

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2021-033

DATE:

From:

July 4, 2021

To:

VESSEL:

Franklin

PROJECT(S):

IPES

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division
North Saanich, BC, Canada

WaterProperties.ca

**** The following 3 pages are VERY IMPORTANT as they document equipment and settings used on board ****

These pages are to be completed by the CTD Technician setting up the equipment, the Watch Leader on board, and the Chief Scientist MUST verify that all relevant sections are completed prior to leaving the vessel. *Any mid-cruise changes to be noted by watch leader in the notes.*

Data logging computer: 103

Data acquisition program: Seascope

CTD deck unit make: 911 model: not listed. serial number:

Primary CTD

Make: Seabird model: 911 serial number: 506

Primary temperature serial number: 03744

Primary conductivity serial number: 31824

Secondary temperature serial number: 4883

Secondary conductivity serial number: 4395

Transmissometer: N/A Model: serial:

Transmissometer: N/A Model: serial:

Fluorometer: Model ECO Cable gain: serial: 0215 P, S or NO pump?

Fluorometer: Model Seapoint Cable gain: 3X serial: 3419 P, S or NO pump?

Oxygen sensor: SBE Model: 43 serial: 1119 P, S or NO pump?

PAR sensor: N/A Model: serial: Surface PAR? Y / N

Other sensors: Altimeter serial: 76341 P, S or NO pump?

Other sensors: serial: P, S or NO pump?

Other sensors: serial: P, S or NO pump?

Other sensors: serial: P, S or NO pump?

Secondary CTD

Make: model: serial number:

Primary temperature serial number:

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer: Model: serial:

Transmissometer: Model: serial:

Fluorometer: Model Cable gain: serial: P, S or NO pump?

Fluorometer: Model Cable gain: serial: P, S or NO pump?

Oxygen sensor: Model: serial: P, S or NO pump?

PAR sensor: Model: serial: Surface PAR? Y / N

Other sensors: serial: P, S or NO pump?

Other sensors: serial: P, S or NO pump?

Other sensors: serial: P, S or NO pump?

Other sensors: serial: P, S or NO pump?

CTD calibration bottle location (height above CTD in metres):

This also includes the bottle location above the CTD on non-rossette casts (typical on small launches).

Rosette Setup:

Number of bottles: _____
Manufacturer: _____
Volume of bottles (litres): _____

Single 2.5L GO
Niskin online.

Rosette/Niskin Bottle Serial Numbers:

1: <u>ADFA</u>	2: _____	3: _____	4: _____	5: _____
6: _____	7: _____	8: _____	9: _____	10: _____
11: _____	12: _____	13: _____	14: _____	15: _____
16: _____	17: _____	18: _____	19: _____	20: _____
21: _____	22: _____	23: _____	24: _____	

Make sure to note any bottle changes or repairs during your cruise in this log book.

Winches:

1. Make: _____	Model: _____	Serial #: _____	Used for: _____
2. Make: _____	Model: _____	Serial #: _____	Used for: _____
3. Make: _____	Model: _____	Serial #: _____	Used for: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Salinometer:

Make: _____ Model: _____ Serial Number: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Label Printers:

Primary Printer Kit #: ##
Secondary Printer Kit #: _____
Software Version: _____

Thermosalinograph System (SBE21/45):

Program: _____ Version: _____
Sampling interval (seconds): _____
TSG serial number: _____
Fluorometer sensor serial number: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

ADCP Setup:

Computer time zone: _____ User Exits: Name: _____ Exit points: _____

DAILY SCIENCE LOG

Month July		Year 2021		Vessel Franklin		Cruise ID 2021-033									
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
2	7422	6	01:09	BE	CTD	MR	50° 0.060	127° 41.063	88	78	-	1	CW	<input type="checkbox"/> <input type="checkbox"/>	10 m Niskin
			01:10	BO			50° 0.068	127° 41.062			-			<input type="checkbox"/> <input type="checkbox"/>	
			01:12	EN			50° 0.017	127° 41.062			-			<input type="checkbox"/> <input type="checkbox"/>	
3	7422	6	01:24	BE	NET		50° 0.096	127° 40.956	87	76	-		CW	<input type="checkbox"/> <input type="checkbox"/>	
			01:28	BO			50° 0.112	127° 40.982			-			<input type="checkbox"/> <input type="checkbox"/>	
			01:30	EN			50° 0.111	127° 40.987			-			<input type="checkbox"/> <input type="checkbox"/>	
8	11044	6	00:12	BE	CTD	MR	51° 2.612	127° 47.955	101	90	-	1	CW	<input type="checkbox"/> <input type="checkbox"/>	10 m Niskin
			00:14	BO			51° 2.598	127° 47.956			-			<input type="checkbox"/> <input type="checkbox"/>	
			00:15	EN			51° 02.582	127° 47.950			-			<input type="checkbox"/> <input type="checkbox"/>	
9	11044	6	00:23	BE	NET		51° 2.532	127° 47.876	101	90	-		CW	<input type="checkbox"/> <input type="checkbox"/>	
			00:27	BO			51° 2.498	127° 47.887			-			<input type="checkbox"/> <input type="checkbox"/>	
			00:29	EN			51° 2.483	127° 47.913			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	

Niskin time; lat + long > 1 min delay from CTD cast

Niskin @ 16:20 PST; 50° 0.081 N 127° 40.967 W

~~Niskin @ 17:15 PST; 51° 2.582 N 127° 47.950 misfire.~~
@ 17:20 PST; 51° 2.557 N 127° 47.921 W

Deck pressure on event 8 = 2.2-3 db.

when in water @ surface (just a termination) reads 3 db.

when it is really 1-1.5

- @ 10 m soak reads 14 db

Due to ship failure - cruise is cancelled