

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2022-002

DATE:

Feb 19 - March 7 leg 1
From: March 8 - March 21 leg 2 To:

VESSEL:

SJ Franklin

PROJECT(S):

IYS 2022

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: Sensave

CTD deck unit make: SBE model: 11 serial number: 1043

Primary CTD

Make: SBE model: 9 serial number: ~~1453~~ 585

Primary temperature serial number: ~~6565~~ 2449

Primary conductivity serial number: ~~5043~~ 1764

Secondary temperature serial number: ~~6566~~ 4484

Secondary conductivity serial number: 5046 2128

Transmissometer: Wetlabs Model: CSTAR serial: 1201DR V4

Transmissometer: Model: serial: 3735

Fluorometer: Model Sepoint SCF Cable gain: 10x serial: ~~3735~~ P, S or NO pump? V1

Fluorometer: Model Cable gain: 4 serial: ~~1176~~ P, S or NO pump?

Oxygen sensor: SBE Model: 43 serial: ~~4047~~ P, S or NO pump? V0

PAR sensor: Model: serial: 4049 Surface PAR? Y/N

Other sensors: Valeport Altimeter serial: 7532 P, S or NO pump? V2

Other sensors: SBE 18 pH serial: 0691 P, S or NO pump? V6

Other sensors: SBE ST serial: 0601 P, S or NO pump?

Other sensors: SBE ST serial: 0597 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?

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

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

Rosette Setup:

Number of bottles: 24
Manufacturer: 105
Volume of bottles (litres): 10L

Bottles with silicon tubing =

20-24

Bottles 1-19 rubber

Rosette/Niskin Bottle Serial Numbers:

1: <u>2017-10-01</u>	2: <u>2017-10-02</u>	3: <u>2017-10-03</u>	4: <u>2017-10-04</u>	5: <u>2017-10-05</u>
6: <u>2017-10-06</u>	7: <u>2017-10-07</u>	8: <u>2017-10-08</u>	9: <u>2017-10-09</u>	10: <u>2017-10-10</u>
11: <u>2017-10-11</u>	12: <u>2017-10-12</u>	13: <u>2018-10-01</u>	14: <u>2018-10-02</u>	15: <u>2018-10-03</u>
16: <u>2018-10-04</u>	17: <u>2018-10-05</u>	18: <u>2017-10-13</u>	19: <u>2018-10-06</u>	20: <u>2018-10-07</u>
21: <u>2018-10-08</u>	22: <u>2018-10-09</u>	23: <u>2018-10-10</u>	24: <u>2017-10-14</u>	

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

** Legend blank done on Niskin 7*

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: 2488 SBE 21
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: _____
Sampling interval (sec): _____		Name: _____	Exit points: _____
Bin Length: (2°x): _____		Name: _____	Exit points: _____
Pulse Length: _____		Work File: _____	
Buffer (bytes): _____			
Gyro Offset: _____			

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

CTD Test Cast Information

Test Cast along side? ☒ Yes ☐ No

Comments

Test Cast in Saanich Inlet or other location? ☒ Yes ☐ No

Comments

Victoria

CTD pressure reading on deck (db), before cast: _____ after cast: _____

Pumps working? ☒ Yes (0011) ☐ No (0010)

Secondary Temp – Primary Temp: _____
(Average from the mixed region)

Secondary Salinity – Primary Salinity: _____
(Average from the mixed region)

DAILY SCIENCE LOG

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Month <u>FEB</u>			Year <u>2020</u>			Vessel <u>FRANKLIN</u>			Cruise ID <u>2077-002</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
1	TEST 1	20	16:18	BE	ROS	DS	48° 22.314	123° 27.23	78	70	—	—	Q	☒ ☒	
			16:18	BO			° 22.267	° 27.274		70	—	—		☐ ☐	
			16:21	UN			° 22.235	° 27.302			—	—		☐ ☐	
2	TEST 2	20	16:29	BE	ROS		48° 22.12	123° 27.384			—	—		☐ ☐	
			16:31	DN			° 22.091	° 27.402	81		—	—	Q	☒ ☒	
			16:33	UN			° 22.074	° 27.426	70		—	—		☐ ☐	
3	TEST 3	20	17:32	BE	ROS	DS	48° 21.146	123° 28.326	85		—	—	CS	☒ ☒	
			17:34	BO			48° 21.004	° 28.414	70		—	—		☐ ☐	
			17:37	UN			48° 20.992	° 28.448			—	—		☐ ☐	
4	TURK TEST	20	20:17	BE	NET	—	48° 21.71	124° 05.35	167		—	—	NE	☐ ☐	TURK TEST
			20:19	BO			° 21.72	° 05.40		100	—	—		☐ ☐	
			20:24	UN			° 21.79	° 05.64			—	—		☐ ☐	
5	TEST 4	20	20:38	BE	ROS	—	48° 21.88	124° 05.88	167		—	—	CS	☒ ☒	
			20:41	BO			° 21.84	° 05.92		187	—	—		☐ ☐	
			20:45	UN			° 21.91	° 05.99			—	—		☐ ☐	
6	50-135	22	18:07	BE	NET	—	50° 01.20	134° 51.44	3489		—	—	NE	☐ ☐	TURK
			18:15	BO			° 01.26	° 51.51		400	—	—		☐ ☐	
			18:28	UN			° 01.42	° 51.63			—	—		☐ ☐	
			:				°	°			—	—		☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
 CTD = Standalone CTD
 ROS = CTD in Rosette
 SET = Fish Set

LOOP = Sea Water Loop
 MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter
 =

Bottle Firing Method:

US = Up / Stop (default)
 UN = Up / No stop
 DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

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Month FEB				Year 2022				Vessel FRANKLIN				Cruise ID 2022-002				
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	
07	50-135	22	18:40	BE	NET	—	50° 01.45	134° 59.76	3489		—	—	NE	☐		
			18:51	BO			° 01.45	° 59.85		300	-			☐		
			18:56	EN			° 01.45	° 59.87			-			☐		
08	50-135	22	19:18	BE	ROS	US	50° 01.38	135° 00.01	3489		1 - 2	2	0	☒		
			19:14	BO			° 01.38	° 00.06		300	-			☐		
			19:34	EN			° 01.35	° 00.26			-			☐		
09	50-135	22	20:39	BE	SET	—	50° 00.764	135° 00.012	3489		—	—	JK	☐	SEA TOWS	
			21:42	BO			° .	° .		0	-			☐		
			21:51	EN			49° 56.002	135° 00.742			-			☐		
10	49-135	23	02:57	BE	NET	—	49° 02.52	135° 00.14	3007		—	—	NE	☐	BOW	
			03:11	BO			° 02.50	° 00.15		300	-			☐		
			03:17	EN			° 02.51	° 00.15			-			☐		
11	49-135	23	03:31	BE	NET	—	49° 02.60	135° 00.07	3485		—	—	NE	☐	TUCKER	
			03:46	BO			° 02.75	134° 59.94		400	-			☐		
			03:55	EN			° 02.89	° 59.83			-			☐		
12	49-135	23	04:07	BE	ROS	US	49° 02.83	134° 59.88	2507		21 - 40	2	0	☒		
			04:14	BO			49° 02.83	° 59.90		300	-			☐		
			04:31	EN			49° 02.83	134° 59.93			-			☐		
			:				° .	° .			-			☐		

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DRF = Drifter
— = —

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US = Up / Stop (default)
UN = Up / No stop
DN = Down / No stop

Time Code:

BE = Beginning Time of Cast
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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Notes:

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Month <u>FEB</u>			Year <u>2022</u>			Vessel <u>FRANKLIN</u>			Cruise ID <u>2022-02</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
13	49-135	23	04:53	BE	SET	—	49° 01.142	34° 59.534			—	—	JK	☐	TRAWL 2
			05:00	BO			49° 01.142	34° 59.534		400	—	—		☐	
			06:09	EN			48° 56.04	134° 59.018			—	—		☐	
14	48-135	23	13:05	BE	NET	—	48° 02.31	134° 59.80	3528		—	—	NE	☐	TUUCER
			13:21	BO			48° 02.51	134° 59.88		400	—	—		☐	
			13:30	EN			48° 02.70	134° 59.92			—	—		☐	
15	48-135	23	13:40	BE	NET	—	48° 02.72	134° 59.99	3888		—	—	NE	☐	BONCLO
			13:51	BO			48° 02.73	135° 00.09		300	—	—		☐	
			13:56	EN			48° 02.74	135° 00.14			—	—		☐	
16	48-135	23	14:06	BE	ROS	OS	48° 02.72	135° 00.23	3003		41 - 60	2	CS.	☒	
			14:15	BO			48° 02.73	135° 00.29		300	—	—		☐	
			14:31	EN			48° 02.73	135° 00.41			—	—		☐	
17	48-135	23	15:12		SET		48° 02.086	135° 00.130	3112		—	—		☐	TRAWL 3
			16:21				47° 57.03	134° 59.58		0	—	—		☐	
			16:38				47° 56.26	134° 59.63			—	—		☐	
18	47-135	23	21:43	BE	NET	—	47° 03.56	135° 00.02	3033		—	—	NE	☐	BONCLO
			21:53	BO			47° 03.48	134° 59.98		300	—	—		☐	
			21:58	EN			47° 03.48	134° 59.92			—	—		☐	
			:				.	.			—	—		☐	

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Month <u>FEB</u>				Year <u>2022</u>				Vessel <u>FRANKLIN</u>				Cruise ID <u>2022-002</u>				
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments	
							Latitude	Longitude								
19	47-135	23	22:06	BE	NET	—	47° 03.43	134° 59.89	3580		—	—	NE	☐ ☐	TUCKER	
			22:19	Bo			47° 03.31	134° 59.66		400	—			☐ ☐		
			22:28	EN			47° 03.27	131° 59.48			—			☐ ☐		
20	47-135	23	22:37	BE	ROS	US	47° 03.30	134° 59.47	3060		61-80	20	AS	☒ ☐		
			22:45	Bo			47° 03.31	131° 59.46		300	—			☐ ☐		
			23:01	EN			47° 03.33	134° 59.43			—			☐ ☐		
21	47-135	23	23:23	BE	SET	—	47° 01.903	134° 59.397	3149		—	—	JK	☐ ☐	Trawl 4	
			23:31	Bo			.	.		0	—			☐ ☐		
		24	00:36	EN			46° 57.01	135° 00.028			—			☐ ☐		
22	47-138	24	12:11	BE	NET	—	46° 56.45	137° 59.49	3489		—	—	NE	☐ ☐	TUCKER	
			12:31	Bo			46° 56.31	137° 59.21		400	—			☐ ☐		
			13:10	EN			46° 55.97	137° 58.66			—			☐ ☐		
23	47-138	24	13:15	BE	NET	—	46° 55.99	137° 58.58	3714		—	—	NE	☐ ☐		
			13:27	Bo			46° 56.65	137° 58.49		300	—			☐ ☐		
			13:33	EN			46° 56.06	137° 58.44			—			☐ ☐		
24	47-138	24	13:47	BE	ROS	US	46° 56.15	137° 58.37	3814		81-100	20	AS	☒ ☐		
			13:51	Bo			46° 56.18	137° 58.33		300	—			☐ ☐		
			14:06	EN			46° 56.25	137° 58.26			—			☐ ☐		
			:				.	.			—			☐ ☐		

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Bottle Firing Method:

US = Up / Stop (default)
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Notes:

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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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Month FEB				Year 2022			Vessel FRANKLIN				Cruise ID 2022-002				
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
25	47-138	24	14:54	BE	SET	-	46°58.296	137°59.027	3580		-	-	JIC	☐	
			15:00	BO			48°58.296	137°59.027		0	-			☐	
			16:07	EN			47°02.926	138°00.882			-			☐	
26	47-138	24	16:57	DE	DRF	-	47°03.03	138°00.92	3187		-	-	CA	☐	ALLO MAGNET REMOVED
			16:53	DE			47°04.42	138°01.17			-			☐	Deployed ALLO
27	48-138	24	21:59	BE	NET	-	47°56.17	138°00.03	3544		-	-	NE	☐	BDNLO
			22:09	BO			47°56.19	137°59.88			-			☐	
			22:14	EN			47°56.19	137°59.78			-			☐	
28	48-138	24	22:26	BE	ROS	US	47°56.22	137°59.58	3586		101-120	20	0	☒	
			22:31	BO			47°56.23	137°59.47		300	-			☐	
			22:46	EN			47°56.26	137°59.28			-			☐	
29	48-138	24	23:16	BE	SET	-	47°58.516	137°59.535	3284		-	-	JIC	☐	TRAIL #6
			23:24	BO			47°58.516	137°59.535		0	-			☐	
		25	00:30	EN			48°23.74	137°59.699			-			☐	
30	49-138	26	15:06	BE	NET	-	48°55.99	138°00.51	3558		-	-	NE	☐	BDNLO
			15:18	BO			48°55.99	138°00.52		300	-			☐	
			15:24	EN			48°55.99	138°00.49			-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	

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Month <u>FEB</u>			Year <u>2022</u>			Vessel <u>FRANKLIN</u>			Cruise ID <u>2022-002</u>						
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31	49-138	26	15:37	BE	NET	—	48° 56.00	138° 00.39	3831		—	—	NE	☐	TUCKER
			15:48	BO			48° 56.01	138° 00.31		400	-			☐	
			16:10	EN			48° 55.41	137° 59.96			-			☐	
32	49-138	26	16:27	BE	ROS	US	48° 55.42	137° 59.77	3558		121-140	20	AS	☒	
			16:32	BO			48° 55.48	137° 59.68		300	-			☐	
			16:51	EN			48° 55.56	137° 59.46			-			☐	
33	49-138	26	17:19	BE	SEA		48° 57.080	137° 59.470	3464		—	—	JK	☐	
			17:27	BO			48° 57.080	137° 59.470		0	-			☐	
			18:32	EN			49° 00.702	137° 59.834			-			☐	
34	50-138	27	00:21	BE	NET	—	49° 59.98	137° 53.94	3770		—	—	NE	☐	BONKIO
			00:33	BO			49° 59.94	137° 54.07		300	-			☐	
			00:38	EN			49° 59.92	137° 54.11			-			☐	
35	50-138	27	00:50	BE	NET	—	49° 59.88	137° 54.13	3778		—	—	NE	☐	TUCKER
			01:04	BO			49° 59.84	137° 54.82		400	-			☐	
			01:31	EN			49° 59.66	137° 55.77			-			☐	
36	50-138	27	01:44	BE	ROS	US	49° 59.59	137° 55.95	3527		-			☐	
			01:49	BO			49° 59.56	137° 55.95		300	141-160	20	AS	☒	
			02:04	EN			49° 59.53	137° 55.95			-			☐	
			:				°	°			-			☐	

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							Latitude	Longitude							
37	SO-138	27	02:20	BE	SET	—	49° 59.816	137° 51.205	3557		—	—	JK	□□	
			02:39	BO			49° 59.816	137° 57.205		0	-			□□	
			03:46	DN			49° 59.813	138° 04.866			-			□□	
38	SO-141	27	15:42	BE	NET	—	50° 03.96	141° 00.76	3456		—	—	NE	□□	Tower
			16:10	BO			50° 04.70	141° 00.54		400	-			□□	
			16:36	DN			50° 05.17	141° 00.74	3603		-			□□	
39	SO-141	27	16:44	BE	NET	—	50° 05.22	141° 00.78	3603	300	—	—	NE	□□	Radio
			16:56	BO			50° 05.31	141° 00.85		300	-			□□	
			17:02	DN			50° 05.31	141° 00.85			-			□□	
40	SO-141	27	17:15	BE	ROS	VS	50° 05.37	141° 00.85	3410		161-180	20	W	☑□	
			17:23	BO			50° 05.40	141° 00.84		320	-			□□	
			17:39	DN			50° 05.50	141° 00.81			-			□□	
41	SO-141	27	18:07	BE	SET	—	50° 03.95	141° 00.44	3715		—	—	JK	□□	
			18:11	BO			50° 03.95	141° 00.44		0	-			□□	
			18:17	DN			49° 59.411	140° 59.861			-			□□	
42	49-141	28	00:39	BE	NET	—	49° 04.03	140° 59.96	3322		—	—	NE	□□	Radio
			00:50	BO			49° 04.06	140° 57.93		500	-			□□	
			00:56	DN			49° 04.07	140° 59.99			-			□□	
			:				°	°			-			□□	

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>FEBRUARY</u>			Year <u>2022</u>			Vessel <u>FRANKLIN</u>			Cruise ID <u>2022-002</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
43	49-141	28	01:02	BE	NET	—	49°04.07	141°00.07	3889		—	—	NE	☐ ☐	TUCKER
			01:17	BO			49°04.26	141°00.29		400	-			☐ ☐	
			01:42	EN			49°04.67	141°00.89			-			☐ ☐	
44	49-141	28	01:50	BE	ROS	US	49°04.69	141°00.74	3882		181-200	20	CS	☒ ☐	
			01:57	BO			49°04.68	141°00.93		300	-			☐ ☐	
			02:13	EN			49°03.141	141°00.325			-			☐ ☐	
45	49-141	28	02:35	BE	SET	—	49°03.141	141°00.325	3471		—	—	JK	☐ ☐	
			02:41	BO			49°03.141	141°00.325		0	-			☐ ☐	
			03:48	EN			48°58.203	140°58.626			-			☐ ☐	
46	48-141	28	15:04	BE	NET	—	48°04.46	140°59.86	4396		—	—	NE	☐ ☐	TUCKER
			15:23	BO			48°04.71	140°59.21		400	-			☐ ☐	
			15:47	EN			48°05.22	140°58.12			-			☐ ☐	
47	48-141	28	15:54	BE	NET	—	48°05.32	140°57.93	3621		—	—	NE	☐ ☐	ROWLER
			16:08	BO			48°05.45	140°57.92		300	-			☐ ☐	
			16:14	EN			48°05.48	140°57.92			-			☐ ☐	
48	48-141	28	16:25	BE	ROS	US	48°05.52	140°57.95	4789		201-220	20	CS	☒ ☐	
			16:32	BO			48°05.52	140°57.96		300	-			☐ ☐	
			:	EN			°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
CTD = Standalone CTD
ROS = CTD in Rosette
SET = Fish Set

LOOP = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter
— =

Bottle Firing Method:

US = Up / Stop (default)
UN = Up / No stop
DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast
BO = Bottom Time of Cast
EN = End Time of Cast

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month		Year		Vessel		Cruise ID									
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
49	48-141	28	17:18	BE	SET	—	48°03.618	140°58.441			—	—	JK	☐ ☐	
			17:25	BO			48°03.618	140°58.441		0	-			☐ ☐	
			18:32	DN			47°59.15	140°59.351			-			☐ ☐	
50	47-141	01	01:53	BE	SET	—	46°59.858	140°56.873	4279		-		JK	☐ ☐	
			02:00	BO			46°59.858	140°56.873		0	-			☐ ☐	
			03:06	DN			46°59.526	141°04.105			-			☐ ☐	
51	46-144	01	15:39	BE	NET	—	46°04.26	143°59.95	4287		—	—	NE	☐ ☐	BOWLO
			15:58	BO			46°04.26	144°00.04		300	-			☐ ☐	
			16:03	DN			46°04.21	144°00.02			-			☐ ☐	
52	46-144	01	16:11	BE	NET	—	46°04.29	144°00.03	4004		—	—	NE	☐ ☐	TOWLER
			16:36	BO			46°04.83	144°00.35		400	-			☐ ☐	
			16:59	DN			46°05.35	144°00.58			-			☐ ☐	
53	46-144	01	17:13	BE	ROS	US	46°05.32	144°00.65	4167		221-245	20	W	☒ ☐	
			17:18	BO			46°05.30	144°00.65		300	-			☐ ☐	
			17:33	DN			46°05.30	144°00.68			-			☐ ☐	
54	46-144	01	17:57	BE	SET	—	46°03.484	144°00.459	4066		—	—	JK	☐ ☐	
			18:04	BO			46°03.484	144°00.459		0	-			☐ ☐	
			:	DN			°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
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SET = Fish Set

LOOP = Sea Water Loop
MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter
— =

Bottle Firing Method:

US = Up / Stop (default)
UN = Up / No stop
DN = Down / No stop

Time Code:

BE = Beginning Time of Cast
BO = Bottom Time of Cast
EN = End Time of Cast

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Notes:

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Month <u>MARCH</u>				Year <u>2022</u>			Vessel <u>FRANKLIN</u>			Cruise ID <u>2022-002</u>					
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
SS	46-144	01	17:18	DE	DRF	—	45° 58.10	144° 00.93	4620		—	—		☐ ☐	MAINER RECOVERED
			19:53	DE			45° 57.96	144° 01.76			—			☐ ☐	ALCIA DEPLOYED
S6	47-144	02	02:00	BE	NET	—	46° 56.03	144° 01.09	4134		—	—	NE	☐ ☐	TUCKER
			02:17	BO			46° 56.32	144° 00.41		400	—			☐ ☐	
			02:39	EN			46° 56.70	144° 00.90			—			☐ ☐	
S7	47-144	02	02:47	BE	NET	—	46° 56.66	144° 00.93	4113		—	—	NE	☐ ☐	BONGO
			02:59	BO			46° 56.58	144° 01.07		300	—			☐ ☐	
			03:04	EN			46° 56.56	144° 01.11			—			☐ ☐	
S8	47-144	02	03:26	BE	ROS	US	46° 56.55	144° 01.37	4211		241-264	241	OK	☒ ☐	- Put out extra 20m
			03:59	BO			46° 56.43	144° 01.64		2000	241 -			☐ ☐	of cable to try →
			05:03	BO			46° 56.22	144° 02.06			—			☐ ☐	to get a cross cut
S9	47-144	02	05:40	BE	SET	—	46° 57.46	144° 00.457	4131		—	—	JK	☐ ☐	
			05:47	BO			46° 57.46	144° 00.457		0	—			☐ ☐	
			06:52	EN			47° 01.954	143° 58.920			—			☐ ☐	
60	48-144	02	15:07	BE	NET	—	47° 55.80	144° 00.12	4604		—	—	LH	☐ ☐	BONGO
			15:20	BO			47° 55.76	143° 59.99		300	—			☐ ☐	
			15:26	EN			47° 55.73	143° 59.95			—			☐ ☐	
			:				°	°			—			☐ ☐	
			:				°	°			—			☐ ☐	

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NET = Plankton Net Haul
DRF = Drifter
— = —

Bottle Firing Method:

US = Up / Stop (default)
UN = Up / No stop
DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast
BO = Bottom Time of Cast
EN = End Time of Cast

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

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→ EVENT SB. WITH ONE BOTTLE LEFT TO FIVE, THE CTD LOST CONNECTION. I REBOOTED IT
AND ASSIGNED IT FILENAME "OSBA". FULL DOWNLOAD IS ON FILE "OSB".

0029
1.54 1.5

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month <u>MARCH</u>			Year <u>2022</u>			Vessel <u>FRANKLIN</u>			Cruise ID <u>2022-002</u>						
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
61	48-144	02	15:32	BE	NET	-	47° 55.62	143° 59.96	4626		-	-	NE	☐	TUCKER
			15:54	BO			47° 55.12	143° 59.75		400	-			☐	
			16:18	EN			47° 54.60	143° 59.46			-			☐	
62	48-144	02	16:28	BE	ROS	US	47° 54.55	143° 59.32	4666		265-284	20	CS	☒	
			16:31	BO			47° 54.50	143° 59.27		300	-			☐	
			16:48	EN			47° 54.54	143° 59.13			-			☐	
63	48-144	02	17:22	BE	SET	-	47° 56.80	143° 59.72	4110		-	-	JK	☐	
			17:31	BO			47° 56.80	143° 59.72		0	-			☐	
			18:39	EN			48° 01.58	144° 01.17			-			☐	
64	49-144	03	00:02	BE	NET	-	48° 56.06	143° 59.69	4196		-	-	NE	☐	BONGO
			00:14	BO			48° 56.00	143° 59.48		300	-			☐	
			00:19	EN			48° 55.97	143° 59.41			-			☐	
65	49-144	03	00:29	BE	ROS	US	48° 55.91	143° 59.36	4000		285-308	24	CS	☒	
			01:04	BO			48° 55.85	143° 58.93		200	-			☐	
			01:54	EN			48° 55.69	143° 58.38			-			☐	
66	51-141	04	04:05	BE	NET	-	50° 59.45	141° 06.46	4653		-	-	NIE	☐	TUCKER
			04:16	BO			50° 59.36	141° 06.81		400	-			☐	
			04:39	EN			50° 59.27	141° 07.73			-			☐	
			:				.	.			-			☐	

Event Type:
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 DRF = Drifter
 =

Bottle Firing Method:
 US = Up / Stop (default)
 UN = Up / No stop
 DN = Down / No stop

Time Code:
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 EN = End Time of Cast

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products
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 MR = Messenger Release Time
 RE = Recover Mooring Time

Notes:

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DAILY SCIENCE LOG

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Month <u>MARCH</u>				Year <u>2022</u>			Vessel <u>FRANKLIN</u>			Cruise ID <u>2022-02</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments	
							Latitude	Longitude								
67	S1-141	4	04:47	BE	NET	—	50°59.22	141°07.84	4266		—	—	LH	☐	BONGLO	
			04:58	BO			50°59.13	141°07.83		300	-			☐		
			05:03	EN			50°59.11	141°07.86			-			☐		
68	S1-141	4	05:12	BE	ROS	US	50°59.08	141°07.82	4020		309-328	20	D	☒		
			05:18	BO			50°59.06	141°07.82		300	-			☐		
			05:31	EN			50°58.98	141°07.76			-			☐		
69	S1-141	4	05:54		SET	—	50°59.438	141°04.525	4372		—	—	JK	☐		
			06:04				50°59.438	141°04.525		0	-			☐		
			07:13				51°00.433	140°56.848			-			☐		
70	S2-141	4	14:56	BE	NET	—	51°55.55	141°00.06	4219		—	—	LH	☐	BONGLO	
			15:14	BO			51°55.33	140°59.99		300	-			☐		
			15:20	EN			51°55.24	140°59.99			-			☐		
71	S2-141	4	15:27	BE	NET	—	51°55.19	140°59.93	4527		—	—	NE	☐		
			15:50	BO			51°54.44	141°00.22	4527	400	-			☐		
			16:14	EN			51°53.69	141°00.62		400	-			☐		
72	S2-141	4	16:28	BE	ROS	US	51°53.58	141°00.65	4374		329-348	20	D	☒		
			16:35	BO			51°53.53	141°00.65		300	-			☐		
			16:50	EN			51°53.47	141°00.65			-			☐		
			:				.	.			-			☐		

Event Type:

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MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

US = Up / Stop (default)
UN = Up / No stop
DN = Down / No stop

Notes: _____

Time Code:

BE = Beginning Time of Cast
BO = Bottom Time of Cast
EN = End Time of Cast

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RE = Recover Mooring Time

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month			Year			Vessel			Cruise ID						
March			2022			FRANKLIN			2022-02						
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
73	S2-141	4	17:17	BE	SET	—	51°55.722	141°00.745	4185		—	—	JK	☐ ☐	
			17:23	BO			51°55.722	141°00.745		0	-			☐ ☐	
			18:31	EN			52°00.406	141°00.602			-			☐ ☐	
74	S3-141	4/5	23:57	BE	NET	—	52°56.09	140°59.68	4422		—	—	NE	☐ ☐	TUCKER
			00:08	BO			52°55.801	140°59.45		400	-			☐ ☐	
			00:32	EN			52°55.32	140°59.57			-			☐ ☐	
75	S3-141	5	01:04	BE	NET	—	52°55.66	140°58.61	4804		—	—	LH	☐ ☐	Bowho
			01:15	BO			52°55.56	140°58.45		300	-			☐ ☐	
			01:20	EN			52°55.53	140°58.39			-			☐ ☐	
76	S3-141	5	01:30	BE	ROS	US	52°55.51	140°58.31	4055		349-368	20	0	☒ ☐	
			01:35	BO			52°55.48	140°58.26		300	-			☐ ☐	
			01:50	EN			52°55.34	140°58.10			-			☐ ☐	
77	S3-141	5	02:23	BE	SET	—	52°57.318	140°59.814	4437		—	—	JK	☐ ☐	
			02:28	BO			52°57.318	140°59.814		0	-			☐ ☐	
			03:35	EN			53°01.274	141°03.332			-			☐ ☐	
78	S3-138	5	14:55	BE	NET	—	52°59.98	138°06.31	4458		—	—	LH	☐ ☐	Bowho
			15:06	BO			52°00.01	138°06.13		300	-			☐ ☐	
			15:12	EN			52°59.98	138°06.12			-			☐ ☐	
			:				.	.			-			☐ ☐	

DAILY SCIENCE LOG

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Month <u>MARCH</u>				Year <u>2022</u>		Vessel <u>FRANKLIN</u>			Cruise ID <u>2022-002</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
79	53-138	5	15:19	BE	NET	—	52° 59.89	138° 06.15	4564		—	—	NE	☐	TUNER
			15:39	BO			52° 59.59	138° 06.38		400	-			☐	
			16:05	EN			52° 59.12	138° 06.51			-			☐	
80	53-138	5	16:14	BE	ROS	US	52° 59.68	138° 06.41	4152		369-388	20	A	☒	
			16:22	BO			52° 59.08	138° 06.26		300	-			☐	
			16:36	EN			52° 59.09	138° 06.08			-			☐	
81	53-138	5	17:09	BE	SET	—	52° 59.351	138° 03.172	4531		—	—	OK	☐	
			17:17	BO			52° 59.351	138° 03.172		0	-			☐	
			18:21	EN			53° 02.216	137° 55.815			-			☐	
82	52-138	6	01:31	BE	NET	—	51° 58.37	138° 02.58	4146		—	—	NE	☐	TUNER
			01:44	BO			51° 58.10	138° 02.81		400	-			☐	
			02:06	EN			51° 57.51	138° 03.50			-			☐	
83	52-138	6	02:15	BE	NET	—	51° 57.33	138° 03.32	4547		—	—	LH	☐	Bow
			02:26	BO			51° 57.30	138° 03.24		300	-			☐	
			02:31	EN			51° 57.27	138° 03.22			-			☐	
84	52-138	6	02:40	BE	ROS	US	51° 57.26	138° 03.16	4294		389-408	20	A	☒	
			02:45	BO			51° 57.25	138° 03.12		300	-			☐	
			02:59	EN			51° 57.21	138° 03.03			-			☐	
			:				.	.			-			☐	

Event Type:

BOT = Bottle cast (no CTD)
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 ROS = CTD in Rosette
 SET = Fish Set

LOOP = Sea Water Loop
 MOR = Mooring
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 DRF = Drifter
 — =

Bottle Firing Method:

US = Up / Stop (default)
 UN = Up / No stop
 DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast
 BO = Bottom Time of Cast
 EN = End Time of Cast

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DAILY SCIENCE LOG

Month			Year			Vessel			Cruise ID						
MARCH			2022			FRANKLIN			2022-002						
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
85	52-138	6	03:22	BE	SET	—	51° 58.679	138° 01.290	4478		—	—	JIC	☐ ☐	
			03:28	BO			51° 58.679	138° 01.290		0	-			☐ ☐	
			04:35	EN			52° 02.138	137° 56.625			-			☐ ☐	
86	52-135	6	14:57	BE	NET	—	51° 58.20	135° 03.76	4666		—	—	LH	☐ ☐	BONHO
			15:02	BO			51° 58.23	135° 03.72		800	-			☐ ☐	
			15:13	EN			51° 58.24	135° 03.64			-			☐ ☐	
87	52-135	6	15:20	BE	NET	—	51° 58.14	135° 03.81	4333		—	—	NE	☐ ☐	TUCKER
			15:39	BO			51° 57.81	135° 04.23		400	-			☐ ☐	
			16:04	EN			51° 57.86	135° 04.74			-			☐ ☐	
88	52-135	6	16:12	BE	ROS	US	51° 57.28	135° 04.75	4433		409-428	20	CS	☐ ☐	
			16:17	BO			51° 57.25	135° 04.72		300	-			☐ ☐	
			16:31	EN			51° 57.25	135° 04.86			-			☐ ☐	
89	52-135	6	16:54	BE	SET	—	51° 58.583	135° 02.431	4138		—	—	JIC	☐ ☐	
			17:02	BO			51° 58.583	135° 02.431		0	-			☐ ☐	
			18:02	EN			52° 02.03	134° 56.605			-			☐ ☐	
90	51-135	7	01:29	BE	NET	—	50° 58.42	135° 04.95	4279		—	—	NE	☐ ☐	TUCKER
			01:43	BO			50° 58.13	135° 05.24		400	-			☐ ☐	
			02:08	EN			50° 57.54	135° 05.81			-			☐ ☐	
			:				.	.			-			☐ ☐	

DAILY SCIENCE LOG

Month March			Year 2022			Vessel Franklin			Cruise ID 2022-002						
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
91	SI-135	07	02:14	BE	NET	—	50°57.45	135°05.84	4126		—	—	LH	☐ ☐	Baxio
			02:24	BO			50°51.39	135°05.83		300	-			☐ ☐	
			02:29	EN			50°51.35	135°05.81			-			☐ ☐	
92	SI-135	07	02:39	BE	ROS	US	50°51.31	135°05.78	4723		429-448	30	d	☒ ☐	
			02:44	BO			50°51.28	135°05.78		300	-			☐ ☐	
			02:58	EN			50°51.27	135°05.72			-			☐ ☐	
93	SI-135	07	03:20	BE	SET	—	50°58.53	135°03.684	4308		—	—	JK	☐ ☐	
			03:28	BO			50°58.53	135°03.684		0	-			☐ ☐	
			04:33	EN			51°01.762	134°58.187			-			☐ ☐	
94	53-135	10	06:25	BE	NET	—	52°58.23	134°54.44	2492		-			☐ ☐	Bingo
			06:35	BO			52°58.34	134°54.28		300	—	—	NE	☐ ☐	
			06:40	EN			52°58.37	134°54.19			-			☐ ☐	
95	53-135	10	06:47	BE	NET	MR	52°58.36	134°54.05	2569		-		NE	☐ ☐	Tucker
			07:03	BO			52°58.17	134°53.35		400	—			☐ ☐	
			07:21	EN			52°57.92	134°52.86			-			☐ ☐	
96	53-135	10	07:32	BE	ROS	US	52°57.94	134°52.64	2783		-			☐ ☐	
			07:37	BO			52°57.98	134°52.6		300	449-468	20	cw	☒ ☒	0.3db elect
			07:55	EN			52°58.03	134°52.45			-			☐ ☐	pressure
			:				.	.			-			☐ ☐	

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month March			Year 2022			Vessel Franklin			Cruise ID 2022-002						
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
97	53-135	10	08:20	BE	SET	—	52° 58.711	134° 55.467	12A	0	/		CF	☐	
			08:27	BO			52° 58.711	134° 55.467		0	-			☐	
			09:34	EN			53° 01.46	135° 02.361		0	-			☐	
98	55-138	10	23:08	BE	NET	—	54° 56.77	137° 56.99	2973		-			☐	Tucker
			23:18	BO			54° 56.55	137° 56.7		400	/			☐	
			23:45	EN			54° 55.79	137° 56.38	3127		-			☐	
99	55-138	10	23:52	BE	NET	—	54° 55.8	137° 56.40	3127	300	/			☐	Bunga
			00:01	BO			54° 55.77	137° 56.31		300	-			☐	
			00:07	EN			54° 55.76	137° 56.28			-			☐	
100	55-138	11	00:18	BE	ROS	US	54° 55.79	137° 56.27	3249		469-489	20	CW	☒	Deck messmo =
			00:23	BO			54° 55.78	137° 56.24		300	-			☐	-0.6
			00:37	EN			54° 55.76	137° 56.19			-			☐	
101	55-138	11	01:01	BE	SET		54° 56.86	137° 57.49	3365		-			☐	
			01:14	BO			54° 57.58	137° 58.54		0	/			☐	
			02:14	EN			55° 01.22	138° 03.50		0	/			☐	
102	55-138	11	03:01	BE	Argos DRP	—	°	°			-			☐	SN: AI2632
			:				°	°			-			☐	-21CA027
			:				°	°			-			☐	
			:				°	°			-			☐	

NOTE ABOUT DEPTH READINGS

Tucker	UTC Trip Time
0-400	23:18 MR #1
400-275	23:31 MR #2
275-0	

The sonar was somewhat erratic
and not entirely accurate so
it seems to be $\pm 10\%$

For Fisher's set

BE = net/doors shut water

BU = doors locked = fisher

EN = start to retrieve gear

DAILY SCIENCE LOG

Month March			Year 2022			Vessel Franklin			Cruise ID 2022-002						
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
103	54-138	11	09:10	BE	NET	-	53°57.7	138°05.26	3345		-		HDB	☐ ☐	Bongo
			09:21	BO			°57.69	°05.26		300	-			☐ ☐	
			09:27	EN			°57.70	°05.26			-			☐ ☐	
104	54-138	11	09:34	BE	NET	MR	53°57.66	138°05.31			-		NE	☐ ☐	Tucker
			09:52	BO			53°57.36	138°05.59			-			☐ ☐	
			10:18	EN			°56.83	°06.10			-			☐ ☐	
105	54-138	11	10:30	BE	ROS	US	53°56.76	138°06.05	3200		490-510	21	CW NE/HDB	☐ ☐	check p = -0.3
			10:35	BO			°56.77	°5.98		300	-			☐ ☐	
			10:51	EN			°56.72	°5.95			-			☐ ☐	
106	54-138	11	11:04	BE	SET	-	53°57.06	138°04.35	3230		-			☐ ☐	
			11:17	BO	SET		°57.55	°4.35		0	-			☐ ☐	
			12:23	EN	SET		54°01.57	137°57.13			-			☐ ☐	
107	54-141	11	22:57	BE	NET		53°59.06	141°03.06	3577		-			☐ ☐	Tucker
			23:10	BO			°58.	°03.91		400	-			☐ ☐	
			23:34	EN			°58.36	°4.60			-			☐ ☐	
108	54-141	11	23:38	BE	NET		53°58.25	141°4.74	3732		-			☐ ☐	Bongo
		11	23:49	BO			°58.18	°4.72		300	-			☐ ☐	
			23:54	EN			°58.18	°4.73			-			☐ ☐	
			:				°.	°.			-			☐ ☐	

Event 104

Tucker

MR#1 0949 } deployment
MR#2 1002 } times

March 11 pH cal.

4.0	$\frac{V}{1.9292} \rightarrow 4.02$	} slope = 4.8579 offset = 2.7493
7.0	$2.7485 \rightarrow 7.042$	
10.0	$3.5702 \rightarrow 10.071$	

$T = 10.6$

Event 107

Tuclear

MR#1 2307

MR#2 2320

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month			Year			Vessel			Cruise ID						
March			2022			Franklin			2022-002						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
109	54-141	12	00:04	BE	ROS	US	53° 58.07	141° 4.75	3423		511-531	21	CW	☒	
			00:09	BO			° 58.03	° 4.73		300	-			☐	
			00:23	EN			° 58.03	° 4.66			-			☐	
110	54-141	12	00:42	BE	SET		53° 58.74	141° 3.58	3700		-			☐	
				BO			°	°		0	-			☐	
			01:57	EN	SET		54° 2.3	140° 56.22			-			☐	
111	55-141	12	15:00	BE	NET		54° 57.01	141° 0.97	3300		-			☐	Bongo
			15:12	BO			° 57.11	° 0.85		300	-			☐	
			15:17	EN			° 57.14	° 0.78			-			☐	
112	55-141	12	15:25	BE	NET	MR	54° 57.11	141° 0.71	3500		-			☐	Tucker.
			:45	BO			° 56.89	° 0.36		400	-			☐	
			16:10	EN			° 56.44	140° 59.97			-			☐	
113	55-141	12	16:20	BE	ROS	US	54° 56.4	140° 59.81	3702		532-552	21	CW	☒	DP = -0.4 db
			16:26	BO			° 56.48	° 59.42		300	-			☐	
			16:41	EN			° 56.57	° 59.42			-			☐	
114	55-141		16:48	BE	SET		54° 56.71	140° 59.42	3500		-			☐	
115			:	BO			°	°		0	-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	

This page is for any notes or observations

Tucker

MR#1 1542

MR#2 1555

DAILY SCIENCE LOG

Month <i>March</i>				Year <i>2022</i>			Vessel <i>Franklin</i>			Cruise ID <i>2022007</i>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
<i>115</i>	<i>56-141</i>	<i>13</i>	<i>01:35</i>	<i>BE</i>	<i>NET</i>	<i>MR</i>	<i>55°56.91</i>	<i>140°56.6</i>	<i>3558</i>		<i>-</i>		<i>NFE</i>	☐ ☐	<i>Tucker</i>
			<i>01:49</i>	<i>BO</i>			<i>°56.68</i>	<i>°56.11</i>		<i>400</i>	<i>-</i>			☐ ☐	
			<i>02:13</i>	<i>EN</i>			<i>°56.25</i>	<i>°55.34</i>			<i>-</i>			☐ ☐	
<i>116</i>	<i>56-141</i>	<i>13</i>	<i>02:18</i>	<i>BE</i>	<i>NET</i>		<i>55°56.24</i>	<i>140°55.28</i>	<i>3670</i>		<i>-</i>		<i>HBD</i>	☐ ☐	<i>Bongo</i>
			<i>02:29</i>	<i>BO</i>			<i>°56.25</i>	<i>°55.11</i>		<i>300</i>	<i>-</i>			☐ ☐	
			<i>02:34</i>	<i>EN</i>			<i>°56.23</i>	<i>°55.03</i>			<i>-</i>			☐ ☐	
<i>117</i>	<i>56-141</i>	<i>13</i>	<i>03:10</i>	<i>BE</i>	<i>ROS</i>	<i>US</i>	<i>55°56.47</i>	<i>140°54.98</i>	<i>3800</i>		<i>553-573</i>	<i>21</i>	<i>W</i>	☒ ☐	<i>DP = -0.56</i>
			<i>03:15</i>	<i>BO</i>			<i>°56.51</i>	<i>°54.88</i>		<i>300</i>	<i>-</i>			☐ ☐	<i>2.5m swell-</i>
			<i>03:29</i>	<i>EN</i>			<i>°56.6</i>	<i>°54.77</i>			<i>-</i>			☐ ☐	
<i>118</i>	<i>56-141</i>	<i>13</i>	<i>03:45</i>	<i>BE</i>	<i>SET</i>		<i>55°57.23</i>	<i>140°55.54</i>	<i>3580</i>		<i>-</i>			☐ ☐	
			<i>05:04</i>	<i>EN</i>			<i>56°1.77</i>	<i>141°1.67</i>		<i>0</i>	<i>-</i>			☐ ☐	
<i>119</i>	<i>57-141</i>	<i>13</i>	<i>12:04</i>	<i>BE</i>	<i>NET</i>		<i>56°55.85</i>	<i>140°58.94</i>	<i>3320</i>		<i>-</i>			☐ ☐	<i>Bongo</i>
			<i>12:18</i>	<i>BO</i>			<i>°55.99</i>	<i>°58.73</i>		<i>300</i>	<i>-</i>			☐ ☐	
			<i>12:24</i>	<i>EN</i>			<i>°56.04</i>	<i>°58.66</i>			<i>-</i>			☐ ☐	
<i>120</i>	<i>57-141</i>	<i>13</i>	<i>12:31</i>	<i>BE</i>	<i>NET</i>	<i>MR</i>	<i>°56.08</i>	<i>°58.49</i>	<i>3388</i>		<i>-</i>			☐ ☐	<i>Tucker</i>
			<i>12:57</i>	<i>BO</i>			<i>°55.97</i>	<i>°57.29</i>		<i>400</i>	<i>-</i>			☐ ☐	
			<i>12:55</i>	<i>EN</i>			<i>°55.82</i>	<i>°56.13</i>			<i>-</i>			☐ ☐	
			<i>:</i>				<i>°</i>	<i>°</i>			<i>-</i>			☐ ☐	
			<i>:</i>				<i>°</i>	<i>°</i>			<i>-</i>			☐ ☐	



This page is for any notes or observations

March 12 PH gal.
4.9
#10
10.0 Tucker
MR #1 0146
MR #2 0159

Cast 117
at the onset of 117 during ~~the~~ ^{the first 20m} ~~scout~~ lost R232 communications ^{lost relay}
and system time out? -
- re-starts un The water did not solve it.
brought it un - rebooted entire system and it worked.
Bottle #3 did not trip = no liquid #555
↳ got hung up on
frame.

MR #1 1254
MR #2 1307

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month March			Year 2022			Vessel Franklin			Cruise ID 2022-002						
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/Fl Cleaned	Comments
121	57-141	13	13:59	BE	ROS	US	56°56.15	140°55.87	3700		574 594	21	CW	☒ ☐	DP = -0.49
			14:06	BO			°56.18	°55.82		300	-			☐ ☐	~ 2m swell
			14:20	EN			°56.28	°55.83			-			☐ ☐	
122	57-144	14	15:53	BE	NET		57°0.25	143°52.69	3732		-			☐ ☐	Bongo
			16:07	BO			°0.28	°52.65		300	-			☐ ☐	
123			16:13	EN	NET		°0.3	°52.71			-			☐ ☐	Tucker
123	57-144	14	16:21	BE	NET	MR	57°0.32	143°52.66	3572		-			☐ ☐	
			16:43	BO			°0.39	°51.77		400	-			☐ ☐	Tucker
124			17:07	EN	NET		°0.48	°50.48			-			☐ ☐	
124	57-144	14	17:17	BE	ROS	US	57°0.50	143°50.29	3744		-			☒ ☒	Bongo
			17:51	BO			°0.57	°50.59		2000	595-618	24	CW	☐ ☐	DP = -0.59
125			18:46	EN	ROS	US	°0.66	°51.16			-			☐ ☐	2.5m swell
125	57-144		18:54	BO	SET		57°0.66	143°51.16	3700		-			☐ ☐	long period
			20:14	EN	SET		°0.26	144°02.97		Ø	-			☐ ☐	
126	57-144	14	20:40		DFT		57°0.21	144°4.82			-			☐ ☐	SN: 029
127	56-144	15	01:51	BO	SET		56°4.68	143°59.88	3406		-			☐ ☐	
			03:08	EN			55°58.43	144°0.05		Ø	-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

Set @ 57141 cancelled due to weather and gear

March 14
weather - winds down but still significant swell, but long period.

	<u>Time</u>
MR#1	1640
MR#2	1653

Event 124

- on way up c ~400m electrical blip disrupted the uplot screen
- not sure if connected to firing bottle.
- it deleted down trace and reorganized the trace colours
- it does not seem to have impacted the actual sensors

DAILY SCIENCE LOG

Month <u>March</u>			Year <u>2022</u>			Vessel <u>Franklin</u>			Cruise ID <u>2022-002</u>						Comments
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	
							Latitude	Longitude							
128	56-144	15	03:34	BE	NET	MR	55° 57.52	143° 39.8	3470		-		NE	☐	Tucker
			03:48	BO			° 57.83	144° 0 05		400	-			☐	
			04:11	EN			° 58.38	° 0 46			-			☐	
129	56-144	15	04:17	BE	NET		55° 58.44	144° 0 56	3164		-		HDB	☐	Bongo
			04:29	BO			° 58 43	° 0 7		300	-			☐	
			04:34	EN			° 58.46	° 0 76			-			☐	
130	56-144	15	04:42	BE	ROS	US	55° 58.50	144° 0 88	3688		619-689	21		☒	2m swell.
			04:48	BO			° 58.52	° 0 94		300	-			☐	
			05:02	EN			° 58.52	° 1 09			-			☐	
131	55-144	15	10:24	BE	NET		55° 2 7	144° 1 98	3243		-		HDB	☐	Bongo
			10:35	BO			° 2 62	° 2 1		300	-			☐	
			10:40	EN			° 2 59	° 2 15			-			☐	
132	55-144	15	10:46	BE	NET	MR	55° 2 58	144° 2 34	3388		-		NE	☐	Tucker
			11:07	BO			° 2 62	° 3 24		400	-			☐	
			11:31	EN			° 2 69	° 4 34			-			☐	
133	55-144	15	11:52	BE	ROS	US	55° 2 62	144° 4 56	4000		640-663	24	W	☒	less swell.
			12:26	BO			° 2 47	° 4 68		2000	-			☐	* 133B
			13:27	EN			° 2 25	° 4 49			-			☐	
			:				°	°			-			☐	

MR#1 / N/A
MR #2 : 0357

Cast 130 was done POST fishing

	Time of Release
MR#1	1104
MR#2	1117

656
NUT-F
55-144
2022_02
50 m
bot 17

not taken

Cast 133B @ 25m depth on
upcast. The R232 port failed again
→ left rose tk @ depth. Rebooted
computer and started new acquisition
as 133B that represents 25-0
+ bottle stops

- I don't entirely believe the sonar - really jumpy

Start of cast 133 had a R232 error - had to pull back in and start again

Handwritten notes: 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month			Year			Vessel			Cruise ID						
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
134	55-144	15	14:4	BE	SET		54°59.7	144°2.74	4100		/		CW	☐ ☐	*
			15:34	EN			54°57.39	143°57.04	4054	0	/		HDB	☐ ☐	
135	55-144	15	16:14	DE	DFT		54°56.81	143°56.42	3244		-		HDB	☐ ☐	SN 028
136	54-144	15	22:17	BE	NET	MR	53°56.65	144°0.28	3761		-		UB	☐ ☐	TUCKER
137	54-144		22:33	BO			°56.27	143°59.91		400	/			☐ ☐	
			22:57	EN			°57.16	°59.39			-			☐ ☐	
137	54-144	15	23:02	BE	NET		53°55.69	143°59.34	3899		-		HDB	☐ ☐	Bongo
			23:13	BO			°55.71	°59.21		300	-			☐ ☐	
			23:17	EN			°55.73	°59.17			-			☐ ☐	
138	54-144	15	23:26	BE	ROS	US	53°55.84	143°59.19	3529		664-684	21	CW	☒ ☐	ob = -0.2
			23:31	BO			°55.84	°59.18		300	-			☐ ☐	
139			23:45	EN			°55.79	°59.04			-			☐ ☐	
140	54-144	16	00:05	BE	SET		53°56.82	143°59.07			-			☐ ☐	logged a bit
			:	EN			°	°			-			☐ ☐	late
140	53-144	16	13:00	BE	NET		52°57.14	144°1.23	3480		-			☐ ☐	Bongo
			13:10	BO			°57.14	°1.20		300	-			☐ ☐	
			13:15	EN			°57.11	°1.18			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
CTD = Standalone CTD
ROS = CTD in Rosette
SET = Fish Set

LOOP = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter
___ =

Bottle Firing Method:

US = Up / Stop (default)
UN = Up / No stop
DN = Down / No stop

Time Code:

BE = Beginning Time of Cast
BO = Bottom Time of Cast
EN = End Time of Cast

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Notes: _____

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Version: 17 Feb 2020

* Set time on 134 is N 14' late

Time.

MR #1 2231

MR #2 2243

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month <i>March</i>			Year <i>2022</i>			Vessel <i>Franklin</i>			Cruise ID <i>2022-002</i>						
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
<i>141</i>	<i>53-144</i>	<i>16</i>	<i>13:35</i>	<i>BE</i>	<i>NET</i>	<i>MR</i>	<i>52° 56.98</i>	<i>144° 1.21</i>	<i>3906</i>		<i>/</i>		<i>NE</i>	☐ ☐	<i>Tucker</i>
			<i>:59</i>	<i>BO</i>			<i>° 56.53</i>	<i>° 1.85</i>	<i>400</i>	<i>400</i>	<i>-</i>			☐ ☐	
			<i>14:23</i>	<i>EN</i>			<i>° 56.01</i>	<i>° 2.35</i>			<i>-</i>			☐ ☐	
<i>142</i>	<i>53-144</i>	<i>16</i>	<i>14:34</i>	<i>BE</i>	<i>ROS</i>	<i>US</i>	<i>52° 55.94</i>	<i>144° 2.43</i>	<i>3850</i>		<i>685-788</i>	<i>24</i>	<i>CO</i>	☒ ☐	<i>dp = -0.58</i>
			<i>15:08</i>	<i>BO</i>			<i>° 55.99</i>	<i>° 2.39</i>		<i>2000</i>	<i>-</i>			☐ ☐	
			<i>16:03</i>	<i>EN</i>			<i>° 56.00</i>	<i>° 2.4</i>			<i>-</i>			☐ ☐	
<i>143</i>	<i>53-144</i>	<i>16</i>	<i>16:12</i>	<i>BE</i>	<i>SET</i>		<i>52° 56.35</i>	<i>144° 2.36</i>	<i>3600</i>		<i>-</i>			☐ ☐	
			<i>17:39</i>	<i>EN</i>			<i>53° 3.09</i>	<i>143° 58.5</i>		<i>Ø</i>	<i>-</i>			☐ ☐	
<i>144</i>	<i>53-144</i>	<i>16</i>	<i>17:58</i>	<i>DE</i>	<i>DFT</i>		<i>53° 4.09</i>	<i>143° 57.3</i>	<i>3434</i>	<i>Ø</i>	<i>-</i>			☐ ☐	
<i>145</i>	<i>51-132</i>	<i>19</i>	<i>15:14</i>	<i>BE</i>	<i>NET</i>		<i>50° 57.93</i>	<i>132° 5.66</i>	<i>2631</i>		<i>-</i>			☐ ☐	<i>*RBR not on net</i>
<i>146</i>	<i>51-132</i>	<i>19</i>	<i>15:25</i>	<i>BO</i>	<i>CTD</i>		<i>° 57.86</i>	<i>° 5.56</i>		<i>300</i>	<i>-</i>			☐ ☐	<i>Bongo</i>
			<i>15:31</i>	<i>EN</i>			<i>° 57.53</i>	<i>° 5.55</i>			<i>-</i>			☐ ☐	
<i>146</i>	<i>51-132</i>	<i>19</i>	<i>15:37</i>	<i>BE</i>	<i>NET</i>	<i>MR</i>	<i>50° 57.73</i>	<i>132° 5.56</i>	<i>2776</i>		<i>-</i>			☐ ☐	
			<i>16:00</i>	<i>BO</i>			<i>50° 57.36</i>	<i>132° 6.06</i>		<i>400</i>	<i>-</i>			☐ ☐	<i>Tucker</i>
			<i>16:25</i>	<i>EN</i>			<i>50° 57.02</i>	<i>132° 6.82</i>			<i>-</i>			☐ ☐	
<i>147</i>	<i>51-132</i>	<i>19</i>	<i>16:50</i>	<i>BE</i>	<i>ROS</i>	<i>US</i>	<i>50° 57.53</i>	<i>132° 6.67</i>	<i>2675</i>		<i>709-72921</i>			☒ ☐	<i>dp = 0.3</i>
			<i>16:53</i>	<i>BO</i>			<i>° 57.05</i>	<i>° 6.67</i>		<i>300</i>	<i>-</i>			☐ ☐	
			<i>17:09</i>	<i>EN</i>			<i>° 57.75</i>	<i>° 6.53</i>			<i>-</i>			☐ ☐	
			<i>:</i>				<i>°</i>	<i>°</i>			<i>-</i>			☐ ☐	

Tucker spent a bit of time on surface as the cable jumped the block on deployment

→ will redeploy

MR#1 1356

MR#2 1409

MR#1 15:57

MR#2 16:10

When Tucker retrieved it jumped the block so sat @ surface for a bit

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Event Type: BOT = Bottle cast (no CTD) CTD = Standalone CTD ROS = CTD in Rosette SET = Fish Set		LOOP = Sea Water Loop MOR = Mooring NET = Plankton Net Haul DRF = Drifter _____ = _____		Bottle Firing Method: US = Up / Stop (default) UN = Up / No stop DN = Down / No stop		Time Code: BE = Beginning Time of Cast BO = Bottom Time of Cast EN = End Time of Cast		CTD Transmissometer and Fluorometer to be cleaned before each Cast -- do not use Ammonia products DE = Deployment Time MR = Messenger Release Time RE = Recover Mooring Time		<i>Produced by the Water Properties Group, IOS</i> WaterProperties.ca Version: 17 Feb 2020	
Notes: _____											

This page is for any notes or observations

Start time on set 156to → see GFB10