9 -27 03:11 PM 1.7 52 Tu 07:32 PM 1.3 40	12 06:53 AM -0.1 -3 03:30 PM 1.6 49 M 08:53 PM 1.4 43	27 06:40 AM -0.1 -3 02:55 PM 2.0 61 Tu 07:58 PM 1.5 46	13 07:00 AM -0.8 -24 03:43 PM 1.4 43 Sa 08:44 PM 1.1 34 11:35 PM 1.2 37	28 06:03 AM -1.2 -37 02:52 PM 1.6 49 Su 07:13 PM 1.2 37 10:59 PM 1.3 40	13 12:02 AM 1.2 37 07:39 AM -0.7 -21 Tu 04:03 PM 1.3 40 08:04 PM 1.1 34	28 12:28 AM 1.6 49 07:44 AM -0.8 -24 W 03:45 PM 1.6 49 08:08 PM 1.1 34	13 12:06 AM 1.5 46 07:37 AM -0.1 -3 Tu 03:51 PM 1.6 49 08:41 PM 1.3 40	28 12:45 AM 1.8 55 07:44 AM 0.0 0 W 03:26 PM 1.9 58 08:25 PM 1.3 40	14 07:29 AM -0.9 -27 04:10 PM 1.4 43 Su 08:51 PM 1.2 37	29 06:56 AM -1.4 -43 03:37 PM 1.6 49 M 07:48 PM 1.2 37	14 12:48 AM 1.3 40 08:11 AM -0.7 -21 W 04:26 PM 1.3 40 08:17 PM 1.0 30	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27	14 01:08 AM 1.5 46 08:15 AM -0.1 -3 W 04:10 PM 1.6 49 08:41 PM 1.2 37	29 02:03 AM 1.9 58 08:41 AM 0.1 3 Th 03:53 PM 1.8 55 08:58 PM 1.0 30	15 12:06 AM 1.2 37 07:57 AM -0.9 -27 M 04:36 PM 1.4 43 08:39 PM 1.1 34	30 12:05 AM 1.4 43 07:49 AM -1.4 -43 Tu 04:20 PM 1.6 49 08:25 PM 1.2 37	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27		15 02:03 AM 1.6 49 08:50 AM 0.0 0 Th 04:30 PM 1.6 49 08:59 PM 1.1 34	30 03:13 AM 2.0 61 09:33 AM 0.4 12 F 04:18 PM 1.8 55 09:35 PM 0.8 24		31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15																																				
8 03:46 AM 0.3 9 09:19 AM 0.8 24 M 02:40 PM 0.3 9 09:38 PM 1.1 34	23 01:30 AM 0.4 12 07:40 AM 0.6 18 Tu 12:29 PM 0.2 6 08:16 PM 1.0 30	8 04:20 AM -0.4 -12 01:15 PM 1.2 37 Th 06:30 PM 1.0 30 09:03 PM 1.0 30	23 02:30 AM -0.4 -12 11:41 AM 1.4 43 F 02:52 PM 1.3 40 06:12 PM 1.3 40	8 01:54 AM 0.0 0 10:53 AM 1.5 46 Th	23 01:47 AM -0.1 -3 10:58 AM 1.9 58 F 02:54 PM 1.7 52 05:00 PM 1.7 52	9 04:38 AM 0.0 0 11:27 AM 0.9 27 Tu 04:23 PM 0.6 18 10:04 PM 1.1 34	24 02:30 AM 0.1 3 09:56 AM 0.7 21 W 01:24 PM 0.5 15 08:29 PM 1.0 30	9 05:08 AM -0.5 -15 02:16 PM 1.3 40 F	24 03:38 AM -0.6 -18 12:55 PM 1.6 49 Sa	9 02:57 AM 0.0 0 12:28 PM 1.6 49 F	24 02:54 AM -0.2 -6 12:22 PM 2.0 61 Sa	10 05:20 AM -0.3 -9 01:13 PM 1.1 34 W 06:00 PM 0.8 24 10:27 PM 1.1 34	25 03:25 AM -0.3 -9 11:45 AM 1.0 30 Th 02:46 PM 0.8 24 08:42 PM 1.0 30	10 05:51 AM -0.6 -18 02:54 PM 1.4 43 Sa 08:17 PM 1.1 34 10:20 PM 1.1 34	25 04:46 AM -0.7 -21 01:50 PM 1.7 52 Su 06:52 PM 1.4 43 09:33 PM 1.5 46	10 04:02 AM -0.1 -3 01:29 PM 1.6 49 Sa	25 04:10 AM -0.2 -6 01:28 PM 2.0 61 Su	11 05:57 AM -0.6 -18 02:23 PM 1.2 37 Th 07:16 PM 1.0 30 10:48 PM 1.1 34	26 04:17 AM -0.6 -18 01:04 PM 1.2 37 F 04:44 PM 1.1 34 09:06 PM 1.1 34	11 06:30 AM -0.7 -21 03:20 PM 1.4 43 Su 08:24 PM 1.1 34 11:12 PM 1.2 37	26 05:49 AM -0.8 -24 02:33 PM 1.7 52 M 07:04 PM 1.4 43 11:10 PM 1.5 46	11 06:01 AM -0.1 -3 03:05 PM 1.7 52 Su	26 05:28 AM -0.2 -6 02:17 PM 2.0 61 M 07:47 PM 1.6 49 11:08 PM 1.7 52	12 06:30 AM -0.7 -21 03:09 PM 1.3 40 F 08:11 PM 1.1 34 11:10 PM 1.1 34	27 05:10 AM -1.0 -30 02:03 PM 1.4 43 Sa 06:25 PM 1.2 37 09:54 PM 1.2 37	12 07:06 AM -0.7 -21 03:42 PM 1.3 40 M 08:13 PM 1.1 34	27 06:49 AM -0.9 -27 03:11 PM 1.7 52 Tu 07:32 PM 1.3 40	12 06:53 AM -0.1 -3 03:30 PM 1.6 49 M 08:53 PM 1.4 43	27 06:40 AM -0.1 -3 02:55 PM 2.0 61 Tu 07:58 PM 1.5 46	13 07:00 AM -0.8 -24 03:43 PM 1.4 43 Sa 08:44 PM 1.1 34 11:35 PM 1.2 37	28 06:03 AM -1.2 -37 02:52 PM 1.6 49 Su 07:13 PM 1.2 37 10:59 PM 1.3 40	13 12:02 AM 1.2 37 07:39 AM -0.7 -21 Tu 04:03 PM 1.3 40 08:04 PM 1.1 34	28 12:28 AM 1.6 49 07:44 AM -0.8 -24 W 03:45 PM 1.6 49 08:08 PM 1.1 34	13 12:06 AM 1.5 46 07:37 AM -0.1 -3 Tu 03:51 PM 1.6 49 08:41 PM 1.3 40	28 12:45 AM 1.8 55 07:44 AM 0.0 0 W 03:26 PM 1.9 58 08:25 PM 1.3 40	14 07:29 AM -0.9 -27 04:10 PM 1.4 43 Su 08:51 PM 1.2 37	29 06:56 AM -1.4 -43 03:37 PM 1.6 49 M 07:48 PM 1.2 37	14 12:48 AM 1.3 40 08:11 AM -0.7 -21 W 04:26 PM 1.3 40 08:17 PM 1.0 30	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27	14 01:08 AM 1.5 46 08:15 AM -0.1 -3 W 04:10 PM 1.6 49 08:41 PM 1.2 37	29 02:03 AM 1.9 58 08:41 AM 0.1 3 Th 03:53 PM 1.8 55 08:58 PM 1.0 30	15 12:06 AM 1.2 37 07:57 AM -0.9 -27 M 04:36 PM 1.4 43 08:39 PM 1.1 34	30 12:05 AM 1.4 43 07:49 AM -1.4 -43 Tu 04:20 PM 1.6 49 08:25 PM 1.2 37	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27		15 02:03 AM 1.6 49 08:50 AM 0.0 0 Th 04:30 PM 1.6 49 08:59 PM 1.1 34	30 03:13 AM 2.0 61 09:33 AM 0.4 12 F 04:18 PM 1.8 55 09:35 PM 0.8 24		31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15																																										
9 04:38 AM 0.0 0 11:27 AM 0.9 27 Tu 04:23 PM 0.6 18 10:04 PM 1.1 34	24 02:30 AM 0.1 3 09:56 AM 0.7 21 W 01:24 PM 0.5 15 08:29 PM 1.0 30	9 05:08 AM -0.5 -15 02:16 PM 1.3 40 F	24 03:38 AM -0.6 -18 12:55 PM 1.6 49 Sa	9 02:57 AM 0.0 0 12:28 PM 1.6 49 F	24 02:54 AM -0.2 -6 12:22 PM 2.0 61 Sa	10 05:20 AM -0.3 -9 01:13 PM 1.1 34 W 06:00 PM 0.8 24 10:27 PM 1.1 34	25 03:25 AM -0.3 -9 11:45 AM 1.0 30 Th 02:46 PM 0.8 24 08:42 PM 1.0 30	10 05:51 AM -0.6 -18 02:54 PM 1.4 43 Sa 08:17 PM 1.1 34 10:20 PM 1.1 34	25 04:46 AM -0.7 -21 01:50 PM 1.7 52 Su 06:52 PM 1.4 43 09:33 PM 1.5 46	10 04:02 AM -0.1 -3 01:29 PM 1.6 49 Sa	25 04:10 AM -0.2 -6 01:28 PM 2.0 61 Su	11 05:57 AM -0.6 -18 02:23 PM 1.2 37 Th 07:16 PM 1.0 30 10:48 PM 1.1 34	26 04:17 AM -0.6 -18 01:04 PM 1.2 37 F 04:44 PM 1.1 34 09:06 PM 1.1 34	11 06:30 AM -0.7 -21 03:20 PM 1.4 43 Su 08:24 PM 1.1 34 11:12 PM 1.2 37	26 05:49 AM -0.8 -24 02:33 PM 1.7 52 M 07:04 PM 1.4 43 11:10 PM 1.5 46	11 06:01 AM -0.1 -3 03:05 PM 1.7 52 Su	26 05:28 AM -0.2 -6 02:17 PM 2.0 61 M 07:47 PM 1.6 49 11:08 PM 1.7 52	12 06:30 AM -0.7 -21 03:09 PM 1.3 40 F 08:11 PM 1.1 34 11:10 PM 1.1 34	27 05:10 AM -1.0 -30 02:03 PM 1.4 43 Sa 06:25 PM 1.2 37 09:54 PM 1.2 37	12 07:06 AM -0.7 -21 03:42 PM 1.3 40 M 08:13 PM 1.1 34	27 06:49 AM -0.9 -27 03:11 PM 1.7 52 Tu 07:32 PM 1.3 40	12 06:53 AM -0.1 -3 03:30 PM 1.6 49 M 08:53 PM 1.4 43	27 06:40 AM -0.1 -3 02:55 PM 2.0 61 Tu 07:58 PM 1.5 46	13 07:00 AM -0.8 -24 03:43 PM 1.4 43 Sa 08:44 PM 1.1 34 11:35 PM 1.2 37	28 06:03 AM -1.2 -37 02:52 PM 1.6 49 Su 07:13 PM 1.2 37 10:59 PM 1.3 40	13 12:02 AM 1.2 37 07:39 AM -0.7 -21 Tu 04:03 PM 1.3 40 08:04 PM 1.1 34	28 12:28 AM 1.6 49 07:44 AM -0.8 -24 W 03:45 PM 1.6 49 08:08 PM 1.1 34	13 12:06 AM 1.5 46 07:37 AM -0.1 -3 Tu 03:51 PM 1.6 49 08:41 PM 1.3 40	28 12:45 AM 1.8 55 07:44 AM 0.0 0 W 03:26 PM 1.9 58 08:25 PM 1.3 40	14 07:29 AM -0.9 -27 04:10 PM 1.4 43 Su 08:51 PM 1.2 37	29 06:56 AM -1.4 -43 03:37 PM 1.6 49 M 07:48 PM 1.2 37	14 12:48 AM 1.3 40 08:11 AM -0.7 -21 W 04:26 PM 1.3 40 08:17 PM 1.0 30	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27	14 01:08 AM 1.5 46 08:15 AM -0.1 -3 W 04:10 PM 1.6 49 08:41 PM 1.2 37	29 02:03 AM 1.9 58 08:41 AM 0.1 3 Th 03:53 PM 1.8 55 08:58 PM 1.0 30	15 12:06 AM 1.2 37 07:57 AM -0.9 -27 M 04:36 PM 1.4 43 08:39 PM 1.1 34	30 12:05 AM 1.4 43 07:49 AM -1.4 -43 Tu 04:20 PM 1.6 49 08:25 PM 1.2 37	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27		15 02:03 AM 1.6 49 08:50 AM 0.0 0 Th 04:30 PM 1.6 49 08:59 PM 1.1 34	30 03:13 AM 2.0 61 09:33 AM 0.4 12 F 04:18 PM 1.8 55 09:35 PM 0.8 24		31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15																																																
10 05:20 AM -0.3 -9 01:13 PM 1.1 34 W 06:00 PM 0.8 24 10:27 PM 1.1 34	25 03:25 AM -0.3 -9 11:45 AM 1.0 30 Th 02:46 PM 0.8 24 08:42 PM 1.0 30	10 05:51 AM -0.6 -18 02:54 PM 1.4 43 Sa 08:17 PM 1.1 34 10:20 PM 1.1 34	25 04:46 AM -0.7 -21 01:50 PM 1.7 52 Su 06:52 PM 1.4 43 09:33 PM 1.5 46	10 04:02 AM -0.1 -3 01:29 PM 1.6 49 Sa	25 04:10 AM -0.2 -6 01:28 PM 2.0 61 Su	11 05:57 AM -0.6 -18 02:23 PM 1.2 37 Th 07:16 PM 1.0 30 10:48 PM 1.1 34	26 04:17 AM -0.6 -18 01:04 PM 1.2 37 F 04:44 PM 1.1 34 09:06 PM 1.1 34	11 06:30 AM -0.7 -21 03:20 PM 1.4 43 Su 08:24 PM 1.1 34 11:12 PM 1.2 37	26 05:49 AM -0.8 -24 02:33 PM 1.7 52 M 07:04 PM 1.4 43 11:10 PM 1.5 46	11 06:01 AM -0.1 -3 03:05 PM 1.7 52 Su	26 05:28 AM -0.2 -6 02:17 PM 2.0 61 M 07:47 PM 1.6 49 11:08 PM 1.7 52	12 06:30 AM -0.7 -21 03:09 PM 1.3 40 F 08:11 PM 1.1 34 11:10 PM 1.1 34	27 05:10 AM -1.0 -30 02:03 PM 1.4 43 Sa 06:25 PM 1.2 37 09:54 PM 1.2 37	12 07:06 AM -0.7 -21 03:42 PM 1.3 40 M 08:13 PM 1.1 34	27 06:49 AM -0.9 -27 03:11 PM 1.7 52 Tu 07:32 PM 1.3 40	12 06:53 AM -0.1 -3 03:30 PM 1.6 49 M 08:53 PM 1.4 43	27 06:40 AM -0.1 -3 02:55 PM 2.0 61 Tu 07:58 PM 1.5 46	13 07:00 AM -0.8 -24 03:43 PM 1.4 43 Sa 08:44 PM 1.1 34 11:35 PM 1.2 37	28 06:03 AM -1.2 -37 02:52 PM 1.6 49 Su 07:13 PM 1.2 37 10:59 PM 1.3 40	13 12:02 AM 1.2 37 07:39 AM -0.7 -21 Tu 04:03 PM 1.3 40 08:04 PM 1.1 34	28 12:28 AM 1.6 49 07:44 AM -0.8 -24 W 03:45 PM 1.6 49 08:08 PM 1.1 34	13 12:06 AM 1.5 46 07:37 AM -0.1 -3 Tu 03:51 PM 1.6 49 08:41 PM 1.3 40	28 12:45 AM 1.8 55 07:44 AM 0.0 0 W 03:26 PM 1.9 58 08:25 PM 1.3 40	14 07:29 AM -0.9 -27 04:10 PM 1.4 43 Su 08:51 PM 1.2 37	29 06:56 AM -1.4 -43 03:37 PM 1.6 49 M 07:48 PM 1.2 37	14 12:48 AM 1.3 40 08:11 AM -0.7 -21 W 04:26 PM 1.3 40 08:17 PM 1.0 30	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27	14 01:08 AM 1.5 46 08:15 AM -0.1 -3 W 04:10 PM 1.6 49 08:41 PM 1.2 37	29 02:03 AM 1.9 58 08:41 AM 0.1 3 Th 03:53 PM 1.8 55 08:58 PM 1.0 30	15 12:06 AM 1.2 37 07:57 AM -0.9 -27 M 04:36 PM 1.4 43 08:39 PM 1.1 34	30 12:05 AM 1.4 43 07:49 AM -1.4 -43 Tu 04:20 PM 1.6 49 08:25 PM 1.2 37	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27		15 02:03 AM 1.6 49 08:50 AM 0.0 0 Th 04:30 PM 1.6 49 08:59 PM 1.1 34	30 03:13 AM 2.0 61 09:33 AM 0.4 12 F 04:18 PM 1.8 55 09:35 PM 0.8 24		31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15																																																						
11 05:57 AM -0.6 -18 02:23 PM 1.2 37 Th 07:16 PM 1.0 30 10:48 PM 1.1 34	26 04:17 AM -0.6 -18 01:04 PM 1.2 37 F 04:44 PM 1.1 34 09:06 PM 1.1 34	11 06:30 AM -0.7 -21 03:20 PM 1.4 43 Su 08:24 PM 1.1 34 11:12 PM 1.2 37	26 05:49 AM -0.8 -24 02:33 PM 1.7 52 M 07:04 PM 1.4 43 11:10 PM 1.5 46	11 06:01 AM -0.1 -3 03:05 PM 1.7 52 Su	26 05:28 AM -0.2 -6 02:17 PM 2.0 61 M 07:47 PM 1.6 49 11:08 PM 1.7 52	12 06:30 AM -0.7 -21 03:09 PM 1.3 40 F 08:11 PM 1.1 34 11:10 PM 1.1 34	27 05:10 AM -1.0 -30 02:03 PM 1.4 43 Sa 06:25 PM 1.2 37 09:54 PM 1.2 37	12 07:06 AM -0.7 -21 03:42 PM 1.3 40 M 08:13 PM 1.1 34	27 06:49 AM -0.9 -27 03:11 PM 1.7 52 Tu 07:32 PM 1.3 40	12 06:53 AM -0.1 -3 03:30 PM 1.6 49 M 08:53 PM 1.4 43	27 06:40 AM -0.1 -3 02:55 PM 2.0 61 Tu 07:58 PM 1.5 46	13 07:00 AM -0.8 -24 03:43 PM 1.4 43 Sa 08:44 PM 1.1 34 11:35 PM 1.2 37	28 06:03 AM -1.2 -37 02:52 PM 1.6 49 Su 07:13 PM 1.2 37 10:59 PM 1.3 40	13 12:02 AM 1.2 37 07:39 AM -0.7 -21 Tu 04:03 PM 1.3 40 08:04 PM 1.1 34	28 12:28 AM 1.6 49 07:44 AM -0.8 -24 W 03:45 PM 1.6 49 08:08 PM 1.1 34	13 12:06 AM 1.5 46 07:37 AM -0.1 -3 Tu 03:51 PM 1.6 49 08:41 PM 1.3 40	28 12:45 AM 1.8 55 07:44 AM 0.0 0 W 03:26 PM 1.9 58 08:25 PM 1.3 40	14 07:29 AM -0.9 -27 04:10 PM 1.4 43 Su 08:51 PM 1.2 37	29 06:56 AM -1.4 -43 03:37 PM 1.6 49 M 07:48 PM 1.2 37	14 12:48 AM 1.3 40 08:11 AM -0.7 -21 W 04:26 PM 1.3 40 08:17 PM 1.0 30	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27	14 01:08 AM 1.5 46 08:15 AM -0.1 -3 W 04:10 PM 1.6 49 08:41 PM 1.2 37	29 02:03 AM 1.9 58 08:41 AM 0.1 3 Th 03:53 PM 1.8 55 08:58 PM 1.0 30	15 12:06 AM 1.2 37 07:57 AM -0.9 -27 M 04:36 PM 1.4 43 08:39 PM 1.1 34	30 12:05 AM 1.4 43 07:49 AM -1.4 -43 Tu 04:20 PM 1.6 49 08:25 PM 1.2 37	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27		15 02:03 AM 1.6 49 08:50 AM 0.0 0 Th 04:30 PM 1.6 49 08:59 PM 1.1 34	30 03:13 AM 2.0 61 09:33 AM 0.4 12 F 04:18 PM 1.8 55 09:35 PM 0.8 24		31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15																																																												
12 06:30 AM -0.7 -21 03:09 PM 1.3 40 F 08:11 PM 1.1 34 11:10 PM 1.1 34	27 05:10 AM -1.0 -30 02:03 PM 1.4 43 Sa 06:25 PM 1.2 37 09:54 PM 1.2 37	12 07:06 AM -0.7 -21 03:42 PM 1.3 40 M 08:13 PM 1.1 34	27 06:49 AM -0.9 -27 03:11 PM 1.7 52 Tu 07:32 PM 1.3 40	12 06:53 AM -0.1 -3 03:30 PM 1.6 49 M 08:53 PM 1.4 43	27 06:40 AM -0.1 -3 02:55 PM 2.0 61 Tu 07:58 PM 1.5 46	13 07:00 AM -0.8 -24 03:43 PM 1.4 43 Sa 08:44 PM 1.1 34 11:35 PM 1.2 37	28 06:03 AM -1.2 -37 02:52 PM 1.6 49 Su 07:13 PM 1.2 37 10:59 PM 1.3 40	13 12:02 AM 1.2 37 07:39 AM -0.7 -21 Tu 04:03 PM 1.3 40 08:04 PM 1.1 34	28 12:28 AM 1.6 49 07:44 AM -0.8 -24 W 03:45 PM 1.6 49 08:08 PM 1.1 34	13 12:06 AM 1.5 46 07:37 AM -0.1 -3 Tu 03:51 PM 1.6 49 08:41 PM 1.3 40	28 12:45 AM 1.8 55 07:44 AM 0.0 0 W 03:26 PM 1.9 58 08:25 PM 1.3 40	14 07:29 AM -0.9 -27 04:10 PM 1.4 43 Su 08:51 PM 1.2 37	29 06:56 AM -1.4 -43 03:37 PM 1.6 49 M 07:48 PM 1.2 37	14 12:48 AM 1.3 40 08:11 AM -0.7 -21 W 04:26 PM 1.3 40 08:17 PM 1.0 30	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27	14 01:08 AM 1.5 46 08:15 AM -0.1 -3 W 04:10 PM 1.6 49 08:41 PM 1.2 37	29 02:03 AM 1.9 58 08:41 AM 0.1 3 Th 03:53 PM 1.8 55 08:58 PM 1.0 30	15 12:06 AM 1.2 37 07:57 AM -0.9 -27 M 04:36 PM 1.4 43 08:39 PM 1.1 34	30 12:05 AM 1.4 43 07:49 AM -1.4 -43 Tu 04:20 PM 1.6 49 08:25 PM 1.2 37	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27		15 02:03 AM 1.6 49 08:50 AM 0.0 0 Th 04:30 PM 1.6 49 08:59 PM 1.1 34	30 03:13 AM 2.0 61 09:33 AM 0.4 12 F 04:18 PM 1.8 55 09:35 PM 0.8 24		31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15																																																																		
13 07:00 AM -0.8 -24 03:43 PM 1.4 43 Sa 08:44 PM 1.1 34 11:35 PM 1.2 37	28 06:03 AM -1.2 -37 02:52 PM 1.6 49 Su 07:13 PM 1.2 37 10:59 PM 1.3 40	13 12:02 AM 1.2 37 07:39 AM -0.7 -21 Tu 04:03 PM 1.3 40 08:04 PM 1.1 34	28 12:28 AM 1.6 49 07:44 AM -0.8 -24 W 03:45 PM 1.6 49 08:08 PM 1.1 34	13 12:06 AM 1.5 46 07:37 AM -0.1 -3 Tu 03:51 PM 1.6 49 08:41 PM 1.3 40	28 12:45 AM 1.8 55 07:44 AM 0.0 0 W 03:26 PM 1.9 58 08:25 PM 1.3 40	14 07:29 AM -0.9 -27 04:10 PM 1.4 43 Su 08:51 PM 1.2 37	29 06:56 AM -1.4 -43 03:37 PM 1.6 49 M 07:48 PM 1.2 37	14 12:48 AM 1.3 40 08:11 AM -0.7 -21 W 04:26 PM 1.3 40 08:17 PM 1.0 30	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27	14 01:08 AM 1.5 46 08:15 AM -0.1 -3 W 04:10 PM 1.6 49 08:41 PM 1.2 37	29 02:03 AM 1.9 58 08:41 AM 0.1 3 Th 03:53 PM 1.8 55 08:58 PM 1.0 30	15 12:06 AM 1.2 37 07:57 AM -0.9 -27 M 04:36 PM 1.4 43 08:39 PM 1.1 34	30 12:05 AM 1.4 43 07:49 AM -1.4 -43 Tu 04:20 PM 1.6 49 08:25 PM 1.2 37	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27		15 02:03 AM 1.6 49 08:50 AM 0.0 0 Th 04:30 PM 1.6 49 08:59 PM 1.1 34	30 03:13 AM 2.0 61 09:33 AM 0.4 12 F 04:18 PM 1.8 55 09:35 PM 0.8 24		31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15																																																																								
14 07:29 AM -0.9 -27 04:10 PM 1.4 43 Su 08:51 PM 1.2 37	29 06:56 AM -1.4 -43 03:37 PM 1.6 49 M 07:48 PM 1.2 37	14 12:48 AM 1.3 40 08:11 AM -0.7 -21 W 04:26 PM 1.3 40 08:17 PM 1.0 30	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27	14 01:08 AM 1.5 46 08:15 AM -0.1 -3 W 04:10 PM 1.6 49 08:41 PM 1.2 37	29 02:03 AM 1.9 58 08:41 AM 0.1 3 Th 03:53 PM 1.8 55 08:58 PM 1.0 30	15 12:06 AM 1.2 37 07:57 AM -0.9 -27 M 04:36 PM 1.4 43 08:39 PM 1.1 34	30 12:05 AM 1.4 43 07:49 AM -1.4 -43 Tu 04:20 PM 1.6 49 08:25 PM 1.2 37	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27		15 02:03 AM 1.6 49 08:50 AM 0.0 0 Th 04:30 PM 1.6 49 08:59 PM 1.1 34	30 03:13 AM 2.0 61 09:33 AM 0.4 12 F 04:18 PM 1.8 55 09:35 PM 0.8 24		31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15																																																																														
15 12:06 AM 1.2 37 07:57 AM -0.9 -27 M 04:36 PM 1.4 43 08:39 PM 1.1 34	30 12:05 AM 1.4 43 07:49 AM -1.4 -43 Tu 04:20 PM 1.6 49 08:25 PM 1.2 37	15 01:32 AM 1.3 40 08:42 AM -0.6 -18 Th 04:50 PM 1.3 40 08:46 PM 0.9 27		15 02:03 AM 1.6 49 08:50 AM 0.0 0 Th 04:30 PM 1.6 49 08:59 PM 1.1 34	30 03:13 AM 2.0 61 09:33 AM 0.4 12 F 04:18 PM 1.8 55 09:35 PM 0.8 24		31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15																																																																																				
	31 01:11 AM 1.5 46 08:41 AM -1.4 -43 W 05:01 PM 1.5 46 09:07 PM 1.1 34				31 04:18 AM 2.0 61 10:21 AM 0.6 18 Sa 04:40 PM 1.7 52 10:12 PM 0.5 15																																																																																										

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

Referenced to Station: Galveston Pier 21 (8771450) Time offset in mins (high: -39 low: -65) Height offset in feet (high: *1.43 low: *1.43)



StationId: TEC4507
 Source: NOAA/NOS/CO-OPS
 Station Type: Subordinate
 Time Zone: LST_LDT
 Datum: MLLW

Galveston Bay entrance, south jetty, ,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	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 05:21 AM 2.1 64	11:08 AM 0.9 27	16 05:11 AM 2.2 67	10:25 AM 1.3 40	1 06:33 AM 2.4 73	12:06 PM 1.7 52	16 06:20 AM 2.5 76	11:16 AM 1.9 58	1 07:53 AM 2.2 67	11:28 PM -0.2 -6	16 08:03 AM 2.3 70	12:58 PM 1.8 55		
Su 05:00 PM 1.7 52	10:49 PM 0.4 12	M 03:59 PM 1.8 55	10:07 PM 0.2 6	Tu 03:46 PM 1.8 55	10:50 PM 0.0 0	W 02:42 PM 2.0 61	10:29 PM -0.5 -15	F		Sa 03:30 PM 1.9 58			
2 06:23 AM 2.1 64	11:56 AM 1.2 37	17 06:10 AM 2.3 70	11:10 AM 1.5 46	2 07:23 AM 2.4 73	01:17 PM 1.8 55	17 07:17 AM 2.6 79	12:13 PM 2.0 61	2 08:38 AM 2.1 64		17 12:01 AM -0.7 -21	08:54 AM 2.2 67		
M 05:18 PM 1.6 49	11:27 PM 0.2 6	Tu 04:07 PM 1.8 55	10:48 PM 0.0 0	W 03:28 PM 1.9 58	11:24 PM 0.1 3	Th 02:53 PM 2.0 61	11:17 PM -0.5 -15	Sa		Su			
3 07:26 AM 2.1 64	12:48 PM 1.4 43	18 07:12 AM 2.4 73	11:59 AM 1.7 52	3 08:15 AM 2.3 70		18 08:16 AM 2.5 76		3 12:06 AM 0.0 0	09:24 AM 2.0 61	18 12:59 AM -0.3 -9	09:41 AM 2.0 61		
Tu 05:29 PM 1.6 49		W 04:11 PM 1.9 58	11:33 PM -0.1 -3	Th		F		Su		M 04:09 PM 1.4 43	06:54 PM 1.4 43		
4 12:06 AM 0.2 6	08:32 AM 2.1 64	19 08:18 AM 2.4 73	12:57 PM 1.9 58	4 12:01 AM 0.1 3	09:09 AM 2.3 70	19 12:10 AM -0.4 -12	09:18 AM 2.4 73	4 12:47 AM 0.1 3	10:10 AM 2.0 61	19 02:01 AM 0.0 0	10:23 AM 1.9 58		
W 02:06 PM 1.6 49	05:21 PM 1.6 49	Th 04:07 PM 2.0 61		F		Sa		M		Tu 05:00 PM 1.1 34	09:19 PM 1.3 40		
5 12:48 AM 0.2 6	09:42 AM 2.0 61	20 12:25 AM -0.2 -6	09:29 AM 2.4 73	5 12:43 AM 0.2 6	10:07 AM 2.2 67	20 01:09 AM -0.2 -6	10:18 AM 2.3 70	5 01:32 AM 0.3 9	10:50 AM 1.9 58	20 03:13 AM 0.4 12	10:58 AM 1.8 55		
Th		F		Sa		Su		Tu		W 05:43 PM 0.7 21	11:30 PM 1.3 40		
6 01:36 AM 0.2 6	10:57 AM 2.0 61	21 01:23 AM -0.1 -3	10:43 AM 2.4 73	6 01:31 AM 0.3 9	11:06 AM 2.1 64	21 02:15 AM 0.0 0	11:12 AM 2.2 67	6 02:22 AM 0.5 15	11:23 AM 1.9 58	21 04:41 AM 0.8 24	11:28 AM 1.7 52		
F		Sa		Su		M		W 07:23 PM 1.1 34	10:14 PM 1.2 37	Th 06:23 PM 0.3 9			
7 02:32 AM 0.3 9	12:12 PM 2.0 61	22 02:31 AM 0.0 0	11:52 AM 2.3 70	7 02:26 AM 0.5 15	11:57 AM 2.1 64	22 03:31 AM 0.3 9	11:56 AM 2.1 64	7 03:21 AM 0.7 21	11:48 AM 1.8 55	22 01:23 AM 1.5 46	06:18 AM 1.1 34		
Sa		Su		M		Tu 06:31 PM 1.3 40	10:48 PM 1.5 46	Th 06:45 PM 0.9 27		F 11:53 AM 1.6 49	07:00 PM 0.0 0		
8 03:39 AM 0.4 12	01:12 PM 2.0 61	23 03:49 AM 0.2 6	12:47 PM 2.2 67	8 03:30 AM 0.6 18	12:36 PM 2.0 61	23 04:57 AM 0.6 18	12:30 PM 2.0 61	8 12:19 AM 1.3 40	04:32 AM 1.0 30	23 02:49 AM 1.7 52	07:46 AM 1.3 40		
Su		M 07:27 PM 1.7 52	09:48 PM 1.7 52	Tu		W 06:57 PM 1.0 30		F		Sa 12:14 PM 1.6 49	07:33 PM -0.2 -6		
9 04:52 AM 0.4 12	01:52 PM 2.0 61	24 05:13 AM 0.3 9	01:28 PM 2.1 64	9 04:40 AM 0.7 21	01:05 PM 2.0 61	24 12:41 AM 1.6 49	06:22 AM 0.9 27	9 01:44 AM 1.5 46	05:52 AM 1.2 37	24 03:52 AM 1.9 58	09:02 AM 1.5 46		
M		Tu 07:25 PM 1.5 46	11:55 PM 1.8 55	W 07:47 PM 1.4 43		Th 12:58 PM 1.9 58	07:28 PM 0.6 18	Sa 12:20 PM 1.7 52	06:58 PM 0.3 9	Su 12:30 PM 1.6 49	08:04 PM -0.4 -12		
10 05:58 AM 0.5 15	02:20 PM 1.9 58	25 06:31 AM 0.5 15	02:00 PM 2.1 64	10 12:09 AM 1.5 46	05:49 AM 0.9 27	25 02:10 AM 1.8 55	07:37 AM 1.2 37	10 02:49 AM 1.8 55	07:12 AM 1.4 43	25 04:40 AM 2.0 61	10:08 AM 1.6 49		
Tu 08:24 PM 1.5 46		W 07:47 PM 1.2 37		Th 01:27 PM 1.9 58	07:34 PM 1.1 34	F 01:21 PM 1.8 55	07:58 PM 0.3 9	Su 12:30 PM 1.7 52	07:26 PM -0.1 -3	M 12:41 PM 1.6 49	08:32 PM -0.5 -15		
11 12:05 AM 1.6 49	06:54 AM 0.5 15	26 01:27 AM 1.9 58	07:39 AM 0.7 21	11 01:30 AM 1.7 52	06:51 AM 1.0 30	26 03:22 AM 2.0 61	08:44 AM 1.4 43	11 03:45 AM 2.0 61	08:23 AM 1.6 49	26 05:18 AM 2.0 61	09:00 PM -0.5 -15		
W 02:43 PM 1.9 58	08:13 PM 1.4 43	Th 02:26 PM 2.0 61	08:16 PM 0.9 27	F 01:45 PM 1.9 58	07:41 PM 0.9 27	Sa 01:40 PM 1.8 55	08:27 PM 0.1 3	M 12:41 PM 1.7 52	08:02 PM -0.5 -15	Tu 09:00 PM -0.5 -15			
12 01:17 AM 1.7 52	07:40 AM 0.6 18	27 02:42 AM 2.0 61	08:39 AM 0.9 27	12 02:36 AM 1.9 58	07:48 AM 1.2 37	27 04:20 AM 2.1 64	09:44 AM 1.5 46	12 04:36 AM 2.2 67	09:23 AM 1.7 52	27 05:51 AM 2.0 61	09:28 PM -0.5 -15		
Th 03:02 PM 1.9 58	08:16 PM 1.2 37	F 02:49 PM 1.9 58	08:46 PM 0.7 21	Sa 01:59 PM 1.8 55	08:01 PM 0.5 15	Su 01:55 PM 1.8 55	08:55 PM -0.1 -3	Tu 12:57 PM 1.8 55	08:43 PM -0.7 -21	W			
13 02:20 AM 1.8 55	08:22 AM 0.7 21	28 03:48 AM 2.2 67	09:33 AM 1.2 37	13 03:35 AM 2.1 64	08:41 AM 1.4 43	28 05:09 AM 2.2 67	10:41 AM 1.7 52	13 05:27 AM 2.4 73	10:14 AM 1.8 55	28 06:21 AM 2.0 61	09:58 PM -0.5 -15		
F 03:19 PM 1.8 55	08:34 PM 1.0 30	Sa 03:09 PM 1.9 58	09:17 PM 0.4 12	Su 02:11 PM 1.8 55	08:30 PM 0.2 6	M 02:06 PM 1.8 55	09:23 PM -0.2 -6	W 01:22 PM 1.9 58	09:28 PM -0.9 -27	Th			
14 03:18 AM 2.0 61	09:02 AM 0.9 27	29 04:47 AM 2.3 70	10:23 AM 1.4 43	14 04:30 AM 2.3 70	09:33 AM 1.6 49	29 05:52 AM 2.3 70	11:37 AM 1.8 55	14 06:18 AM 2.4 73	11:01 AM 1.9 58	29 06:53 AM 2.0 61	10:30 PM -0.4 -12		
Sa 03:35 PM 1.8 55	09:00 PM 0.8 24	Su 03:26 PM 1.9 58	09:47 PM 0.2 6	M 02:21 PM 1.9 58	09:05 PM -0.1 -3	Tu 02:09 PM 1.8 55	09:50 PM -0.3 -9	Th 01:57 PM 2.0 61	10:16 PM -1.0 -30	F			
15 04:14 AM 2.1 64	09:43 AM 1.1 34	30 05:41 AM 2.3 70	11:13 AM 1.6 49	15 05:25 AM 2.4 73	10:24 AM 1.7 52	30 06:32 AM 2.3 70	10:20 PM -0.3 -9	15 07:10 AM 2.4 73	11:51 AM 1.9 58	30 07:26 AM 1.9 58	11:04 PM -0.3 -9		
Su 03:48 PM 1.8 55	09:31 PM 0.5 15	M 03:39 PM 1.8 55	10:18 PM 0.1 3	Tu 02:31 PM 1.9 58	09:45 PM -0.3 -9	W		F 02:40 PM 1.9 58	11:07 PM -0.9 -27	Sa			
		O 10:18 PM 0.1 3		● 09:45 PM -0.3 -9		31 07:12 AM 2.2 67	10:53 PM -0.2 -6						
						Th							

Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.
 Referenced to Station: Galveston Pier 21 (8771450) Time offset in mins (high: -39 low: -65) Height offset in feet (high: *1.43 low: *1.43)



Galveston Bay entrance, south jetty, ,2018

Times and Heights of High and Low Waters

July				August				September																																																																																	
Time	Height	Time	Height	Time	Height	Time	Height	Time	Height	Time	Height																																																																														
h m	ft	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft																																																																														
1 08:02 AM 1.9 58 Su 11:38 PM -0.2 -6	16 08:13 AM 1.9 58 M 06:04 PM 1.5 46	1 08:07 AM 1.7 52 W 06:37 PM 1.2 37	16 01:34 AM 1.0 30 Th 08:13 AM 1.8 55 02:45 PM 0.5 15 10:10 PM 1.7 52	1 12:43 AM 1.5 46 Su 06:54 AM 1.9 58 02:01 PM 0.6 18 10:47 PM 1.9 58	16 03:39 PM 0.5 15	2 08:39 AM 1.8 55	17 12:48 AM -0.1 -3 Tu 08:50 AM 1.8 55 02:42 PM 1.0 30 07:52 PM 1.3 40	2 12:20 AM 0.5 15 Th 08:27 AM 1.7 52 02:24 PM 0.9 27 08:42 PM 1.2 37	17 02:55 AM 1.4 43 F 08:39 AM 1.7 52 03:49 PM 0.3 9	2 01:33 AM 1.8 55 Su 06:39 AM 2.0 61 02:59 PM 0.3 9	17 01:17 AM 2.4 73 M 04:43 PM 0.5 15	3 12:13 AM 0.0 0 Tu 09:13 AM 1.8 55	18 01:46 AM 0.3 9 W 09:24 AM 1.7 52 03:53 PM 0.6 18 09:54 PM 1.3 40	3 12:58 AM 0.8 24 F 08:42 AM 1.6 49 03:10 PM 0.6 18 10:45 PM 1.3 40	18 12:08 AM 1.8 55 Sa 05:14 AM 1.6 49 09:02 AM 1.7 52 04:47 PM 0.2 6	3 12:22 AM 2.1 64 M 02:49 AM 2.1 64 06:18 AM 2.1 64 04:02 PM 0.2 6	18 02:17 AM 2.4 73 Tu 05:43 PM 0.5 15	4 12:51 AM 0.2 6 W 09:44 AM 1.7 52	19 02:57 AM 0.8 24 Th 09:54 AM 1.6 49 04:51 PM 0.3 9	4 01:45 AM 1.2 37 Sa 08:49 AM 1.6 49 03:57 PM 0.3 9	19 01:51 AM 2.0 61 Su 05:40 PM 0.1 3	4 01:35 AM 2.3 70 Tu 05:07 PM 0.0 0	19 02:53 AM 2.4 73 W 06:35 PM 0.6 18	5 01:32 AM 0.5 15 Th 10:08 AM 1.6 49 05:17 PM 0.8 24 10:33 PM 1.0 30	20 12:00 AM 1.4 43 F 04:38 AM 1.1 34 10:21 AM 1.6 49 05:41 PM 0.0 0	5 12:32 AM 1.5 46 Su 02:51 AM 1.5 46 08:48 AM 1.7 52 04:46 PM 0.0 0	20 02:57 AM 2.1 64 M 06:27 PM 0.0 0	5 02:27 AM 2.4 73 W 06:11 PM -0.1 -3	20 03:16 AM 2.4 73 Th 09:01 AM 2.1 64 11:46 AM 2.1 64 07:19 PM 0.6 18	6 02:21 AM 0.8 24 F 10:26 AM 1.6 49 05:17 PM 0.5 15	21 01:52 AM 1.6 49 Sa 06:35 AM 1.4 43 10:45 AM 1.6 49 06:24 PM -0.2 -6	6 01:51 AM 1.8 55 M 04:36 AM 1.7 52 08:47 AM 1.8 55 05:37 PM -0.3 -9	21 03:41 AM 2.2 67 Tu 07:10 PM 0.0 0	6 03:08 AM 2.5 76 Th 07:41 AM 2.2 67 11:14 AM 2.3 70 07:11 PM -0.1 -3	21 03:34 AM 2.3 70 F 08:54 AM 2.0 61 12:53 PM 2.1 64 07:57 PM 0.7 21	7 12:29 AM 1.2 37 Sa 03:28 AM 1.1 34 10:38 AM 1.5 46 05:41 PM 0.1 3	22 03:09 AM 1.8 55 Su 08:11 AM 1.5 46 11:05 AM 1.6 49 07:03 PM -0.4 -12	7 02:47 AM 2.0 61 Tu 06:47 AM 1.9 58 09:20 AM 1.9 58 06:29 PM -0.6 -18	22 04:11 AM 2.1 64 W 07:48 PM 0.0 0	7 03:43 AM 2.4 73 F 08:04 AM 2.1 64 12:47 PM 2.3 70 08:08 PM -0.1 -3	22 03:50 AM 2.3 70 Sa 08:52 AM 1.9 58 01:52 PM 2.2 67 08:30 PM 0.8 24	8 01:53 AM 1.5 46 Su 05:00 AM 1.3 40 10:46 AM 1.6 49 06:14 PM -0.2 -6	23 04:01 AM 1.9 58 M 07:38 PM -0.4 -12	8 03:34 AM 2.2 67 W 07:48 AM 1.9 58 10:50 AM 2.0 61 07:22 PM -0.7 -21	23 04:32 AM 2.1 64 Th 09:39 AM 1.9 58 12:36 PM 1.9 58 08:22 PM 0.0 0	8 04:15 AM 2.4 73 Sa 08:41 AM 1.9 58 02:06 PM 2.4 73 09:02 PM 0.1 3	23 04:06 AM 2.3 70 Su 08:54 AM 1.7 52 02:47 PM 2.2 67 09:01 PM 0.9 27	9 02:54 AM 1.8 55 M 06:44 AM 1.6 49 10:56 AM 1.6 49 06:54 PM -0.6 -18	24 04:40 AM 2.0 61 Tu 08:10 PM -0.5 -15	9 04:16 AM 2.2 67 Th 08:21 AM 1.9 58 12:15 PM 2.0 61 08:16 PM -0.8 -24	24 04:50 AM 2.1 64 F 09:27 AM 1.8 55 01:29 PM 1.9 58 08:53 PM 0.1 3	9 04:45 AM 2.3 70 Su 09:24 AM 1.6 49 03:20 PM 2.4 73 09:53 PM 0.4 12	24 04:23 AM 2.3 70 M 08:52 AM 1.6 49 03:41 PM 2.2 67 09:32 PM 1.0 30	10 03:45 AM 2.0 61 Tu 08:06 AM 1.7 52 11:22 AM 1.8 55 07:39 PM -0.9 -27	25 05:08 AM 2.0 61 W 08:41 PM -0.5 -15	10 04:56 AM 2.2 67 F 08:58 AM 1.9 58 01:31 PM 2.1 64 09:09 PM -0.7 -21	25 05:08 AM 2.0 61 Sa 09:28 AM 1.7 52 02:19 PM 1.9 58 09:23 PM 0.2 6	10 05:13 AM 2.2 67 M 10:11 AM 1.4 43 04:33 PM 2.4 73 10:43 PM 0.7 21	25 04:40 AM 2.3 70 Tu 09:53 AM 1.4 43 04:37 PM 2.3 70 10:04 PM 1.2 37	11 04:32 AM 2.2 67 W 08:57 AM 1.8 55 12:09 PM 1.8 55 08:27 PM -1.0 -30	26 05:32 AM 1.9 58 Th 10:38 AM 1.7 52 01:01 PM 1.7 52 09:11 PM -0.4 -12	11 05:34 AM 2.2 67 Sa 09:42 AM 1.7 52 02:44 PM 2.1 64 10:01 PM -0.5 -15	26 05:28 AM 2.0 61 Su 09:51 AM 1.6 49 03:09 PM 1.9 58 09:52 PM 0.3 9	11 05:40 AM 2.2 67 Tu 10:59 AM 1.1 34 05:47 PM 2.3 70 11:34 PM 1.1 34	26 04:55 AM 2.2 67 W 10:25 AM 1.1 34 05:37 PM 2.3 70 10:38 PM 1.5 46	12 05:19 AM 2.2 67 Th 09:36 AM 1.8 55 01:07 PM 1.9 58 09:16 PM -1.1 -34	27 05:55 AM 1.9 58 F 10:18 AM 1.7 52 01:45 PM 1.7 52 09:41 PM -0.4 -12	12 06:10 AM 2.1 64 Su 10:32 AM 1.5 46 03:58 PM 2.0 61 10:52 PM -0.2 -6	27 05:49 AM 2.0 61 M 10:24 AM 1.5 46 04:01 PM 1.9 58 10:22 PM 0.5 15	12 06:05 AM 2.1 64 W 11:50 AM 0.9 27 07:06 PM 2.3 70	27 05:07 AM 2.2 67 Th 11:00 AM 0.9 27 06:41 PM 2.3 70 11:15 PM 1.7 52	13 06:05 AM 2.2 67 F 10:17 AM 1.8 55 02:10 PM 1.9 58 10:08 PM -1.0 -30	28 06:19 AM 1.9 58 Sa 10:27 AM 1.6 49 02:26 PM 1.7 52 10:11 PM -0.3 -9	13 06:43 AM 2.0 61 M 11:30 AM 1.3 40 05:16 PM 1.9 58 11:43 PM 0.1 3	28 06:11 AM 2.0 61 Tu 11:02 AM 1.3 40 05:00 PM 1.8 55 10:53 PM 0.7 21	13 12:27 AM 1.4 43 Th 06:28 AM 2.1 64 12:42 PM 0.7 21 08:31 PM 2.3 70	28 05:12 AM 2.2 67 F 11:40 AM 0.7 21 07:53 PM 2.4 73 11:56 PM 2.0 61	14 06:49 AM 2.1 64 Sa 11:06 AM 1.7 52 03:18 PM 1.9 58 11:00 PM -0.8 -24	29 06:46 AM 1.8 55 Su 11:00 AM 1.5 46 03:06 PM 1.6 49 10:42 PM -0.1 -3	14 07:15 AM 1.9 58 Tu 12:32 PM 1.0 30 06:43 PM 1.8 55	29 06:30 AM 2.0 61 W 11:41 AM 1.2 37 06:10 PM 1.8 55 11:26 PM 0.9 27	14 01:32 AM 1.8 55 F 06:47 AM 2.1 64 01:38 PM 0.6 18 10:05 PM 2.3 70	29 05:08 AM 2.3 70 Sa 12:25 PM 0.6 18 09:13 PM 2.4 73	15 07:32 AM 2.0 61 Su 12:07 PM 1.5 46 04:33 PM 1.7 52 11:53 PM -0.5 -15	30 07:14 AM 1.8 55 M 11:47 AM 1.4 43 03:51 PM 1.5 46 11:13 PM 0.0 0	15 12:36 AM 0.6 18 W 07:45 AM 1.8 55 01:39 PM 0.8 24 08:20 PM 1.7 52	30 06:46 AM 1.9 58 Th 12:23 PM 1.0 30 07:32 PM 1.7 52	15 03:42 AM 2.0 61 Sa 06:53 AM 2.0 61 02:36 PM 0.5 15 11:46 PM 2.4 73	30 12:43 AM 2.2 67 Su 04:54 AM 2.3 70 01:18 PM 0.5 15 10:39 PM 2.5 76

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

Referenced to Station: Galveston Pier 21 (8771450) Time offset in mins (high: -39 low: -65) Height offset in feet (high: *1.43 low: *1.43)



Galveston Bay entrance, south jetty, ,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	h m	ft	h m	ft	h m	ft	h m	ft	h m	ft
1 01:45 AM	2.4	16 12:20 AM	2.5	1 12:25 AM	2.5	16 03:29 PM	0.8	1 05:35 AM	1.0	16 05:53 AM	0.6
04:35 AM	2.4	03:31 PM	0.8	04:27 PM	0.5	11:55 PM	2.1	10:56 AM	1.4	11:04 AM	1.0
M 02:20 PM	0.4	Tu		Th		F		Sa 04:37 PM	0.7	Su 03:13 PM	0.7
	12	o						11:34 PM	1.8	10:58 PM	1.4
2 12:02 AM	2.6	17 01:14 AM	2.5	2 01:03 AM	2.4	17 06:52 AM	1.4	2 06:05 AM	0.6	17 05:48 AM	0.4
03:30 PM	0.4	04:41 PM	0.8	07:15 AM	1.8	10:58 AM	1.5	12:36 PM	1.6	12:34 PM	1.1
Tu		W		F		Sa 04:35 PM	0.9	Su 05:57 PM	1.0	M 04:33 PM	0.9
o				06:56 PM	0.7	27		11:59 PM	1.8	11:12 PM	1.4
3 01:06 AM	2.6	18 01:46 AM	2.5	3 01:33 AM	2.4	18 12:14 AM	2.0	3 06:38 AM	0.2	18 05:59 AM	0.0
04:45 PM	0.4	05:45 PM	0.9	07:27 AM	1.5	06:44 AM	1.1	01:54 PM	1.8	01:39 PM	1.4
W		Th		Sa 12:49 PM	2.1	Su 12:22 PM	1.7	M 07:06 PM	1.2	Tu 05:50 PM	1.1
				06:57 PM	0.9	34		37		11:24 PM	1.4
4 01:51 AM	2.6	19 02:08 AM	2.4	4 01:59 AM	2.3	19 12:31 AM	2.0	4 12:21 AM	1.7	19 06:21 AM	-0.3
05:57 PM	0.4	08:29 AM	1.9	06:54 AM	1.2	06:47 AM	0.9	07:10 AM	-0.1	02:33 PM	1.6
Th		F		Su 01:12 PM	2.2	M 01:29 PM	1.8	Tu 02:57 PM	1.9	W 06:53 PM	1.2
		06:37 PM	1.0	01:12 PM	1.1	55		08:06 PM	1.4	11:36 PM	1.4
5 02:26 AM	2.6	20 02:26 AM	2.4	5 01:21 AM	2.2	20 12:44 AM	1.9	5 12:40 AM	1.7	20 06:52 AM	-0.7
07:39 AM	2.1	08:22 AM	1.8	07:25 AM	0.8	07:01 AM	0.6	07:42 AM	-0.3	03:21 PM	1.8
F		Sa 01:08 PM	2.1	M 02:23 PM	2.3	Tu 02:26 PM	2.0	W 03:50 PM	2.0	Th 07:42 PM	1.4
07:03 PM	0.5	07:21 PM	1.1	07:55 PM	1.4	07:13 PM	1.4	08:59 PM	1.5	11:53 PM	1.5
6 02:55 AM	2.5	21 02:42 AM	2.3	6 01:42 AM	2.2	21 12:56 AM	1.9	6 12:57 AM	1.7	21 07:29 AM	-0.9
08:01 AM	1.9	08:24 AM	1.6	07:58 AM	0.5	07:24 AM	0.2	08:13 AM	-0.5	04:08 PM	1.9
Sa 01:29 PM	2.4	Su 02:12 PM	2.2	Tu 03:26 PM	2.5	W 03:18 PM	2.2	Th 04:36 PM	2.1	F 08:21 PM	1.5
08:02 PM	0.7	08:00 PM	1.2	08:47 PM	1.6	67		09:46 PM	1.6	49	
7 03:21 AM	2.5	22 02:58 AM	2.3	7 02:01 AM	2.2	22 01:06 AM	1.9	7 01:11 AM	1.7	22 12:19 AM	1.6
08:34 AM	1.6	08:36 AM	1.3	08:32 AM	0.3	07:54 AM	-0.1	08:43 AM	-0.6	08:11 AM	-1.1
Su 01:25 PM	2.5	M 03:09 PM	2.3	W 04:24 PM	2.5	Th 04:09 PM	2.3	F 05:20 PM	2.1	Sa 04:56 PM	1.9
08:56 PM	0.9	08:36 PM	1.3	09:37 PM	1.8	55		10:24 PM	1.7	o 08:56 PM	1.5
8 03:46 AM	2.4	23 03:12 AM	2.3	8 02:17 AM	2.1	23 01:15 AM	2.0	8 01:19 AM	1.7	23 12:55 AM	1.7
09:12 AM	1.3	08:56 AM	1.1	09:06 AM	0.1	08:29 AM	-0.3	09:15 AM	-0.6	08:57 AM	-1.2
M 03:55 PM	2.6	Tu 04:05 PM	2.4	Th 05:19 PM	2.5	F 05:01 PM	2.4	Sa 06:02 PM	2.0	Su 05:45 PM	1.9
09:47 PM	1.2	09:13 PM	1.5	10:28 PM	2.0	73		10:53 PM	1.7	58	
9 04:08 AM	2.3	24 03:24 AM	2.2	9 02:27 AM	2.1	24 01:26 AM	2.0	9 01:15 AM	1.7	24 01:39 AM	1.7
09:51 AM	1.0	09:23 AM	0.8	09:40 AM	0.1	09:10 AM	-0.5	09:48 AM	-0.5	09:45 AM	-1.2
Tu 05:02 PM	2.6	W 04:59 PM	2.5	06:14 PM	2.5	Sa 05:55 PM	2.4	Su 06:45 PM	1.9	M 06:36 PM	1.8
o 10:37 PM	1.5	09:50 PM	1.7	11:27 PM	2.1	73		58		10:21 PM	1.5
10 04:29 AM	2.3	25 03:34 AM	2.2	10 02:20 AM	2.1	25 01:42 AM	2.1	10 10:23 AM	-0.4	25 02:28 AM	1.6
10:31 AM	0.7	09:54 AM	0.6	10:16 AM	0.1	09:55 AM	-0.6	07:30 PM	1.8	10:36 AM	-1.1
W 06:08 PM	2.6	Th 05:55 PM	2.5	Sa 07:09 PM	2.5	Su 06:53 PM	2.4	M		Tu 07:26 PM	1.7
11:27 PM	1.8	10:30 PM	1.9	76		10:46 PM	2.0			11:25 PM	1.4
11 04:47 AM	2.3	26 03:39 AM	2.3	11 10:54 AM	0.1	26 02:02 AM	2.1	11 11:00 AM	-0.3	26 03:28 AM	1.5
11:12 AM	0.6	10:30 AM	0.4	08:08 PM	2.4	10:44 AM	-0.5	08:18 PM	1.8	11:31 AM	-0.8
Th 07:16 PM	2.6	F 06:54 PM	2.6	Su		11:49 PM	2.0	Tu		W 08:12 PM	1.6
		11:11 PM	2.1	79		61				49	
12 12:24 AM	2.0	27 03:40 AM	2.3	12 11:36 AM	0.2	27 02:16 AM	2.1	12 11:39 AM	-0.2	27 01:06 AM	1.2
04:59 AM	2.3	11:12 AM	0.2	09:12 PM	2.3	11:39 AM	-0.4	09:03 PM	1.7	04:58 AM	1.2
F		Sa 07:58 PM	2.6	M		Tu 08:56 PM	2.2	W		Th 12:29 PM	-0.4
11:54 AM	0.5	11:56 PM	2.3	70		67				08:54 PM	1.5
08:26 PM	2.6	70		13 12:23 PM	0.4	28 12:40 PM	-0.2	13 12:22 PM	0.0	28 02:57 AM	0.8
13 01:55 AM	2.2	28 03:37 AM	2.4	13 10:12 PM	2.2	09:50 PM	2.1	09:42 PM	1.6	07:15 AM	1.0
04:45 AM	2.2	11:59 AM	0.1	Tu		64		Th		F 01:35 PM	0.0
Sa 12:38 PM	0.5	Su 09:09 PM	2.6	67						09:31 PM	1.4
09:41 PM	2.6	79		14 01:18 PM	0.5	29 01:50 PM	0.1	14 01:09 PM	0.2	29 04:03 AM	0.5
14 01:28 PM	0.6	29 12:51 AM	2.4	14 10:59 PM	2.2	10:32 PM	2.0	10:14 PM	1.6	09:35 AM	0.9
11:03 PM	2.6	03:31 AM	2.4	W		Th		F		Sa 02:57 PM	0.3
Su		12:53 PM	0.1	3		61				o 10:03 PM	1.3
15 02:25 PM	0.7	10:23 PM	2.6	15 02:21 PM	0.7	30 05:17 AM	1.3	15 06:30 AM	0.9	30 04:52 AM	0.1
M		79		21		08:42 AM	1.4	08:45 AM	0.9	11:38 AM	1.1
		30 01:56 PM	0.2	64		03:11 PM	0.4	Sa 02:04 PM	0.5	Su 04:39 PM	0.7
		11:32 PM	2.6	79		11:06 PM	1.9	o 10:38 PM	1.5	10:32 PM	1.3
		31 03:08 PM	0.4	12						31 05:35 AM	-0.3
		W		64						01:15 PM	1.3
		o								M 06:12 PM	0.9
										10:55 PM	1.2
										37	

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

Referenced to Station: Galveston Pier 21 (8771450) Time offset in mins (high: -39 low: -65) Height offset in feet (high: *1.43 low: *1.43)