



NOAA Tide Predictions

Point Grenville, WA,2023

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.



StationId: 9441627
 Source: NOAA/NOS/CO-OPS
 Station Type: Subordinate
 Time Zone: LST_LDT
 Datum: MLLW

NOAA Tide Predictions

Point Grenville, WA, 2023
 (47 18.2N / 124 16.2W)

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 01:15 AM 07:53 AM 02:53 PM 09:13 PM	2.8 85 8.8 268 1.0 30 6.2 189	16 M 06:43 AM 01:51 PM 08:14 PM	8.5 259 1.5 46 5.9 180	1 W 02:49 AM 08:57 AM 04:14 PM 11:08 PM	4.4 134 8.4 256 0.6 18 6.6 201	16 Th 01:56 AM 08:09 AM 03:33 PM 10:25 PM	4.3 131 8.8 268 -0.1 -3 6.6 201	1 W 01:07 AM 07:21 AM 02:47 PM 09:50 PM	4.5 137 7.6 232 1.2 37 6.1 186	16 Th 01:19 AM 07:33 AM 03:03 PM 10:03 PM	4.3 131 8.0 244 0.4 12 6.2 189
2 M 02:14 AM 08:40 AM 03:47 PM 10:23 PM	3.4 104 9.0 274 0.5 15 6.4 195	17 Tu 01:03 AM 07:36 AM 02:54 PM 09:33 PM	3.8 116 8.8 268 0.7 21 6.2 189	2 Th 03:51 AM 09:50 AM 04:58 PM 11:49 PM	4.3 131 8.5 259 0.3 9 6.9 210	17 F 03:15 AM 09:19 AM 04:29 PM 11:15 PM	4.0 122 9.2 280 -0.7 -21 7.2 219	2 Th 02:30 AM 08:30 AM 03:45 PM 10:40 PM	4.4 134 7.6 232 1.0 30 6.4 195	17 F 02:54 AM 08:58 AM 04:10 PM 11:01 PM	4.1 125 8.1 247 0.0 0 6.7 204
3 Tu 03:12 AM 09:26 AM 04:34 PM 11:18 PM	3.8 116 9.0 274 0.1 3 6.7 204	18 W 02:16 AM 08:34 AM 03:52 PM 10:38 PM	4.1 125 9.2 280 -0.1 -3 6.7 204	3 F 04:42 AM 10:37 AM 05:37 PM	4.0 122 8.6 262 0.1 3	18 Sa 04:20 AM 10:21 AM 05:18 PM 11:58 PM	3.4 104 9.6 293 -1.2 -37 7.7 235	3 F 03:36 AM 09:31 AM 04:31 PM 11:16 PM	4.0 122 7.8 238 0.6 18 6.7 204	18 Sa 04:12 AM 10:12 AM 05:06 PM 11:47 PM	3.4 104 8.4 256 -0.5 -15 7.3 223
4 W 04:06 AM 10:09 AM 05:16 PM	4.0 122 9.1 277 -0.1 -3	19 Th 03:25 AM 09:31 AM 04:46 PM 11:33 PM	4.1 125 9.7 296 -0.9 -27 7.2 219	4 Sa 12:22 AM 05:25 AM 11:20 AM 06:12 PM	7.1 216 3.7 113 8.7 265 -0.1 -3	19 Su 05:16 AM 11:18 AM 06:04 PM	2.7 82 9.8 299 -1.5 -46	4 Sa 04:26 AM 10:22 AM 05:09 PM 11:46 PM	3.5 107 8.0 244 0.4 12 7.0 213	19 Su 05:15 AM 11:16 AM 05:54 PM	2.5 76 8.7 265 -0.7 -21
5 Th 12:03 AM 04:54 AM 10:51 AM 05:54 PM	7.0 213 4.1 125 9.1 277 -0.3 -9	20 F 04:27 AM 10:28 AM 05:35 PM	3.9 119 10.0 305 -1.5 -46	5 Su 12:52 AM 06:03 AM 11:59 AM 06:44 PM	7.3 223 3.4 104 8.7 265 -0.2 -6	20 M 12:38 AM 06:08 AM 12:10 PM 06:46 PM	8.2 250 1.9 58 9.8 299 -1.4 -43	5 Su 05:07 AM 11:06 AM 05:43 PM	3.0 91 8.2 250 0.2 6	20 M 12:26 AM 06:08 AM 12:12 PM 06:38 PM	7.9 241 1.5 46 8.9 271 -0.7 -21
6 F 12:41 AM 05:37 AM 11:30 AM 06:31 PM	7.2 219 4.0 122 9.0 274 -0.3 -9	21 Sa 12:20 AM 05:23 AM 11:22 AM 06:23 PM	7.6 232 3.4 104 10.3 314 -1.8 -55	6 M 01:21 AM 06:40 AM 12:35 PM 07:14 PM	7.4 226 3.1 94 8.6 262 -0.1 -3	21 Tu 01:16 AM 06:58 AM 01:01 PM 07:26 PM	8.6 262 1.3 40 9.5 290 -1.0 -30	6 M 12:14 AM 05:45 AM 11:45 AM 06:13 PM	7.3 223 2.5 76 8.3 253 0.1 3	21 Tu 01:03 AM 06:57 AM 01:04 PM 07:18 PM	8.5 259 0.7 21 8.9 271 -0.5 -15
7 Sa 01:16 AM 06:17 AM 12:08 PM 07:05 PM	7.3 223 3.9 119 8.9 271 -0.3 -9	22 Su 01:05 AM 06:16 AM 12:15 PM 07:08 PM	7.9 241 3.0 91 10.3 314 -1.8 -55	7 Tu 01:49 AM 07:16 AM 01:10 PM 07:43 PM	7.6 232 2.8 85 8.4 256 0.1 3	22 W 01:53 AM 07:46 AM 01:51 PM 08:05 PM	8.9 271 0.9 27 9.0 274 -0.3 -9	7 Tu 12:40 AM 06:21 AM 12:22 PM 06:42 PM	7.6 232 2.0 61 8.2 250 0.2 6	22 W 01:38 AM 07:44 AM 01:53 PM 07:56 PM	8.9 271 0.1 3 8.7 265 0.0 0
8 Su 01:50 AM 06:54 AM 12:45 PM 07:38 PM	7.3 223 3.8 116 8.8 268 -0.2 -6	23 M 01:47 AM 07:08 AM 11:07 PM 07:52 PM	8.2 250 2.6 79 10.0 305 -1.6 -49	8 W 02:16 AM 07:53 AM 01:46 PM 08:11 PM	7.7 235 2.6 79 8.1 247 0.4 12	23 Th 02:30 AM 08:35 AM 02:41 PM 08:43 PM	9.1 277 0.7 21 8.3 253 0.6 18	8 W 01:06 AM 06:56 AM 12:59 PM 07:09 PM	7.9 241 1.6 49 8.1 247 0.5 15	23 Th 02:13 AM 08:29 AM 02:42 PM 08:33 PM	9.2 280 -0.3 -9 8.3 253 0.7 21
9 M 02:23 AM 07:32 AM 01:21 PM 08:11 PM	7.3 223 3.7 113 8.5 259 0	24 Tu 02:29 AM 08:01 AM 01:59 PM 08:34 PM	8.4 256 2.2 67 9.5 290 -1.0 -30	9 Th 02:42 AM 08:31 AM 02:24 PM 08:39 PM	7.9 241 2.4 73 7.7 235 0.9 27	24 F 03:07 AM 09:26 AM 03:34 PM 09:21 PM	9.1 277 0.7 21 7.5 229 1.5 46	9 Th 01:30 AM 07:32 AM 01:36 PM 07:37 PM	8.1 247 1.3 40 7.8 238 0.9 27	24 F 02:47 AM 09:13 AM 03:30 PM 09:10 PM	9.2 280 -0.4 -12 7.8 238 1.5 46
10 Tu 02:55 AM 08:11 AM 01:57 PM 08:43 PM	7.3 223 3.6 110 8.2 250 6	25 W 03:11 AM 08:55 AM 02:52 PM 09:16 PM	8.6 262 2.0 61 8.7 265 -0.2 -6	10 F 03:09 AM 09:13 AM 03:06 PM 09:09 PM	8.1 247 2.2 67 7.2 219 1.5 46	25 Sa 03:45 AM 10:19 AM 04:33 PM 10:02 PM	8.9 271 0.9 27 6.7 204 2.5 76	10 F 01:55 AM 08:09 AM 02:15 PM 08:06 PM	8.4 256 1.0 30 7.5 229 1.5 46	25 Sa 03:21 AM 09:58 AM 04:20 PM 09:48 PM	9.1 277 -0.2 -6 7.2 219 2.4 73
11 W 03:28 AM 08:53 AM 02:36 PM 09:15 PM	7.4 226 3.5 107 7.7 235 1.8 64	26 Th 03:53 AM 09:52 AM 03:50 PM 09:58 PM	8.7 265 1.8 55 7.8 238 0.8 24	11 Sa 03:38 AM 10:00 AM 03:57 PM 09:42 PM	8.2 250 2.0 61 6.6 201 2.2 67	26 Su 04:27 AM 11:17 AM 05:41 PM 10:48 PM	8.6 262 1.1 34 6.1 186 3.4 104	11 Sa 02:20 AM 08:48 AM 02:59 PM 08:37 PM	8.5 259 0.8 24 7.1 216 2.1 64	26 Su 03:57 AM 10:44 AM 05:14 PM 10:28 PM	8.7 265 0.2 6 6.6 201 3.1 94
12 Th 04:02 AM 09:41 AM 03:20 PM 09:48 PM	7.5 229 3.3 101 7.2 219 1.1 34	27 F 04:36 AM 10:53 AM 04:53 PM 10:42 PM	8.8 268 1.7 52 6.9 210 1.8 55	12 Su 04:12 AM 10:55 AM 05:02 PM 10:20 PM	8.4 256 1.8 55 6.1 186 2.9 88	27 M 05:15 AM 12:23 PM 07:02 PM 11:47 PM	8.2 250 1.3 40 5.8 177 4.1 125	12 Su 03:49 AM 10:33 AM 04:51 PM 10:11 PM	8.6 262 0.8 24 6.6 201 2.8 85	27 M 04:36 AM 11:36 AM 06:17 PM 11:15 PM	8.2 250 0.6 18 6.1 186 3.8 116
13 F 04:36 AM 10:34 AM 04:15 PM 10:25 PM	7.7 235 3.1 94 6.6 201 1.8 55	28 Sa 05:21 AM 12:00 PM 06:06 PM 11:31 PM	8.7 265 1.6 49 6.2 189 2.8 85	13 M 04:54 AM 12:00 PM 06:24 PM 11:12 PM	8.4 256 1.6 49 5.8 177 3.7 113	28 Tu 06:13 AM 01:36 PM 08:34 PM	7.8 238 1.4 43 5.8 177	13 M 04:25 AM 11:26 AM 05:54 PM 10:53 PM	8.6 262 0.8 24 6.1 186 3.4 104	28 Tu 05:23 AM 12:36 PM 07:31 PM	7.7 235 1.1 34 5.8 177
14 Sa 05:13 AM 11:36 AM 05:24 PM 11:06 PM	7.9 241 2.7 82 6.1 186 2.5 76	29 Su 06:10 AM 01:10 PM 07:30 PM	8.6 262 1.5 46 5.9 180	14 Tu 05:48 AM 01:14 PM 07:56 PM	8.5 259 1.2 37 5.7 174	14 Tu 05:10 AM 12:30 PM 07:14 PM 11:52 PM	8.4 256 0.8 24 5.8 177 4.0 122	29 W 12:17 AM 06:24 AM 01:46 PM 08:52 PM	4.2 128 7.1 216 1.3 40 5.8 177	30 Th 01:40 AM 07:41 AM 02:58 PM 10:02 PM	4.4 134 6.8 207 1.4 43 6.0 183
15 Su 05:55 AM 12:43 PM 06:47 PM 11:58 PM	8.2 250 2.2 67 5.8 177 3.2 98	30 M 12:28 AM 07:03 AM 02:20 PM 08:59 PM	3.6 110 8.5 259 1.2 37 5.9 180	15 W 12:27 AM 06:56 AM 02:27 PM 09:20 PM	4.2 128 8.6 262 0.6 18 6.1 186	15 W 06:13 AM 01:46 PM 08:44 PM	8.2 250 0.8 24 5.8 177	30 Th 03:06 AM 08:58 AM 04:00 PM 10:51 PM	4.1 125 6.8 207 1.2 37 6.3 192	31 F 03:06 AM 08:58 AM 04:00 PM 10:51 PM	4.1 125 6.8 207 1.2 37 6.3 192

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: Toke Point (9440910) Time offset in mins (high: -37 low: -44) Height offset in feet (high: *0.92 low: *0.9)



Point Grenville, WA,2023
(47 18.2N / 124 16.2W)

Times and Heights of High and Low Waters

April				May				June			
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 04:12 AM 10:04 AM Sa 04:48 PM 11:27 PM	3.5 7.0 0.9 6.7	16 04:08 AM 10:06 AM Su 04:35 PM 11:10 PM	2.4 7.5 0.0 7.7	1 04:29 AM 10:25 AM M 04:31 PM 11:01 PM	2.2 6.3 1.2 7.2	16 04:55 AM 11:03 AM Tu 04:47 PM 11:08 PM	0.3 6.6 1.1 8.5	1 05:23 AM 11:45 AM Th 05:00 PM 11:11 PM	-0.1 6.0 2.3 8.4	16 06:13 AM 12:52 PM F 05:51 PM 11:53 PM	-1.3 6.2 2.8 8.6
2 05:02 AM 10:58 AM Su 05:27 PM 11:58 PM	2.9 7.2 0.7 7.1	17 05:07 AM 11:10 AM M 05:23 PM 11:48 PM	1.3 7.7 0.1 8.3	2 05:13 AM 11:17 AM Tu 05:10 PM 11:31 PM	1.4 6.5 1.3 7.7	17 05:44 AM 12:01 PM W 05:32 PM 11:46 PM	0.3 6.7 1.5 8.8	2 06:05 AM 12:37 PM F 05:45 PM 11:48 PM	-0.9 6.4 2.6 8.7	17 06:55 AM 01:38 PM Sa 06:37 PM	-1.5 6.4 2.9
3 05:44 AM 11:44 AM M 06:01 PM	2.2 7.4 0.7	18 05:58 AM 12:06 PM Tu 06:06 PM	0.4 7.8 0.3	3 05:53 AM 12:06 PM W 05:47 PM	0.5 6.7 1.5	18 06:29 AM 12:54 PM Th 06:16 PM	-1.1 6.8 1.9	3 06:48 AM 01:26 PM Sa 06:30 PM	-1.5 6.6 2.7	18 12:32 AM 07:34 AM Su 02:20 PM ● 07:20 PM	8.4 -1.5 6.4 3.0
4 12:26 AM 06:22 AM Tu 12:26 PM 06:33 PM	7.5 1.5 7.6 0.7	19 12:24 AM 06:44 AM W 12:58 PM 06:46 PM	8.8 -0.4 7.8 0.7	4 12:01 AM 06:32 AM Th 12:52 PM 06:23 PM	8.1 -0.2 6.9 1.8	19 12:22 AM 07:11 AM F 01:42 PM ● 06:57 PM	9.0 -1.5 6.9 2.3	4 12:28 AM 07:31 AM Su 02:14 PM ○ 07:16 PM	9.0 -2.0 6.7 2.9	19 01:11 AM 08:12 AM M 03:00 PM 08:01 PM	8.2 -1.4 6.4 3.1
5 12:52 AM 06:58 AM W 07:07 PM 07:04 PM	7.9 0.9 7.6 0.9	20 12:59 AM 07:28 AM Th 01:47 PM ● 07:25 PM	9.1 -0.9 7.7 1.3	5 12:30 AM 07:10 AM F 01:36 PM ○ 07:00 PM	8.5 -0.8 7.0 2.1	20 12:58 AM 07:51 AM Sa 02:28 PM ○ 07:38 PM	8.9 -1.5 6.9 2.7	5 01:10 AM 08:16 AM M 03:03 PM 08:03 PM	9.1 -2.2 6.8 2.9	20 01:50 AM 08:50 AM Tu 03:38 PM 08:41 PM	8.0 -1.2 6.4 3.1
6 01:18 AM 07:34 AM Th 01:47 PM ○ 07:34 PM	8.2 0.3 7.6 1.3	21 01:33 AM 08:09 AM F 02:34 PM 08:03 PM	9.2 -1.2 7.5 1.9	6 01:01 AM 07:49 AM Sa 02:21 PM ○ 07:37 PM	8.8 -1.2 7.0 2.5	21 01:33 AM 08:30 AM Su 03:12 PM ○ 08:18 PM	8.7 -1.4 6.7 3.0	6 01:55 AM 09:03 AM Tu 03:52 PM 08:54 PM	9.0 -2.2 6.7 2.9	21 02:28 AM 09:27 AM W 04:17 PM 09:23 PM	7.7 -0.9 6.3 3.1
7 01:43 AM 08:10 AM F 02:28 PM 08:05 PM	8.5 -0.1 7.4 1.8	22 02:07 AM 08:50 AM Sa 03:20 PM 08:41 PM	9.1 -1.1 7.2 2.5	7 01:34 AM 08:30 AM Su 03:08 PM 08:17 PM	9.0 -1.5 6.9 2.8	22 02:09 AM 09:09 AM M 03:55 PM 08:59 PM	8.3 -1.1 6.6 3.3	7 02:45 AM 09:52 AM W 04:44 PM 09:50 PM	8.7 -2.0 6.7 2.9	22 03:08 AM 10:03 AM Th 04:56 PM 10:08 PM	7.3 -0.7 6.2 3.0
8 02:10 AM 08:48 AM Sa 03:11 PM 08:38 PM	8.7 -0.3 7.2 2.3	23 02:41 AM 09:31 AM Su 04:08 PM 09:20 PM	8.8 -0.8 6.9 3.0	8 02:11 AM 09:15 AM M 03:58 PM 09:01 PM	9.0 -1.5 6.7 3.1	23 02:47 AM 09:49 AM Tu 04:41 PM 09:42 PM	7.9 -0.7 6.3 3.4	8 03:40 AM 10:43 AM Th 05:37 PM 10:54 PM	8.2 -1.6 6.7 2.8	23 03:50 AM 10:41 AM F 05:35 PM 10:58 PM	6.8 -0.3 6.2 2.9
9 02:39 AM 09:29 AM Su 03:58 PM 09:14 PM	8.8 -0.4 6.9 2.8	24 03:16 AM 10:14 AM M 04:58 PM 10:02 PM	8.3 -0.4 6.5 3.5	9 02:53 AM 10:03 AM Tu 04:53 PM 09:51 PM	8.8 -1.3 6.5 3.3	24 03:27 AM 10:32 AM W 05:29 PM 10:30 PM	7.4 -0.3 6.1 3.5	9 04:42 AM 11:35 AM F 06:31 PM	7.6 -1.1 6.9	24 04:37 AM 11:19 AM Sa 06:15 PM 11:55 PM	6.3 0.1 6.3 2.7
10 03:13 AM 10:15 AM M 04:52 PM 09:55 PM	8.8 -0.4 6.5 3.3	25 03:56 AM 11:01 AM Tu 05:54 PM 10:51 PM	7.8 0.1 6.1 3.8	10 03:42 AM 10:57 AM W 05:54 PM 10:53 PM	8.4 -1.0 6.3 3.5	25 04:13 AM 11:17 AM Th 06:19 PM 11:27 PM	6.9 0.1 6.0 3.6	10 12:05 AM 05:52 AM Sa 12:29 PM ● 07:23 PM	2.5 6.8 -0.4 7.2	25 05:33 AM 11:58 AM Su 06:56 PM	5.7 0.6 6.6
11 03:55 AM 11:08 AM Tu 05:56 PM 10:47 PM	8.6 -0.2 6.1 3.7	26 04:42 AM 11:54 AM W 06:57 PM 11:52 PM	7.2 0.6 5.9 4.0	11 04:42 AM 11:56 AM Th 06:58 PM	7.8 -0.6 6.3	26 05:07 AM 12:05 PM F 07:11 PM	6.4 0.4 6.0	11 01:20 AM 07:09 AM Su 01:25 PM 08:14 PM	2.0 6.2 0.3 7.5	26 12:58 AM 06:40 AM M 12:42 PM ● 07:36 PM	2.4 5.3 1.2 6.8
12 04:48 AM 12:12 PM W 07:11 PM 11:58 PM	8.2 0.1 6.0 183	27 05:42 AM 12:54 PM Th 08:03 PM ●	6.6 1.0 5.9 180	12 12:08 AM 05:56 AM F 12:59 PM ● 08:01 PM	3.4 7.2 -0.3 6.6	27 12:34 AM 06:13 AM Sa 12:56 PM ● 07:59 PM	3.4 5.9 0.8 6.2	12 02:34 AM 08:29 AM M 02:21 PM 09:02 PM	1.3 5.8 0.9 7.9	27 02:02 AM 07:55 AM Tu 01:30 PM 08:17 PM	1.8 5.0 1.7 7.2
13 05:58 AM 01:24 PM Th 08:28 PM ●	7.7 0.2 6.1 186	28 01:10 AM 06:57 AM F 01:58 PM 09:02 PM	4.0 6.2 1.1 6.0	13 01:31 AM 07:19 AM Sa 02:03 PM 08:57 PM	3.0 6.7 0.1 7.0	28 01:46 AM 07:26 AM Su 01:48 PM 08:43 PM	3.0 5.6 1.1 6.5	13 03:41 AM 09:46 AM Tu 03:17 PM 09:47 PM	0.5 5.6 1.5 8.3	28 03:04 AM 09:11 AM W 02:24 PM 09:00 PM	1.1 5.0 2.3 7.6
14 01:28 AM 07:25 AM F 02:36 PM 09:34 PM	3.9 7.4 0.2 6.5	29 02:30 AM 08:15 AM Sa 02:57 PM 09:49 PM	3.6 6.1 1.2 6.3	14 02:50 AM 08:42 AM Su 03:03 PM 09:45 PM	2.3 6.5 0.4 7.5	29 02:52 AM 08:39 AM M 02:38 PM 09:23 PM	2.4 5.4 1.4 7.0	14 04:38 AM 10:57 AM W 04:11 PM 10:31 PM	-0.3 5.8 2.1 8.5	29 04:00 AM 10:23 AM Th 03:21 PM 09:44 PM	0.3 5.2 2.7 8.0
15 02:56 AM 08:51 AM Sa 03:40 PM 10:26 PM	3.3 7.3 0.1 7.1	30 03:37 AM 09:25 AM Su 03:48 PM 10:28 PM	2.9 6.1 1.2 6.8	15 03:58 AM 09:56 AM M 03:57 PM 10:29 PM	1.3 6.5 0.7 8.1	30 03:49 AM 09:47 AM Tu 03:27 PM 10:00 PM	1.6 5.5 1.7 7.4	15 05:28 AM 11:59 AM Th 05:02 PM 11:12 PM	-0.9 6.0 2.5 8.6	30 04:52 AM 11:27 AM F 04:20 PM 10:30 PM	-0.5 5.6 2.9 8.4
						31 04:38 AM 10:49 AM W 04:15 PM 10:35 PM	0.7 5.7 2.0 7.9				

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StationId: 9441627
 Source: NOAA/NOS/CO-OPS
 Station Type: Subordinate
 Time Zone: LST_LDT
 Datum: MLLW

NOAA Tide Predictions

Point Grenville, WA,2023
 (47 18.2N / 124 16.2W)

Times and Heights of High and Low Waters

July				August				September								
Time	Height			Time	Height			Time	Height			Time	Height			
h m	ft	cm		h m	ft	cm		h m	ft	cm		h m	ft	cm		
1	05:41 AM	-1.3	-40	16	06:40 AM	-1.2	-37	1	01:37 AM	8.9	271	16	01:46 AM	7.5	229	
	12:23 PM	6.0	183		01:28 PM	6.2	189		08:00 AM	-1.4	-43		07:51 AM	0.4	12	
Sa	05:16 PM	3.0	91	Su	06:23 PM	3.0	91	Tu	02:24 PM	8.3	253	Sa	02:08 PM	7.7	235	
	11:18 PM	8.8	268					○	08:21 PM	0.0	0		08:15 PM	0.7	21	
2	06:29 AM	-1.9	-58	17	12:17 AM	8.0	244	2	02:28 AM	8.4	256	17	02:23 AM	7.2	219	
	01:14 PM	6.3	192		07:18 AM	-1.2	-37		08:40 AM	-0.8	-24		08:19 AM	0.9	27	
Su	06:09 PM	2.9	88	M	02:04 PM	6.3	192	W	03:01 PM	8.5	259	Su	02:32 PM	7.8	238	
				●	07:05 PM	2.9	88		09:11 PM	-0.3	-9		08:51 PM	0.5	15	
3	12:07 AM	9.1	277	18	12:58 AM	7.9	241	3	03:21 AM	7.8	238	18	03:02 AM	6.9	210	
	07:16 AM	-2.3	-70		07:54 AM	-1.2	-37		09:20 AM	0.0	0		09:20 AM	1.4	43	
M	02:02 PM	6.6	201	Tu	02:38 PM	6.4	195	Th	03:39 PM	8.6	262	M	02:57 PM	8.0	244	
○	07:01 PM	2.7	82		07:45 PM	2.7	82		10:01 PM	-0.3	-9		09:28 PM	0.4	12	
4	12:58 AM	9.2	280	19	01:37 AM	7.8	238	4	04:15 AM	7.1	216	19	03:44 AM	6.6	201	
	08:02 AM	-2.6	-79		08:28 AM	-1.1	-34		10:00 AM	1.0	30		09:16 AM	2.0	61	
Tu	02:48 AM	6.8	207	W	03:10 PM	6.4	195	F	04:19 PM	8.5	259	Tu	03:24 PM	8.0	244	
	07:54 PM	2.5	76		08:23 PM	2.6	79		10:55 PM	-0.2	-6		10:10 PM	0.3	9	
5	01:49 AM	9.1	277	20	02:14 AM	7.6	232	5	05:15 AM	6.4	195	20	04:32 AM	6.2	189	
	08:49 AM	-2.5	-76		09:00 AM	-0.9	-27		10:43 AM	2.0	61		09:50 AM	2.6	79	
W	03:34 PM	6.9	210	Th	03:42 AM	6.4	195	Sa	05:02 PM	8.2	250	W	03:57 PM	8.0	244	
	08:47 PM	2.2	67		09:02 PM	2.4	73		11:53 PM	0.1	3		10:59 PM	0.4	12	
6	02:42 AM	8.7	265	21	02:52 AM	7.2	219	6	06:23 AM	5.8	177	21	05:32 AM	5.8	177	
	09:35 AM	-2.2	-67		09:32 AM	-0.6	-18		11:33 AM	2.8	85		10:30 AM	3.2	98	
Th	04:19 PM	7.1	216	F	04:13 PM	6.5	198	W	05:52 PM	7.8	238	Th	04:39 PM	7.8	238	
	09:44 PM	2.0	61		09:43 PM	2.3	70	○					11:59 PM	0.5	15	
7	03:37 AM	8.2	250	22	03:31 AM	6.8	207	7	12:58 AM	0.4	12	22	06:47 AM	5.5	168	
	10:21 AM	-1.7	-52		10:03 AM	-0.2	-6		07:42 AM	5.5	168		11:26 AM	3.7	113	
F	05:05 PM	7.3	223	Sa	04:44 PM	6.6	201	Th	12:35 PM	3.5	107	F	05:38 PM	7.6	232	
	10:44 PM	1.7	52		10:27 PM	2.1	64		06:52 PM	7.3	223	○				
8	04:37 AM	7.4	226	23	04:13 AM	6.3	192	8	02:10 AM	0.6	18	23	01:10 AM	0.5	15	
	11:07 AM	-1.0	-30		10:34 AM	0.3	9		09:08 AM	5.5	168		08:12 AM	5.5	168	
Sa	05:52 PM	7.5	229	Su	05:17 PM	6.8	207	Tu	01:53 PM	3.8	116	Sa	12:49 PM	4.0	122	
	11:49 PM	1.4	43		11:16 PM	2.0	61		08:02 PM	7.1	216		06:57 PM	7.4	226	
9	05:42 AM	6.5	198	24	05:03 AM	5.8	177	9	03:21 AM	0.6	18	24	02:26 AM	0.3	9	
	11:55 AM	-0.1	-3		11:07 AM	0.9	27		10:22 AM	5.8	177		09:28 AM	5.8	177	
Su	06:40 PM	7.7	235	M	05:51 PM	7.0	213	W	03:15 PM	3.7	113	Su	02:22 PM	3.8	116	
								○	09:13 PM	7.0	213		08:24 PM	7.5	229	
10	12:58 AM	1.0	30	25	12:11 AM	1.7	52	10	04:21 AM	0.4	12	25	03:35 AM	-0.1	-3	
	06:55 AM	5.8	177		06:05 AM	5.3	162		11:14 AM	6.1	186		10:27 AM	6.4	195	
M	12:45 PM	0.9	27	Tu	11:45 AM	1.6	49	Th	04:21 PM	3.3	101	M	03:42 PM	3.1	94	
○	07:28 PM	7.9	241	○	06:29 PM	7.2	219		10:15 PM	7.2	219		09:41 PM	7.8	238	
11	02:09 AM	0.6	18	26	01:13 AM	1.3	40	11	05:10 AM	0.2	6	26	04:33 AM	-0.5	-15	
	08:15 AM	5.3	162		07:19 AM	4.9	149		11:52 AM	6.3	192		11:13 AM	7.0	213	
Tu	01:40 PM	1.7	52	W	12:31 PM	2.3	70	M	05:11 PM	2.8	85	Tu	04:45 PM	2.2	67	
	08:18 PM	8.0	244		07:13 PM	7.4	226		11:07 PM	7.4	226		10:46 PM	8.2	250	
12	03:17 AM	0.1	3	27	02:19 AM	0.8	24	12	05:50 AM	0.0	0	27	05:23 AM	-0.8	-24	
	09:37 AM	5.2	158		08:41 AM	4.9	149		12:24 PM	6.6	201		11:53 AM	7.6	232	
W	02:40 PM	2.5	76	Th	01:30 PM	2.9	88	Tu	05:53 PM	2.3	70	W	05:40 PM	1.2	37	
	09:09 PM	8.1	247		08:06 PM	7.6	232		11:52 PM	7.5	229		11:44 PM	8.5	259	
13	04:17 AM	-0.4	-12	28	03:24 AM	0.2	6	13	06:24 AM	-0.1	-3	28	06:07 AM	-0.8	-24	
	10:53 AM	5.4	165		10:01 AM	5.1	155		12:52 PM	6.9	210		12:31 PM	8.3	253	
Th	03:42 PM	2.9	88	F	02:41 PM	3.2	98	W	06:31 PM	1.8	55	Th	06:30 PM	0.3	9	
	09:59 PM	8.1	247		09:03 PM	8.0	244									
14	05:11 AM	-0.8	-24	29	04:24 AM	-0.5	-15	14	12:32 AM	7.6	232	29	12:38 AM	8.5	259	
	11:56 AM	5.7	174		11:10 AM	5.5	168		06:54 AM	-0.1	-3		06:49 AM	-0.5	-15	
F	04:42 PM	3.1	94	Sa	03:53 PM	3.3	101	Th	01:19 PM	7.2	219	F	01:07 PM	8.8	268	
	10:47 PM	8.1	247		10:03 PM	8.3	253		07:06 PM	1.3	40	○	07:17 PM	-0.4	-12	
15	05:57 AM	-1.0	-30	30	05:20 AM	-1.2	-37	15	01:09 AM	7.6	232	30	01:30 AM	8.4	256	
	12:46 PM	6.0	183		12:07 PM	6.0	183		07:23 AM	0.1	3		07:29 AM	0.0	0	
Sa	05:36 PM	3.1	94	Su	04:58 PM	3.1	94	W	01:44 PM	7.4	226	Sa	01:43 PM	9.1	277	
	11:34 PM	8.1	247		11:01 PM	8.7	265	○	07:41 PM	1.0	30		08:04 PM	-0.9	-27	
				31	06:11 AM	-1.9	-58	31	12:45 AM	9.0	274					
					12:55 PM	6.4	195		07:19 AM	-1.8	-55					
				M	05:57 PM	2.6	79		Th	01:46 PM	7.9	241				
					11:57 PM	9.0	274		○	07:31 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.

Referred to Station: Toke Point (9440910) Time offset in mins (high: -37 low: -44) Height offset in feet (high: *0.92 low: *0.9)



StationId: 9441627
 Source: NOAA/NOS/CO-OPS
 Station Type: Subordinate
 Time Zone: LST_LDT
 Datum: MLLW

NOAA Tide Predictions

Point Grenville, WA, 2023
 (47 18.2N / 124 16.2W)

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 02:20 AM 08:08 AM Su 02:19 PM 08:49 PM	8.1 247 0.7 21 9.2 280 -1.0 -30	16 02:12 AM 07:44 AM M 01:46 PM 08:27 PM	7.3 223 2.1 64 8.7 265 -0.3 -9	1 03:52 AM 09:02 AM W 02:56 PM 09:57 PM	7.3 223 3.3 101 8.8 268 -0.5 -15	16 02:36 AM 07:35 AM Th 01:24 PM 08:36 PM	7.1 216 3.7 113 9.2 280 -0.8 -24	1 03:25 AM 08:28 AM F 02:13 PM 09:16 PM	7.2 219 4.0 122 8.3 253 0.1 3	16 03:15 AM 08:20 AM Sa 02:09 PM 09:12 PM	7.5 229 3.7 113 9.1 277 -0.8 -24
2 03:11 AM 09:28 AM M 02:55 PM 09:36 PM	7.7 235 1.5 46 9.1 277 -0.9 -27	17 02:54 AM 08:15 AM Tu 02:13 PM 09:06 PM	7.1 216 2.6 79 8.7 265 -0.4 -12	2 04:45 AM 09:48 AM Th 03:38 PM 10:45 PM	6.9 210 3.8 116 8.2 250 0.1 3	17 03:27 AM 08:22 AM F 02:10 PM 09:27 PM	6.9 210 3.9 119 8.8 268 -0.5 -15	2 04:13 AM 09:17 AM Sa 02:59 PM 10:00 PM	7.0 213 4.2 128 7.7 235 0.6 18	17 04:04 AM 09:20 AM Su 03:06 PM 10:01 PM	7.5 229 3.6 110 8.5 259 -0.3 -9
3 04:04 AM 09:28 AM Tu 03:34 PM 10:24 PM	7.2 219 2.3 70 8.7 265 -0.5 -15	18 03:39 AM 08:50 AM W 02:45 PM 09:49 AM	6.8 207 3.1 94 8.7 265 -0.3 -9	3 05:42 AM 10:40 AM F 04:27 PM 11:38 PM	6.6 201 4.1 125 7.6 232 0.6 18	18 04:24 AM 09:20 AM Sa 03:06 PM 10:22 PM	6.8 207 4.1 125 8.3 253 -0.1 -3	3 05:02 AM 10:14 AM Su 03:52 PM 10:47 PM	6.9 210 4.2 128 7.1 216 1.0 30	18 04:55 AM 10:27 AM M 04:12 PM 10:53 PM	7.7 235 3.3 101 7.7 235 0.3 9
4 05:00 AM 10:13 AM W 04:16 PM 11:17 PM	6.6 201 3.1 94 8.2 250 0.1 3	19 04:29 AM 09:29 AM Th 03:23 PM 10:39 PM	6.5 198 3.5 107 8.5 259 -0.1 -3	4 06:45 AM 11:45 AM Sa 05:29 PM	6.4 195 4.3 131 7.0 213	19 05:26 AM 10:32 AM Su 04:15 PM 11:22 PM	6.8 207 4.0 122 7.7 235 0.2 6	4 05:52 AM 11:21 AM M 04:56 PM 11:35 PM	6.9 210 4.1 125 6.5 198 1.5 46	19 05:47 AM 11:41 AM Tu 05:28 PM 11:47 PM	8.0 244 2.9 88 7.0 213 1.1 34
5 06:05 AM 11:04 AM Th 05:06 PM	6.2 189 3.7 113 7.6 232	20 05:30 AM 10:19 AM F 04:13 PM 11:39 PM	6.2 189 3.9 119 8.1 247 0.2 6	5 12:37 AM 06:49 AM Su 12:03 PM 05:44 PM	1.1 34 6.4 195 4.2 128 6.5 198	20 06:27 AM 11:55 AM M 05:38 PM	7.1 216 3.7 113 7.2 219	5 06:40 AM 12:32 PM Tu 06:09 PM	7.1 216 3.7 113 6.1 186	20 06:38 AM 12:58 PM W 06:51 PM	8.4 256 2.3 70 6.5 198
6 12:18 AM 07:18 AM F 12:11 PM 06:10 PM	0.6 18 6.0 183 4.1 125 7.0 213	21 06:42 AM 11:27 AM Sa 05:19 PM	6.1 186 4.1 125 7.7 235	6 12:39 AM 07:46 AM M 01:23 PM 07:02 PM	1.4 43 6.6 201 3.8 116 6.3 192	21 12:25 AM 07:23 AM Tu 01:16 PM 07:04 PM	0.6 18 7.5 229 3.0 91 6.9 210	6 12:26 AM 07:25 AM W 01:40 PM 07:24 PM	1.9 58 7.4 226 3.1 94 6.0 183	21 12:43 AM 07:28 AM Th 02:09 PM 08:14 PM	1.8 55 8.8 268 1.4 43 6.3 192
7 01:26 AM 08:36 AM Sa 01:35 PM 07:28 PM	0.9 27 6.0 183 4.1 125 6.7 204	22 12:47 AM 07:56 AM Su 12:55 PM 06:46 PM	0.4 12 6.2 189 4.1 125 7.3 223	7 01:37 AM 08:31 AM Tu 02:28 PM 08:12 PM	1.5 46 6.9 210 3.2 98 6.3 192	22 01:25 AM 08:12 AM W 02:27 PM 08:24 PM	1.0 30 8.1 247 2.0 61 6.8 207	7 01:17 AM 08:05 AM Th 02:37 PM 08:35 PM	2.3 70 7.8 238 2.3 70 6.0 183	22 01:42 AM 08:16 AM F 03:11 PM 09:31 PM	2.5 76 9.2 280 0.6 18 6.5 198
8 02:37 AM 09:41 AM Su 02:57 PM 08:45 PM	1.1 34 6.2 189 3.8 116 6.6 201	23 01:58 AM 09:01 AM M 02:24 PM 08:15 PM	0.4 12 6.6 201 3.5 107 7.2 219	8 02:28 AM 09:09 AM W 03:19 PM 09:13 PM	1.6 49 7.3 223 2.4 73 6.5 198	23 02:22 AM 08:57 AM Th 03:26 PM 09:34 PM	1.4 43 8.7 265 0.9 27 7.0 213	8 02:07 AM 08:42 AM F 03:26 PM 09:38 PM	2.7 82 8.2 250 1.5 46 6.3 192	23 02:41 AM 09:03 AM Sa 04:05 PM 10:38 PM	3.0 91 9.5 290 -0.1 -3 6.8 207
9 03:38 AM 10:29 AM M 04:01 PM 09:50 PM	1.0 30 6.5 198 3.2 98 6.8 207	24 03:04 AM 09:53 AM Tu 03:38 PM 09:33 PM	0.3 9 7.2 219 2.6 79 7.4 226	9 03:11 AM 09:41 AM Th 04:01 PM 10:05 PM	1.8 55 7.8 238 1.6 49 6.7 204	24 03:14 AM 09:38 AM F 04:18 PM 10:36 PM	1.8 55 9.3 283 0.0 0 7.2 219	9 02:55 AM 09:18 AM Sa 04:10 PM 10:34 PM	3.0 91 8.6 262 0.7 21 6.6 201	24 03:37 AM 09:49 AM Su 04:53 PM 11:34 PM	3.4 104 9.6 293 -0.6 -18 7.1 216
10 04:27 AM 11:05 AM Tu 04:49 PM 10:44 PM	0.9 27 6.8 207 2.5 76 7.0 213	25 04:00 AM 10:37 AM W 04:38 PM 10:40 PM	0.3 9 7.9 241 1.5 46 7.6 232	10 03:51 AM 10:12 AM F 04:40 PM 10:53 PM	1.9 58 8.2 250 0.8 24 7.0 213	25 04:03 AM 10:18 AM Sa 05:05 PM 11:32 PM	2.2 67 9.7 296 -0.8 -24 7.4 226	10 03:42 AM 09:54 AM Su 04:51 PM 11:24 PM	3.3 101 9.0 274 0.0 0 6.9 210	25 04:30 AM 10:33 AM M 05:37 PM	3.7 113 9.7 296 -0.9 -27
11 05:07 AM 11:36 AM W 05:30 PM 11:31 PM	0.8 24 7.2 219 1.9 58 7.2 219	26 04:50 AM 11:16 AM Th 05:30 PM 11:39 PM	0.4 12 8.6 262 0.4 12 7.8 238	11 04:27 AM 10:41 AM Sa 05:17 PM 11:38 PM	2.2 67 8.6 262 0.2 6 7.2 219	26 04:49 AM 10:57 AM Su 05:49 PM	2.6 79 9.9 302 -1.2 -37	11 04:26 AM 10:30 AM M 05:32 PM	3.6 110 9.4 287 -0.6 -18	26 12:22 AM 05:19 AM Tu 11:16 AM 06:18 PM	7.4 226 3.8 116 9.6 293 -0.9 -27
12 05:41 AM 12:04 PM Th 06:07 PM	0.8 24 7.6 232 1.2 37	27 05:35 AM 11:53 AM F 06:18 PM	0.6 18 9.1 277 -0.4 -12	12 05:03 AM 11:09 AM Su 05:53 PM	2.5 76 9.0 274 -0.3 -9	27 12:22 AM 05:34 AM M 11:35 AM 06:31 PM	7.6 232 3.0 91 9.9 302 -1.3 -40	12 12:11 AM 05:11 AM Tu 11:08 AM 06:13 PM	7.2 219 3.7 113 9.6 293 -1.0 -30	27 01:04 AM 06:04 AM W 11:57 AM 06:57 PM	7.5 229 3.8 116 9.4 287 -0.8 -24
13 12:13 AM 06:13 AM F 12:30 PM 06:42 PM	7.3 223 1.0 30 7.9 241 0.7 21	28 12:33 AM 06:17 AM Sa 12:29 PM 07:03 PM	8.0 244 1.1 34 9.6 293 -1.1 -34	13 12:21 AM 05:39 AM M 11:39 AM 06:30 PM	7.3 223 2.9 88 9.2 280 -0.7 -21	28 01:10 AM 06:17 AM Tu 12:13 PM 07:12 PM	7.6 232 3.3 101 9.7 296 -1.2 -37	13 12:56 AM 05:55 AM W 11:49 AM 06:55 PM	7.4 226 3.8 116 9.8 299 -1.3 -40	28 01:44 AM 06:47 AM Th 12:37 PM 07:35 PM	7.5 229 3.8 116 9.2 280 -0.6 -18
14 12:53 AM 06:43 AM Sa 12:55 PM 07:17 PM	7.4 226 1.3 40 8.3 253 0.2 6	29 01:24 AM 06:59 AM Su 01:05 PM 07:46 PM	7.9 241 1.6 49 9.7 296 -1.3 -40	14 01:04 AM 06:15 AM Tu 12:10 PM 07:09 PM	7.3 223 3.2 98 9.3 283 -0.9 -27	29 01:55 AM 07:00 AM W 12:52 PM 07:52 PM	7.5 229 3.6 110 9.3 283 -0.8 -24	14 01:41 AM 06:40 AM Th 12:32 PM 07:39 PM	7.5 229 3.8 116 9.8 299 -1.3 -40	29 02:21 AM 07:28 AM F 01:16 PM 08:11 PM	7.5 229 3.8 116 8.8 268 -0.3 -9
15 01:33 AM 07:13 AM Su 01:20 PM 07:52 PM	7.4 226 1.7 52 8.5 259 -0.1 -3	30 02:14 AM 07:39 AM M 01:41 PM 08:29 PM	7.8 238 2.2 67 9.6 293 -1.3 -40	15 01:49 AM 06:53 AM W 12:45 PM 07:51 PM	7.3 223 3.5 107 9.3 283 -0.9 -27	30 02:40 AM 07:43 AM Th 01:31 PM 08:34 PM	7.4 226 3.8 116 8.8 268 -0.4 -12	15 02:27 AM 07:28 AM F 01:18 PM 08:25 PM	7.5 229 3.7 113 9.6 293 -1.2 -37	30 02:58 AM 08:10 AM Sa 01:56 PM 08:47 PM	7.4 226 3.7 113 8.4 256 0.0 0
		31 03:03 AM 08:20 AM Tu 02:18 PM 09:12 PM	7.6 232 2.8 85 9.3 283 -1.0 -30							31 03:36 AM 08:53 AM Su 02:37 PM 09:21 PM	7.3 223 3.7 113 7.9 241 0.6 18

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