

Launching Times To Avoid
 Summer 2011
 Twanoh, Union and Potlatch Ramps

May 2011/ Avoid	Actual time/tide
27 8-9:30am	(8:40am 1.9)
28 8:30-10am	(9:12am 1.0)
29 8:30-10:30am	(9:42am 0.1)
30 9-11:30am	(10:12am -0.7)

June 2011/Avoid	Actual time/tide
1 9am-1:30pm	(11:18am -1.9)
2 10am-3pm	(11:55am -2.2)
3 10am-3pm	(12:34pm -2.4)
4 11am-3:30pm	(1:15pm -2.5)
5 noon-4pm	(1:59pm -2.0)
6 12:30-4:30pm	(2:44pm -1.3)
7 2pm-5pm	(3:32pm -0.1)
8 3pm-5pm	(4:23pm 1.3)
9 4:30p-6:30p	(5:20pm 2.9)
10 anytime after 9am is ok to launch	
11 anytime after 9am is ok to launch	
12 7:30a-10:30a	(8:48am -1.2)
13 7:30a-11:30a	(9:34a -2.2)
14 8:30a-12:30p	(10:20a -2.9)
15 8:30a-1:30p	(11:04a -3.2)
16 9am-2pm	(11:38 -3.2)
17 10am-3pm	(12:31pm -2.8)
18 11am-3pm	(1:14 -2.1)
19 12:30p-4:30pm	(1:57 -1.1)
20 1pm-4pm	(2:30pm 0.0)
21 2:30p-4:30pm	(3:21pm 1.4)
22 3-5pm	(4:06pm 2.9)
23 All day ok to launch	
24 Anytime after 7:30am ok to launch	
25 6:30am-8:30a	(7:39am 1.5)
26 7:30am-10am	(8:21am 0.7)
27 7:30am-11am	(9am -0.2)
28 8am-11am	(9:38am -0.9)
29 8am-noon	(10:16am -1.6)
30 8:30am-1:30p	(10:54am -2.1)

July 2011/Avoid	Actual time/tide
1 9:30a-1:30p	(11:34am -2.5)
2 1030a-2:30p	(12:15 -2.6)
3 10:30a-3pm	(12:56p -2.4)
4 11am-3:30pm	(1:39pm -1.7)
5 1pm-4pm	(2:23pm -0.6)

6 2pm-4:30pm	(3:08pm 0.9)
7 3pm-5pm	(3:57pm 2.6)
8 Anytime after 7am ok to launch	
9 Anytime after 8:30 ok to launch	
10 6am-9am	(7:30am -0.6)
11 7am-10am	(8:25am -1.4)
12 7am-11:30am	(9:17am -2.1)
13 7:30am-12:30p	(10:05 -2.4)
14 8:30am-1:30p	(10:50am -2.5)
15 9am-2pm	(11:33am -2.2)
16 10am-2:30pm	(12:13 -1.8)
17 11am-3pm	(12:53 -1.1)
18 noon-3pm	(1:31pm -0.1)
19 1pm-3:30pm	(2:08 1.0)
20 1:30pm-4pm	(2:46pm 2.4)
21 ok all day to launch	
22 ok all day to launch	
23 anytime after 7 am ok to launch	
24 anytime after 8 am ok to launch	
25 6am- 9am	(7:27am 0.7)
26 7am-9:30am	(8:17am 0.0)
27 7:30am-10:30a	(9:05am -0.7)
28 8am-noon	(9:49am -1.4)
29 8:32am-12:30p	(10:32am -1.9)
30 9am-1pm	(11:13am -2.1)
31 10am-2pm	(11:55am -2.0)

August/Avoid	Actual time/tide
1 11am-2pm	(12:37pm -1.5)
2 11:30am-2:30p	(1:10pm -0.5)
3 1pm-3pm	(2:03pm 0.9)
4 1:30pm-3:30p	(2:49pm 2.5)
5 ok to launch all day	
6 ok to launch all day	
7 anytime after 8 am ok to launch	
8 5:30am-8:30a	(7:02am -0.6)
9 6am-9:30am	(8:05am -0.9)
10 7am-11am	(9:02am -1.1)
11 7:30am-noon	(9:52am -1.2)
12 8:30am-12:30p	(10:37am -1.1)
13 9:30am-1pm	(11:17am -0.8)
14 10:30am-1:30p	(11:54 -0.2)
15 11am-2pm	(12:30pm 0.5)
16 noon-2pm	(1:05pm 1.5)
17 12:30-2:30pm	(1:41pm 2.5)
18 2-3pm	(2:17pm 3.7)
19 ok all day to launch	
20 ok all day to launch	

Aug 2011/Avoid	Actual time/tide
21	ok all day to launch
22	anytime after 6:30am ok to launch
23	5am-8am (6:33am 0.9)
24	6am-9am (7:34am 0.4)
25	7am-10am (8:30am -0.2)
26	8am-11am (9:20am -0.7)
27	8:30am-11:30a (10:06 -1.0)
28	9am-12:30pm (10:50am -0.9)
29	9:32am-1:30p (11:32am -0.5)
30	10:30am-2pm (12:16pm 0.4)
31	noon-2pm (1:00pm 1.6)

Sep 2011/Avoid	Actual time/tide
1	1pm-2:30pm (1:46pm 2.9)
2	ok to launch all day
3	ok to launch all day
4	ok to launch all day
5	anytime after 7am ok to launch