



## Regional Operations Centre, Canadian Coast Guard Western



### Science Cruise Report: PAC 2018-039

Report last updated: 2018-05-23 18:22:21

Link to Original Plan: [https://www.waterproperties.ca/requests/cruiseplanview.php?](https://www.waterproperties.ca/requests/cruiseplanview.php?cruiseid=2018-039)

cruiseid=2018-039

Department/Group:	Fisheries and Oceans Canada, OSD
Other Participating Groups:	UVic
Science Cruise Number:	PAC 2018-039
Alternative Cruise Number:	
Ship's Patrol Number:	
Name of Vessel/Platform:	Sir Wilfrid Laurier
Dates:	From: Sunday 06-May-2018 To: Saturday 19-May-2018
Chief Scientist:	Marie Robert, 250-363-6612, <a href="mailto:marie.robert@dfo-mpo.gc.ca">marie.robert@dfo-mpo.gc.ca</a>
Master:	Simon Dockerill
Fishing Master:	
Appropriateness of Vessel:	Good

### Time Allocations

#### Originally Allocated Days 12.00

Accounting below is given in days and should match the originally allocated days above.

Weather	+ 0.25	About 6 hours at offshore end of Brooks Peninsula line
SAR	+ 0.00	
CCG Refueling	+ 0.00	Other CCG commitments were made during the DFO ship time.
CCG Ship Repair & Maintenance	+ 0.00	
CCG Crew Changes	+ 1.00	
CCG Other	+ 1.00	
Science Operations	+ 9.00	
Science Equipment Loading/Unloading	+ 0.75	
Science Other	+ 0.00	
Days Gained	+ 0.00	
<b>Days Grand Total</b>	<b>= 12.00</b>	

**Time Allocation Comments:** Even though we were supposed to have the ship for science purposes on Friday 18 May, other commitments were made by CCG (Training and others)

for that morning. Some of our work could not be completed because of these commitments.

## Cruise Events

### Areas of Operations

Juan de Fuca, Strait of Georgia, Washington State, West Coast Vancouver Island, Northwest Coast Vancouver Island

### Scientific Personnel

Male - Name	Notes (Affiliation, Watches, Duties, etc)
Glenn Cooper	CTD watch leader
Matt Miller	Watch, Dower student
John Dower	Watch
Female - Name	Notes (Affiliation, Watches, Duties, etc)
Marie Robert	Chief Scientist, data, sampling
Moirra Galbraith	Bongo watch leader
Kelly Young	Bongo watch leader
Nina Nemcek	CTD watch leader
Tamara Fraser	Oxygen, NH4
Theresa Venello	Watch, Dower student
Robyn Sahota	Watch

### Event Log

Monday 7 May: Start loading heavy equipment at 0800. Load scientific gear around 1000.  
 Tuesday 8 May: Crew change around noon. Safety meeting 1530. Science meeting 1745. Leave the dock ~1830.  
 Test cast in Saanich Inlet ~1900. Underway around 1930. Station Haro59.  
 Wednesday 9 May: Stations JF2, and LB line from LB01 to B8. Fire and boat drill at 1230.  
 Thursday 10 May: LB line from B8 to LB16, and LC12.  
 Friday 11 May: LC line from LC11 to LC01, and Stations LD02 and LD04.  
 Saturday 12 May: LG line, LG01 to LG09. Start sailing to offshore end of LBP line.  
 Sunday 13 May: 6 hours wait because of weather. LBP line, then sail towards CPE2.  
 Monday 14 May: CPE2, LQ03, JI22, start CS line CS00 to CS04.  
 Tuesday 15 May: Complete CS line CS3B to CS10, start SS line SS6 to SS2.  
 Wednesday 16 May: Complete SS2, then sail to CPE1, JS, Seymour Narrows tide around 1900, then SofG stations 16 and 14.  
 Thursday 17 May: Complete Strait of Georgia stations 12 to 42.  
 Friday 18 May: Back to IOS ~0800 and offload. CCG training and Laurier "Family Day."

### Scientific Equipment Report

The TSG has no flow meter.

The SBE25 that was provided has problems with the pressure sensor. It is unclear at this moment if it's a set-up in the configuration file or a bad factory setting, or if this CTD simply cannot record the pressure according to our usual standards. Using the stand-alone CTD would have been a great way to save time but the sacrifice in data quality was too great. It is very unfortunate that we received that specific SBE25 since not all 25s have that problem.

Many Niskin bottles were leaking. One Niskin actually split in half, and a few Niskins either had the lanyard or the internal tubing break. Pretty much every rosette cast had a Niskin that had leaking caps, either top or

bottom. The rosettes are supposed to be serviced every winter; it's hard to understand how the lanyard can break on a rosette recently serviced. Some of those lanyards looked awfully brittle, and many of the Niskin caps were chipped.

Also the Rosette Repair Kit wasn't loaded so we could not change the old lanyards.

## Radioisotope Report

No radioisotopes were used.

## Scientific Successes and Concerns

Thanks again for Mike Dempsey, Jane Eert and Sarah Zimmerman for their help setting up.

Thanks also to Humfrey Melling for the use of the (real) Blue Container.

## Platform Successes and Concerns

There is no cold room on board to preserve some of our samples. Since the weather was quite warm even in the helicopter hanger, which we used as a "cold room", some of our samples might be compromised.

A block and tackle system was made by the bosun to lift the bongo weight over the rail. The crew decided to not use it, preferring to lift the weight themselves. But at least the scientists didn't have to deal with the weight, the crew helped every time (thanks!).

There were a few issues with the CTD winch but we could still use it without loss of time.

## Safety Concerns

It can be tricky to bring frozen samples from the main lab to the freezers located in the hold.

## Hazardous Occurrences

None involving science staff.

## Other Comments

Thanks to Captain Dockerill for the extra speed near the end of the cruise.

Many big "Thank You"s to everyone on board! It was fun to sail with you guys, and maybe we'll see some of you on a different vessel when the Laurier goes for her own VLE!

## Images

[No Alternative Image Provided]

**Image notes:**