



## Regional Operations Centre, Canadian Coast Guard Western



### Science Cruise Report: PAC 2018-090

Report last updated: 2018-08-23 14:59:05

Link to Original Plan: [https://www.waterproperties.ca/requests/cruiseplanview.php?](https://www.waterproperties.ca/requests/cruiseplanview.php?cruiseid=2018-090)

cruiseid=2018-090

Department/Group:	Fisheries and Oceans Canada, OSD
Other Participating Groups:	EEEC, Dalhousie University
Science Cruise Number:	PAC 2018-090
Alternative Cruise Number:	
Ship's Patrol Number:	
Name of Vessel/Platform:	Vector
Dates:	From: Wednesday 15-Aug-2018 To: Tuesday 21-Aug-2018
Chief Scientist:	Svein Vagle, 250-363-6339, <a href="mailto:Svein.Vagle@dfo-mpo.gc.ca">Svein.Vagle@dfo-mpo.gc.ca</a>
Master:	Chris Ross
Fishing Master:	
Appropriateness of Vessel:	Not Rated

### Time Allocations

#### Originally Allocated Days

6.00

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

Weather	+ 0.00	
SAR	+ 0.00	
CCG Refueling	+ 0.00	
CCG Ship Repair & Maintenance	+ 0.15	Freezer repair in Victoria
CCG Crew Changes	+ 0.00	
CCG Other	+ 0.00	
Science Operations	+ 4.75	
Science Equipment Loading/Unloading	+ 1.00	
Science Other	+ 0.10	Some time lost due to late shipment of science gear from the east coast that had to be picked up in Victoria
Days Gained	+ 0.00	
<b>Days Grand Total</b>	<b>= 6.00</b>	

#### Time Allocation Comments:

The freezer issue coincided with us having to go in to pick up late science gear, so that worked out nicely for both science and crew.

## Cruise Events

### Areas of Operations

Juan de Fuca

### Scientific Personnel

Male - Name	Notes (Affiliation, Watches, Duties, etc)
Svein Vagle	No requests. Just don't seem to be able to change it to nothing
Hugh Maclean	
Harald Yurk	
Calder Robinson	

Female - Name	Notes (Affiliation, Watches, Duties, etc)
Caitlin O'Neill	
Megan Willie	

### Event Log

All operations between Barclay Sound, Swiftsure Bank and Boundary Pass. Bird observations daily when fog and sea state allowed.

15 August: 12:00-18:00 Loaded science gear at IOS. Steamed to Swiftsure Bank overnight.

16 August: AM. Recovered, serviced and redeployed Swiftsure Bank hydrophone mooring. CTD at mooring site.

16 August: PM. Heading back to Huron Street to pick up Harald Yurk and towed array (arriving late from Halifax) and to repair ship's freezer. Stayed overnight at the base before leaving 05:00 17 August heading for Sooke.

17 August: AM. Recovered, serviced and redeployed Sooke hydrophone mooring. CTD at mooring site.

17 August: PM. Recovered, serviced and redeployed Jordan River mooring hydrophone mooring. CTD at mooring site. Deployed towed hydrophone array and towed all night in Swiftsure Bank area, with stop for CTD every 2 hours. Foggy.

18 August: AM Continue towing hydrophone array and collecting CTD profiles in Swiftsure Bank area. 14:00 recovered array and steamed towards Port Renfrew to recover mooring. Found this site totally fogged and decided it was too risky to attempt mooring recovery. Turned around and headed westward again. 16:45 deployed hydrophone array and steamed along 50m depth contour along the coast to Barclay Sound area. CTDs every 2 hours.

19 August: 04:20 ended towed array run and steamed towards Port Renfrew again. 09:20 Port Renfrew mooring recovered, serviced and redeployed. CTD at mooring site. Fog lifting.

19 August: PM. Towing hydrophone array in Swiftsure Bank area until 22:45. Heading for Haro Strait.

20 August: AM. Recovered, serviced and redeployed Haro Strait hydrophone mooring. CTD at mooring site.

20 August: PM. Recovered, serviced and redeployed Boundary Pass hydrophone mooring. CTD at mooring site.

20 August: Evening. Running grid over Haro Strait mooring with CTD cast every 2 hours.

21 August: 03:30 ended grid at Haro Strait. Heading for IOS. Arrived at IOS at 07:00. Offloading science gear.

### Scientific Equipment Report

Using SBE 25 deployed from Starboard forward. This worked well.

Hydrophone array borrowed from DRDC in Halifax worked well initially and then slowly started to fail. Found out on the last day that the main connector had developed a slow leak.

No other science equipment used during the cruise.

**Radioisotope Report**

NA

**Scientific Successes and Concerns**

All objectives off the cruise were completed. The lack of wind and waves at and around Swiftsure Bank allowed for many more towed array transects out there than was originally planned and hoped for. Sea state can easily become an issue at the mouth of Juan de Fuca.

**Platform Successes and Concerns**

Great officers and crew that were very helpful and professional and therefore an important reason for the success of the mission.

**Safety Concerns**

None

**Hazardous Occurrences**

None

**Other Comments**

[Not Entered]

**Images**

[No Alternative Image Provided]

**Image notes:**

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