



Regional Operations Centre, Canadian Coast Guard Western



Science Cruise Report: PAC 2023-008

Report last updated: 2023-08-18 10:55:23

<https://www.waterproperties.ca/requests/cruiseplanview.php?cruiseid=2023-008>

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Department/Group: Fisheries and Oceans Canada, ESD
Other Participating Groups: OSD
Science Cruise Number: PAC 2023-008
Alternative Cruise Number:
Ship's Patrol Number: 23-04 and 23-05
Name of Vessel/Platform: Franklin
Dates: From: Tuesday 04-Jul-2023 To: Wednesday 02-Aug-2023
Chief Scientist: Jackie King, 250-668-5464, Jackie.King@dfo-mpo.gc.ca
Master: July 4-11: Dustin Flahr; July 11-Aug. 1: Jeff Olsson
Fishing Master: July 4-11: Peter Bowers; July 11-Aug. 1: Keith Fry and Simon Winterburn
Appropriateness of Vessel: Excellent

Time Allocations

Originally Allocated Days 30,00

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

Weather	+ 0.00	
SAR	+ 0.25	approximately 21:00-03:00 on SAR; this occurred during planned nighttime fishing/science
CCG Refueling	+ 1.00	
CCG Ship Repair & Maintenance	+ 1.00	Maintenance day on Aug. 1
CCG Crew Changes	+ 1.00	July 10 -11 CCG crew change and adjustment to Science schedule 16:00-04:00
CCG Other	+ 0.00	
Science Operations	+ 22.25	
Science Equipment Loading/Unloading	+ 2.00	July 4 load and Aug. 1 offload
Science Other	+ 2.50	Science crew changes and replacement (1.7); inability to fish due to presence of mammals and gear issues (0.8)
Days Gained	+ 0.00	
Days Grand Total	= 30.00	

Time Allocation Comments: Night time operations were limited mostly due to factors outside of our control and the necessary adaptation to night time operations including: 1. both Science and CCG crews adapting to the schedule, 2. SAR during one night, 3. marine mammals in the area during part of one day and one night, and 4. gear repair or redeployments.

Cruise Events

Areas of Operations

West Coast Vancouver Island, Northwest Coast Vancouver Island

Scientific Personnel

Name	Notes (Affiliation, Watches, Duties, etc)
Tyler Zubkowski	
Jackie King	
Julian Smith	
Quinn Anderson	
Amy Tabata	
Kelsey Flynn	vegan & ANAPHYLACTIC to hazelnuts
Rob Flemming	
Lenora Turcotte	
Hilari Dennis-Bohm	
Ryan Uslu	
Jennifer Boldt	lactose-intolerant

Erinn Raftery
 Rianna Burnham

Event Log

Chief Scientist: Jackie King jackie.king@dfo-mpo.gc.ca			
July 4	12:00	IOS	Load gear
July 4	16:00	IOS	Depart for North of Brooks Peninsula, via west coast of Vancouver Island (WCVI)
July 5 (to 6) ;	16:00-04:00	WCVI	Day and night time fishing using IPES designated blocks Target 6 sets (3 in day; 3 in night) at 3 survey blocks Oceanographic sampling once at each block
	06:30-16:00	WCVI	Acoustic transect lines
July 7 (to 8) through July 9 (to 10) ; ;	16:00-04:00	North of Brooks, Scott Islands, QCS	Day and night time fishing using IPES designated blocks; Minimum target 6 sets (3 in day; 3 in night) at 3 survey blocks; Oceanographic sampling once at each block; Last night for Vessel crew, survey; sampling shift may be reduced to account for travel time back to Port Hardy.
	06:30-16:00	North of Brooks, Scott Islands, QCS	Acoustic transect lines
July 10-11	Noon	Port Hardy	Fueling (July 10) and CCG Crew change (July 11)
July 12 (to 13) through July 18 (to 19) ; ;	16:00-04:00	QCS then to WCVI	Day and night time fishing using IPES designated blocks; Minimum target 6 sets (3 in day; 3 in night) at 3 survey blocks; Oceanographic sampling once at each block; Last night for Vessel crew, survey and sampling reduced to account for travel time back to Ucluelet.
	06:30-16:00	QCS then to WCVI	Acoustic transect lines
19-Jul	Noon	Ucluelet	Science crew change
Chief Scientist: Jennifer Boldt jennifer.boldt@dfo-mpo.gc.ca			
July 20 (21) through July 26 (27) ; ;	16:00-04:00	WCVI	Day and night time fishing using IPES designated blocks; Minimum target 6 sets (3 in day; 3 in night) at 3 survey blocks; Oceanographic sampling once at each block
	06:30-16:00	WCVI	Acoustic transect lines
July 27	~14:00	Ucluelet	Chief Scientist, oceanographer crew change
Chief Scientist: Maria Cornthwaite; maria.cornthwaite@dfo-mpo.gc.ca			
July 27 (28) through July 31 ; ;	16:00-04:00	WCVI	Day and night time fishing using IPES designated blocks; Minimum target 6 sets (3 in day; 3 in night) at 3 survey blocks; ; Oceanographic sampling once at each block; ; Last night of survey and sampling shift may be reduced to account for travel time back to IOS.
	06:30-16:00	WCVI	Acoustic transect lines (not on Aug. 1)
July 31/August 1	;	;	Travel to IOS; maintenance day (Aug. 1)
August 1	by noon	IOS	Unload gear

Participant Days
 Jackie King 15
 Julian Smith 15
 Quinn Anderson 15

Amy Tabata	15
Kelsey Flynn	15
Rob Flemming	15
Lenora Turcotte	14
Hilari Dennis-Bohm	14
Ryan Uslu	14
Jennifer Boldt	9
Ashley Burton	14
Matthew Thompson	6
Maria Cornthwaite	6
Erinn Raftery	0
Rianna Burnham	9

Scientific Equipment Report

1. The second bottle on the rosette fails to fire either through the software or with manual firing on the control deck.
2. Trawl net: replacement door pickups are 10' too short; one has been used along with a 10' section of chain. Trawl net: 8' hole was repaired.

Radioisotope Report

NA

Scientific Successes and Concerns

Unfortunately, due to circumstances beyond our control, Erinn Raftery had to cancel participation on July 18. Thank-you to Stephen Page and Steve Romaine for finding a replacement. Rianna Burnham offered to participate instead.

Rianna Burnham joined the survey on July 19, with less than 12 hours notice, worked extra long hours to ensure the survey start wasn't delayed, and extremely helpful during the survey.

Thank-you, Rianna!!!

Platform Successes and Concerns

1. The door on the trawl deck to the hopper is not water sealed; the hopper fills with water which causes catch in the hopper to flood out of the lab doors, over the edge of the conveyor belts. The water does not quickly drain from the holding area to the first belt, or off the first belt, these results in about a 15 minute delay to sorting since the first belt cannot 'grab' fish and the hopper needs to be drained fully without letting any fish out.
2. July 15/16 on the last trawl of the night the third wire cable came out of the trawl net sensor. The new crew made a mistake when setting the net and had the cable wrapped around trawl netting, so that when under tension the cable broke. Lost 2 hours of operations and did not complete final tow of the day. The FM and deckhands began their day early the next day to ensure the gear was fixed and in working order so that no more fishing hours were lost. Thank you.
3. During July 4-19, the meals for the vegetarians were insufficient, and completely lacked any source of protein. The communal foods, or menu foods were not sufficiently labelled 'contains dairy' and the science crew with lactose allergies were sick. However, Science did not communicate this information at the time and, in the future, Science will look for solutions earlier.
4. During July 19-Aug 2 meals were fully accommodating, with proper labelling and options provided for those with dairy and gluten allergies.
5. July 21/22: the trawl net got caught on something on the edge of the roller and tore an ~8' hole in the net. The crew worked quickly to repair the hole and only ~45 minutes were lost to science.
6. July 24/25 the trawl door was connected incorrectly on deployment. The Fishing Master immediately recognized the situation and hauled the net back for re-deployment. Only 1 hour was lost to science.
7. July 21/22: the bosun (Dave) noted that the starboard door pickup were getting worn and brought it to the Fishing Master's attention. They replaced during a time when it did not interfere with science operations. They also noted that the replacements were 10' short, so they resolved this by adding a piece of chain. Thank-you!
8. July 22: Science reported a health issue to the CCG medic. This was handled professionally and efficiently by the medic and Captain. All on-vessel actions regarding this were a success! Thank-you very much to Brendan and Captain Olsson!!! A concern that the medic raised is the fact that they were not able to contact an on-call physician. The CCG crew have noted this as an issue to resolve.
9. July 31: Regular fishing/lab operations ended at 04:00 on July 31, but Science staff including the Chief Scientist were not informed of the immediate meal schedule change from the special nighttime operations schedule to regular daytime schedule (i.e. breakfast at 06:00 and lunch at 11:15). This resulted in most science staff missing breakfast as well as lunch, later on July 31. Thanks to the galley staff for being accommodating and ensuring that sufficient snacks and leftovers were available.
10. August 1: There was a conflict in the schedule for offloading Science and re-fueling the vessel. Mid-morning, Science was almost finished offloading and in the process of offloading frozen samples, when CCG undertook the initial steps to fuel the vessel. This was quickly resolved, so that Science could complete offloading prior to fueling.

Safety Concerns

[Not Entered]

Hazardous Occurrences

July 22: As noted above: A concern that the medic raised is the fact that they were not able to contact an on-call physician. The CCG crew have noted this as an issue to resolve.

Other Comments

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1. Thank-you very much to the CCG crew who made this survey a success, despite several challenges. One of those challenges was the re-tasking of the Franklin to enforcement, during leg 2 of the survey. We were informed that the Franklin was going to be re-tasked and the science survey would be cut short by 7 days (on July 27). A significant amount of time and effort went into re-scheduling and logistical planning to accommodate this. The re-tasking was then cancelled and both Science and the CCG crew had to pivot again. Thank-you to Captain Jeff Olsson for helping with logistics and planning around this!

2. Another challenge was the number of inexperienced crew on deck. We would like to commend the efforts of the FMs and bosun to train the new crew members and ensure safe and efficient fishing operations. Although there were some mistakes made, there were no serious incidents and all worked quickly to resolve issues in a respectful and collaborative manner. In particular, the positive attitude and clear leadership skills of the new Bosun (Dave Greaves) were clearly reflected by the demeanor of all the deck crew.

3. Also, on leg 2, thank-you to the fishing masters and deck crew for repairing the net efficiently and to the galley staff for the excellent food.

4. Thank-you to the CCG crews for their work on this survey.

Images

[No Alternative Image Provided]

Image notes:

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