

# Tide Tables 2003

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Cap'n Beware  
and Oregon State Parks  
remind you to . . .



Know the tides and . . .  
Play it Safe at the Beach!

Be aware of incoming tides. Because tide pools can be so interesting, you might lose track of time. Make sure you know when the tide is coming in so you don't end up stranded. Read this tide table to make sure you stay safe on the beach.

Don't play on the logs especially logs on wet sand or in the water. The ocean is strong enough to pick up even the biggest log and plop it down on top of you. If you see a log in the surf or on wet sand, stay off it.

Take care around high, steep cliffs. Assume that all cliff edges are unstable, and stay on marked trails. Rocks can be slippery even when it isn't raining. Never walk under an overhanging cliff. Stay behind guard fences and railings, and don't get too close to the edge.

Don't turn your back on the ocean! Watch out for "sneaker waves." Sneaker waves appear suddenly and are impossible to predict. They often come rushing high up on shore with deadly force.

TIDAL CORRECTION TABLE

Location	High Min	Low Min	High Ratio	Low Ratio
Seaside, 12th Ave. Br., Necanicum R.	14	96	0.67	0.34
Nehalem River, Nehalem	44	85	0.85	0.69
<b>TILLAMOOK BAY</b>				
Barview	9	25	0.89	0.85
Garibaldi	41	45	0.93	0.93
Nestucca Bay, Entrance	22	41	0.91	0.85
<b>SILETZ BAY</b>				
Taft	15	42	0.78	0.69
Kemville	51	82	0.71	0.62
<b>YAQUINA BAY</b>				
South Beach	0	0	1	1
Yaquina	22	24	0.98	1.00
Toledo	56	68	0.97	0.85
Alsea Bay, Waldport	23	30	0.92	0.93
<b>SIUSLAW RIVER</b>				
Entrance	-4	2	0.88	0.93
Florence	46	57	0.79	0.77
<b>UMPQUA RIVER</b>				
Entrance	7	2	0.83	0.93
Reedsport	73	83	0.8	0.77
<b>COOS BAY</b>				
Charleston	-3	-1	0.91	0.93
Coos Bay	88	87	0.88	0.85
Bandon, Coquille River	-10	-3	0.83	0.85
Port Orford	-20	-19	0.88	1.02
Wedderburn, Rogue River	-24	-15	0.79	0.85
Brookings, Chetco Cove	-32	-27	0.83	0.93

**Adjustments**

To estimate the high tide for a particular location, add the high minutes to the South Beach predicted high time from the monthly table. If the time is negative, subtract the indicated number of minutes. To estimate the low tide for a particular location, add the low minutes to the South Beach low time. To find the estimated tidal height, multiply the South Beach predicted high height by the indicated high ratio and the South Beach low height by the indicated low ratio.

# Oregon State Parks

Information:

1-800-551-6949

Reservations:

1-800-452-5687

State parks website:

[www.oregonstateparks.org](http://www.oregonstateparks.org)

Tidetable website:

[www.hmsc.orst.edu](http://www.hmsc.orst.edu)



*Nature*  
**HISTORY**  
*Discovery*



**JAN 2003** OSU Hatfield Marine Science  
Center Dock, Yaquina Bay, OR

HIGH TIDE					LOW TIDE			
DATE	TIME	HT (ft)	HT	HT (ft)	TIME	HT (ft)	HT	HT (ft)
1	W	10:07	10.2		4:03	3.7	<b>5:22</b>	-1.5
2	T	12:12	7.4	10:54	4:56	3.8	<b>6:07</b>	-1.6
3	F	12:59	7.6	11:41	5:48	3.8	<b>6:51</b>	-1.5
4	S	1:43	7.7	<b>12:27</b>	6:38	3.8	<b>7:34</b>	-1.1
5	S	2:25	7.8	<b>1:12</b>	7:28	3.7	<b>8:15</b>	-0.6
6	M	3:07	7.8	<b>1:58</b>	8:19	3.7	<b>8:54</b>	-0.0
7	T	3:48	7.8	<b>2:45</b>	9:14	3.7	<b>9:33</b>	0.6
8	W	4:29	7.8	<b>3:39</b>	10:14	3.5	<b>10:12</b>	1.4
9	T	5:09	7.8	<b>4:43</b>	11:20	3.3	<b>10:52</b>	2.1
10	F	5:49	7.9	<b>6:03</b>	<b>12:29</b>	2.8	<b>11:36</b>	2.8
11	S	6:29	8.0	<b>7:34</b>			<b>1:34</b>	2.3
12	S	7:10	8.1	<b>8:59</b>	12:25	3.4	<b>2:31</b>	1.6
13	M	7:52	8.3	<b>10:06</b>	1:21	3.9	<b>3:19</b>	1.0
14	T	8:35	8.6	<b>10:55</b>	2:19	4.1	<b>4:02</b>	0.4
15	W	9:18	8.9	<b>11:37</b>	3:13	4.2	<b>4:42</b>	-0.1
16	T	10:01	9.2		4:03	4.2	<b>5:20</b>	-0.6
17	F	12:14	7.0	10:43	4:48	4.1	<b>5:58</b>	-0.9
18	S	12:49	7.3	11:25	5:32	3.9	<b>6:36</b>	-1.1
19	S	1:24	7.5	<b>12:08</b>	6:16	3.7	<b>7:13</b>	-1.1
20	M	2:00	7.8	<b>12:52</b>	7:03	3.5	<b>7:51</b>	-0.9
21	T	2:36	8.0	<b>1:40</b>	7:53	3.2	<b>8:30</b>	-0.5
22	W	3:14	8.3	<b>2:33</b>	8:49	2.9	<b>9:10</b>	0.2
23	T	3:53	8.5	<b>3:34</b>	9:51	2.5	<b>9:52</b>	1.0
24	F	4:36	8.8	<b>4:48</b>	11:01	2.1	<b>10:38</b>	1.9
25	S	5:22	9.0	<b>6:17</b>	<b>12:14</b>	1.5	<b>11:31</b>	2.7
26	S	6:13	9.1	<b>7:54</b>			<b>1:28</b>	0.8
27	M	7:08	9.3	<b>9:21</b>	12:35	3.5	<b>2:35</b>	0.2
28	T	8:07	9.4	<b>10:28</b>	1:47	3.9	<b>3:34</b>	-0.4
29	W	9:04	9.6	<b>11:19</b>	2:58	4.0	<b>4:26</b>	-0.8
30	T	9:58	9.6		4:00	3.9	<b>5:13</b>	-1.1
31	F	12:02	7.4	10:49	4:54	3.7	<b>5:55</b>	-1.1

**bold=PM**      minus

**FEB 2003** OSU Hatfield Marine Science  
Center Dock, Yaquina Bay, OR

HIGH TIDE					LOW TIDE			
DATE	TIME	HT (ft)	HT	HT (ft)	TIME	HT (ft)	HT	HT (ft)
1	S	12:41	7.6	11:35	5:43	3.4	<b>6:34</b>	-0.9
2	S	1:16	7.8	<b>12:18</b>	6:28	3.2	<b>7:11</b>	-0.6
3	M	1:50	7.9	<b>1:00</b>	7:12	3.0	<b>7:45</b>	-0.2
4	T	2:23	7.9	<b>1:42</b>	7:55	2.9	<b>8:17</b>	0.4
5	W	2:54	7.9	<b>2:24</b>	8:40	2.8	<b>8:49</b>	1.1
6	T	3:25	7.9	<b>3:12</b>	9:28	2.7	<b>9:20</b>	1.8
7	F	3:58	7.8	<b>4:08</b>	10:22	2.5	<b>9:52</b>	2.5
8	S	4:32	7.8	<b>5:20</b>	11:23	2.3	<b>10:28</b>	3.2
9	S	5:12	7.8	<b>6:56</b>	<b>12:31</b>	2.0	<b>11:15</b>	3.8
10	M	6:00	7.8	<b>8:36</b>			<b>1:40</b>	1.6
11	T	6:56	7.9	<b>9:47</b>	12:22	4.2	<b>2:40</b>	1.0
12	W	7:54	8.1	<b>10:34</b>	1:41	4.4	<b>3:30</b>	0.5
13	T	8:50	8.5	<b>11:10</b>	2:49	4.3	<b>4:15</b>	-0.1
14	F	9:40	8.9	<b>11:43</b>	3:44	4.0	<b>4:55</b>	-0.6
15	S	10:28	9.3		4:33	3.6	<b>5:33</b>	-0.9
16	S	12:14	7.4	11:14	5:18	3.2	<b>6:10</b>	-1.1
17	M	12:46	7.8	<b>12:01</b>	6:04	2.7	<b>6:47</b>	-1.0
18	T	1:19	8.2	<b>12:48</b>	6:51	2.2	<b>7:24</b>	-0.6
19	W	1:53	8.6	<b>1:38</b>	7:41	1.7	<b>8:01</b>	-0.0
20	T	2:28	8.9	<b>2:33</b>	8:34	1.3	<b>8:40</b>	0.8
21	F	3:07	9.0	<b>3:35</b>	9:32	1.0	<b>9:21</b>	1.7
22	S	3:49	9.0	<b>4:49</b>	10:37	0.8	<b>10:08</b>	2.6
23	S	4:38	8.9	<b>6:20</b>	11:49	0.6	<b>11:06</b>	3.4
24	M	5:35	8.7	<b>7:59</b>			<b>1:05</b>	0.3
25	T	6:43	8.6	<b>9:20</b>	12:22	3.9	<b>2:17</b>	0.0
26	W	7:54	8.5	<b>10:18</b>	1:49	4.0	<b>3:20</b>	-0.3
27	T	8:59	8.6	<b>11:01</b>	3:04	3.8	<b>4:12</b>	-0.5
28	F	9:56	8.7	<b>11:38</b>	4:04	3.4	<b>4:56</b>	-0.6

**bold=PM**      minus

**MAR 2003** OSU Hatfield Marine Science  
Center Dock, Yaquina Bay, OR

HIGH TIDE					LOW TIDE			
DATE	TIME	HT (ft)	HT	HT (ft)	TIME	HT (ft)	HT	HT (ft)
1	S	10:46	8.8		4:53	3.0	<b>5:35</b>	-0.5
2	S	12:10	7.6	11:29	5:36	2.6	<b>6:10</b>	-0.3
3	M	12:39	7.8	<b>12:10</b>	6:15	2.2	<b>6:41</b>	0.0
4	T	1:07	7.9	<b>12:49</b>	6:53	2.0	<b>7:10</b>	0.5
5	W	1:33	7.9	<b>1:28</b>	7:30	1.7	<b>7:39</b>	1.0
6	T	1:59	7.9	<b>2:09</b>	8:08	1.5	<b>8:06</b>	1.6
7	F	2:25	7.9	<b>2:54</b>	8:49	1.5	<b>8:34</b>	2.3
8	S	2:53	7.8	<b>3:47</b>	9:34	1.4	<b>9:04</b>	2.9
9	S	3:24	7.6	<b>4:53</b>	10:27	1.4	<b>9:38</b>	3.5
10	M	4:03	7.4	<b>6:23</b>	11:30	1.4	<b>10:25</b>	3.9
11	T	4:55	7.3	<b>8:03</b>	<b>12:43</b>	1.2	<b>11:42</b>	4.2
12	W	6:02	7.3	<b>9:12</b>			<b>1:52</b>	0.9
13	T	7:16	7.4	<b>9:55</b>	1:16	4.2	<b>2:50</b>	0.4
14	F	8:22	7.8	<b>10:28</b>	2:30	3.9	<b>3:38</b>	-0.1
15	S	9:20	8.3	<b>11:00</b>	3:27	3.4	<b>4:20</b>	-0.5
16	S	10:13	8.7	<b>11:30</b>	4:17	2.7	<b>5:00</b>	-0.7
17	M	11:03	9.0		5:04	1.9	<b>5:37</b>	-0.7
18	T	12:01	8.2	11:53	5:50	1.1	<b>6:15</b>	-0.4
19	W	12:34	8.7	<b>12:44</b>	6:37	0.4	<b>6:53</b>	0.1
20	T	1:08	9.1	<b>1:38</b>	7:26	-0.1	<b>7:31</b>	0.8
21	F	1:45	9.3	<b>2:35</b>	8:17	-0.5	<b>8:12</b>	1.6
22	S	2:25	9.2	<b>3:39</b>	9:13	-0.6	<b>8:56</b>	2.4
23	S	3:10	8.9	<b>4:54</b>	10:14	-0.4	<b>9:49</b>	3.1
24	M	4:02	8.5	<b>6:21</b>	11:24	-0.2	<b>10:58</b>	3.7
25	T	5:07	8.0	<b>7:50</b>			<b>12:40</b>	-0.1
26	W	6:25	7.6	<b>8:59</b>	12:29	3.8	<b>1:53</b>	-0.0
27	T	7:45	7.5	<b>9:49</b>	1:58	3.6	<b>2:55</b>	-0.1
28	F	8:53	7.5	<b>10:28</b>	3:07	3.1	<b>3:46</b>	-0.1
29	S	9:50	7.6	<b>11:01</b>	4:00	2.6	<b>4:28</b>	0.0
30	S	10:39	7.7	<b>11:29</b>	4:44	2.0	<b>5:04</b>	0.2
31	M	11:21	7.6	<b>11:54</b>	5:23	1.5	<b>5:36</b>	0.5

**bold=PM**      minus

**APR 2003 OSU Hatfield Marine Science  
Center Dock, Yaquina Bay, OR**

HIGH TIDE				LOW TIDE					
DATE	TIME	HT (ft)	HT (ft)	TIME	HT (ft)	TIME	HT (ft)		
1	T		<b>12:02</b>	7.5	5:58	1.1	<b>6:05</b>	0.9	
2	W	12:19	7.9	<b>12:41</b>	7.2	6:32	0.7	<b>6:33</b>	1.3
3	T	12:42	7.9	<b>1:20</b>	6.9	7:06	0.5	<b>7:00</b>	1.8
4	F	1:06	7.9	<b>2:01</b>	6.6	7:40	0.3	<b>7:28</b>	2.3
5	S	1:32	7.8	<b>2:46</b>	6.2	8:18	0.3	<b>7:57</b>	2.8
DAYLIGHT TIME BEGINS									
6	S	3:00	7.6	<b>4:38</b>	5.8	9:59	0.3	<b>9:29</b>	3.2
7	M	3:32	7.4	<b>5:41</b>	5.4	10:47	0.5	<b>10:08</b>	3.7
8	T	4:12	7.2	<b>7:00</b>	5.3	11:45	0.6	<b>11:03</b>	4.0
9	W	5:06	6.9	<b>8:21</b>	5.4			<b>12:52</b>	0.6
10	T	6:18	6.8	<b>9:20</b>	5.8	12:27	4.1	<b>2:00</b>	0.5
11	F	7:39	6.8	<b>10:02</b>	6.2	1:59	3.9	<b>3:01</b>	0.2
12	S	8:54	7.1	<b>10:37</b>	6.8	3:12	3.3	<b>3:52</b>	-0.0
13	S	10:00	7.5	<b>11:09</b>	7.4	4:10	2.5	<b>4:37</b>	-0.2
14	M	10:58	7.8	<b>11:42</b>	8.1	5:00	1.5	<b>5:19</b>	-0.1
15	T	11:54	8.0			5:47	0.5	<b>6:00</b>	0.1
16	W	12:16	8.7	<b>12:48</b>	8.0	6:35	-0.4	<b>6:40</b>	0.5
17	T	12:51	9.2	<b>1:43</b>	7.8	7:22	-1.2	<b>7:21</b>	1.1
18	F	1:28	9.5	<b>2:38</b>	7.5	8:10	-1.7	<b>8:03</b>	1.7
19	S	2:08	9.5	<b>3:37</b>	7.1	9:01	-1.8	<b>8:49</b>	2.3
20	S	2:51	9.2	<b>4:41</b>	6.6	9:55	-1.6	<b>9:40</b>	2.9
21	M	3:40	8.6	<b>5:52</b>	6.3	10:54	-1.2	<b>10:42</b>	3.4
22	T	4:36	8.0	<b>7:09</b>	6.2	11:59	-0.7		
23	W	5:46	7.3	<b>8:21</b>	6.3	12:00	3.6	<b>1:09</b>	-0.3
24	T	7:07	6.8	<b>9:21</b>	6.6	1:31	3.5	<b>2:16</b>	0.0
25	F	8:28	6.5	<b>10:06</b>	6.9	2:53	3.0	<b>3:16</b>	0.3
26	S	9:39	6.5	<b>10:43</b>	7.2	3:57	2.4	<b>4:05</b>	0.5
27	S	10:38	6.5	<b>11:14</b>	7.4	4:47	1.8	<b>4:47</b>	0.8
28	M	11:28	6.6	<b>11:41</b>	7.7	5:28	1.1	<b>5:23</b>	1.1
29	T			<b>12:13</b>	6.6	6:04	0.6	<b>5:55</b>	1.5
30	W	12:06	7.8	<b>12:55</b>	6.6	6:38	0.1	<b>6:26</b>	1.9

**bold=PM**      **minus**

**MAY 2003 OSU Hatfield Marine Science  
Center Dock, Yaquina Bay, OR**

HIGH TIDE					LOW TIDE				
DATE	TIME	HT (ft)	HT (ft)	HT (ft)	HT (ft)	TIME	HT (ft)	TIME	HT (ft)
1	T	12:30	7.9	<b>1:35</b>	6.5	7:11	-0.2	<b>6:55</b>	2.2
2	F	12:55	8.0	<b>2:16</b>	6.4	7:44	-0.5	<b>7:25</b>	2.6
3	S	1:21	7.9	<b>2:58</b>	6.2	8:18	-0.6	<b>7:57</b>	2.9
4	S	1:50	7.8	<b>3:43</b>	6.0	8:55	-0.6	<b>8:30</b>	3.3
5	M	2:21	7.7	<b>4:34</b>	5.8	9:36	-0.5	<b>9:08</b>	3.6
6	T	2:57	7.4	<b>5:31</b>	5.7	10:21	-0.3	<b>9:54</b>	3.8
7	W	3:41	7.2	<b>6:34</b>	5.7	11:13	-0.1	<b>10:57</b>	3.9
8	T	4:36	6.8	<b>7:34</b>	5.9			<b>12:11</b>	-0.0
9	F	5:47	6.6	<b>8:24</b>	6.2	12:19	3.8	<b>1:10</b>	0.1
10	S	7:09	6.4	<b>9:06</b>	6.8	1:42	3.4	<b>2:08</b>	0.2
11	S	8:29	6.4	<b>9:43</b>	7.4	2:52	2.6	<b>3:01</b>	0.3
12	M	9:42	6.6	<b>10:19</b>	8.1	3:50	1.5	<b>3:49</b>	0.5
13	T	10:48	6.8	<b>10:56</b>	8.7	4:43	0.4	<b>4:36</b>	0.9
14	W	11:49	7.1	<b>11:33</b>	9.3	5:32	-0.7	<b>5:21</b>	1.2
15	T			<b>12:46</b>	7.2	6:20	-1.6	<b>6:07</b>	1.7
16	F	12:13	9.6	<b>1:43</b>	7.2	7:08	-2.2	<b>6:53</b>	2.1
17	S	12:55	9.7	<b>2:39</b>	7.1	7:56	-2.5	<b>7:41</b>	2.5
18	S	1:39	9.5	<b>3:36</b>	6.9	8:47	-2.4	<b>8:32</b>	2.9
19	M	2:27	9.1	<b>4:35</b>	6.7	9:39	-2.1	<b>9:29</b>	3.2
20	T	3:19	8.4	<b>5:37</b>	6.6	10:34	-1.5	<b>10:36</b>	3.4
21	W	4:17	7.7	<b>6:40</b>	6.6	11:32	-0.9	<b>11:52</b>	3.4
22	T	5:23	6.9	<b>7:39</b>	6.7			<b>12:31</b>	-0.2
23	F	6:40	6.2	<b>8:31</b>	6.9	1:15	3.1	<b>1:29</b>	0.3
24	S	8:00	5.8	<b>9:14</b>	7.2	2:31	2.6	<b>2:24</b>	0.8
25	S	9:15	5.7	<b>9:50</b>	7.4	3:33	2.0	<b>3:13</b>	1.3
26	M	10:19	5.7	<b>10:22</b>	7.6	4:22	1.3	<b>3:56</b>	1.7
27	T	11:16	5.8	<b>10:51</b>	7.8	5:04	0.6	<b>4:35</b>	2.1
28	W	<b>12:05</b>	5.9	<b>11:19</b>	8.0	5:41	0.1	<b>5:12</b>	2.5
29	T	<b>12:49</b>	6.0	<b>11:47</b>	8.1	6:16	-0.4	<b>5:47</b>	2.8
30	F			<b>1:32</b>	6.1	6:50	-0.7	<b>6:22</b>	3.0
31	S	12:17	8.1	<b>2:12</b>	6.2	7:25	-1.0	<b>6:57</b>	3.2

**bold=PM**      **minus**

**JUN 2003 OSU Hatfield Marine Science  
Center Dock, Yaquina Bay, OR**

HIGH TIDE				LOW TIDE					
DATE	TIME	HT (ft)	HT (ft)	TIME	HT (ft)	TIME	HT (ft)		
1	S	12:49	8.1	<b>2:54</b>	6.2	8:00	-1.1	<b>7:33</b>	3.4
2	M	1:22	8.1	<b>3:37</b>	6.2	8:38	-1.1	<b>8:12</b>	3.6
3	T	1:58	7.9	<b>4:22</b>	6.1	9:18	-1.0	<b>8:56</b>	3.7
4	W	2:39	7.7	<b>5:10</b>	6.2	10:01	-0.8	<b>9:48</b>	3.8
5	T	3:25	7.4	<b>5:58</b>	6.3	10:46	-0.6	<b>10:52</b>	3.7
6	F	4:20	7.0	<b>6:45</b>	6.6	11:35	-0.3		
7	S	5:28	6.5	<b>7:29</b>	7.0	12:06	3.4	<b>12:25</b>	0.1
8	S	6:47	6.1	<b>8:11</b>	7.5	1:21	2.8	<b>1:17</b>	0.5
9	M	8:11	5.9	<b>8:52</b>	8.1	2:30	1.9	<b>2:10</b>	1.0
10	T	9:32	5.9	<b>9:33</b>	8.7	3:31	0.8	<b>3:04</b>	1.5
11	W	10:44	6.2	<b>10:16</b>	9.2	4:26	-0.3	<b>3:56</b>	2.0
12	T	11:49	6.5	<b>11:00</b>	9.6	5:17	-1.3	<b>4:49</b>	2.4
13	F	<b>12:47</b>	6.7	<b>11:46</b>	9.8	6:07	-2.0	<b>5:41</b>	2.7
14	S			<b>1:42</b>	6.9	6:56	-2.5	<b>6:33</b>	2.9
15	S	12:32	9.8	<b>2:34</b>	7.0	7:44	-2.5	<b>7:26</b>	3.0
16	M	1:21	9.5	<b>3:26</b>	7.0	8:33	-2.3	<b>8:20</b>	3.1
17	T	2:11	9.0	<b>4:17</b>	7.0	9:21	-1.9	<b>9:18</b>	3.2
18	W	3:02	8.4	<b>5:08</b>	7.0	10:10	-1.3	<b>10:20</b>	3.2
19	T	3:57	7.6	<b>5:58</b>	7.0	10:58	-0.6	<b>11:29</b>	3.1
20	F	4:57	6.8	<b>6:47</b>	7.1	11:46	0.1		
21	S	6:06	6.0	<b>7:32</b>	7.2	12:41	2.8	<b>12:35</b>	0.8
22	S	7:23	5.4	<b>8:13</b>	7.4	1:53	2.4	<b>1:23</b>	1.5
23	M	8:44	5.2	<b>8:51</b>	7.6	2:56	1.8	<b>2:11</b>	2.2
24	T	9:59	5.2	<b>9:27</b>	7.8	3:49	1.1	<b>2:59</b>	2.7
25	W	11:03	5.4	<b>10:02</b>	7.9	4:35	0.5	<b>3:46</b>	3.0
26	T	11:56	5.7	<b>10:37</b>	8.1	5:15	0.0	<b>4:31</b>	3.3
27	F	<b>12:42</b>	5.9	<b>11:13</b>	8.3	5:53	-0.4	<b>5:14</b>	3.5
28	S	<b>1:22</b>	6.1	<b>11:50</b>	8.4	6:30	-0.8	<b>5:55</b>	3.5
29	S			<b>2:01</b>	6.3	7:07	-1.0	<b>6:36</b>	3.6
30	M	12:27	8.5	<b>2:38</b>	6.4	7:43	-1.2	<b>7:17</b>	3.6

**bold=PM**      **minus**

**JUL 2003 OSU Hatfield Marine Science  
Center Dock, Yaquina Bay, OR**

HIGH TIDE					LOW TIDE				
DATE	TIME	HT (ft)	HT	HT	TIME	HT (ft)	TIME	HT	HT
1 T	1:06	8.5	<b>3:16</b>	6.6	8:20	-1.2	<b>7:59</b>	3.6	
2 W	1:46	8.4	<b>3:55</b>	6.7	8:59	-1.1	<b>8:46</b>	3.5	
3 T	2:29	8.2	<b>4:34</b>	6.9	9:37	-0.9	<b>9:39</b>	3.4	
4 F	3:17	7.8	<b>5:13</b>	7.1	10:17	-0.6	<b>10:39</b>	3.1	
5 S	4:11	7.2	<b>5:54</b>	7.4	10:59	-0.1	<b>11:46</b>	2.7	
6 S	5:17	6.5	<b>6:36</b>	7.8	11:44	0.6			
7 M	6:36	5.9	<b>7:20</b>	8.2	12:57	2.0	<b>12:33</b>	1.3	
8 T	8:04	5.6	<b>8:07</b>	8.7	2:07	1.1	<b>1:27</b>	2.0	
9 W	9:31	5.6	<b>8:56</b>	9.1	3:12	0.2	<b>2:26</b>	2.6	
10 T	10:47	5.9	<b>9:47</b>	9.4	4:11	-0.6	<b>3:28</b>	3.0	
11 F	11:51	6.3	<b>10:39</b>	9.6	5:06	-1.4	<b>4:30</b>	3.2	
12 S	<b>12:45</b>	6.7	<b>11:30</b>	9.8	5:57	-1.9	<b>5:28</b>	3.2	
13 S			<b>1:34</b>	7.0	6:45	-2.1	<b>6:23</b>	3.2	
14 M	12:21	9.7	<b>2:19</b>	7.2	7:31	-2.0	<b>7:16</b>	3.0	
15 T	1:11	9.4	<b>3:02</b>	7.3	8:16	-1.8	<b>8:08</b>	2.9	
16 W	1:59	9.0	<b>3:44</b>	7.4	8:58	-1.3	<b>9:01</b>	2.9	
17 T	2:47	8.3	<b>4:25</b>	7.4	9:39	-0.7	<b>9:55</b>	2.8	
18 F	3:36	7.6	<b>5:05</b>	7.4	10:19	0.0	<b>10:53</b>	2.7	
19 S	4:30	6.8	<b>5:45</b>	7.4	10:58	0.8	<b>11:55</b>	2.5	
20 S	5:31	6.0	<b>6:25</b>	7.4	11:37	1.6			
21 M	6:45	5.4	<b>7:06</b>	7.5	1:01	2.2	<b>12:20</b>	2.3	
22 T	8:12	5.1	<b>7:48</b>	7.5	2:06	1.7	<b>1:08</b>	3.0	
23 W	9:39	5.1	<b>8:33</b>	7.7	3:07	1.2	<b>2:04</b>	3.5	
24 T	10:49	5.4	<b>9:19</b>	7.8	4:00	0.7	<b>3:04</b>	3.7	
25 F	11:42	5.8	<b>10:05</b>	8.1	4:46	0.2	<b>4:00</b>	3.8	
26 S	<b>12:23</b>	6.1	<b>10:49</b>	8.4	5:28	-0.2	<b>4:51</b>	3.8	
27 S	<b>1:00</b>	6.4	<b>11:31</b>	8.6	6:08	-0.6	<b>5:36</b>	3.7	
28 M			<b>1:33</b>	6.6	6:45	-0.9	<b>6:19</b>	3.5	
29 T	12:13	8.9	<b>2:07</b>	6.9	7:21	-1.1	<b>7:02</b>	3.3	
30 W	12:54	8.9	<b>2:40</b>	7.2	7:57	-1.1	<b>7:46</b>	3.0	
31 T	1:37	8.8	<b>3:13</b>	7.4	8:32	-1.0	<b>8:33</b>	2.7	

**bold=PM**      minus

**AUG 2003 OSU Hatfield Marine Science  
Center Dock, Yaquina Bay, OR**

HIGH TIDE					LOW TIDE				
DATE	TIME	HT (ft)	HT	HT	TIME	HT (ft)	TIME	HT	HT
1 F	2:22	8.5	<b>3:48</b>	7.7	9:08	-0.6	<b>9:24</b>	2.4	
2 S	3:12	7.9	<b>4:24</b>	8.0	9:46	-0.1	<b>10:20</b>	2.0	
3 S	4:08	7.2	<b>5:03</b>	8.2	10:25	0.7	<b>11:24</b>	1.6	
4 M	5:15	6.5	<b>5:46</b>	8.4	11:08	1.5			
5 T	6:36	5.8	<b>6:35</b>	8.6	12:32	1.1	<b>11:58</b>	2.3	
6 W	8:09	5.6	<b>7:31</b>	8.8	1:45	0.6	<b>12:57</b>	3.0	
7 T	9:39	5.8	<b>8:31</b>	8.9	2:55	-0.0	<b>2:09</b>	3.5	
8 F	10:51	6.2	<b>9:33</b>	9.1	3:58	-0.6	<b>3:22</b>	3.6	
9 S	11:46	6.6	<b>10:31</b>	9.3	4:55	-1.0	<b>4:29</b>	3.5	
10 S	<b>12:32</b>	6.9	<b>11:25</b>	9.4	5:45	-1.3	<b>5:27</b>	3.2	
11 M			<b>1:13</b>	7.2	6:31	-1.4	<b>6:19</b>	2.9	
12 T	12:16	9.3	<b>1:50</b>	7.5	7:13	-1.2	<b>7:07</b>	2.6	
13 W	1:03	9.1	<b>2:26</b>	7.6	7:52	-0.9	<b>7:53</b>	2.4	
14 T	1:47	8.7	<b>3:00</b>	7.7	8:28	-0.4	<b>8:38</b>	2.2	
15 F	2:32	8.1	<b>3:32</b>	7.7	9:02	0.2	<b>9:24</b>	2.1	
16 S	3:17	7.4	<b>4:05</b>	7.7	9:35	0.9	<b>10:12</b>	2.0	
17 S	4:06	6.7	<b>4:38</b>	7.6	10:08	1.6	<b>11:04</b>	1.9	
18 M	5:03	6.0	<b>5:13</b>	7.5	10:43	2.4			
19 T	6:13	5.5	<b>5:53</b>	7.4	12:03	1.8	<b>11:21</b>	3.1	
20 W	7:42	5.2	<b>6:42</b>	7.3	1:08	1.6	<b>12:11</b>	3.6	
21 T	9:16	5.3	<b>7:40</b>	7.3	2:16	1.4	<b>1:19</b>	4.0	
22 F	10:27	5.6	<b>8:41</b>	7.5	3:19	1.0	<b>2:36</b>	4.1	
23 S	11:14	6.0	<b>9:37</b>	7.9	4:12	0.5	<b>3:41</b>	4.0	
24 S	11:51	6.3	<b>10:28</b>	8.3	4:57	0.1	<b>4:34</b>	3.7	
25 M	<b>12:22</b>	6.7	<b>11:15</b>	8.7	5:38	-0.3	<b>5:19</b>	3.3	
26 T	<b>12:53</b>	7.1	<b>11:59</b>	8.9	6:15	-0.6	<b>6:03</b>	2.9	
27 W			<b>1:23</b>	7.5	6:50	-0.7	<b>6:45</b>	2.4	
28 T	12:43	9.0	<b>1:53</b>	7.9	7:25	-0.7	<b>7:30</b>	1.9	
29 F	1:29	8.9	<b>2:25</b>	8.2	8:00	-0.4	<b>8:16</b>	1.4	
30 S	2:18	8.5	<b>2:59</b>	8.5	8:36	0.2	<b>9:06</b>	1.0	
31 S	3:10	7.9	<b>3:35</b>	8.7	9:14	0.9	<b>10:01</b>	0.7	

**bold=PM**      minus

**SEP 2003 OSU Hatfield Marine Science  
Center Dock, Yaquina Bay, OR**

HIGH TIDE					LOW TIDE				
DATE	TIME	HT (ft)	HT	HT	TIME	HT (ft)	TIME	HT	HT
1 M	4:10	7.2	<b>4:16</b>	8.8	9:54	1.7	<b>11:01</b>	0.5	
2 T	5:19	6.5	<b>5:02</b>	8.7	10:39	2.5			
3 W	6:43	6.0	<b>5:59</b>	8.6	12:09	0.3	11:36	3.2	
4 T	8:17	5.9	<b>7:06</b>	8.4	1:23	0.2	<b>12:49</b>	3.7	
5 F	9:39	6.2	<b>8:19</b>	8.4	2:37	-0.1	<b>2:15</b>	3.9	
6 S	10:41	6.6	<b>9:29</b>	8.5	3:43	-0.3	<b>3:32</b>	3.6	
7 S	11:27	7.0	<b>10:30</b>	8.6	4:40	-0.5	<b>4:35</b>	3.2	
8 M	<b>12:06</b>	7.4	<b>11:23</b>	8.7	5:27	-0.6	<b>5:28</b>	2.7	
9 T			<b>12:41</b>	7.7	6:09	-0.5	<b>6:13</b>	2.2	
10 W	12:11	8.7	<b>1:12</b>	7.9	6:46	-0.2	<b>6:55</b>	1.8	
11 T	12:55	8.5	<b>1:41</b>	8.0	7:20	0.2	<b>7:35</b>	1.5	
12 F	1:37	8.1	<b>2:09</b>	8.1	7:52	0.7	<b>8:13</b>	1.3	
13 S	2:19	7.7	<b>2:36</b>	8.0	8:22	1.3	<b>8:52</b>	1.2	
14 S	3:02	7.2	<b>3:03</b>	7.9	8:52	1.9	<b>9:33</b>	1.1	
15 M	3:49	6.6	<b>3:32</b>	7.7	9:22	2.6	<b>10:18</b>	1.2	
16 T	4:43	6.1	<b>4:05</b>	7.5	9:55	3.2	<b>11:09</b>	1.2	
17 W	5:50	5.7	<b>4:44</b>	7.3	10:33	3.7			
18 T	7:17	5.5	<b>5:38</b>	7.1	12:11	1.3	11:28	4.1	
19 F	8:48	5.6	<b>6:47</b>	7.0	1:22	1.3	<b>12:50</b>	4.4	
20 S	9:51	5.9	<b>8:03</b>	7.1	2:31	1.1	<b>2:18</b>	4.3	
21 S	10:33	6.3	<b>9:09</b>	7.5	3:29	0.7	<b>3:25</b>	3.9	
22 M	11:06	6.8	<b>10:06</b>	7.9	4:17	0.4	<b>4:17</b>	3.4	
23 T	11:35	7.2	<b>10:57</b>	8.4	4:58	0.1	<b>5:02</b>	2.7	
24 W	<b>12:05</b>	7.8	<b>11:45</b>	8.6	5:36	-0.1	<b>5:45</b>	2.0	
25 T			<b>12:34</b>	8.3	6:12	-0.1	<b>6:28</b>	1.2	
26 F	12:33	8.7	<b>1:05</b>	8.8	6:48	0.2	<b>7:13</b>	0.5	
27 S	1:23	8.6	<b>1:38</b>	9.1	7:25	0.6	<b>7:59</b>	-0.1	
28 S	2:15	8.2	<b>2:14</b>	9.4	8:03	1.2	<b>8:49</b>	-0.5	
29 M	3:11	7.7	<b>2:52</b>	9.4	8:44	2.0	<b>9:42</b>	-0.6	
30 T	4:13	7.1	<b>3:36</b>	9.1	9:28	2.7	<b>10:41</b>	-0.5	

**bold=PM**      minus

**OCT 2003** OSU Hatfield Marine Science  
Center Dock, Yaquina Bay, OR

HIGH TIDE				LOW TIDE					
DATE	TIME	HT (ft)	HT (ft)	TIME	HT (ft)	TIME	HT (ft)		
1	W	5:25	6.6	<b>4:28</b>	8.8	10:21	3.4	<b>11:48</b>	-0.3
2	T	6:48	6.4	<b>5:31</b>	8.3	11:30	3.9		
3	F	8:12	6.4	<b>6:50</b>	7.9	1:01	-0.1	<b>12:58</b>	4.0
4	S	9:22	6.8	<b>8:12</b>	7.7	2:15	0.1	<b>2:28</b>	3.8
5	S	10:14	7.2	<b>9:25</b>	7.8	3:20	0.1	<b>3:40</b>	3.2
6	M	10:56	7.5	<b>10:27</b>	7.9	4:14	0.2	<b>4:36</b>	2.6
7	T	11:30	7.8	<b>11:19</b>	7.9	4:59	0.3	<b>5:22</b>	2.0
8	W			<b>12:01</b>	8.1	5:38	0.6	<b>6:03</b>	1.4
9	T	12:05	7.9	<b>12:28</b>	8.3	6:12	0.9	<b>6:40</b>	1.0
10	F	12:48	7.7	<b>12:54</b>	8.4	6:44	1.4	<b>7:15</b>	0.6
11	S	1:29	7.5	<b>1:19</b>	8.4	7:13	1.9	<b>7:50</b>	0.4
12	S	2:10	7.2	<b>1:43</b>	8.3	7:42	2.4	<b>8:25</b>	0.3
13	M	2:53	6.9	<b>2:09</b>	8.2	8:12	2.9	<b>9:02</b>	0.3
14	T	3:39	6.6	<b>2:38</b>	7.9	8:43	3.4	<b>9:42</b>	0.5
15	W	4:31	6.3	<b>3:10</b>	7.7	9:17	3.8	<b>10:29</b>	0.7
16	T	5:35	6.0	<b>3:50</b>	7.3	10:00	4.2	<b>11:25</b>	0.9
17	F	6:51	5.9	<b>4:44</b>	7.0	11:01	4.5		
18	S	8:07	6.0	<b>5:58</b>	6.8	12:30	1.0	<b>12:30</b>	4.5
19	S	9:02	6.4	<b>7:22</b>	6.8	1:37	1.0	<b>1:58</b>	4.2
20	M	9:41	6.8	<b>8:37</b>	7.1	2:37	0.9	<b>3:04</b>	3.7
21	T	10:14	7.3	<b>9:42</b>	7.4	3:27	0.7	<b>3:56</b>	2.8
22	W	10:44	7.9	<b>10:39</b>	7.8	4:11	0.6	<b>4:43</b>	1.9
23	T	11:15	8.6	<b>11:33</b>	8.0	4:52	0.7	<b>5:27</b>	0.9
24	F	11:47	9.2			5:32	0.9	<b>6:11</b>	-0.1
25	S	12:27	8.2	<b>12:21</b>	9.7	6:11	1.3	<b>6:56</b>	-0.9
DAYLIGHT TIME ENDS									
26	S	1:20	8.1	11:57	10.0	5:51	1.8	<b>6:44</b>	-1.4
27	M	1:15	7.9	<b>12:36</b>	10.1	6:34	2.4	<b>7:33</b>	-1.6
28	T	2:12	7.6	<b>1:19</b>	9.8	7:19	2.9	<b>8:26</b>	-1.5
29	W	3:15	7.3	<b>2:07</b>	9.4	8:10	3.5	<b>9:23</b>	-1.1
30	T	4:23	7.0	<b>3:04</b>	8.7	9:12	3.9	<b>10:26</b>	-0.6
31	F	5:37	6.9	<b>4:12</b>	8.0	10:30	4.1	<b>11:34</b>	-0.1
				<b>bold=PM</b>		<b>minus</b>			

**NOV 2003** OSU Hatfield Marine Science  
Center Dock, Yaquina Bay, OR

HIGH TIDE				LOW TIDE					
DATE	TIME	HT (ft)	HT (ft)	TIME	HT (ft)	TIME	HT (ft)		
1	S	6:48	7.1	<b>5:33</b>	7.4			<b>12:01</b>	4.0
2	S	7:48	7.4	<b>6:58</b>	7.1	12:42	0.3	<b>1:26</b>	3.5
3	M	8:36	7.7	<b>8:14</b>	7.0	1:43	0.7	<b>2:33</b>	2.8
4	T	9:15	8.1	<b>9:18</b>	7.0	2:36	1.0	<b>3:26</b>	2.0
5	W	9:48	8.3	<b>10:12</b>	7.1	3:20	1.4	<b>4:10</b>	1.4
6	T	10:17	8.5	<b>11:00</b>	7.1	3:59	1.8	<b>4:48</b>	0.8
7	F	10:44	8.7	<b>11:44</b>	7.1	4:34	2.2	<b>5:23</b>	0.3
8	S	11:09	8.7			5:06	2.6	<b>5:56</b>	0.0
9	S	12:26	7.1	11:35	8.7	5:37	3.0	<b>6:29</b>	-0.2
10	M	1:07	7.0	<b>12:01</b>	8.6	6:08	3.4	<b>7:03</b>	-0.3
11	T	1:48	6.9	<b>12:30</b>	8.5	6:40	3.7	<b>7:39</b>	-0.2
12	W	2:33	6.7	<b>1:01</b>	8.2	7:15	4.0	<b>8:18</b>	-0.0
13	T	3:22	6.5	<b>1:36</b>	8.0	7:53	4.3	<b>9:02</b>	0.2
14	F	4:18	6.4	<b>2:18</b>	7.6	8:41	4.5	<b>9:51</b>	0.5
15	S	5:18	6.4	<b>3:10</b>	7.2	9:45	4.6	<b>10:46</b>	0.7
16	S	6:15	6.6	<b>4:19</b>	6.9	11:07	4.5	<b>11:42</b>	0.9
17	M	7:03	7.0	<b>5:42</b>	6.6			<b>12:29</b>	4.1
18	T	7:42	7.5	<b>7:05</b>	6.6	12:38	1.0	<b>1:37</b>	3.3
19	W	8:18	8.1	<b>8:19</b>	6.8	1:30	1.2	<b>2:33</b>	2.3
20	T	8:52	8.7	<b>9:26</b>	7.1	2:19	1.5	<b>3:23</b>	1.1
21	F	9:28	9.4	<b>10:27</b>	7.4	3:06	1.8	<b>4:09</b>	-0.0
22	S	10:05	10.0	<b>11:24</b>	7.7	3:52	2.1	<b>4:56</b>	-1.0
23	S	10:44	10.4			4:37	2.5	<b>5:43</b>	-1.7
24	M	12:19	7.8	11:26	10.6	5:24	2.9	<b>6:30</b>	-2.1
25	T	1:14	7.8	<b>12:11</b>	10.5	6:12	3.2	<b>7:20</b>	-2.1
26	W	2:10	7.7	<b>12:58</b>	10.1	7:03	3.5	<b>8:11</b>	-1.8
27	T	3:08	7.6	<b>1:50</b>	9.5	8:00	3.8	<b>9:05</b>	-1.3
28	F	4:07	7.5	<b>2:47</b>	8.7	9:05	4.0	<b>10:01</b>	-0.6
29	S	5:08	7.5	<b>3:53</b>	7.9	10:21	4.0	<b>10:59</b>	0.1
30	S	6:08	7.7	<b>5:09</b>	7.1	11:45	3.7	<b>11:58</b>	0.8
				<b>bold=PM</b>		<b>minus</b>			

**DEC 2003** OSU Hatfield Marine Science  
Center Dock, Yaquina Bay, OR

HIGH TIDE				LOW TIDE					
DATE	TIME	HT (ft)	HT (ft)	TIME	HT (ft)	TIME	HT (ft)		
1	M	7:01	7.9	<b>6:33</b>	6.5			<b>1:05</b>	3.2
2	T	7:47	8.1	<b>7:54</b>	6.3	12:54	1.4	<b>2:13</b>	2.5
3	W	8:27	8.4	<b>9:05</b>	6.3	1:46	2.0	<b>3:06</b>	1.7
4	T	9:01	8.6	<b>10:05</b>	6.4	2:33	2.5	<b>3:51</b>	1.1
5	F	9:32	8.8	<b>10:57</b>	6.6	3:16	2.9	<b>4:29</b>	0.5
6	S	10:02	8.9	<b>11:42</b>	6.8	3:55	3.3	<b>5:04</b>	0.1
7	S	10:31	8.9			4:32	3.6	<b>5:38</b>	-0.2
8	M	12:24	6.9	11:01	8.9	5:08	3.8	<b>6:12</b>	-0.4
9	T	1:03	7.0	11:33	8.9	5:44	4.0	<b>6:47</b>	-0.5
10	W	1:42	7.0	<b>12:06</b>	8.8	6:20	4.2	<b>7:22</b>	-0.4
11	T	2:23	7.0	<b>12:41</b>	8.6	6:58	4.3	<b>8:00</b>	-0.3
12	F	3:05	7.0	<b>1:19</b>	8.4	7:40	4.4	<b>8:40</b>	-0.1
13	S	3:49	7.0	<b>2:01</b>	8.0	8:29	4.5	<b>9:21</b>	0.1
14	S	4:34	7.1	<b>2:52</b>	7.6	9:29	4.4	<b>10:05</b>	0.5
15	M	5:18	7.3	<b>3:54</b>	7.0	10:39	4.2	<b>10:52</b>	0.9
16	T	6:00	7.7	<b>5:12</b>	6.5	11:55	3.6	<b>11:42</b>	1.4
17	W	6:41	8.2	<b>6:39</b>	6.2			<b>1:05</b>	2.7
18	T	7:22	8.7	<b>8:04</b>	6.3	12:34	1.9	<b>2:07</b>	1.7
19	F	8:04	9.3	<b>9:20</b>	6.6	1:29	2.4	<b>3:02</b>	0.5
20	S	8:47	9.9	<b>10:26</b>	6.9	2:24	2.9	<b>3:54</b>	-0.5
21	S	9:32	10.4	<b>11:25</b>	7.3	3:19	3.2	<b>4:43</b>	-1.4
22	M	10:19	10.7			4:12	3.4	<b>5:32</b>	-1.9
23	T	12:18	7.6	11:07	10.8	5:06	3.6	<b>6:20</b>	-2.2
24	W	1:09	7.8	11:56	10.6	5:59	3.6	<b>7:08</b>	-2.0
25	T	1:59	7.9	<b>12:46</b>	10.2	6:53	3.6	<b>7:56</b>	-1.7
26	F	2:48	7.9	<b>1:38</b>	9.6	7:50	3.6	<b>8:43</b>	-1.1
27	S	3:37	8.0	<b>2:32</b>	8.7	8:51	3.6	<b>9:31</b>	-0.3
28	S	4:26	8.0	<b>3:31</b>	7.8	9:58	3.5	<b>10:18</b>	0.5
29	M	5:15	8.1	<b>4:39</b>	6.8	11:12	3.3	<b>11:05</b>	1.3
30	T	6:02	8.2	<b>5:58</b>	6.1	<b>12:27</b>	2.9	<b>11:55</b>	2.1
31	W	6:47	8.3	<b>7:29</b>	5.7			<b>1:36</b>	2.3
				<b>bold=PM</b>		<b>minus</b>			