



NOAA Tide Predictions

NORTH JETTY, 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.



NORTH JETTY, WA, 2023
 (46 16.4N / 124 04.3W)

Times and Heights of High and Low Waters

January				February				March								
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	01:19 AM	2.7	82	16	06:44 AM	8.6	262	1	01:08 AM	4.3	131	16	01:27 AM	4.2	128	
	08:01 AM	8.8	268		01:55 PM	1.5	46		07:23 AM	7.5	229		07:38 AM	8.2	250	
Su	02:51 PM	0.9	27	M	08:33 PM	5.8	177	W	02:53 PM	1.1	34	Th	03:16 PM	0.4	12	
	09:14 PM	6.4	195						09:42 PM	6.3	192		10:16 PM	6.3	192	
2	02:16 AM	3.2	98	17	01:08 AM	3.8	116	2	02:25 AM	4.3	131	17	03:01 AM	4.0	122	
	08:49 AM	8.9	271		07:40 AM	8.9	271		08:34 AM	7.5	229		09:04 AM	8.2	250	
M	03:46 PM	0.4	12	Tu	03:01 PM	0.7	21	Th	03:49 PM	0.7	21	F	04:21 PM	-0.1	-3	
	10:19 PM	6.7	204		09:51 PM	6.3	192		10:34 PM	6.8	207		11:12 PM	6.9	210	
3	03:11 AM	3.6	110	18	02:21 AM	4.1	125	3	03:28 AM	3.9	119	18	04:15 AM	3.3	101	
	09:34 AM	9.0	274		08:40 AM	9.3	283		09:35 AM	7.9	235		10:21 AM	8.5	259	
Tu	04:36 PM	0.0	0	W	04:01 PM	0.0	0	F	04:34 PM	0.4	12	Sa	05:15 PM	-0.5	-15	
	11:14 PM	7.1	216		10:54 PM	6.8	207		11:15 PM	7.1	216		11:57 PM	7.5	229	
4	04:03 AM	3.9	119	19	03:30 AM	4.2	128	4	04:21 AM	3.4	104	19	05:17 AM	2.4	73	
	10:17 AM	9.0	274		09:40 AM	9.6	293		10:27 AM	7.9	241		11:25 AM	8.8	268	
W	05:20 PM	-0.2	-6	Th	04:56 PM	-0.7	-21	Sa	05:12 PM	0.2	6	Su	06:02 PM	-0.7	-21	
					11:47 PM	7.3	223		11:50 PM	7.4	226					
5	12:01 AM	7.3	223	20	04:32 AM	3.9	119	5	05:06 AM	2.9	88	20	12:38 AM	8.1	247	
	04:52 AM	4.0	122		10:38 AM	10.0	305		11:11 AM	8.0	244		06:12 AM	1.4	43	
Th	10:57 AM	9.0	274	F	05:48 PM	-1.2	-37	Su	05:46 PM	0.1	3	M	12:22 PM	8.9	271	
	06:01 PM	-0.3	-9					○	06:50 PM	-0.2	-6		06:45 PM	-0.7	-21	
6	12:45 AM	7.5	229	21	12:35 AM	7.7	235	6	12:22 PM	9.7	296	21	01:15 AM	8.6	262	
	05:37 AM	4.0	122		05:31 AM	3.6	110		●	06:56 PM	-1.2	-37		07:03 AM	0.6	18
F	11:36 AM	9.0	274	Sa	11:33 AM	10.2	311	M	01:33 PM	9.4	287	M	01:15 PM	8.8	268	
○	06:39 PM	-0.3	-9	●	06:35 PM	-1.5	-46		07:19 PM	-0.1	-3		07:24 PM	-0.5	-15	
7	01:24 AM	7.6	232	22	01:20 AM	8.1	247	7	02:00 AM	7.8	238	22	01:51 AM	8.1	247	
	06:20 AM	4.0	122		06:26 AM	3.1	94		07:23 AM	2.7	82		06:17 PM	0.0	0	
Sa	12:13 PM	8.9	271	Su	12:27 PM	10.2	311	Tu	01:17 PM	8.3	253	Tu	12:30 PM	8.0	244	
	07:13 PM	-0.2	-6		07:20 PM	-1.5	-46		07:46 PM	0.0	0	○	06:45 PM	0.2	6	
8	02:01 AM	7.6	232	23	02:03 AM	8.4	256	8	02:26 AM	7.9	241	23	02:26 AM	9.1	277	
	07:00 AM	3.8	116		07:19 AM	2.6	79		07:58 AM	2.4	73		08:36 AM	-0.3	-9	
Su	12:49 PM	8.7	265	M	01:20 PM	9.9	302	W	01:54 PM	8.0	244	W	01:08 PM	7.9	241	
	07:45 PM	-0.1	-3		08:02 PM	-1.3	-40		08:11 PM	0.3	9		07:12 PM	0.4	12	
9	02:35 AM	7.6	232	24	02:44 AM	8.6	262	9	02:50 AM	8.0	244	24	02:59 AM	9.1	277	
	07:39 AM	3.7	113		08:11 AM	2.2	67		08:33 AM	2.1	64		09:20 AM	-0.4	-12	
M	01:26 PM	8.5	259	Tu	12:27 PM	9.4	287	Th	02:33 PM	7.6	232	F	03:44 PM	7.6	232	
	08:14 PM	0.0	0		08:42 PM	-0.9	-27		08:37 PM	0.7	21		09:13 PM	1.4	43	
10	03:07 AM	7.6	232	25	03:25 AM	8.7	265	10	03:14 AM	8.2	250	25	03:32 AM	9.0	274	
	08:17 AM	3.5	107		09:03 AM	1.9	58		09:11 AM	1.9	58		10:04 AM	-0.2	-6	
Tu	02:03 PM	8.2	250	W	03:06 PM	8.6	262	F	03:16 PM	7.1	216	Sa	04:36 PM	7.1	216	
	08:42 PM	0.3	9		09:21 PM	-0.2	-6		09:05 PM	1.3	40		09:49 PM	2.2	67	
11	03:37 AM	7.6	232	26	04:05 AM	8.8	268	11	03:41 AM	8.4	256	26	04:05 AM	8.7	265	
	08:56 AM	3.3	101		09:58 AM	1.7	52		09:54 AM	1.7	52		10:50 AM	0.2	6	
W	02:42 PM	7.8	238	Th	04:03 PM	7.8	238	Sa	04:08 PM	6.6	201	Sa	05:31 PM	6.6	201	
	09:11 PM	0.6	18		10:01 PM	0.7	21		09:37 PM	2.0	61		10:28 PM	3.0	91	
12	04:06 AM	7.7	235	27	04:46 AM	8.8	268	12	04:14 AM	8.6	262	27	04:42 AM	8.2	250	
	09:39 AM	3.1	94		10:57 AM	1.6	49		10:47 AM	1.6	49		11:42 AM	0.7	21	
Th	03:28 PM	7.2	219	F	05:06 PM	6.9	210	Su	05:16 PM	6.0	183	Su	06:35 PM	6.1	186	
	09:41 PM	1.1	34		10:43 PM	1.7	52		10:18 PM	2.8	85		11:15 PM	3.7	113	
13	04:37 AM	7.8	238	28	05:30 AM	8.7	265	13	04:57 AM	8.6	262	28	05:25 AM	7.7	235	
	10:29 AM	2.9	88		12:03 PM	1.5	46		11:57 AM	1.5	46		12:45 PM	1.1	34	
F	04:23 PM	6.6	201	Sa	06:18 PM	6.3	192	M	06:43 PM	5.6	171	M	06:12 PM	5.9	180	
	10:17 PM	1.7	52	●	11:32 PM	2.7	82		11:13 PM	3.6	110		10:53 PM	3.3	101	
14	05:13 AM	8.0	244	29	06:17 AM	8.5	259	14	05:51 AM	8.6	262	29	12:19 AM	4.2	128	
	11:31 AM	2.6	79		01:13 PM	1.4	43		01:20 PM	1.2	37		06:23 AM	7.2	219	
Sa	05:34 PM	6.1	186	Su	07:38 PM	6.0	183	Tu	08:17 PM	5.7	174	W	01:58 PM	1.4	43	
	11:02 PM	2.4	73									●	09:00 PM	6.0	183	
15	05:54 AM	8.3	253	30	12:31 AM	3.5	107	15	12:33 AM	4.2	128	30	01:41 AM	4.3	131	
	12:42 PM	2.1	64		07:09 AM	8.4	256		06:59 AM	8.7	265		07:39 AM	6.8	207	
Su	07:03 PM	5.7	174	M	02:22 PM	1.1	34	W	02:38 PM	0.6	18	Th	03:08 PM	1.3	40	
○	11:58 PM	3.2	98		08:57 PM	6.1	186		09:37 PM	6.1	186		10:03 PM	6.3	192	
31	01:39 AM	4.0	122	31	01:39 AM	4.0	122	31	03:00 AM	4.0	122	31	03:00 AM	4.0	122	
	08:06 AM	8.3	253		08:06 AM	8.3	253		09:00 AM	6.8	207		09:00 AM	6.8	207	
	03:24 PM	0.7	21	Tu	03:24 PM	0.7	21	F	04:05 PM	1.0	30		10:53 PM	6.7	204	
	10:05 PM	6.5	198		10:05 PM	6.5	198									

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: Astoria (9439040) Time offset in mins (high: -44 low: -60) Height offset in feet (high: +0.3 low: +0.03)



NORTH JETTY, WA, 2023
 (46 16.4N / 124 04.3W)

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 cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm	h m	ft cm							
1 04:05 AM 10:08 AM Sa 04:50 PM 11:32 PM	3.4 6.9 0.8 7.1	104 210 24 216	16 04:08 AM 10:14 AM Su 04:41 PM 11:20 PM	2.3 7.7 -0.1 7.9	70 235 -3 241	1 04:26 AM 10:33 AM M 04:33 PM 11:11 PM	2.1 6.4 1.2 7.6	64 195 37 232	16 04:52 AM 11:08 AM Tu 04:48 PM 11:19 PM	0.4 7.0 1.1 8.8	12 213 34 268	1 05:25 AM 11:58 AM Th 05:02 PM 11:19 PM	0.1 6.4 2.5 8.6	3 195 76 262	16 06:16 AM 12:51 PM F 05:49 PM	-1.0 6.8 2.9	-30 207 88	
2 04:57 AM 11:03 AM Su 05:28 PM	2.7 6.9 0.6	82 219 18	17 05:06 AM 11:17 AM M 05:27 PM 11:59 PM	1.3 7.9 0.0 8.5	40 241 0 259	2 05:12 AM 11:26 AM Tu 05:11 PM 11:41 PM	1.3 6.7 1.3 7.9	40 204 40 241	17 05:44 AM 12:05 PM W 05:33 PM 11:57 PM	-0.4 7.2 1.5 9.1	-12 219 46 277	2 06:10 AM 12:50 PM F 05:48 PM 11:56 PM	-0.5 6.6 2.9 9.0	-15 201 88 274	17 12:02 AM 07:01 AM Sa 01:41 PM 06:36 PM	8.8 -1.1 6.9 3.2	268 -34 210 98	
3 12:06 AM 05:42 AM M 11:51 AM 06:03 PM	7.4 2.0 7.3 0.5	226 61 223 15	18 05:59 AM 12:14 PM Tu 06:09 PM	0.3 8.0 0.3	9 244 9	3 05:55 AM 12:16 PM W 05:48 PM	0.6 6.9 1.6	18 210 49	18 06:31 AM 12:58 PM Th 06:16 PM	-0.9 7.2 2.0	-27 219 61	3 06:55 AM 01:41 PM Sa 06:34 PM	-1.0 6.8 3.1	-30 207 94	18 12:40 AM 07:43 AM Su 02:27 PM 07:21 PM	8.7 -1.0 7.0 3.4	265 -30 213 104	
4 12:35 AM 06:23 AM Tu 12:34 PM 06:35 PM	7.7 1.4 7.5 2.1	235 43 229 21	19 12:36 AM 06:47 AM W 01:06 PM 06:49 PM	8.9 -0.4 7.9 0.7	271 -12 241 21	4 12:10 AM 06:36 AM Th 01:03 PM 06:25 PM	8.3 0.0 7.0 1.9	253 0 213 58	19 12:32 AM 07:16 AM F 01:49 PM 06:58 PM	9.1 -1.1 7.2 2.5	277 -34 219 76	4 12:36 AM 07:41 AM Su 02:31 PM 07:22 PM	9.3 -1.4 7.0 3.3	283 -43 213 101	19 01:18 AM 08:22 AM M 03:10 PM 08:04 PM	8.5 -0.9 6.9 3.4	259 -27 210 104	
5 01:02 AM 07:02 AM W 01:16 PM 07:06 PM	8.0 0.8 7.5 0.9	244 24 229 27	20 01:11 AM 07:33 AM Th 01:56 PM 07:28 PM	9.1 -0.8 7.8 1.3	277 -24 238 40	5 12:39 AM 07:16 AM F 01:49 PM 07:03 PM	8.6 -0.5 7.1 2.3	262 -15 216 70	20 01:07 AM 07:59 AM Sa 02:37 PM 07:40 PM	9.0 -1.1 7.2 2.9	274 -34 219 88	5 01:19 AM 08:27 AM M 03:21 PM 08:12 PM	9.4 -1.5 7.0 3.3	287 -46 213 101	20 01:55 AM 08:59 AM Tu 03:51 PM 08:46 PM	8.3 -0.7 6.9 3.4	253 -21 210 104	
6 01:27 AM 07:39 AM Th 01:58 PM 07:37 PM	8.3 0.4 7.4 1.3	253 12 226 40	21 01:44 AM 08:17 AM F 02:45 PM 08:06 PM	9.2 -1.0 7.6 1.9	280 -30 232 58	6 01:09 AM 07:56 AM Sa 02:37 PM 07:41 PM	8.9 -0.8 7.1 2.7	271 -24 216 82	21 01:42 AM 08:39 AM Su 03:24 PM 08:21 PM	8.8 -0.9 7.1 3.3	268 -27 216 101	6 02:06 AM 09:14 AM Tu 04:10 PM 09:03 PM	9.4 -1.5 7.1 3.3	287 -46 216 101	21 02:33 AM 09:34 AM W 04:30 PM 09:28 PM	8.0 -0.5 6.8 3.3	244 -15 207 101	
7 01:52 AM 08:15 AM F 02:41 PM 08:08 PM	8.5 0.0 7.3 1.7	259 0 223 52	22 02:17 AM 08:58 AM Sa 03:34 PM 08:44 PM	9.0 -0.9 7.3 2.5	274 -27 223 76	7 01:42 AM 08:37 AM Su 03:25 PM 08:22 PM	9.2 -1.0 7.0 3.0	280 -30 213 91	22 02:16 AM 09:19 AM M 04:11 PM 09:02 PM	8.6 -0.6 6.9 3.5	262 -18 210 107	7 02:56 AM 10:01 AM W 05:01 PM 09:59 PM	9.1 -1.4 7.1 3.2	277 -43 216 98	22 03:12 AM 10:07 AM Th 05:08 PM 10:11 PM	7.7 -0.2 6.7 3.2	235 -6 204 98	
8 02:18 AM 08:51 AM Sa 03:25 PM 08:40 PM	8.8 -0.3 7.1 2.2	268 -9 216 67	23 02:49 AM 09:39 AM Su 04:24 PM 09:22 PM	8.8 -0.6 6.9 3.0	268 -18 210 91	8 02:20 AM 09:21 AM M 04:17 PM 09:16 PM	9.2 -1.0 6.8 3.3	280 -30 207 101	23 02:52 AM 09:57 AM Tu 04:57 PM 09:45 PM	8.2 -0.3 6.7 3.7	250 -9 204 113	8 03:52 AM 10:51 AM Th 05:51 PM 11:00 PM	8.7 -1.0 7.1 3.0	265 -30 216 91	23 03:54 AM 10:40 AM F 05:44 PM 10:59 PM	7.2 0.1 6.7 3.1	219 3 204 94	
9 02:47 AM 09:30 AM Su 04:14 PM 09:15 PM	9.0 -0.4 6.8 2.0	274 -12 207 82	24 03:23 AM 10:21 AM M 05:16 PM 10:03 PM	8.4 -0.1 6.6 3.5	256 -3 201 107	9 03:03 AM 10:08 AM Tu 05:12 PM 09:57 PM	9.1 -0.9 6.7 3.5	277 -27 204 107	24 03:31 AM 10:37 AM W 05:44 PM 10:33 PM	7.8 0.1 6.5 3.8	238 3 198 116	9 04:53 AM 11:42 AM F 06:43 PM	8.0 -0.6 7.3	244 -18 223	24 04:42 AM 11:15 AM Sa 06:22 PM 11:54 PM	6.7 0.5 6.8 2.9	204 15 207 88	
10 03:22 AM 10:14 AM M 05:10 PM 09:56 PM	9.0 -0.2 6.4 3.2	274 -6 195 98	25 03:59 AM 11:07 AM Tu 06:12 PM 10:52 PM	8.0 0.4 6.3 3.9	244 12 192 119	10 03:53 AM 11:02 AM W 06:11 PM 10:58 PM	8.8 -0.6 6.6 3.6	268 -18 201 110	25 04:15 AM 11:20 AM Th 06:33 PM 11:29 PM	7.3 0.5 6.4 3.8	223 15 195 116	10 12:09 AM 06:03 AM Sa 12:36 PM 07:34 PM	2.7 7.3 0.0 7.6	82 223 0 232	25 05:38 AM 11:54 AM Su 07:00 PM	6.1 0.9 6.9	186 27 210	
11 04:04 AM 11:07 AM Tu 06:15 PM 10:49 PM	8.9 0.0 6.1 3.7	271 0 186 113	26 04:43 AM 12:01 PM W 07:13 PM 11:55 PM	7.4 0.9 6.1 4.1	226 27 186 125	11 04:53 AM 12:03 PM Th 07:12 PM	8.3 -0.2 6.6	253 -6 201	26 05:08 AM 12:07 PM F 07:22 PM	6.8 0.8 6.5	207 24 198	11 01:22 AM 07:19 AM Su 01:32 PM 08:24 PM	2.1 6.7 0.5 7.9	64 204 15 241	26 12:56 AM 06:47 AM M 12:40 PM 07:39 PM	2.5 5.6 1.5 7.2	76 171 46 219	
12 04:58 AM 12:16 PM W 07:30 PM	8.5 0.3 6.0	259 9 183	27 05:40 AM 01:03 PM Th 08:15 PM	6.9 1.2 6.2	210 37 189	12 12:13 AM 06:06 AM F 01:09 PM 08:12 PM	3.5 7.7 0.1 6.9	107 235 3 210	27 12:35 AM 06:14 AM Sa 12:59 PM 08:09 PM	3.6 6.2 1.1 6.6	110 189 34 201	12 02:34 AM 08:37 AM M 02:27 PM 09:12 PM	1.4 6.3 1.1 8.3	43 192 34 253	27 02:02 AM 08:07 AM Tu 01:32 PM 08:21 PM	2.0 5.3 2.0 7.5	61 162 61 229	
13 12:03 AM 06:07 AM Th 01:35 PM 08:43 PM	4.0 8.0 0.4 6.2	122 244 12 189	28 01:11 AM 06:56 AM F 02:07 PM 09:11 PM	4.0 6.4 1.3 6.4	122 195 40 195	13 01:35 AM 07:28 AM Sa 02:13 PM 09:07 PM	3.1 7.2 0.3 7.3	94 219 9 223	28 01:46 AM 07:31 AM Su 01:52 PM 08:53 PM	3.2 5.8 1.4 6.9	98 177 43 210	13 03:39 AM 09:52 AM Tu 03:21 PM 09:58 PM	0.6 6.2 1.6 8.6	18 189 49 262	28 03:05 AM 09:27 AM W 02:29 PM 09:05 PM	1.3 5.3 2.5 7.9	40 162 76 241	
14 01:35 AM 07:32 AM F 02:48 PM 09:45 PM	3.9 7.7 0.3 6.7	119 235 9 204	29 02:28 AM 08:18 AM Sa 03:04 PM 09:58 PM	3.6 6.2 1.3 6.7	110 189 40 204	14 02:50 AM 08:50 AM Su 03:10 PM 09:56 PM	2.3 6.9 0.5 7.9	70 210 15 241	29 02:51 AM 08:49 AM M 02:43 PM 09:33 PM	2.5 5.7 1.6 7.3	76 174 49 223	14 04:36 AM 10:59 AM W 04:12 PM 10:41 PM	-0.1 6.3 2.1 8.8	-3 192 64 268	29 04:03 AM 10:39 AM Th 03:26 PM 09:51 PM	0.6 5.6 2.9 8.3	18 171 88 253	
15 02:59 AM 08:59 AM Sa 03:50 PM 10:36 PM	3.2 7.6 0.1 7.3	98 232 3 223	30 03:32 AM 09:31 AM Su 03:51 PM 10:38 PM	2.9 6.3 1.2 7.1	88 192 37 216	15 03:55 AM 10:03 AM M 04:02 PM 10:39 PM	1.3 6.9 0.7 8.4	40 210 21 256	30 03:48 AM 09:59 AM Tu 03:31 PM 10:09 PM	1.7 5.8 1.9 7.8	52 177 58 238	15 05:28 AM 11:58 AM Th 05:01 PM 11:22 PM	-0.7 6.6 2.5 8.9	-21 201 76 271	30 04:57 AM 11:42 AM F 04:23 PM 10:38 PM	-0.2 6.0 3.2 8.7	-6 183 98 265	
						31 04:38 AM 11:01 AM W 04:17 PM 10:44 PM	0.9 6.1 2.2 8.2	27 186 67 250										

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NORTH JETTY, WA,2023
 (46 16.4N / 124 04.3W)

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 05:49 AM 12:38 PM Sa 05:20 PM 11:27 PM	-0.8	-24	195	16 06:46 AM 01:27 PM Su 06:21 PM	-0.9	-27	207	1 12:08 AM 07:11 AM Tu 01:54 PM 07:00 PM	9.1	277	213	16 12:53 AM 07:35 AM W 02:11 PM 07:31 PM	7.8	238	-0.8	-24	1 01:50 AM 08:08 AM F 02:37 PM 08:29 PM	8.7	265	-1.4	-43	16 01:56 AM 07:54 AM Sa 02:16 PM 08:19 PM	7.2	219	0.2	6	232	0.4	12			
2 06:39 AM 01:30 PM Su 06:15 PM	-1.3	-40	204	17 12:24 AM 07:26 AM M 02:08 PM 07:06 PM	8.3	253	210	2 01:03 AM 07:56 AM W 02:37 PM 07:53 PM	9.3	283	-61	17 01:31 AM 08:04 AM Th 02:40 PM 08:08 PM	7.7	235	-0.7	-21	2 02:41 AM 08:47 AM Sa 03:14 PM 09:18 PM	8.3	253	-0.8	-24	17 02:33 AM 08:20 AM Su 02:38 PM 08:51 PM	7.0	213	0.6	18	238	0.2	6			
3 12:17 AM 07:28 AM M 02:18 PM 07:10 PM	9.3	283	210	18 01:04 AM 08:03 AM Tu 02:46 PM 07:49 PM	8.2	250	210	3 01:56 AM 08:38 AM Th 03:17 PM 08:46 PM	9.1	277	-58	18 02:08 AM 08:31 AM F 03:06 PM 08:43 PM	7.5	229	-0.5	-15	3 03:34 AM 09:24 AM Su 03:51 PM 10:08 PM	7.7	235	-0.1	-3	18 03:13 AM 08:46 AM M 03:01 PM 09:25 PM	6.7	204	1.1	34	244	0.0	0			
4 01:08 AM 08:15 AM Tu 03:05 PM 08:04 PM	9.4	287	216	19 01:43 AM 08:36 AM W 03:21 PM 08:29 PM	8.0	244	210	4 02:49 AM 09:19 AM F 03:57 PM 09:38 PM	8.7	265	-49	19 02:45 AM 08:57 AM Sa 03:30 PM 09:18 PM	7.2	219	-0.2	-6	4 04:29 AM 10:03 AM M 04:29 PM 11:00 PM	7.0	213	0.8	24	19 03:55 AM 09:15 AM Tu 03:28 PM 10:02 PM	6.4	195	1.7	52	247	0.1	3			
5 02:01 AM 09:01 AM W 03:50 PM 08:58 PM	9.3	283	223	20 02:20 AM 09:05 AM Th 03:52 PM 09:07 PM	7.8	238	210	5 03:43 AM 08:58 AM Sa 04:37 PM 10:31 PM	8.1	247	-30	20 03:23 AM 09:22 AM Su 03:53 PM 09:53 PM	6.8	207	0.3	9	5 05:28 AM 10:44 AM Tu 05:10 PM 11:58 PM	6.3	192	1.7	52	20 04:45 AM 09:48 AM W 04:02 PM 10:48 PM	6.0	183	2.3	70	247	0.2	6			
6 02:54 AM 09:45 AM Th 04:34 PM 09:52 PM	9.0	274	229	21 02:58 AM 09:33 AM F 04:22 PM 09:45 PM	7.4	226	210	6 04:40 AM 10:38 AM Su 05:18 PM 11:28 PM	7.3	223	-3	21 04:04 AM 09:48 AM M 04:17 PM 10:32 PM	6.4	195	0.8	24	6 06:36 AM 11:33 AM W 05:57 PM	5.8	177	2.6	79	21 05:47 AM 10:29 AM Th 04:45 PM 11:50 PM	5.5	168	2.9	88	244	0.4	12			
7 03:50 AM 10:28 AM F 05:18 PM 10:50 PM	8.5	259	235	22 03:37 AM 10:00 AM Sa 04:49 PM 10:26 PM	7.0	213	213	7 05:42 AM 11:20 AM M 06:01 PM	6.5	198	24	22 04:52 AM 10:19 AM Tu 04:48 PM 11:19 PM	5.9	180	1.5	46	7 01:06 AM 07:51 AM Th 12:36 PM 06:55 PM	0.4	12	5.5	168	22 07:06 AM 11:27 AM F 05:43 PM	5.3	162	3.5	107	235	0.0	0			
8 04:49 AM 11:13 AM Sa 06:03 PM 11:53 PM	7.7	235	238	23 04:20 AM 10:29 AM Su 05:18 PM 11:11 PM	6.5	198	216	8 12:32 AM 06:51 AM Tu 12:08 PM 06:48 PM	0.5	15	177	23 05:54 AM 10:57 AM W 05:27 PM	5.4	165	2.2	67	8 02:21 AM 09:09 AM F 01:54 PM 08:06 PM	0.5	15	5.6	171	23 01:14 AM 08:31 AM Sa 12:55 PM 07:01 PM	0.5	15	5.3	162	116	7.4	226			
9 05:54 AM 11:59 AM Su 06:50 PM	6.9	210	244	24 05:10 AM 11:01 AM M 05:49 PM	6.0	183	223	9 01:41 AM 08:08 AM W 01:07 PM 07:42 PM	0.4	12	165	24 12:21 AM 07:14 AM Th 11:48 AM 06:19 PM	0.8	24	5.0	152	9 03:30 AM 10:17 AM Sa 03:10 PM 09:19 PM	0.4	12	5.9	180	24 02:39 AM 09:45 AM Su 02:31 PM 08:30 PM	0.3	9	5.7	174	110	7.4	226			
10 01:01 AM 07:06 AM M 12:49 PM 07:38 PM	1.2	37	189	25 12:05 AM 06:14 AM Tu 11:41 AM 06:27 PM	1.7	52	229	10 02:52 AM 09:28 AM Th 02:15 PM 08:41 PM	0.2	6	168	25 01:42 AM 08:45 AM F 01:02 PM 07:25 PM	0.7	21	5.0	152	10 04:28 AM 11:10 AM Su 04:13 PM 10:22 PM	0.1	3	6.3	192	25 03:48 AM 10:41 AM M 03:47 PM 09:51 PM	-0.2	-6	6.3	192	85	7.7	235			
11 02:11 AM 08:23 AM Tu 01:45 PM 08:28 PM	0.8	24	177	26 01:09 AM 07:34 AM W 12:31 PM 07:13 PM	1.4	43	232	11 03:58 AM 10:38 AM F 03:24 PM 09:42 PM	0.0	0	177	26 03:03 AM 10:06 AM Sa 02:33 PM 08:42 PM	0.3	9	5.3	162	11 05:14 AM 11:52 AM M 05:05 PM 11:14 PM	-0.1	-3	6.7	204	26 04:43 AM 11:26 AM Tu 04:49 PM 10:58 PM	-0.6	-18	7.0	213	58	8.1	247			
12 03:18 AM 09:40 AM W 02:44 PM 09:18 PM	0.2	6	174	27 02:21 AM 09:01 AM Th 01:36 PM 08:08 PM	1.0	30	241	12 04:55 AM 11:35 AM Sa 04:26 PM 10:38 PM	-0.3	-9	189	27 04:13 AM 11:08 AM Su 03:51 PM 09:57 PM	-0.3	-9	5.9	180	12 05:53 AM 12:28 PM Tu 05:50 PM 11:59 PM	-0.3	-9	6.9	210	27 05:31 AM 12:07 PM W 05:44 PM 11:56 PM	-0.9	-27	7.6	232	27	8.3	253			
13 04:18 AM 10:50 AM Th 03:43 PM 10:08 PM	-0.2	-6	180	28 03:31 AM 10:22 AM F 02:49 PM 09:08 PM	0.4	12	250	13 05:43 AM 12:22 PM Su 05:20 PM 11:29 PM	-0.6	-18	198	28 05:10 AM 11:58 AM M 04:57 PM 11:04 PM	-1.0	-30	6.4	195	13 06:27 AM 01:00 PM W 06:31 PM	-0.4	-12	7.1	216	28 06:15 AM 12:44 PM Th 06:35 PM	-0.9	-27	8.1	247	0	0.0	0			
14 05:13 AM 11:50 AM F 04:39 PM 10:56 PM	-0.6	-18	192	29 04:33 AM 11:27 AM Sa 04:00 PM 10:11 PM	-0.3	-9	259	14 06:25 AM 01:03 PM M 06:08 PM	-0.7	-21	204	29 06:01 AM 12:42 PM Tu 05:55 PM	-1.4	-43	6.9	210	14 12:40 AM 06:58 AM Th 01:28 PM 07:09 PM	7.4	226	-0.3	-9	29 12:50 AM 06:55 AM F 01:21 PM 07:24 PM	8.4	256	-0.7	-21	262	-0.7	-21			
15 06:01 AM 12:41 PM Sa 05:32 PM 11:41 PM	-0.8	-24	198	30 05:30 AM 12:22 PM Su 05:04 PM 11:11 PM	-1.0	-30	271	15 12:13 AM 07:02 AM Tu 01:39 PM 06:51 PM	7.8	238	210	30 12:03 AM 06:46 AM W 01:22 PM 06:48 PM	8.8	268	-1.7	-52	15 01:18 AM 07:27 AM F 01:53 PM 07:45 PM	7.4	226	-0.1	-3	30 01:42 AM 07:35 AM Sa 01:56 PM 08:11 PM	8.2	250	-0.2	-6	268	-1.1	-34			
				31 06:22 AM 01:10 PM M 06:04 PM	-1.5	-46	85					31 12:57 AM 07:28 AM Th 02:00 PM 07:40 PM	8.9	271	-1.7	-52																

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: Astoria (9439040) Time offset in mins (high: -44 low: -60) Height offset in feet (high: +0.3 low: +0.03)



NORTH JETTY, WA, 2023
 (46 16.4N / 124 04.3W)

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 02:33 AM 08:13 AM Su 02:31 PM 08:57 PM	7.9 241 0.5 15 8.9 271 -1.2 -37	16 02:25 AM 07:47 AM M 01:53 PM 08:29 PM	7.0 213 1.9 58 8.5 259 -0.5 -15	1 04:07 AM 09:06 AM W 03:04 PM 10:04 PM	7.2 219 3.1 94 8.6 262 -0.4 -12	16 02:54 AM 07:41 AM Th 01:34 PM 08:39 PM	7.0 213 3.7 113 9.3 283 -0.7 -21	1 03:40 AM 08:33 AM F 02:18 PM 09:22 PM	7.3 223 3.9 119 8.3 253 0.2 6	16 03:31 AM 08:30 AM Sa 02:21 PM 09:18 PM	7.6 232 3.7 113 9.2 280 -0.6 -18
2 03:24 AM 08:51 AM M 03:06 PM 09:43 PM	7.4 226 2.7 37 8.8 268 -1.0 -30	17 03:08 AM 08:18 AM Tu 02:20 PM 09:05 PM	6.8 207 2.3 70 8.7 265 -0.5 -15	2 05:00 AM 09:50 AM Th 03:43 PM 10:51 PM	6.8 207 3.6 110 8.1 247 0.1 3	17 03:45 AM 08:29 AM F 02:21 PM 09:28 PM	6.9 210 3.8 116 9.0 274 -0.4 -12	2 04:26 AM 09:20 AM Sa 03:02 PM 10:03 PM	7.1 216 4.0 122 7.7 235 0.7 21	17 04:18 AM 09:27 AM Su 03:18 PM 10:05 PM	7.7 235 3.5 107 8.6 262 -0.2 -6
3 04:18 AM 09:31 AM Tu 03:42 PM 10:30 PM	6.9 210 2.0 61 8.5 259 -0.5 -15	18 03:54 AM 08:52 AM W 02:53 PM 09:45 PM	6.6 201 2.8 85 8.7 265 -0.4 -12	3 05:56 AM 10:41 AM F 04:29 PM 11:44 PM	6.6 201 3.9 119 7.5 229 0.7 21	18 04:40 AM 09:25 AM Sa 03:16 PM 10:24 PM	6.8 207 3.9 119 8.5 259 0.0 0	3 05:13 AM 10:15 AM Su 03:54 PM 10:47 PM	7.0 213 4.0 122 7.1 216 1.1 34	18 05:06 AM 10:32 AM M 04:23 PM 10:56 PM	7.8 238 3.2 98 7.9 241 0.4 12
4 05:15 AM 10:13 AM W 04:22 PM 11:23 PM	6.4 195 2.7 82 8.0 244 0.0 0	19 04:46 AM 09:31 AM Th 03:33 PM 10:33 PM	6.3 192 3.3 101 8.6 262 -0.2 -6	4 06:56 AM 11:45 AM Sa 05:28 PM	6.4 195 4.1 125 6.9 210	19 05:38 AM 10:36 AM Su 04:24 PM 11:27 PM	6.8 207 3.9 119 7.8 238 0.3 9	4 06:00 AM 11:19 AM M 04:58 PM 11:35 PM	7.0 213 3.9 119 6.5 198 1.6 49	19 05:56 AM 11:44 AM Tu 05:39 PM 11:50 PM	8.0 244 2.8 85 7.1 216 1.1 34
5 06:18 AM 11:04 AM Th 05:08 PM	6.1 186 3.4 104 7.4 226	20 05:47 AM 10:40 AM F 04:22 PM 11:36 PM	6.0 183 3.7 113 8.2 250 0.2 6	5 12:45 AM 06:56 AM Su 12:01 PM 05:44 PM	1.1 34 6.4 195 4.0 122 6.3 192	20 06:37 AM 11:58 AM M 05:47 PM	7.1 216 3.5 107 7.3 223	5 06:47 AM 12:30 PM Tu 06:15 PM	7.2 219 3.5 107 6.0 183	20 06:46 AM 12:59 PM W 07:01 PM	8.4 256 2.1 64 6.7 204
6 12:26 AM 07:29 AM F 12:11 PM 06:09 PM	0.6 18 5.9 180 3.8 116 6.8 207	21 06:58 AM 11:29 AM Sa 05:27 PM	5.9 180 3.9 119 7.7 235	6 12:47 AM 07:52 AM M 01:17 PM 07:07 PM	1.3 40 6.7 204 3.6 110 6.1 186	21 12:32 AM 07:32 AM Tu 01:18 PM 07:13 PM	0.7 21 7.5 229 2.7 82 6.9 210	6 12:28 AM 07:31 AM W 01:37 PM 07:35 PM	1.9 58 7.4 226 2.9 88 5.9 180	21 12:48 AM 07:37 AM Th 02:09 PM 08:22 PM	1.8 55 8.7 265 1.3 40 6.5 198
7 01:38 AM 08:40 AM Sa 01:33 PM 07:28 PM	0.9 27 5.9 180 3.9 119 6.4 195	22 12:52 AM 08:10 AM Su 01:01 PM 06:52 PM	0.4 12 6.1 186 3.9 119 7.3 223	7 01:44 AM 08:39 AM Tu 02:21 PM 08:21 PM	1.4 43 7.0 213 2.9 88 6.2 189	22 01:33 AM 08:23 AM W 02:27 PM 08:33 PM	0.9 27 8.1 247 1.7 52 6.9 210	7 01:20 AM 08:12 AM Th 02:36 PM 08:48 PM	2.3 70 7.8 238 2.1 64 6.0 183	22 01:46 AM 08:26 AM F 03:11 PM 09:35 PM	2.4 73 9.1 277 0.5 15 6.7 204
8 02:48 AM 09:42 AM Su 02:50 PM 08:50 PM	0.9 27 6.2 189 3.5 107 6.4 195	23 02:09 AM 09:13 AM M 02:29 PM 08:23 PM	0.4 12 6.5 198 3.3 101 7.2 219	8 02:32 AM 09:18 AM W 03:14 PM 09:23 PM	1.4 43 7.4 226 2.0 61 6.4 195	23 02:28 AM 09:08 AM Th 03:26 PM 09:42 PM	1.2 37 8.7 265 0.7 21 7.1 216	8 02:10 AM 08:50 AM F 03:26 PM 09:52 PM	2.6 79 8.2 250 1.3 40 6.3 192	23 02:43 AM 09:13 AM Sa 04:06 PM 10:38 PM	2.9 88 9.4 287 -0.2 -6 7.1 216
9 03:45 AM 10:31 AM M 03:53 PM 09:58 PM	0.7 21 6.6 201 2.9 88 6.5 198	24 03:14 AM 10:05 AM Tu 03:40 PM 09:43 PM	0.2 6 7.2 219 2.3 70 7.3 223	9 03:14 AM 09:52 AM Th 04:00 PM 10:16 PM	1.5 46 7.8 238 1.3 40 6.6 201	24 03:18 AM 09:50 AM F 04:19 PM 10:43 PM	1.5 46 9.2 280 -0.2 -6 7.4 226	9 02:58 AM 09:26 AM Sa 04:12 PM 10:48 PM	3.0 91 8.6 262 0.6 18 6.6 201	24 03:37 AM 09:59 AM Su 04:57 PM 11:34 PM	3.3 101 9.6 293 -0.6 -18 7.4 226
10 04:31 AM 11:11 AM Tu 04:44 PM 10:53 PM	0.6 18 7.0 213 2.1 64 6.8 207	25 04:08 AM 10:49 AM W 04:39 PM 10:50 PM	0.1 3 7.8 238 1.1 34 7.6 232	10 03:53 AM 10:22 AM F 04:41 PM 11:05 PM	1.7 52 8.2 250 0.6 18 6.9 210	25 04:05 AM 10:30 AM Sa 05:08 PM 11:38 PM	1.9 58 9.6 293 -0.8 -24 7.6 232	10 03:45 AM 10:01 AM Su 04:56 PM 11:39 PM	3.3 101 9.0 274 0.0 0 7.0 213	25 04:29 AM 10:42 AM M 05:43 PM	3.5 107 9.6 293 -0.8 -24
11 05:09 AM 11:44 AM W 05:28 PM 11:40 PM	0.5 15 7.3 223 1.4 43 7.0 213	26 04:56 AM 11:29 AM Th 05:32 PM 11:49 PM	0.1 3 8.5 259 0.1 3 7.8 238	11 04:29 AM 10:50 AM Sa 05:20 PM 11:50 PM	2.0 61 8.5 259 0.0 0 7.1 216	26 04:51 AM 11:08 AM Su 05:55 PM	2.4 73 9.7 296 -1.2 -37	11 04:30 AM 10:38 AM M 05:39 PM	3.6 110 9.3 283 -0.5 -15	26 12:24 AM 05:19 AM Tu 11:24 AM 06:27 PM	7.6 232 3.7 113 9.5 290 -0.8 -24
12 05:43 AM 12:14 PM Th 06:08 PM	0.5 15 7.6 232 0.8 24	27 05:39 AM 12:06 PM F 06:22 PM	0.4 12 9.0 274 -0.7 -21	12 05:06 AM 11:18 AM Su 05:58 PM	2.3 70 8.8 268 -0.4 -12	27 12:30 AM 05:36 AM M 11:46 AM 06:39 PM	7.7 235 2.8 85 9.7 296 -1.2 -37	12 12:27 AM 05:16 AM Tu 11:16 AM 06:22 PM	7.3 223 3.8 116 9.6 293 -0.8 -24	27 01:10 AM 06:06 AM W 12:05 PM 07:07 PM	7.8 238 3.8 116 9.4 287 -0.7 -21
13 12:23 AM 06:15 AM F 12:40 PM 06:45 PM	7.1 216 0.7 21 7.9 241 0.3 9	28 12:43 AM 06:21 AM Sa 12:42 PM 07:08 PM	7.9 241 0.8 24 9.3 283 -1.2 -37	13 12:35 AM 05:43 AM M 11:47 AM 06:36 PM	7.2 219 2.7 82 9.1 277 -0.7 -21	28 01:19 AM 06:21 AM Tu 12:23 PM 07:21 PM	7.7 235 3.2 98 9.5 290 -1.0 -30	13 01:13 AM 06:03 AM W 11:57 AM 07:05 PM	7.4 226 3.9 119 9.7 296 -1.0 -30	28 01:53 AM 06:51 AM Th 12:45 PM 07:45 PM	7.8 238 3.8 116 9.1 277 -0.5 -15
14 01:04 AM 06:46 AM Sa 01:05 PM 07:21 PM	7.2 219 1.0 30 8.1 247 -0.1 -3	29 01:35 AM 07:02 AM Su 01:17 PM 07:54 PM	7.8 238 1.4 43 9.4 287 -1.4 -43	14 01:20 AM 06:20 AM Tu 12:18 PM 07:15 PM	7.2 219 3.1 94 9.2 280 -0.8 -24	29 02:07 AM 07:04 AM W 01:00 PM 08:02 PM	7.6 232 3.6 110 9.2 280 -0.7 -21	14 01:59 AM 06:50 AM Th 12:41 PM 07:48 PM	7.5 229 3.9 119 9.8 299 -1.0 -30	29 02:33 AM 07:34 AM F 01:24 PM 08:19 PM	7.8 238 3.8 116 8.8 268 -0.2 -6
15 01:44 AM 07:16 AM Su 01:28 PM 07:55 PM	7.1 216 1.4 43 8.3 253 -0.3 -9	30 02:25 AM 07:43 AM M 01:52 PM 08:37 PM	7.7 235 2.0 61 9.3 283 -1.3 -40	15 02:06 AM 06:59 AM W 12:54 PM 07:55 PM	7.2 219 3.4 104 9.3 283 -0.8 -24	30 02:54 AM 07:48 AM Th 01:38 PM 08:42 PM	7.5 229 3.8 116 8.8 268 -0.3 -9	15 02:45 AM 07:38 AM F 01:29 PM 08:32 PM	7.6 232 3.8 116 9.6 293 -0.9 -27	30 03:11 AM 08:15 AM Sa 02:03 PM 08:51 PM	7.7 235 3.7 113 8.4 256 0.2 6
		31 03:16 AM 08:24 AM Tu 02:28 PM 09:21 PM	7.4 226 2.6 79 9.1 277 -1.0 -30					31 03:48 AM 08:57 AM Su 02:43 PM 09:21 PM	7.6 232 3.6 110 7.9 241 0.7 21		

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