

# Puget Sound Seabird Survey



## 4hr Survey Windows for 2019-2020 Season

We ask that you conduct your seabird surveys within four-hour survey windows, centered on the daytime high tides, on the first Saturday of every month, October 2019 through April 2020. Some survey windows have been shifted to start 30 minutes after sunrise or to end 30 minutes before sunset to promote optimum viewing conditions. Due to the significant difference in tide times from the most easterly survey site (Seward Park) to the most westerly site (Cape Flattery), survey sites have been divided into three “tide zones”. To determine which tide zone your survey site falls within, and therefore which set of 4-hour survey windows to utilize, find your site number or site name in one of the three boxed lists below and refer to the table for the time of your 4-hour survey window. **Please be sure to complete your survey(s) within the 4-hour window.**

SURVEYS

<b>PSSS Sites Numbered 1-92, 108+</b> North of Deception Pass, Olympia Waterfront in the South, Seward Park in the East, and West to Fort Townsend.	<b>PSSS Sites Numbered 93 – 102</b> Diamond Point John Wayne Marina Port Williams Ediz Hook North Ediz Hook South	<b>PSSS Sites Numbered 103 – 107</b> Twin River Pillar Point Rec. Area Sekiu Shipwreck Point Cape Flattery
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Survey Date	Tide Zone 1		Tide Zone 2		Tide Zone 3		sunrise	sunset
	high tide	PSSS survey window	high tide	PSSS survey window	high tide	PSSS survey window		
October 5 2019	12:15pm	10:15am – 2:15pm	12:13pm	10:15am – 2:15pm	7:41am	7:43am – 11:43am*	7:13am	6:40pm
November 2 2019	10:39am	8:39am – 12:39pm	9:52am	8:24am – 12:24pm*	4:32pm	1:20pm – 5:20pm*	7:54am	5:50pm
December 7 2019	1:12pm	11:12am – 3:12pm	11:03am	9:03am – 1:03pm	9:20am	8:13am – 12:13pm*	7:43am	4:18pm
January 4 2020	11:28am	9:28am – 1:28pm	9:32am	8:27am – 12:27pm*	7:35am	8:27am – 12:27pm*	7:57am	4:31pm
February 1 2020	9:44am	8:06am – 12:06pm*	7:53am	8:06am – 12:06pm*	6:00pm	12:40pm – 4:40pm*	7:36am	5:10pm
March 7 2020	2:23pm	12:23pm – 4:23pm	11:34am	9:34am – 1:34pm	10:23am	8:23am – 12:23pm	6:37am	6:04pm
April 4 2020	2:16pm	12:16pm – 4:16pm	11:24am	9:24am – 1:24pm	10:07pm	8:07am – 12:07pm	6:40am	7:44pm

NOAA tide predictions for: Seattle, WA

Port Angeles, WA

Neah Bay, WA

(Sunrise/set times for Seattle)

\*indicates that the survey window required adjustment due to the high tide proximity to sunrise or sunset