



Regional Operations Centre, Canadian Coast Guard Western



Science Cruise Report: PAC 2019-005

Report last updated: 2019-06-02 19:39:48

Link to Original Plan: [https://www.waterproperties.ca/requests/cruiseplanview.php?](https://www.waterproperties.ca/requests/cruiseplanview.php?cruiseid=2019-005)

cruiseid=2019-005

Department/Group:	Fisheries and Oceans Canada, OSD
Other Participating Groups:	UVic
Science Cruise Number:	PAC 2019-005
Alternative Cruise Number:	
Ship's Patrol Number:	18-03
Name of Vessel/Platform:	J.P. Tully
Dates:	From: Tuesday 21-May-2019 To: Sunday 02-Jun-2019
Chief Scientist:	Marie Robert, 250-363-6612, Marie.Robert@dfo-mpo.gc.ca
Master:	Victor Gronmyr
Fishing Master:	
Appropriateness of Vessel:	Excellent

Time Allocations

Originally Allocated Days **11.00**

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

Weather	+ 0.00
SAR	+ 0.00
CCG Refueling	+ 0.25
CCG Ship Repair & Maintenance	+ 0.00
CCG Crew Changes	+ 0.00
CCG Other	+ 0.00
Science Operations	+ 9.75
Science Equipment Loading/Unloading	+ 1.00
Science Other	+ 0.00
Days Gained	+ 0.00

Days Grand Total = 11.00

Time Allocation Comments:

Cruise Events

Areas of Operations

Juan de Fuca, Strait of Georgia, Johnstone Strait, West Coast Vancouver Island, Northwest Coast Vancouver Island, Hecate Strait, Northeast Pacific

Scientific Personnel

Male - Name	Notes (Affiliation, Watches, Duties, etc)
Glenn Cooper	Watch Leader
Matt Miller	Watch
Kevin Yongblah	Watch
Brandon McNabb	Watch
Michael Livingston	Watch
Akash Sastri	Watch

Female - Name	Notes (Affiliation, Watches, Duties, etc)
Moirra Galbraith	Co-Watch Leader
Nina Nemcek	Oxygen and Ammonia
Chelsea Stanley	Watch Leader
Kelly Young	Co-Watch Leader
Marie Robert	Chief Scientist
Pandora Gibb	Watch
Robyn Sahota	Watch

Event Log

Tuesday 21 May: Load the trucks at IOS in the morning. Start loading scientific gear on the ship around 1300.

Wednesday 22 May: Science meeting at 0830, safety meeting at 0900. Leave the dock ~1000. Test cast in Saanich Inlet. Fire and boat drill at 1300 then station 59. After a look at the weather forecast and consultation with people on board and in the office, we decide to do the cruise counter-clockwise. Turn around when just south of Victoria. Station 42.

Thursday 23 May: Stations GEO1, CPF1, 22, CPF2, 12. Spend ~1h30 to localise mooring SOGN; success. Catch the 2120 tide at Seymour Narrows.

Friday 24 May: Station JS. Deploy 12 Sponge-Bob drifters in Queen Charlotte Strait. Spend ~1h to localise mooring LBA-1 in Gordon Channel; success. Spend ~3 hours in Marsh Bay to calibrate the 120kHz transducer of the acoustic sounder; no success, too many fish and current. Station CPE1, deploy one "Scott Islands (SI)" Sponge-Bob drifter.

Saturday 25 May: Stations CS10 to CS04. Deploy 2 SI Sponge-Bob drifters.

Sunday 26 May: Stations CS04 to LQ03. Deploy 2 SI Sponge-Bob drifters.

Monday 27 May: Station CPE2, LBP line, Station LJ06.

Tuesday 28 May: Stations LJ05 to LJ01; LG line.

Wednesday 29 May: LD line, Stations LC01 to LC07.

Thursday 30 May: Stations LC08 to LC12, LB16 to LB14

Friday 31 May: LB line from LB13 inbound. Deploy CM mooring. Stations C1 and E1 cancelled.

Saturday 1 June: Acoustic sounder calibration in Coles Bay; success. Offload. Fuel.

Scientific Equipment Report

PROBLEMS [SCIENTIFIC GEAR AND OPERATIONS]:

The tubing inside two of the Niskin bottles broke and there was no spare tubing on board.

A station CS02 the conductive wire of the CTD winch jumped sheave and this damaged the end of the Evergrip. The damaged ends got cut and taped to make them smooth. There was enough Evergrip left to work safely. The Evergrip could not be replaced because the clevis was seized up; a full termination would have been required.

During the rosette cast at CS02 we had some error messages in the CTD software and could not close some of

the Niskins. The pylon got replaced between CS02 and CS01. A full termination was done between CPE2 and LB01.

SUCCESES [SCIENTIFIC]:

We managed to do most of the intended work by changing the regular (clockwise) order of the cruise and doing the work in the Strait of Georgia first, then going south along the coast of Vancouver Island. Had we gone the regular way we would not have accomplished much due to bad weather for a few days along the SCVI. We managed to locate two moorings that got dragged by other vessels for David Spear's group.

Radioisotope Report

Radioisotopes were used during this cruise. Because of problems with the boat davit, and the necessity to bring a different rescue boat, the Rad-van could not be used. The radioisotopes used being of very low activity and quantity, the work was carried in the main lab.

Scientific Successes and Concerns

See two windows above.

Platform Successes and Concerns

PROBLEMS [SHIP'S EQUIPMENT/OPERATIONS/PLATFORM SUITABILITY]:

The bongo winch was doing a painful squealing noise for the first few days of the cruise. The deck crew eventually found the problematic bearing and greased it very well, silencing the winch.

Many parts of the LARS boom were missing some grease.

We had a hydraulic leak in the LARS head at the beginning of station LG03; we cancelled that CTD cast.

The winch lowering and bringing up the gate at the Rosette landing site sounds quite "tired".

SUCCESES [SHIP]:

The LARS worked well for many CTD and Rosette casts despite the state it was left in after the quinquennial servicing.

Safety Concerns

None.

Hazardous Occurrences

None involving the science staff.

Other Comments

[Not Entered]

Images

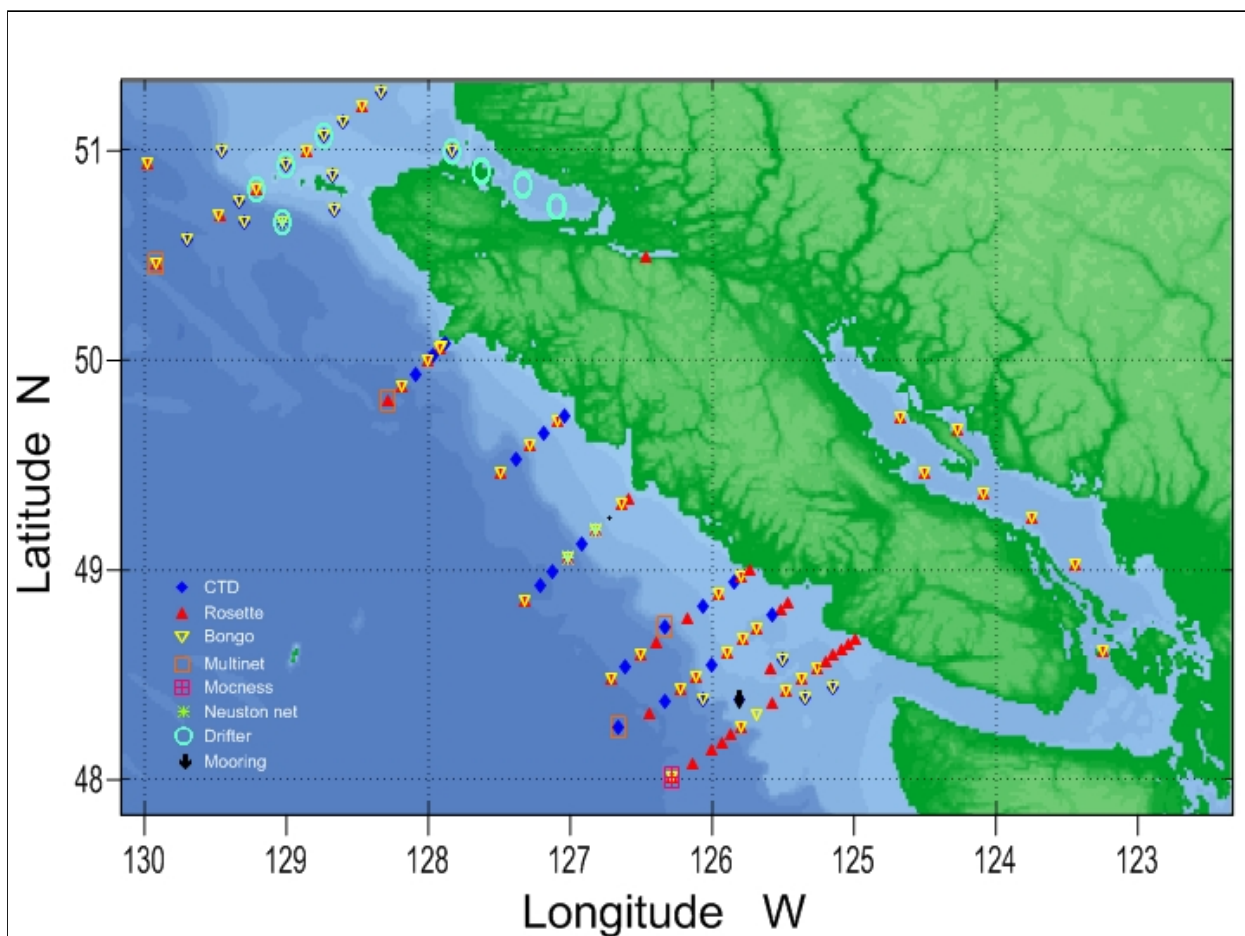


Image notes:

Page generated from: <https://www.waterproperties.ca:443/requests/cruisereportview.php?cruiseid=2019-005> on Monday 3 June 2019
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