



Regional Operations Centre, Canadian Coast Guard Western



Science Cruise Report: PAC 2024-004

Report last updated: 2024-04-16 11:21:00

<https://www.waterproperties.ca/requests/cruiseplanview.php?cruiseid=2024-004>

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Department/Group:	Fisheries and Oceans Canada, OSD
Other Participating Groups:	
Science Cruise Number:	PAC 2024-004
Alternative Cruise Number:	
Ship's Patrol Number:	24-01
Name of Vessel/Platform:	Vector
Dates:	From: Wednesday 10-Apr-2024 To: Tuesday 16-Apr-2024
Chief Scientist:	Cynthia Bluteau, 250-363-9999, cynthia.bluteau@dfo-mpo.gc.ca
Master:	Dustin Flahr
Fishing Master:	
Appropriateness of Vessel:	Excellent

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	+ 0.00
CCG Crew Changes	+ 0.00
CCG Other	+ 0.00
Science Operations	+ 5.00
Science Equipment Loading/Unloading	+ 0.50
Science Other	+ 0.00
Days Gained	+ 0.50

Days Grand Total **= 6.00**

Time Allocation Comments: We skipped some stations in Rosario Strait (~0.5 d worth) due to delays caused by shipping traffic in JdF. The time was regained (good weather) so we will attempt to visit these sites next survey. Proposed operation hours were met by the ship, although we should always aim to do station SC-04 after departure to provide training time for deploying nets.

Cruise Events

Areas of Operations

Juan de Fuca, Strait of Georgia

Scientific Personnel

Name	Notes (Affiliation, Watches, Duties, etc)
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Cynthia Bluteau	Co-Chief Scientist
Steve Romaine	Co-Chief Scientist
Scott Rose	
Kelly Young	
Francesca Loro	
Danielle Caleb	
Andrew Ross	

Event Log

Apr 10

Science gear was loaded quickly after lunch as the winches and A-frames were already loaded/installed on previous day. Departed IOS at 16:30 for test CTD in Saanich Inlet at 17h, followed by a rosette and net at SC04 around 19h to allow the crew to deploy the zooplankton nets in calm conditions. Completed station 59 in Haro Strait before overnight transit to Juan de Fuca Entrance

Apr 11 Juan de Fuca Strait stations

Began sampling 103 at 7 am, completing stations 103, 102, 101 and 74 before noon. Abandon ship and muster drill before 13h. Completed stations 75, 76, 71 in afternoon, and stations 72, 73, 68, 69 and 70 after dinner.

Apr 12 Completed JdF stations and began those in Boundary Pass/Bay

Lots of delays due to deep sea vessels in the area. Completed stations 105 to gi-01, then 58 through to 45. Decided to skip Rosario Strait, and station 50 in Boundary Bay (too shallow).

Apr 13

Completed stations in Strait of Georgia stations through the Whisky Golf area i.e., from stn 44 through to stn 1.

Apr 14

Moved northwards to complete stations near Cbell River (stn 2 to 21), then onto QU39 through to stn 15.

Apr 15

Completed the transect of 20, 22, 24 and 25 early morning. Transit back to IOS with arrival at 16h due to good weather and unloaded science gear just before dinner. Winches and A-frame left onboard for unloading on the 16th.

Scientific Equipment Report

The scientific equipment worked as expected, and no problems were encountered during the trip due to the great work from all scientific personnel and coastguard crew.

Radioisotope Report

N/A

Scientific Successes and Concerns

Science team worked well and were very knowledgeable with all equipment nicely packed and staged for the trip. There was a slight backup in oxygen samples so station 3 oxygen samples on apr 14 were skipped.

Platform Successes and Concerns

Crew were very accomodating, approachable and easy to work with, while communicating any constraints for science operations.

Safety Concerns

None for the science team

Hazardous Occurrences

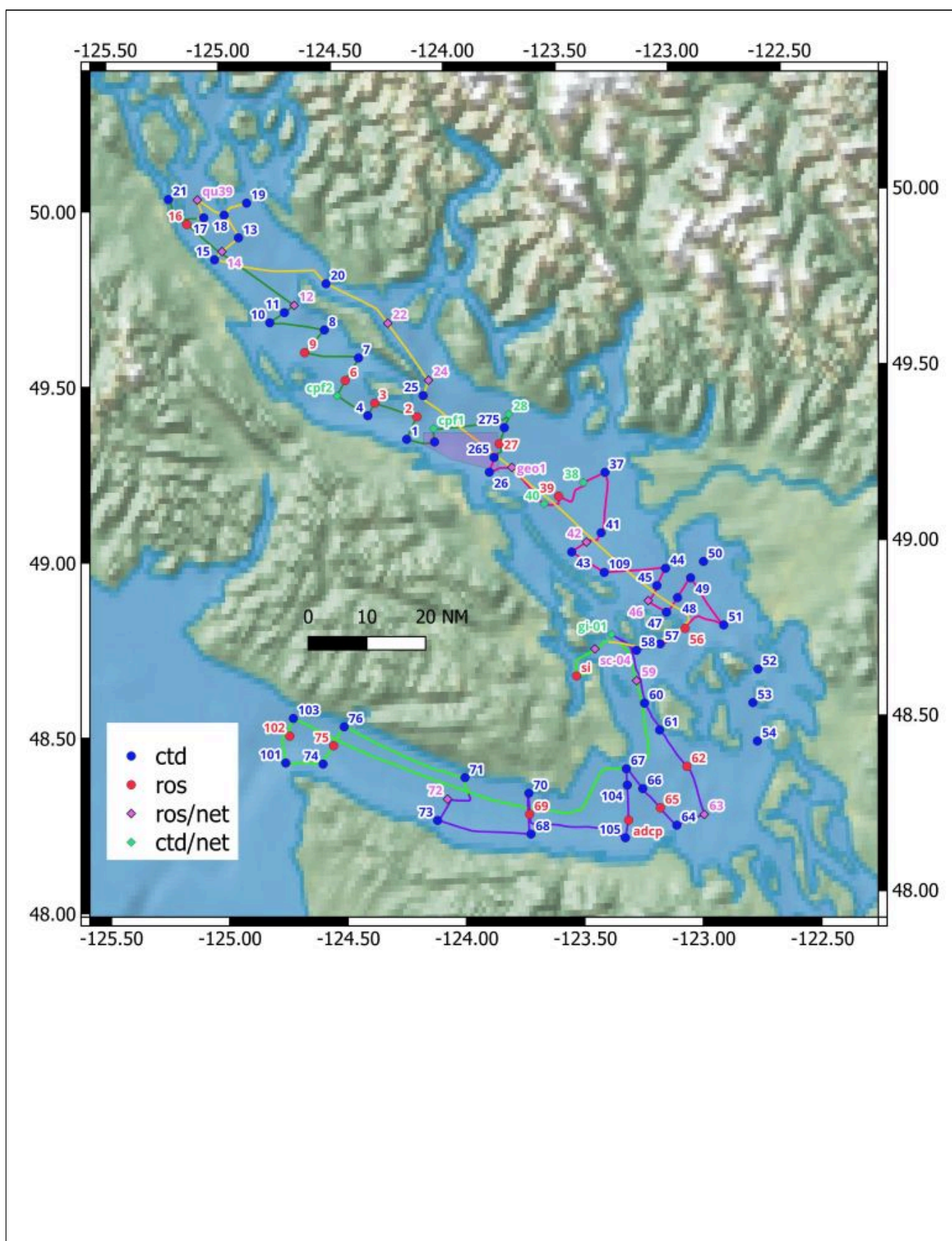
None for the science team

Other Comments

We had some issues with disposal of food scraps interfering with sampling at stations, especially post-meal time. This was resolved with a discussion with the galley and checking in to assess timing for the disposal so as not to contaminate net or CTD sampling operations.

It would be great to have the ethernet network in the science cabins connected to the Science network so that science could use the wireless guest network for internet and be able to see/control science devices on the science network.

Images




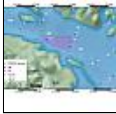

**Image notes:**

Ship track colored by UTC day. We headed to JdF entrance and then moved northwards.

Other Supporting Documents:

Note that some of these files may not load correctly in your browser when clicked, but you can right-click on them and

save them to your local machine to view.

Filename	Type	Size	Modified
 2024-004_deckplan.docx	file	43K	Monday 08 Apr 2024 17:03
 2024-004logbook.pdf	file	622K	Tuesday 16 Apr 2024 09:33
 2024-004plan1.jpg	file	183K	Wednesday 03 Apr 2024 16:06
 2024-004plan3.jpg	file	97K	Wednesday 03 Apr 2024 16:04
 2024-004report1.jpg	file	121K	Tuesday 16 Apr 2024 11:21