



Regional Operations Centre, Canada

Science Cruise Report: PAC2024-030

Report last updated: 2024-06-10
<https://www.waterproperties.ca/requests>

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Department/Group:	Fisheries and Oceans Canada, OSD
Other Participating Groups:	
Science Cruise Number:	PAC 2024-030
Alternative Cruise Number:	
Ship's Patrol Number:	23-00
Name of Vessel/Platform:	Neocaligus
Dates:	From: Tuesday 28-May-2024 To: Sunday 02-Jun-2024
Chief Scientist:	Kelly Young, 250-363-6502, kelly.young@dfo-mpo.gc.ca
Master:	Dennis Roberts
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	+ 4.50	
Science Equipment Loading/Unloading	+ 0.50	
Science Other	+ 1.00	ship transit back to PBS
Days Gained	+ 0.00	
Days Grand Total	= 6.00	

Time Allocation Comments: No weather or tides delay, and great crew allowed cruise to finish full program

Cruise Events

Areas of Operations

Strait of Georgia

Scientific Personnel

Name	Notes (Affiliation, Watches, Duties, etc)
Mark Belton	on-board lead, all sampling
Francesca Loro	all sampling

Event Log

28 May 2024: Joined vessel in Nanaimo. Loaded gear and set up equipment. Departed PBS early afternoon. Conducted science operations at GEO1, 3. Anchored False Bay Lasq
 29 May 2024: Continued work proceeding North and around North end of Texada Island. Anchored Hardy Island Provincial Marine Park
 30 May 2024: Worked S through Malaspina Strait and into Central Strait of Georgia and proceeding South. Tied up PBS
 31 May 2024: Completed Central Strait. Anchored Bedwell Harbour Pender Island
 1 June 2024: Completed Haro and Gulf Island stations. Unloaded and stored all samples at IOS. Science departed vessel late afternoon. A lot of current in Haro Strait during samp

2 June 2024: Vessel returned to PBS

Scientific Equipment Report

No data was recorded for CTD event 45 (station 56) ndash; CTD not turned on? Returned next day to redo.
Potential for dissolved oxygen sensor to be reading low ndash; see report from 2023-026 comparing SBE25p to 911 used during that trip. Need more data to confirm, potential for :

Radioisotope Report

[Not Entered]

Scientific Successes and Concerns

LabSTAF Portable Phytoplankton Primary Productivity Instrument used, successfully collected data at all surface sampling stations. Chitobiase incubations also completed at 3 sta
Zooplankton frozen samples too large to be flash-frozen in the liquid nitrogen dry-shipper, went directly into -20 for the week before transferred to -80 at IOS
Collected surface water samples for Rhonda Reidy (ECCC) for her stable isotope study.
Thanks to Sile, Chloe, Melissa and Germaine for behind the scenes prep and technical support.
Thanks to PBS Shrimp group for use of their table and computer cabinet.

Platform Successes and Concerns

Excellent platform and crew. Crew were efficient and professional and always ready to accommodate (as always)

Safety Concerns

[Not Entered]

Hazardous Occurrences

[Not Entered]

Other Comments

Thank you Neocaligus Captain and crew for successful trip
Thanks to IOS winch shop for help unloading the gear at the end of the trip

Images

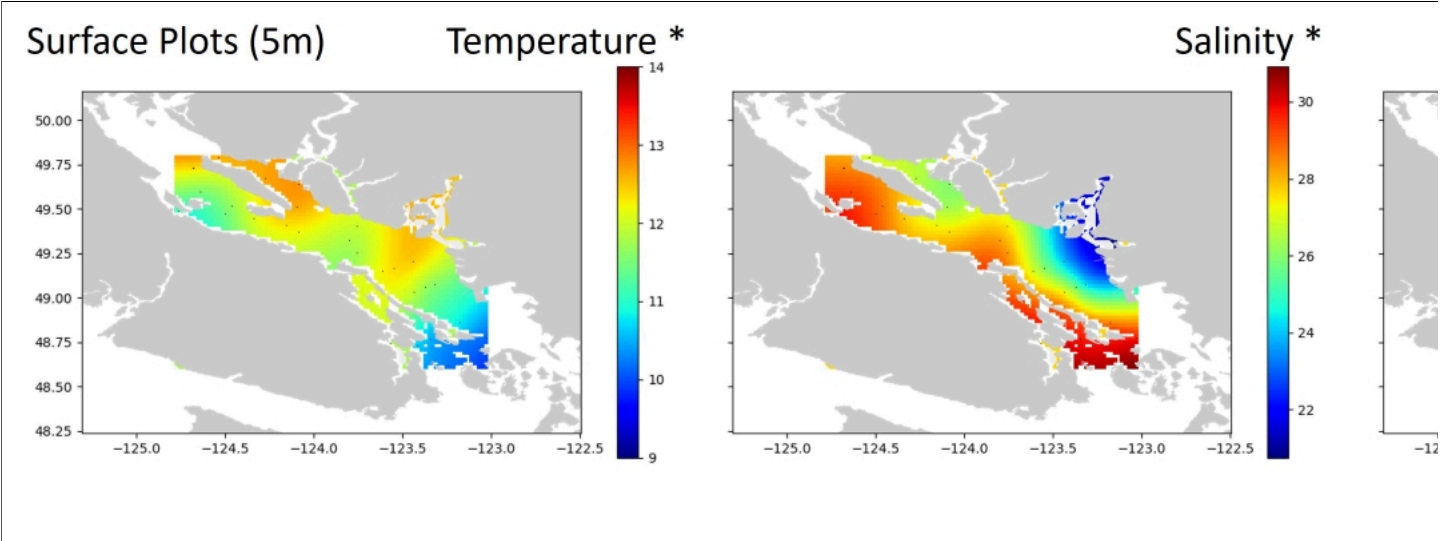





Image notes:
5m surface plots of preliminary CTD data (not processed)

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
 2024-030logbook.pdf	file	972K	Monday 10 Jun 2024 08:18
 2024-030plan1.jpg	file	329K	Thursday 28 Mar 2024 10:47
 2024-030report1.jpg	file	264K	Monday 10 Jun 2024 08:18