



Regional Operations Centre, Canada

Science Cruise Report: PA

Report last updated: 2
<https://www.waterproperties.ca/requests>

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Department/Group:	Fisheries and Oceans Canada, OSD
Other Participating Groups:	
Science Cruise Number:	PAC 2023-023
Alternative Cruise Number:	
Ship's Patrol Number:	23-07
Name of Vessel/Platform:	Neocaligus
Dates:	From: Saturday 22-Jul-2023 To: Thursday 27-Jul-2023
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	+ 0.50	too stormy afternoon 24 July
SAR	+ 0.00	
CCG Refueling	+ 0.00	
CCG Ship Repair & Maintenance	+ 0.00	
CCG Crew Changes	+ 0.00	
CCG Other	+ 0.50	vessel return to PBS at end of trip
Science Operations	+ 4.50	
Science Equipment Loading/Unloading	+ 0.50	
Science Other	+ 0.00	
Days Gained	+ 0.00	
Days Grand Total	= 6.00	

Time Allocation Comments: Ended early 24 July due to weather, no net collected at one station (CPF1)

Cruise Events

Areas of Operations

Strait of Georgia

Scientific Personnel

Name	Notes (Affiliation, Watches, Duties, etc)
Mark Belton	on board lead
Meghan Molnar	UVic co-op, assist Mark. Vegetarian (eggs/dairy OK)
Sile Kafrissen	NOT ON - backup if needed

Event Log

- 22 July 2023: Joined vessel at PBS (Nanaimo). Loaded gear and set up equipment.; Departed PBS in afternoon. Conducted science operations at GEO1, proceeded to work No
- 23 July 2023: Continued work proceeding North and around North end of Texada Island.
- 24 July 2023: Worked S through Malaspina Strait and into Central Strait of Georgia but weather too rough to compete stations, net aborted at CPF1. Tied up PBS
- 25 July 2023: Completed all Central Strait stations.; Anchored Cbell Bay in evening.

26 July 2023: Completed Haro and Gulf Islands stations.;Tied up at IOS in evening. unloaded and stored all samples at IOS. Science departed vessel

27 July 2023: Vessel returned to PBS

Scientific Equipment Report

Using new CTD 25p (serial 1255) and sensors. Date/time of CTD time is wrong (off by -9hrs?) and will need to be corrected. Cruise Daily log is correct (and in UTC)

No CTD data collected at event 20 light was off at end of cast, turned off and on and light came back on, but continued survey without redoing cast. Also no CTD data for event 4

CTD data downloading kept timing out using SeatermV2, ended up using UBS connection through end cap to bulk-transfer files, header info added after.

No FLC samples collected 22-24 July 2023.

Used new style Bongos (250um, 60cm frame) for the first time, collected some duplicate samples with old SCOR (236um, 56cm) net at 4 stations for comparison

Radioisotope Report

[Not Entered]

Scientific Successes and Concerns

Collected and froze krill samples for DFO Whale SI project.

LabSTAF Portable Phytoplankton Primary Productivity Instrument used for last half of trip. Chitobiase incubations also completed at 3 stations.

Thanks to Scott, Chloe, Kenny, 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 Sean at IOS winch shop for help unloading the gear at the end of the trip

Images

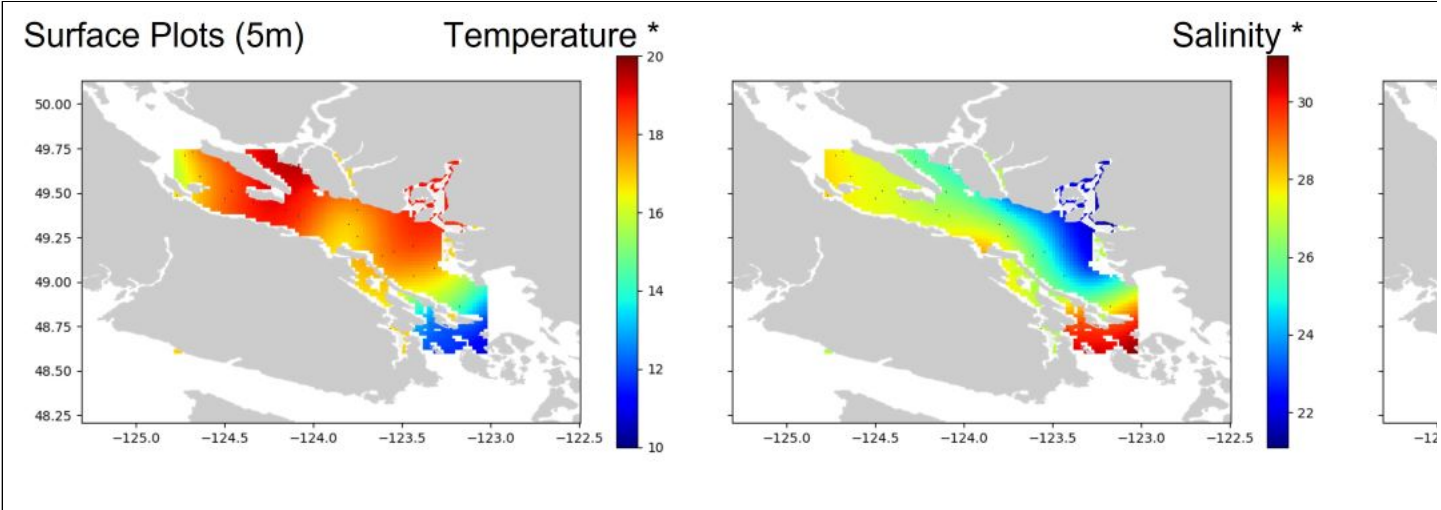





Image notes:

preliminary surface (5m) plots of CTD data

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
 2023-023logbook.pdf	file	934K	Friday 28 Jul 2023 14:08
 2023-023plan1.jpg	file	329K	Monday 29 May 2023 12:20
 2023-023report1.jpg	file	91K	Friday 28 Jul 2023 14:15