

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2021-048

SOG 2021-01

DATE:

From: 2021-06-16

To: 2021-07-04

VESSEL:

Sir John Franklin

PROJECT(S):

SOG Juvenile Salmon

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

WaterProperties.ca

Captain: _____ First Officer: _____

Second Officer: _____ Third Officer: _____

Fishing Master: _____ Chief Engineer: _____

Mission Participants / Agencies:

**** Chief Scientist to tape Scientific Personnel section of their cruise plan here ****

This is accessed from your WaterProperties.ca Dashboard or from here:
<https://www.waterproperties.ca/requests/cruiseplanview.php?cruiseid=YYYY-NNN>

**** 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: Water Properties #103

Data acquisition program: Seasave V 7.26.7.121

CTD deck unit make: SBE model: 11 serial number: 7

Primary CTD

Make: SBE model: 9 serial number: 506

Primary temperature serial number: 2374

Primary conductivity serial number: 3184

Secondary temperature serial number: 4883

Secondary conductivity serial number: 4395

Transmissometer: Model: serial: _____

Transmissometer: Model: serial: _____

Fluorometer: Model Seapoint Cable gain: 3X serial: 3944 ☒ S or NO pump?

Fluorometer: Model Wetlabs Cable gain: / serial: 2215 P, S or NO pump?

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

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

Other sensors: SBE ST Pump serial: 8051 ☒ S or NO pump?

Other sensors: " serial: 8052 ☒ S or NO pump?

Other sensors: Valeport VA500 altimeter serial: 76341 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-rosette casts (typical on small launches).

Rosette Setup:

Number of bottles: None!
Manufacturer: _____
Volume of bottles (litres):

Rosette/Niskin Bottle Serial Numbers:

1: _____	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: Not installed yet.

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: _____
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 _____

CTD pressure reading on deck (db), before cast: 2.509 after cast: 1.389 from 106

Pumps working? Yes (0011) No (0010)

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

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

Additional Comments:

SJ Franklin Tech Expert - Reed @ (236) 464-2517
Reed.Tilley@dfc-mpo.gc.ca

Scientific Equipment Used During Cruise

This sheet allows you to enter all of the equipment used while on board. Please use the separate CTD sheet for entry for SBE 9/16/19/25.

Other CTD units:

RBR Serial Number: 206988 on Bongo Sensors: T/D

Others:

Plankton Nets:

Bongo/SCOR #1	Frame Size: <u>60</u> cm	Mesh: <u>253</u> µm	Flowmeter: <u>2020</u>
Bongo/SCOR #2	Frame Size: _____ cm	Mesh: _____ µm	Flowmeter: _____
_____	Frame Size: _____ cm	Mesh: _____ µm	Flowmeter: _____
_____	Frame Size: _____ cm	Mesh: _____ µm	Flowmeter: _____

Multinet ☐ BIONESS ☐ Neuston ☐ Others: _____

Trawl Gear:

Midwater Trawls: SOG ☒ Highseas ☐ Pelagic ☐ Other: _____

Bottom Trawls: Atlantic Western IIA ☐ Yankee 36 Hard & Soft Bottom ☐ Other: _____

American Shrimp Trawl ☐

Notes: _____

Trawl Doors: USA Jet ☐ Tyburon ☐ _____

Sounders : Westmar 380 ☐ Others: _____

Acoustics:

Echosounder #1 _____ Frequencies (KHz): 12 ☐ 18 ☐ 38 ☐ 70 ☐ 120 ☐ 200 ☐

Others: _____

Echosounder #2 _____ Frequencies (KHz): 12 ☐ 18 ☐ 38 ☐ 70 ☐ 120 ☐ 200 ☐

Others: _____

Software & Notes: _____

Other Gear in Operation:

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Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>June</u>				Year <u>2021</u>		Vessel <u>Franklin</u>				Cruise ID <u>2021-048</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							
1	S01	16	4:00	BE	CTD		48°43.516	123°25.201	244		-		RF	☐ ☒	
1	↓	16	4:05	BO	CTD		48°50.498	123°7.459	244	244	-		↓	☐ ☐	
1	↓	16	:	EN	CTD		48°50.506	123°7.444			-		↓	☐ ☐	
2	S01	16	15:42	BE	Net		48°50.5380	123°7.4380	234		-		YJ	☐ ☐	Winch issue; need to redo.
2	↓	16	15:49	BO	Net		48°50.536	123°7.4280	234	224	-		↓	☐ ☐	winch angle ~ 5°
2	↓	16	15:54	EN	Net		48°50.5360	123°7.4240	233		-		↓	☐ ☐	
3	S07	16	17:46	BE	Net		48°55.577	123°21.844	151		-		↓	☐ ☐	
3	↓	16	17:50	BO	Net		48°55.572	123°21.796		138	-		↓	☐ ☐	
3	↓	16	17:53	EN	Net		48°55.571	123°21.780			-		↓	☐ ☐	
4	S07	16	18:18	BE	CTD		48°55.606	123°22.833	150		-		RF	☐ ☐	NMEA Feed not
4	↓	16	18:22	BO	CTD		48°55.605	123°22.813		145	-		↓	☐ ☐	working (SN 2215)
4	↓	16	18:25	EN	CTD		48°55.597	123°21.980			-		↓	☐ ☐	Secondary Fluorometer added due to primary data unreliable
5	S02	16	19:32	BE	CTD		49°01.633	123°22.774	247		-		↓	☐ ☐	
5	↓	16	19:37	BO	CTD		49°01.571	123°22.834		248	-		↓	☐ ☐	
5	↓	16	19:42	EN	CTD		49°01.530	123°22.883			-		↓	☐ ☐	
6	S02	16	19:49	BE	Net		49°01.518	123°23.073	251		-		YJ	☐ ☐	
6	↓	16	19:57	BO	Net		49°01.471	123°23.122		232	-		↓	☐ ☐	
6	↓	16	20:02	EN	Net		49°01.484	123°23.106			-		↓	☐ ☐	
			:				°	°			-		↓	☐ ☐	

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

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Seconds f r t r s from SBE25 (S/N 404)

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Month <u>June</u>			Year <u>2021</u>			Vessel <u>Franklin</u>			Cruise ID <u>2021-048</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
7	S12	16	21:59	BE	CTD		49° 17.060	123° 29.953	187		-	RF	RF	☐ ☐	
7	↓	16	22:03	BO	↓		49° 17.022	123° 29.952		188	-		↓	☐ ☐	
7	↓	16	22:07	EN	↓		49° 17.068	123° 29.944			-		↓	☐ ☐	
8	S12	16	22:14	BE	Net		49° 17.089	123° 29.943	186		-		YJ	☐ ☐	
8	↓	16	22:19	BO	↓		49° 17.088	123° 29.9110	176	76	-		↓	☐ ☐	
8	↓	16	22:23	EN	↓		49° 17.136	123° 29.936	182		-		↓	☐ ☐	
9	S03	16	23:54	BE	CTD		49° 22.157	123° 47.905	204		-		RF	☐ ☐	
9	↓	16	23:59	BO	↓		49° 22.144	123° 47.945		202	-		↓	☐ ☐	
9	↓	17	00:03	EN	↓		49° 22.132	123° 47.987			-		↓	☐ ☐	
10	S03	17	00:11	BE	Net		49° 22.147	123° 48.092	187	17+	-		YJ	☐ ☐	
10	↓	17	00:17	BO	↓		49° 22.173	123° 48.114	177	1	-		↓	☐ ☐	
10	↓	17	00:20	EN	↓		49° 22.172	123° 48.131	185		-		↓	☐ ☐	
11	S04	17	01:20	BE	CTD		49° 16.686	123° 46.036	402		-		RF	☐ ☐	
11	↓	17	01:25	BO	↓		49° 16.686	123° 46.042		250	-		↓	☐ ☐	
11	↓	17	01:30	EN	↓		49° 16.687	123° 46.040			-		↓	☐ ☐	
12	4	17	01:38	BE	Net		49° 16.687	123° 46.033	402		-		YJ	☐ ☐	
12	↓	17	01:47	BO	↓		49° 16.719	123° 46.076	250		-		↓	☐ ☐	
12	↓	17	01:52	EN	↓		49° 16.734	123° 46.099	402		-		↓	☐ ☐	End of day
			:				°	°			-			☐ ☐	

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Month <u>June</u>			Year <u>2021</u>			Vessel <u>Franklin</u>			Cruise ID <u>2021-048</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							
13	S10	17	13:51	BE	CTD		49°59.401	125°3.732	238		-		YJ	☐	
13	↓		13:56	BO	↓		49°59.414	125°3.724	238	240	-		↓	☐	
13	↓		14:01	EN	↓		49°59.413	125°3.719	238		-		↓	☐	
14	S10	17	14:09	BE	Net		49°59.407	125°3.689	237		-		↓	☐	
14	↓	↓	14:17	BO	↓		49°59.408	125°3.672	227		-		↓	☐	
14	↓	↓	14:22	EN	↓		49°59.400	125°3.663	237		-		↓	☐	
15	S09	17	16:10	BE	CTD		49°55.390	124°55.442	227		-		RF	☐	
15	↓	↓	16:15	BO	↓		49°55.387	124°55.423	227	228	-		↓	☐	
15	↓	↓	16:19	EN	↓		49°55.384	124°55.420	227		-		↓	☐	
16	S09	17	16:25	BE	Net		49°55.371	124°55.415	227		-		YJ	☐	
16	↓	↓	16:33	BO	↓		49°55.378	124°55.428	217		-		↓	☐	
16	↓	↓	16:37	EN	↓		49°55.382	124°55.447	227		-		↓	☐	
17	S08	17	18:06	BE	CTD		49°45.455	124°46.194	250		-		HD	☐	
17	↓	↓	18:11	BO	↓		49°45.458	124°46.196	250	250	-		↓	☐	
17	↓	↓	18:15	EN	↓		49°45.458	124°46.201	250		-		↓	☐	
18	S08	17	18:20	BE	Net		49°45.466	124°46.210	338		-		YJ	☐	
18	↓	↓	18:29	BO	↓		49°45.465	124°46.209	250		-		↓	☐	
18	↓	↓	18:34	EN	↓		49°45.470	124°46.209	338		-		↓	☐	
			:				°	°			-			☐	

Event Type:

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 DRF = Drifter
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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

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Month June			Year 2021			Vessel Franklin			Cruise ID 2020-048						
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	S06	17	21:00	BE	CTD		49°28.026	124°30.056	322		-		YJ	☐	HEX/HDR file corrected from X to 6
19	↓	↓	21:06	BO	↓		49°28.054	124°30.035	321	250	-		↓	☐	
19	↓	↓	21:10	EN	↓		49°28.079	124°30.022	319		-		↓	☐	
20	S06	17	21:16	BE	NET		49°28.101	124°30.002	318		-		↓	☐	
20	↓	↓	21:24	BO	↓		49°28.128	124°29.923	250		-		↓	☐	
20	↓	↓	21:29	EN	↓		49°28.154	124°29.894	318		-		↓	☐	
21	S05	17	23:35	BE	CTD		49°21.982	124°05.008	237		-		EA	☐	
21	↓	↓	23:44	BO	↓		49°21.991	124°05.005	237	239	-		↓	☐	
21	↓	↓	23:49	EN	↓		49°22.000	124°05.005	237		-		↓	☐	
22	S05	17	23:53	BE	NET		49°21.998	124°05.015	238		-		YJ	☐	
22	↓	18	00:01	BO	↓		49°22.016	124°05.004	228		-		↓	☐	
22	↓	18	00:05	EN	↓		49°22.026	124°05.004	238		-		↓	☐	End of day
23	1	18	15:27	BE	SET		49°15.024	123°49.930	398	0	-			☐	Temperature 11.5°C
24	2	18	16:54	BE	SET		49°16.485	123°38.145	205	30	-			☐	
25	2	18	18:12	BE	CTD		49°16.597	123°37.228	271		-		YJ	☐	CTD HEX/HDR FILE CORRECTED WITH PREFIX S
25	2	18	18:17	BO	CTD		49°16.588	123°37.222	271	255	-		↓	☐	
25	2	18	18:22	EN	CTD		49°16.580	123°37.231	272		-		↓	☐	
26	2	18	18:28	BE	NET		49°16.567	123°37.220	274		-		↓	☐	FM 17586 STRONG WIND/CURRENT
26	2	18	18:37	BO	NET		49°16.566	123°37.229	274	250	-		↓	☐	

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

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Month <u>JUNE</u>				Year <u>2021</u>		Vessel <u>SJ Franklin</u>				Cruise ID <u>2021-048</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							
26	2	18	18:42	EN	NET		49°16.552	123°37.240	273		-		YJ	☐ ☐	FM18902
27	3	18	19:18	BE	SET		49°17.625	123°35.341	316	15	-			☐ ☐	Temperture 8.7°C
28	4	18	21:01	BE	SET		49°20.648	123°33.827	157	0	-			☐ ☐	T 13.2
29	5	18	22:35	BE	SET		49°22.905	123°39.289	169	60	-			☐ ☐	T. 8.0
30	5	19	00:18	BE	CTD		49°24.050	123°42.602	171		-		YJ	☐ ☒	
30	5	19	00:21	BO	CTD		49°24.046	123°42.604	171	170	-			☐ ☐	
30	5	19	00:24	EN	CTD		49°24.037	123°42.605	171		-			☐ ☐	
31	5	19	00:32	BE	NET		49°24.024	123°42.564	171	161	-			☐ ☐	
31	5	19	00:39	BO	NET		49°24.027	123°42.565	171	161	-			☐ ☐	
31	5	19	00:41	EN	NET		49°24.031	123°42.549	171		-		↓	☐ ☐	END OF DAY
32	6	19	13:48	BE	SET		49°24.333	123°46.209	115	0	-			☐ ☐	T 12.7
32	6	19	14:18	EN	SET		49°21.980	123°47.099	—	0	-			☐ ☐	
33	7	19	15:09	BE	SET		49°21.761	123°48.730	260	60	-			☐ ☐	T. 8.2
33	7	19	15:39	EN	SET		49°22.834	123°51.484	288	60	-			☐ ☐	
34	8	19	16:32	BE	SET		49°22.784	123°53.450	130	15	-			☐ ☐	T 9.2
34	8	19	17:02	EN	SET		49°24.278	123°52.634	186	15	-			☐ ☐	
35	8	19	17:57	BE	NET		49°25.662	123°52.551	213		-		YJ	☐ ☐	FM 19765
35	8	19	18:05	BO	NET		49°25.659	123°52.561	213	200	-		↓	☐ ☐	*CTD CANCELLED DUE TO CONNECTION & NMEA FAILURE
35	8	19	18:07	EN	NET		49°25.664	123°52.561	213		-		↓	☐ ☐	FM 20650

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Bottle Firing Method:

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Month <u>JUNE</u>				Year <u>2021</u>		Vessel <u>SJ Franklin</u>				Cruise ID <u>2021-048</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
36	9	19	19:13	BE	SET		49°26.163	123°54.802	208	0	-			☐ ☐	T 12.7
36	9	19	19:43	EN	SET		49°26.987	123°58.264	202	0	-			☐ ☐	
37	10	19	20:35	BE	SET		49°27.135	124°02.125	276	30	-			☐ ☐	T 8.6
37	10	19	21:05	EN	SET		49°28.714	124°04.993	387	30	-			☐ ☐	
38	11	19	21:50	BE	SET		49°30.428	124°05.493	313	0	-			☐ ☐	T 12.4
38	11	19	22:20	EN	SET		49°32.590	124°05.463	273	0	-			☐ ☐	
39	12	19	23:18	BE	SET		49°34.232	124°05.725	259	15	-			☐ ☐	T 9.1
39	12	19	23:48	EN	SET		49°36.185	124°07.046	228	15	-			☐ ☐	
40	12	20	00:34	BE	CTD		49°37.101	124°08.349	223		-		YJ	☐ ☐	CONNECTION RECOVERED BY REBOOTING COMPUTER
40	12	20	00:37	BO	CTD		49°37.094	124°08.366	218	221	-			☐ ☐	NMEA STILL NOT
40	12	20	00:41	EN	CTD		49°37.088	124°08.389	216		-			☐ ☒	
41	12	20	00:48	BE	NET		49°37.085	124°08.410	215		-			☐ ☐	FM 20650 - 21778
41	12	20	00:55	BO	NET		49°37.095	124°08.463	215	205	-			☐ ☐	
41	12	20	00:58	EN	NET		49°37.105	124°08.472	215		-			☐ ☐	END OF DAY
42	13	20	13:50	BE	SET		49°37.764	124°09.665	204	0	-			☐ ☐	T 14.5
42	13	20	14:20	EN	SET		49°37.681	124°13.212	345	0	-			☐ ☐	
43	14	20	15:06	BE	SET		49°38.488	124°14.861	338	15	-			☐ ☐	T 10.8
43	14	20	15:36	EN	SET		49°40.447	124°14.740	328	15	-			☐ ☐	
44	15	20	16:51	BE	SET		49°45.040	124°14.504	217	0	-			☐ ☐	T 12.5

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Month <u>JUNE</u>				Year <u>2021</u>		Vessel <u>SJ Franklin</u>				Cruise ID <u>2021-048</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							
44	15	20	17:21	EN	SET		49°42.564	124°14.437	268	0	-			☐ ☐	
45	16	20	18:31	BE	SET		49°42.906	124°15.498	160	45	-			☐ ☐	T 8.7
45	16	20	19:01	EN	SET		49°42.886	124°18.587	215	45	-			☐ ☐	
46	17	20	19:51	BE	SET		49°42.104	124°19.666	316	15	-			☐ ☐	T 10.0
46	17	20	20:21	EN	SET		49°43.728	124°21.499	316	15	-			☐ ☐	
47	18	20	21:08	BE	SET		49°44.438	124°23.303	323	30	-			☐ ☐	T 9.0
47	18	20	21:38	EN	SET		49°44.857	124°26.327	316	30	-			☐ ☐	
48	19	20	22:45	BE	SET		49°45.288	124°27.965	319	0	-			☐ ☐	T 14.1
48	19	20	23:15	EN	SET		49°46.257	124°30.976	317	0	-			☐ ☐	
49	19	21	00:11	BE	CTD		49°46.112	124°32.442	254		-		YJ	☐ ☒	
49	19	21	00:14	BO	CTD		49°46.108	124°32.443	254	249	-			☐ ☐	
49	19	21	00:19	EN	CTD		49°46.101	124°32.447	251		-			☐ ☐	
50	19	21	00:25	BE	NET		49°46.101	124°32.447	251		-			☐ ☐	FM 2178
50	19	21	00:33	BO	NET		49°46.092	124°32.459	248	240	-			☐ ☐	
50	19	21	00:38	EN	NET		49°46.081	124°32.441	246		-			☐ ☐	FM 23048 END OF DAY
51	20	21	14:33	BE	SET		49°49.291	124°58.750	103	0	-			☐ ☐	T 14.4
51	20	21	15:03	EN	SET		49°51.431	124°58.319	-	0	-			☐ ☐	
52	21	21	15:56	BE	SET		49°52.325	124°57.445	261	45	-			☐ ☐	T 9.1
52	21	21	16:26	EN	SET		49°53.999	124°55.537	178	45	-			☐ ☐	

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							Latitude	Longitude							
53	22	21	17:15	BE	SET		49°55.209	124°55.049	217	15	-			☐ ☐	T10.2
53	22	21	17:45	EN	SET		49°57.292	124°57.331	—	15	-			☐ ☐	
54	23	21	18:27	BE	SET		49°58.591	124°59.868	140	30	-			☐ ☐	T8.8
54	23	21	18:57	EN	SET		49°59.940	125°02.373	123	30	-			☐ ☐	
55	24	21	19:45	BE	SET		50°01.028	125°05.252	260	0	-			☐ ☐	T13.9
55	24	21	20:15	EN	SET		50°02.729	125°07.256	254	0	-			☐ ☐	
56	25	21	21:10	BE	SET		50°03.731	125°07.200	257	15	-			☐ ☐	T10.1
56	25	21	21:33	EN	SET		50°05.168	125°07.181	240	15	-			☐ ☐	
57	25	21	22:09	BE	CTD		50°05.781	125°07.315	242		-		YJ	☐ ☒	
57	25	21	22:13	BO	CTD		50°05.779	125°07.325	243	245	-			☐ ☐	
57	25	21	22:18	EN	CTD		50°05.779	125°07.344	244		-			☐ ☐	
58	25	21	22:26	BE	NET		50°05.716	125°07.372	249		-			☐ ☐	FM23048
58	25	21	22:34	BO	NET		50°05.774	125°07.390	251	239	-			☐ ☐	
58	25	21	22:38	EN	NET		50°05.768	125°07.406	251		-		↓	☐ ☐	FM23060* Flow meter Malfunc
59	26	21	23:11	BE	SET		50°05.049	125°07.630	241		-			☐ ☐	T13.6
59	26	21	23:31	EN	SET		50°06.440	125°07.010	254		-			☐ ☐	
60	26	22	00:21	BE	CTD		50°07.708	125°06.308	286		-		YJ	☐ ☒	
60	26	22	00:26	BO	CTD		50°07.698	125°06.309	281	250	-			☐ ☐	
60	26	22	00:30	EN	CTD		50°07.696	125°06.305	280		-		↓	☐ ☐	

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Month <u>JUNE</u>				Year <u>2021</u>			Vessel <u>SJ Franklin</u>			Cruise ID <u>2021-048</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							
61	26	22	00:37	BE	NET		50°07.668	125°06.308	283		-		YJ	☐ ☐	FM 23060
61	26	22	00:46	BO	NET		50°07.708	125°06.340	289	250	-		↓	☐ ☐	
61	26	22	00:48	EN	NET		50°07.735	125°06.360	295		-		↓	☐ ☐	FM 24420 END OF DAY
62	27	22	13:53	BE	SET		50°22.003	125°21.830	214	0	-			☐ ☐	T9.9
62	27	22	14:23	EN	SET		50°23.040	125°20.600	235	0	-			☐ ☐	
63	28	22	15:02	BE	SET		50°21.758	125°22.180	248	15	-			☐ ☐	T9.6
63	28	22	15:22	EN	SET		50°21.020	125°24.240	293	15	-			☐ ☐	
64	29	22	16:07	BE	SET		50°19.548	125°25.020	274	0	-			☐ ☐	T9.9
64	29	22	16:27	EN	SET		50°18.180	125°25.270	237	0	-			☐ ☐	
65	29	22	17:00	BE	CTD		50°17.176	125°25.104	153		-		YJ	☐ ☒	
65	29	22	17:04	BO	GTD		50°17.172	125°25.092	155	153	-		↓	☐ ☐	
65	29	22	17:07	EN	CTD		50°17.159	125°25.081	155		-		↓	☐ ☐	
66	29	22	17:15	BE	NET		50°17.144	125°25.045	155		-		↓	☐ ☐	FM 24420
66	29	22	17:20	BO	NET		50°17.121	125°25.018	155	145	-		↓	☐ ☐	
66	29	22	17:23	EN	NET		50°17.100	125°25.011	156		-		↓	☐ ☐	FM 25214
67	30	22	18:27	BE	SET		50°24.211	125°19.790	263	0	-			☐ ☐	T10.0
67	30	22	18:47	EN	SET		50°25.520	125°18.870	308	0	-			☐ ☐	
68	31	22	19:37	BE	SET		50°25.854	125°18.950	303	15	-			☐ ☐	T9.4
68	31	22	19:57	EN	SET		50°24.460	125°19.740	265	15	-			☐ ☐	

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Month <u>JUNE</u>				Year <u>2021</u>		Vessel <u>SJ Franklin</u>			Cruise ID <u>2021-048</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							
69	31	22	21:11	BE	CTD		50°26.985	125°17.925	275		-		YJ	☐ ☒	
69	31	22	21:16	BO	CTD		50°26.991	125°17.903	276	251	-			☐ ☐	
69	31	22	21:20	EN	CTD		50°27.005	125°17.851	290		-			☐ ☒	
70	31	22	21:27	BE	NET		50°27.046	125°17.843	305		-			☐ ☐	FM 25214
70	31	22	21:37	BO	NET		50°27.065	125°17.727	306	250	-			☐ ☐	
70	31	22	21:40	EN	NET		50°27.063	125°17.710	306		-		↓	☐ ☐	FM 26518
71	32	22	23:23	BE	SET		50°19.229	125°24.940	144	0	-			☐ ☐	T 9.5
71	32	22	23:43	EN	SET		50°17.650	125°25.350	199	0	-			☐ ☐	END OF DAY
72	33	23	13:43	BE	SET		50°39.550	124°53.078	587	0	-			☐ ☐	T 10.4
72	33	23	14:03	EN	SET		50°41.080	124°52.870	500	0	-			☐ ☐	
73	33	23	14:41	BE	CTD		50°41.694	124°53.285	539		-		YJ	☐ ☐	
73	33	23	14:46	BO	CTD		50°41.691	124°53.287	539	255	-			☐ ☐	
73	33	23	14:51	EN	CTD		50°41.689	124°53.290	539		-			☐ ☒	PRESSURE POST-SOAK 2.351
74	33	23	14:57	BE	NET		50°41.694	124°53.305	539		-			☐ ☐	FM 26518
74	33	23	15:07	BO	NET		50°41.672	124°53.309	539	250	-			☐ ☐	
74	33	23	15:11	EN	NET		50°41.661	124°53.325	539		-		↓	☐ ☐	FM 27848
75	34	23	15:44	BE	SET		50°43.660	124°52.134	502	0	-			☐ ☐	T 10.0
75	34	23	16:04	EN	SET		50°44.910	124°53.550	510	0	-			☐ ☐	
76	35	23	18:31	BE	SET		50°50.429	124°53.561	318	0	-			☐ ☐	T 10.9

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Month JUNE				Year 2021			Vessel SJ Franklin			Cruise ID 2021-048					
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							
76	35	23	18:51	EN	SET		50°48.960	124°55.070	379	0	-			☐ ☐	
77	36	23	19:43	BE	SET		50°48.720	124°56.408	399	15	-			☐ ☐	T9.3
77	36	23	20:03	BO	SET		50°46.710	124°55.390	432	15	-			☐ ☐	
78	36	23	21:36	EN	CTD		50°39.446	124°52.506	589		-		YJ	☐ ☐	PHYTO PLANKTON BLOOM BUTE INLET > 2 KM
78	36	23	21:41	BE	CTD		50°39.456	124°52.488	589	256	-			☐ ☐	NMEA RECOVERED GPS ONLINE
78	36	23	21:45	BO	CTD		50°39.454	124°52.468	590		-			☐ ☒	
79	36	23	21:50	BE	NET		50°39.432	124°52.440	589		-			☐ ☐	FM 27848
79	36	23	21:59	BO	NET		50°39.468	124°52.442	590	250	-			☐ ☐	
79	36	23	22:04	EN	NET		50°39.466	124°52.453	590		-			☐ ☐	FM 29160
80	37	23	22:34	BE	SET		50°38.276	124°52.837	600	33	-			☐ ☐	T8.9
80	37	23	22:44	EN	SET		50°37.500	124°53.150	613	33	-			☐ ☐	
81	38	23	23:33	BE	SET		50°37.710	124°53.312	610	15	-			☐ ☐	T8.8
81	38	23	23:53	EN	SET		50°38.990	124°52.550	583	15	-			☐ ☐	END OF DAY
82	39	24	13:53	BE	SET		50°06.375	124°50.920	492	0	-			☐ ☐	T13.0
82	39	24	14:13	EN	SET		50°05.530	124°48.790	504	0	-			☐ ☐	
83	40	24	14:53	BE	SET		50°06.117	124°47.745	458	0	-			☐ ☐	T13.1
83	40	24	15:13	EN	SET		50°07.450	124°46.850	474	0	-			☐ ☐	
84	41	24	16:30	BE	SET		50°01.829	124°53.253	287	0	-			☐ ☐	T11.0
84	41	24	16:50	EN	SET		50°00.320	124°52.140	267	0	-			☐ ☐	

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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
85	42	24	18:27	BE	SET		49°53.070	124°41.518	129	15	-			☐ ☐	T9.5
85	42	24	18:47	EN	SET		49°51.616	124°42.382	126	15	-			☐ ☐	
86	43	24	19:59	BE	SET		49°50.016	124°49.611	268	0	-			☐ ☐	T -
86	43	24	20:29	EN	SET		49°47.810	124°49.955	333	0	-			☐ ☐	
87	44	24	21:24	BE	SET		49°47.516	124°49.714	332	30	-			☐ ☐	T9.2
87	44	24	21:54	EN	SET		49°45.434	124°50.084	144	30	-			☐ ☐	
88	45	24	22:40	BE	SET		49°45.189	124°51.397	92	15	-			☐ ☐	T9.6
88	45	24	23:10	EN	SET		49°46.914	124°53.069	93	15	-			☐ ☐	
89	45	24	23:48	BE	CTD		49°48.094	124°54.212	140		-		YU	☐ ☐	
89	45	24	23:50	BO	CTD		49°48.104	124°54.191	142	143	-			☐ ☐	
89	45	24	23:53	EN	CTD		49°48.113	124°54.172	143		-			☐ ☒	
90	45	25	00:00	BE	NET		49°48.143	124°54.143	144		-			☐ ☐	FM 29160
90	45	25	00:05	BO	NET		49°48.133	124°54.061	146	134	-			☐ ☐	
90	45	25	00:07	EN	NET		49°48.142	124°54.053	146		-		↓	☐ ☐	FM 29928 END OF DAY
91	46	25	13:45	BE	SET		49°50.008	124°47.462	169	0	-			☐ ☐	T12.7
91	46	25	14:05	EN	SET		49°48.909	124°45.666	216	0	-			☐ ☐	
92	47	25	15:05	BE	SET		49°44.135	124°43.067	344	45	-			☐ ☐	T.9.0
92	47	25	15:35	EN	SET		49°43.073	124°45.844	230	45	-			☐ ☐	
93	48	25	16:31	BE	SET		49°43.480	124°43.457	317	0	-			☐ ☐	T15.1

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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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Month <u>JUNE</u>				Year <u>2021</u>		Vessel <u>SJ Franklin</u>				Cruise ID <u>2021-048</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
93	48	25	17:01	EN	SET		49°42.696	124°46.495	203	0	-			☐ ☐	
94	49	25	17:54	BE	SET		49°42.151	124°47.152	137	15	-			☐ ☐	T9.6
94	49	25	18:24	EN	SET		49°40.242	124°45.403	127	15	-			☐ ☐	
95	50	25	19:31	BE	SET		49°39.251	124°43.580	129	30	-			☐ ☐	T9.4
95	50	25	20:01	EN	SET		49°37.409	124°41.879	139	30	-			☐ ☐	
96	51	25	20:54	BE	SET		49°36.766	124°41.165	140	0	-			☐ ☐	T14.9
96	51	25	21:24	EN	SET		49°39.099	124°40.238	128	0	-			☐ ☐	
97	51	25	22:05	BE	CTD		49°39.778	124°39.916	132		-		YJ	☐ ☐	
97	51	25	22:07	BO	CTD		49°39.774	124°39.928	131	133	-			☐ ☐	
97	51	25	22:10	EN	CTD		49°39.774	124°39.936	136		-			☐ ☒	PRESSURE POST-SOAK 2.121
98	51	25	22:16	BE	NET		49°39.765	124°39.921	133		-			☐ ☐	FM 29928
98	51	25	22:20	BO	NET		49°39.753	124°39.925	132	123	-			☐ ☐	
98	51	25	22:23	EN	NET		49°39.749	124°39.920	132		-		↓	☐ ☐	FM 30590
99	52	25	23:54	BE	SET		49°40.384	124°40.246	185	60	-			☐ ☐	T8.6
99	52	26	00:09	EN	SET		49°41.356	124°39.858	203	60	-			☐ ☐	
100	52	26	00:22	BE	CTD		49°49.277	124°43.820	172		-		YJ	☐ ☐	PRESSURE PRE-SOAK 2.350
100	52	26	00:25	BO	CTD		49°49.282	124°43.806	172	173	-			☐ ☐	
100	52	26	00:28	EN	CTD		49°49.280	124°43.796	172		-			☐ ☒	PRESSURE POST-SOAK 1.439
101	52	26	00:34	BE	NET		49°49.268	124°43.791	172		-		↓	☐ ☐	FM 30590

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
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Produced by the Water Properties Group, IOS

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Month JUNE				Year 2021			Vessel SJ Franklin			Cruise ID 2021-048					
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							
101	52	26	00:40	BO	NET		49°49.285	124°43.781	170	162	-		YJ	☐	
101	52	26	00:43	EN	NET		49°49.300	124°43.785	169		-		↓	☐	FM 30608* MULTIFUNCTION END OF DAY
102	53	26	13:40	BE	SET		49°47.371	124°43.526	221	0	-			☐	T11.1
102	53	26	14:00	EN	SET		49°45.934	124°42.518	-	0	-			☐	
103	54	26	14:53	BE	SET		49°42.499	124°38.278	343	30	-			☐	T9.3
103	54	26	15:23	EN	SET		49°41.030	124°36.915	323	30	-			☐	
104	55	26	16:14	BE	SET		49°40.811	124°35.381	303	15	-			☐	T9.6
104	55	26	16:44	EN	SET		49°39.087	124°32.991	324	15	-			☐	
105	56	26	17:16	BE	SET		49°38.192	124°30.927	301	0	-			☐	T11.9
105	56	26	17:46	EN	SET		49°36.951	124°27.825	331	0	-			☐	
106	56	26	18:26	BE	CTD		49°36.548	124°26.792	319		-		YJ	☐	PRESSURE PRE-SOAK 2.509
106	56	26	18:30	BO	CTD		49°36.538	124°26.815	324	256	-			☐	
106	56	26	18:35	EN	CTD		49°36.526	124°26.827	329		-			☒	PRESSURE POST-SOAK 1.389
107	56	26	18:43	BE	NET		49°36.510	124°26.839	333		-			☐	FM 30608
107	56	26	18:51	BO	NET		49°36.505	124°26.855	336	250	-			☐	
107	56	26	18:55	EN	NET		49°36.495	124°26.877	337		-		↓	☐	FM 30640 MULTIFUNCTION
108	57	26	19:19	BE	SET		49°35.641	124°25.576	324	45	-			☐	T8.8
108	57	26	19:49	EN	SET		49°34.352	124°23.044	338	45	-			☐	
109	58	26	20:30	BE	SET		49°33.622	124°22.857	270	15	-			☐	T10.8

Event Type:
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 DRF = Drifter
 _____ = _____

Bottle Firing Method:
 US = Up / Stop (default)
 UN = Up / No stop
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Notes: _____

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Month <u>JUNE</u>				Year <u>2021</u>		Vessel <u>SJ Franklin</u>				Cruise ID <u>2021-048</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							
109	58	26	21:00	EN	SET		49°32.707	124°25.858	123	15	-			☐ ☐	
110	59	26	21:45	BE	SET		49°32.189	124°26.901	167	0	-			☐ ☐	T12.2
110	59	26	22:15	EN	SET		49°26.910	124°29.138	141	0	-			☐ ☐	
111	60	26	23:34	BE	SET		49°30.321	124°29.001	169	60	-			☐ ☐	T8.3
111	60	27	00:04	EN	SET		49°28.839	124°30.853	291	60	-			☐ ☐	
112	60	27	00:38	BE	CTD		49°27.788	124°30.985	316		-		YJ	☐ ☐	
112	60	27	00:42	BO	CTD		49°27.798	124°31.001	316	249	-			☐ ☐	
112	60	27	00:47	EN	CTD		49°27.804	124°31.008	316		-			☐ ☒	
113	60	27	00:53	BE	NET		49°27.811	124°31.001	316		-			☐ ☐	FM 30640 30=28% SPEED 30→40
113	60	27	00:59	BO	NET		49°27.827	124°31.038	313	250	-			☐ ☐	to make stopper WORK
113	60	27	01:05	EN	NET		49°27.846	124°31.075	314		-			☐ ☐	FM 30800 SPEED 60 END OF DAY
114	61	27	13:46	BE	SET		49°23.440	124°24.070	365	0	-			☐ ☐	T14.4
114	61	27	14:16	EN	SET		49°25.520	124°22.599	347	0	-			☐ ☐	
115	62	27	15:12	BE	SET		49°23.620	124°25.884	182	15	-			☐ ☐	T10.0
115	62	27	15:42	EN	SET		49°24.083	124°29.052	154	15	-			☐ ☐	
116	63	27	16:28	BE	SET		49°24.632	124°28.940	196	45	-			☐ ☐	T9.6
116	63	27	16:49	EN	SET		49°25.696	124°30.170	217	45	-			☐ ☐	
117	64	27	17:34	BE	SET		49°25.480	124°32.280	148	30	-			☐ ☐	T9.3
117	64	27	18:04	EN	SET		49°26.561	124°35.052	131	30	-			☐ ☐	

Event Type:

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Bottle Firing Method:

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Notes:

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Month <u>JUNE</u>			Year <u>2021</u>			Vessel <u>SJ Franklin</u>			Cruise ID <u>2021-048</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							
118	64	27	18:34	BE	CTD		49°27.320	124°35.761	163		-		YJ	☐ ☐	PRESSURE PRE-SOAK 2.283
118	64	27	18:37	BO	CTD		49°27.325	124°35.761	164	166	-			☐ ☐	
118	64	27	18:40	EN	CTD		49°27.337	124°35.760	165		-			☐ ☒	PRESSURE POST-SOAK 1.427
119	64	27	18:50	BE	NET		49°27.306	124°35.754	162		-			☐ ☐	FM 30800 LUBRICANT DOWN 50 UP 60
119	64	27	18:54	BO	NET		49°27.315	124°35.775	162	152	-			☐ ☐	
119	64	27	18:56	EN	NET		49°27.320	124°35.782	162		-			☐ ☐	FM 31612
120	65	27	19:45	BE	SET		49°27.893	124°38.559	108	0	-			☐ ☐	T15.8 >1000 DOG FISH
120	65	27	20:15	EN	SET		49°26.440	124°35.373	122	0	-			☐ ☐	END OF DAY
121	66	28	13:46	BE	SET		49°26.602	124°21.485	334	15	-			☐ ☐	T10.7
121	66	28	14:16	EN	SET		49°26.593	124°21.488	357	15	-			☐ ☐	
122	67	28	15:08	BE	SET		49°26.025	124°21.029	328	0	-			☐ ☐	T14.5
122	67	28	15:38	EN	SET		49°26.026	124°21.038	312	0	-			☐ ☐	
123	68	28	16:56	BE	SET		49°24.435	124°13.765	309	60	-			☐ ☐	T9.2
123	68	28	17:26	EN	SET		49°22.418	124°14.138	315	60	-			☐ ☐	
124	68	28	18:04	BE	CTD		49°21.061	124°14.158	313		-		YJ	☐ ☒	
124	68	28	18:09	BO	CTD		49°21.060	124°14.182	313	255	-			☐ ☐	
124	68	28	18:13	EN	CTD		49°21.060	124°14.196	313		-			☐ ☐	
125	68	28	18:22	BE	NET		49°21.050	124°14.221	313		-			☐ ☐	FM 31612
125	68	28	18:28	BO	NET		49°21.055	124°14.252	313	250	-			☐ ☐	

Event Type:

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Month <u>JUNE</u>			Year <u>2021</u>			Vessel <u>SJ Franklin</u>			Cruise ID <u>2021-048</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
125	68	28	18:32	EN	NET		49°22.063	124°14.250	313	60	-		YJ	☐	FM 32970
126	69	28	19:15	BE	SET		49°23.283	124°14.386	306	30	-			☐	T11.8
126	69	28	19:45	EN	SET		49°21.124	124°14.374	283	30	-			☐	
127	70	28	20:34	BE	SET		49°21.004	124°14.212	280	0	-			☐	T14.9
127	70	28	21:04	EN	SET		49°22.031	124°11.334	285	0	-			☐	
128	71	28	21:58	BE	SET		49°22.986	124°10.326	349	45	-			☐	T9.4
128	71	28	22:28	EN	SET		49°29.331	124°08.200	288	45	-			☐	
129	72	28	23:35	BE	SET		49°26.511	124°07.015	192	15	-			☐	T10.5
129	72	29	00:05	EN	SET		49°28.885	124°06.747	293	15	-			☐	
130	72	29	00:34	BE	CTD		49°29.903	124°06.316	417		-		YJ	☐	PRESSURE PRE-SOAK 1.785
130	72	29	00:38	BO	CTD		49°29.932	124°06.310	418	251	-			☐	
130	72	29	00:43	EN	CTD		49°29.958	124°06.288	419		-			☐	PRESSURE POST-SOAK 1.258
131	72	29	00:50	BE	NET		49°30.003	124°06.277	420		-			☐	FM 32970 STRONG CURRENT
131	72	29	00:57	BO	NET		49°30.034	124°06.257	420	250	-			☐	ON SURFACE 30° ANGLE
131	72	29	01:01	EN	NET		49°30.055	124°06.250	420		-		↓	☐	FM 34321 END OF DAY
132	73	29	13:49	BE	SET		49°19.741	123°30.493	150	0	-			☐	T13.8
132	73	29	14:19	EN	SET		49°17.486	123°31.683	219	0	-			☐	
133	74	29	15:06	BE	SET		49°17.269	123°32.259	270	45	-			☐	T8.7
133	74	29	15:36	EN	SET		49°15.839	123°34.272	335	45	-			☐	

Event Type:

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Bottle Firing Method:

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

Notes:

Time Code:

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Month <u>JUNE</u>				Year <u>2021</u>		Vessel <u>SJ Franklin</u>				Cruise ID <u>2021-048</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
134	75	29	16:15	BE	SET		49°14.955	123°35.841	362	15	-			☐ ☐	T11.5
134	75	29	16:45	EN	SET		49°13.137	123°36.871	367	15	-			☐ ☐	
135	76	29	17:33	BE	SET		49°11.865	123°39.132	364	0	-			☐ ☐	T11.7
135	76	29	18:03	EN	SET		49°12.340	123°42.721	362	0	-			☐ ☐	
136	77	29	19:20	BE	SET		49°12.233	123°43.102	314	45	-			☐ ☐	T9.0
136	77	29	19:50	EN	SET		49°13.141	123°45.630	275	45	-			☐ ☐	
136	77	29	20:22	BE	CTD		49°13.849	123°46.267	298		-		YJ	☐ ☒	PRESSURE PRE-SOAK 2.386
137	77	29	20:26	BO	CTD		49°13.844	123°46.222	302	249	-			☐ ☐	
137	77	29	20:31	EN	CTD		49°13.842	123°46.186	308		-			☐ ☐	PRESSURE POST-SOAK 1.197
138	77	29	20:37	BE	NET		49°13.837	123°46.177	308		-			☐ ☐	FM 34321
138	77	29	20:46	BO	NET		49°13.824	123°46.128	316	250	-			☐ ☐	
138	77	29	20:48	EN	NET		49°13.814	123°46.097	318		-		↓	☐ ☐	FM35680 END OF DAY
139	78	30	13:52	BE	SET		48°48.603	123°06.060	182	0	-			☐ ☐	T -
139	78	30	14:22	EN	SET		48°49.124	123°07.416	207	0	-			☐ ☐	3RD WIRE ISSUE*
140	78	30	16:17	BE	CTD		48°49.925	123°06.348	193		-		YJ	☐ ☒	
140	78	30	16:20	BO	CTD		48°49.933	123°06.322	192	194	-			☐ ☐	
140	78	30	16:24	EN	CTD		48°49.954	123°06.288	189		-			☐ ☐	
141	78	30	16:32	BE	NET		48°50.002	123°06.251	187		-			☐ ☐	FM35680
141	78	30	16:36	BO	NET		48°50.030	123°06.226	188	177	-		↓	☐ ☐	

Event Type:

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Bottle Firing Method:

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

Notes:

* 3RD WIRE MOISTURE, SPLICED

Time Code:

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

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Month <u>JUNE / JULY</u>				Year <u>2021</u>		Vessel <u>SJ Franklin</u>				Cruise ID <u>2021-048</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							
141	78	30	16:40	EN	NET		48°50.030	123°06.172	188		-		YJ	☐ ☐	FM 36710
142	79	30	18:18	BE	SET		48°50.529	123°08.834	198		-			☐ ☐	T 10.2
142	79	30	18:48	EN	SET		48°50.978	123°10.326	202		-			☐ ☐	
143	80	30	20:00	BE	SET		48°55.552	123°13.649	134		-			☐ ☐	T 9.2
143	80	30	20:30	EN	SET		48°53.883	123°11.395	129		-			☐ ☐	
144	81	30	21:20	BE	SET		48°51.183	123°08.760	128		-			☐ ☐	T 10.4
144	81	30	21:50	EN	SET		48°51.461	123°06.692	-		-			☐ ☐	
145	82	30	22:50	BE	SET		48°51.856	123°12.742	216		-			☐ ☐	T 11.6
145	82	30	23:20	EN	SET		48°53.178	123°15.541	166		-			☐ ☐	
146	82	30	23:53	BE	CTD		48°53.540	123°15.206	213		-			☐ ☒	PRESSURE PRE-SOAK 2.384
146	82	30	23:57	BO	CTD		48°53.539	123°15.220	208	213	-			☐ ☐	
146	82	01	00:00	EN	CTD		48°53.542	123°15.244	196		-			☐ ☐	PRESSURE POST-SOAK 1.331
147	82	01	00:07	BE	NET		48°53.537	123°15.276	188		-			☐ ☐	FM 36710
147	82	01	00:12	BO	NET		48°53.543	123°15.313	189	170	-			☐ ☐	
147	82	01	00:16	EN	NET		48°53.549	123°15.327	190		-			☐ ☐	FM 37632 END OF DAY
148	83	01	13:48	BE	SET		48°55.294	123°20.156	185	45	-			☐ ☐	T 9.4
148	83	01	14:18	EN	SET		48°56.832	123°22.086	194	45	-			☐ ☐	
149	84	01	15:04	BE	SET		48°56.730	123°23.200	167	0	-			☐ ☐	T 11.1
149	84	01	15:34	EN	SET		48°57.942	123°26.116	146	0	-			☐ ☐	

Event Type:

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NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

US = Up / Stop (default)
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Notes:

Time Code:

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

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Month <u>JULY</u>				Year <u>2021</u>		Vessel <u>SJ Franklin</u>				Cruise ID <u>2021-048</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
150	85	01	16:14	BE	SET		49°57.866	123°36.995	162	30	-			☐ ☐	T9.8
150	85	01	16:44	EN	SET		49°59.607	123°28.893	197	30	-			☐ ☐	
151	86	01	17:31	BE	SET		48°59.747	123°29.943	170	0	-			☐ ☐	T12.5
151	86	01	18:01	EN	SET		49°01.422	123°32.178	181	0	-			☐ ☐	
152	86	01	18:30	BE	CTD		49°02.626	123°33.549	186		-			☐ ☐	PRESSURE PRE-SOAK 2.469
152	86	01	18:34	BO	CTD		49°02.636	123°33.558	186	189	-			☐ ☐	
152	86	01	18:37	EN	CTD		49°02.641	123°33.562	186		-			☐ ☐	PRESSURE POST-SOAK 1.419
153	86	01	18:46	BE	NET		49°02.664	123°33.580	187		-			☐ ☐	FM 37632
153	86	01	18:52	BO	NET		49°02.666	123°33.593	187	177	-			☐ ☐	
153	86	01	18:55	EN	NET		49°02.660	123°33.596	187		-			☐ ☐	FM 38575
154	87	01	19:22	BE	SET		49°03.965	123°36.324	194	15	-			☐ ☐	T10.2
154	87	01	19:52	EN	SET		49°05.810	123°37.175	172	15	-			☐ ☐	
155	88	01	20:33	BE	SET		49°06.781	123°36.758	195	30	-			☐ ☐	T9.6
155	88	01	21:03	EN	SET		49°08.848	123°36.650	187	30	-			☐ ☐	
156	89	01	21:49	BE	SET		49°09.799	123°34.768	357	60	-			☐ ☐	T8.6
156	89	01	22:19	EN	SET		49°09.135	123°31.748	357	60	-			☐ ☐	
157	90	01	23:27	BE	SET		49°09.154	123°30.700	340	15	-			☐ ☐	T10.1
157	90	01	23:57	EN	SET		49°08.400	123°27.520	295	15	-			☐ ☐	
158	90	02	00:32	BE	CTD		49°08.737	123°26.860	285		-			☐ ☐	PRESSURE PRE-SOAK 2.525

Event Type:

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Bottle Firing Method:

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Month <u>JULY</u>				Year <u>2021</u>		Vessel <u>S J Franklin</u>				Cruise ID <u>2021-048</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/Fl Cleaned	Comments
							Latitude	Longitude							
158	90	02	00:37	BO	CTD		49°08.712	123°26.906	286	250	-			☐ ☐	
158	90	02	00:41	EN	CTD		49°08.690	123°26.956	287		-			☐ ☒	PRESSURE POST-SOAK 1.365
159	90	02	00:47	BE	NET		49°08.675	123°27.035	288		-			☐ ☐	FM 38575
159	90	02	00:53	BO	NET		49°08.651	123°27.089	288	250	-			☐ ☐	WIRE OUT 251 ANGLE 5°
159	90	02	00:58	EN	NET		49°08.645	123°27.097	289		-			☐ ☐	FM 39918 END OF DAY
160	91	02	13:48	BE	SET		49°00.913	123°13.181	94	0	-			☐ ☐	T 10.7
160	91	02	14:08	EN	SET		49°01.490	123°15.440	88	0	-			☐ ☐	
161	92	02	15:42	BE	SET		48°59.989	123°20.941	216	30	-			☐ ☐	T 9.5
161	92	02	16:12	EN	SET		49°01.632	123°22.988	243	30	-			☐ ☐	
162	93	02	17:53	BE	SET		49°08.657	123°19.287	117	15	-			☐ ☐	T 9.6
162	93	02	18:23	EN	SET		49°10.743	123°19.057	128	15	-			☐ ☐	
163	94	02	19:27	BE	SET		49°10.878	123°19.098	130	0	-			☐ ☐	T 11.3
163	94	02	19:57	EN	SET		49°13.020	123°18.700	132	0	-			☐ ☐	
164	95	02	20:56	BE	SET		49°12.845	123°23.568	277	45	-			☐ ☐	T 9.3
164	95	02	21:16	EN	SET		49°14.204	123°23.485	242	45	-			☐ ☐	
165	96	02	22:31	BE	SET		49°19.532	123°22.894	146	0	-			☐ ☐	T 12.5
165	96	02	22:51	EN	SET		49°19.279	123°25.277	185	0	-			☐ ☐	
166	97	03	23:36	BE	SET		49°17.399	123°25.649	150	60	-			☐ ☐	T 8.3
166	97	03	23:56	EN	SET		49°16.048	123°25.169	169	60	-			☐ ☐	

Event Type:

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Bottle Firing Method:

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Notes:

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Month <u>JULY</u>				Year <u>2021</u>		Vessel <u>SJ Franklin</u>				Cruise ID <u>2021-048</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
167	97	03	00:27	BE	CTD		49°14.970	123°25.039	237		-		YJ	☐	PRESSURE PRE-SOAK 2.385
167	97	03	00:31	BO	CTD		49°14.962	123°25.025	237	238	-			☐	
167	97	03	00:36	EN	CTD		49°14.958	123°25.014	237		-			☐	PRESSURE POST-SOAK 1.383
168	97	03	00:42	BE	NET		49°14.963	123°24.969	237		-			☐	FM 39918
168	97	03	00:49	BO	NET		49°14.956	123°24.949	236	226	-			☐	WIRE OUT 227
168	97	03	00:53	EN	NET		49°14.958	123°24.950	236		-			☐	FM 41130
169	98	03	13:46	BE	SET		49°32.539	123°15.806	158	0	-			☐	END OF DAY T12.6
169	98	03	14:07	EN	SET		49°30.792	123°16.311	226	0	-			☐	
170	98	03	14:35	BE	CTD		49°29.926	123°16.216	232		-		YJ	☒	PRESSURE PRE-SOAK 2.440
170	98	03	14:40	BO	CTD		49°29.882	123°16.222	233	234	-			☐	
170	98	03	14:44	EN	CTD		49°29.851	123°16.242	233		-			☐	PRESSURE POST-SOAK 1.403
171	98	03	14:52	BE	NET		49°29.759	123°16.260	233		-			☐	FM 41130
171	98	03	14:59	BO	NET		49°29.713	123°16.252	234	223	-			☐	
171	98	03	15:03	EN	NET		49°29.663	123°16.239	234		-			☐	FM 42520
172	99	03	15:21	BE	SET		49°28.570	123°16.356	241	0	-			☐	T11.6
172	99	03	15:41	EN	SET		49°27.076	123°16.997	-	0	-			☐	
173	100	03	17:08	BE	SET		49°20.215	123°26.751	118	0	-			☐	T12.3
173	100	03	17:28	BO	SET		49°18.718	123°27.318	-	0	-			☐	
174	100	03	18:00	EN	CTD		49°17.747	123°27.209	143		-		YJ	☐	PRESSURE PRE-SOAK 2.324

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Month <u>JULY</u>				Year <u>2021</u>		Vessel <u>SJ Franklin</u>				Cruise ID <u>2021-048</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
174	100	03	18:03	BO	CTD		49°17.746	123°27.215	143	146	-		YJ	☐ ☐	
174	100	03	18:06	EN	CTD		49°17.740	123°27.210	143		-			☐ ☒	PRESSURE POST-SOAK 1.54G
175	100	03	18:14	BE	NET		49°17.732	123°27.181	143		-			☐ ☐	FM 42520
175	100	03	18:17	BO	NET		49°17.736	123°27.182	144	133	-			☐ ☐	
175	100	03	18:19	EN	NET		49°17.733	123°27.171	144		-		↓	☐ ☐	FM 43260 END OF DAY
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
		JUN	:				°	°			-			☐ ☐	
023	1	18	15:57	EN	SET		49°16.644	123°43.087	340	0	-			☐ ☐	MISSING LOG
024	2	18	17:24	EN	SET		49°17.755	123°38.145	205	30	-			☐ ☐	
027	3	18	19:48	EN	SET		49°19.245	123°33.154	118	15	-			☐ ☐	
028	4	18	21:31	EN	SET		49°22.459	123°36.215	169	0	-			☐ ☐	
029	5	18	23:05	EN	SET		49°23.690	123°42.154	169	60	-			☐ ☐	
→	END	OF	SURVEY	←			°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

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