DAILY SCIENCE LOG BOOK

MISSION NUMBER 2020-017

DATE: From: OCT 6 To: OCT 15 2020

VESSEL: CCGS S.J. Franklin

PROJECT(S): OCT JW. salmon

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

**** 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: WP #103

Data acquisition program: SeaSave 7.26.7.121

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

Primary CTD

Make: SBE model: 9 serial number: 506

Primary temperature serial number: ~~5T0~~ 5013

Primary conductivity serial number: 4434

Secondary temperature serial number: 5725

Secondary conductivity serial number: 4448

Transmissometer: Wetlabs Model: CSTAR s/n: 1005DR

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model Wetlabs Cable gain: ~~#~~ 13 s/n: 2215 **P, S** or **NO** pump?

Fluorometer: Model _____ Cable gain: _____ s/n: _____ **P, S** or **NO** pump?

Oxygen sensor: SBE Model: SBE 43 s/n: 0047 **P, S** or **NO** pump?

PAR sensor: None Model: _____ s/n: ~~1252~~ **Surface PAR? Y / N**

Other sensors: Teledyne Benthos 916P Altimeter s/n: 1252 **P, S** or **NO** pump?

Other sensors: _____ s/n: _____ **P, S** or **NO** pump?

Other sensors: _____ s/n: _____ **P, S** or **NO** pump?

Other sensors: _____ s/n: _____ **P, S** or **NO** pump?

Secondary CTD

Make: SBE model: 25 serial number: 334

Primary temperature serial number: 4484 hexfile says 2449

Primary conductivity serial number: 2128

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____ **P, S** or **NO** pump?

Fluorometer: Model _____ Cable gain: _____ s/n: _____ **P, S** or **NO** pump?

Oxygen sensor: SBE Model: 43 s/n: 1483 **P, S** or **NO** pump?

PAR sensor: _____ Model: _____ s/n: _____ **Surface PAR? Y / N**

Other sensors: Pressure SBE s/n: 0482 **P, S** or **NO** pump?

Other sensors: Turbidity s/n: _____ **P, S** or **NO** pump?

Other sensors: _____ s/n: _____ **P, S** or **NO** pump?

Other sensors: _____ s/n: _____ **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 (e.g., W.E. Ricker)

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month OCT **Year** 2020 **Vessel** FRANKLIN **Cruise ID** 2020 017

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
001	TEST	07	16:32	BE	SET	/	49° 4.333	126° 29.205	130		-	/	EA	☐☐	
			17:00	EN			49° 4.330	126° 32.672	134		-			☐☐	
			:				° .	° .			-			☐☐	
002	TEST	07	17:51	BE	ROS	—	49° 3.351	126° 33.745	134		-	\	CS/CW	☑☑	
			18:00	BO			° 3.329	° 33.712		125	-			☐☐	
			18:04	EN			° 3.318	° 33.707			-			☐☐	
003	TEST	07	22:07	BE	SET	—	49° 27.177	127° 07.301	146		-	\	EA	☐☐	
			22:32	EN			49° 28.401	127° 08.888		155	-			☐☐	
004	TEST	07	23:32	BE	SET	—	49° 29.834	127° 11.321	154		-	\	EA	☐☐	
			23:42	BO			49° 30.464	127° 11.834		155	-			☐☐	
005	CS01	08	14:38	BE	ROS	—	50° 34.840	129° 41.497	2107		01-24	24	CS/CW	☑☑	
			15:21	BO			50° 34.854	129° 41.477		2100	-			☐☐	
			16:28	EN			50° 34.840	129° 41.407			-			☐☐	
006	CS01	08	17:13	BE	NET	/	50° 34.869	129° 41.274	2107	250	-		CW	☐☐	vertical
			17:18	BO			50° 34.875	129° 41.292			-			☐☐	61020 →
			17:23	EN			50° 34.888	129° 41.293			-			☐☐	61609
007	CS01	08	17:47	BE	NET		50° 35.024	129° 41.257	2107	250	-		CS/CW	☐☐	oblique 45°
			17:53	BO			50° 35.166	129° 41.221	2056		-			☐☐	0.8 – 1.9 knts
			17:59	EN			50° 35.357	129° 41.171	2085		-			☐☐	62003 - 65284

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

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

Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 20 April 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month OCT | **Year** 2020 | **Vessel** FRANKLIN | **Cruise ID** 2020-017

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
008	CS01	08	19:12	BE	NET		50 °34.70	129 °41.552	2109		-		CS	☐☐	MOCNESS
			19:46	EN			50 °35.687	129° 40.653		500	-	—		☐☐	
009	CS01	08	20:46	BE	SET		50 °36.615	129 °40.587	2025		-		EA	☐☐	
			21:03	EN			50 °35.393	129 °41.680	2084		-			☐☐	
010	CS01	08	22:21	BE	SET		50 °35.607	129 °40.391	2072		-		EA	☐☐	
			22:42	EN			50 °34.211	129 °41.865	2117		-			☐☐	
011	TO1	09	15:10	BE	SET		50 °42.952	129° 23.675	1684		-		SA	☐☐	
			15:30	EN			50°43.692	129° 21.686	1061		-			☐☐	
012	TO1	09	16:28	BE	ROS	UP	50 °44.11	129° 21.034	934		25-25	1	CW/CS	☐☐	deck pressure
			16:52	BO			° 44.12	° 20.99		924	-			☐☐	1.1db
			17:14	EN			° 44.161	° 20.942			-			☐☐	
013	TO1	09	17:24	BE	NET		50 ° 44.183	129° 20.925	850		-			☐☐	Bongo VH
			:31	BO			° 44.194	° 20.923		250	-			☐☐	
			:36	EN			° 44.200	° 20.921			-			☐☐	
014	TO1	09	17:44	BE	NET		50 °44.218	129 °20.878			-			☐☐	Bongo OH
			17:55	BO			50 ° 44.429	129 ° 20.822			-			☐☐	
			18:01	EN			50 ° 44.541	129 ° 20.788			-			☐☐	
015	CS08	09	21:30	BE	SET		51 ° 6.775	128° 37.780	110		-		SA	☐☐	
			21:49	EN			51 ° 8.096	128° 36.208	130		-			☐☐	

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

Notes: _____

TOI - shallows up during cast

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month Oct | **Year** 2020 | **Vessel** Frank Lynn | **Cruise ID** 2020-017

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
			:				° .	° .			-			☐☐	
017	CS08	09	23:09	BE	CTD	→	51° 8.44	128° 35.98	135		~~26-40~~	~~15~~	~~CWKS~~	☑☑	ø bot+log
			:13	BO			° 8.441	° 35.982		125	-			☐☐	
			:16	EN			° 8.445	° 35.985			-			☐☐	
018	CS08	09	23:24	BE	NET		51° 8.419	128° 36.023	135		-			☐☐	Bongo v H
			:27	BO			° 8.442	° 36.00		125	-			☐☐	
			:30	EN			° 8.431	° 35.974			-			☐☐	
019	MT08	10	14:17	BE	CTD	—	52° 20.409	130° 14.413	365		26-26	B	CW CS	☐☑	bucket @ surface
			:29	BO			° 20.388	° 14.372		355	-			☐☐	
			:35	EN			° 20.397	° 14.335			-			☐☐	
020	MT08	10	14:42	BE	NET		52° 20.396	130° 14.442	365		-			☐☐	Bongo V H
			:49	BO			° 20.453	° 14.440		250	——		CL	☐☐	
			:55	EN			° 20.442	° 14.480			-			☐☐	
021	MT08	10	15:17	BE	NET	—	52° 20.548	130° 14.362	365		-			☐☐	mac NBSS
			15:28	BO			52° 19.320	130° 13.295		350	-		CL	☐☐	
			:	EN			° .	° .			-			☐☐	
022	MT08	10	16:38	BE	SET		52° 19.159	130° 14.402	371		-		EA	☐☐	
			16:59	EN			° 20.570	° 14.595	367		-			☐☐	
			:				° .	° .			-			☐☐	

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Notes: _____

This page is for any notes or observations

@CS08 the power was not getting to the SBE
the power = 0.0.0.0.0 - looked into some power issues where some re-wiring up Top had happened.

911 cable broke - no more. Rosette 911 casts while moving in the LARS

-could not take water as 25p was hooked up into conducting cable and our smaller notens wont fit in that cable

CTD = 25p; attached the ECO from the 911] are water sampling will now be surfaced from buckets

Event 016 missed oops

Event 017/CS08
-the 25p batteries were drained -this cast did not record.

The 25p is in PST and is possibly a day late

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Ocean Sciences Division, Institute of Ocean Sciences

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023	HØ1	10	17:51	BE	CTD	—	52° 24.338	130° 15.016	337		27 - 27	Ø	CW CS	☒ ☑	surf bucket
			18:02	BO			°24.308	° 15.062		327	-			☐ ☐	
			18:08	EN			°24.293	° 15.084			-			☐ ☐	
024	HØ1	10	19:00	BE	NET	—	52 °24.188	130 °15.431	338		-			☐ ☐	Bongo VH
			:07	BO			°24.182	°15.430		250	—	—	CS/CW	☐ ☐	
			:13	EN			°24.179	° 15 436			-			☐ ☐	
025	HØ1	10	19:43	BE	SET		52° 25.364	130° 15.375	331		-		EA	☐ ☐	
			20:02	EN			°26.671	° 15.377	325		-			☐ ☐	
026	HØ2	10	21:25		SET		52° 33.087	130° 16.869	260		-		EA.	☐ ☐	
			21:44				°34.583	° 16.953	246		-			☐ ☐	
027	HØ2	10	22:18	BE	NET		52° 35.334	130° 16.356	244		-			☐ ☐	Bongo VH
			:26	BO			°35.343	° 16.380		234	—		CS/CW	☐ ☐	
			:30	EN			°35.342	° 16.383			-			☐ ☐	
028	HØ2	10	22:39	BE	CTD		52° 35.338	130° 16.395	242		28 - 28		CW/CS	☐ ☐	surf bucket
			22:48	BO			°35.335	° 16.363		232	-			☐ ☐	
			22:52	EN			°35.326	° 16.397			-			☐ ☐	
029	HØ3	11	00:54	BE	CTD		52° 50.261	130° 12.376	227		29 - 29		CW/CS	☒ ☑	surf bucket
			1:01	BO			°50.325	°12.393		217	-			☐ ☐	
			1:04	EN			°50.353	°12.370			-			☐ ☐	

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Notes: _____

Buckets are taken while CTD is taking place. near beginning. (1752.)

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month OCT **Year** 2020 **Vessel** Franklin **Cruise ID** 2020-017

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
030	HO3.	11	01:12	BE	NET	—	52 °50.197	130° 12.317	228		-		CS/KW	☐☐	Bongo UH
			01:19	BO			°50.198	°12.346		218	-			☐☐	
			01:22	EN			°50.209	°12.376			-			☐☐	
031	DE01	11	14:10	BE	NET		51 °11.9591	131 °43.806	66		-			☐☐	
			:12	BO			°11.964	°43.781		56	-			☐☐	
			:13	EN			°11.964	°43.780			-			☐☐	
032	DE01	11	14:20	BE	CTD		51 °11.920	131 °43.898	66		30 - 30	5B		☑☑	surf bucket
			:23	BO			°11.939	°43.901		52	-			☐☐	
			:24	EN			°11.947	°43.894			-			☐☐	
033	DE01	11	15:04	BE	SET		54° 12.358	131° 45.417	93		-		EA	☐☐	net broke.
			15:23	EN			°12.488	°47.900	110		-			☐☐	
034	DE03	11	19:47	BE	CTD	—	54° 9.622	132° 22.605	90		31 - 31	5B	CW/CS	☐☑	surf bucket
			:51	BO			°9.627	°22.589		80	-			☐☐	
			:53	EN			°9.627	°22.574			-			☐☐	
035	DE03	11	19:58	BE	NET		54° 9.610	132 °22.614	89		-	—	CW/CS	☐☐	Bongo UH
			20:00	BO			°9.602	°22.607		79	-			☐☐	
			20:01	EN			°9.601	°22.617			-			☐☐	
036	DE03		20:45	BE	SET		54° 10.554	132° 24.291	97		-		EA.	☐☐	sediment
			:	EN			° .	° .			-			☐☐	

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Bottle Firing Method:
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UN = Up / No stop
DN = Down / No stop

Time Code:
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BO = Bottom Time of Cast
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DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

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

Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 20 April 2016

Event 036 - third wire tangled on hand back

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month OCT **Year** 2020 **Vessel** Franklin **Cruise ID** 2020-017

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
037	DE04	11	22:53	BE	SET		54°12.717	132°42.195	151		-		~~EA~~	☐☐	to commit.
			23:10	EN			54°12.914	132°44.143			-			☐☐	
038	DE04	12	00:34	BE	NET	—	54°12.845	132°44.631	188		-		CS/CW	☐☐	
			:39	BO			°12.833	°44.603		178	-			☐☐	
			:42	EN			°12.847	°44.578			-			☐☐	
039	DE04	12	00:50	BE	CTD	—	54°12.840	132°44.577	187		32-32	SB	CW/CS	☒☑	surf bottle
			:56	BO			°12.814	°44.557		177	-			☐☐	
			:59	EN			°12.802	°44.556			-			☐☐	
040	DE07	12	14:08	BE	CTD	—	54°27.005	132°42.124	355		-			☐☑	
			:18	BO			°27.952	°42.160		345	33-33	SB	CW/CS	☒☑	surf bucket
			:24	EN			°27.970	°42.084			-			☐☐	
041	DE07	12	14:33	BE	NET	—	54°26.998	132°42.033	355		-		CS/CW	☐☐	Bongo VN
			14:40	BO			°27.026	°41.924		250	-			☐☐	
			14:45	EN			°27.033	°41.877			-			☐☐	
042	DE07	12	15:18	BE	SET		54°27.327	132°38.521	362		-			☐☐	
			15:38	EN			54°27.426	132°35.611	364		-			☐☐	
043	Mesm53	12	16:29	BE	SET		54°28.371	132°31.005	366		-			☐☐	
			16:49	EN			54°28.800	132°28.235	362		-			☐☐	
			:				° .	° .			-			☐☐	

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

Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 20 April 2016

· Event 037 - shorter tow due to whales ahead.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month OCT **Year** 2020 **Vessel** Frank Lew **Cruise ID** 2020-017

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
044	MASON 53	12	17:24	BE	NET	—	54°29.312	132°26.920	361		-			☐☐	
			:32	BO			°29.261	°26.943		250	-			☐☐	
			:36	EN			°29.261	°26.986			-			☐☐	
045	MASON 53	12	17:43	BE	CTD	—	54°29.235	132°26.909	361		34-34	5B	CS/CW	☒☑	surf bucket
			:54	BO			°29.203	°26.846		351	-			☐☐	
			18:00	EN			°29.192	°26.832			-			☐☐	
046	MASON 53	12	19:57	BE	NET	UP	54°29.182	132°27.024	361		-			☐☐	MOCNESS
			20:10	BO			°29.274	°27.564		350	-			☐☐	
			20:17	EN			°29.342	°27.894			-			☐☐	
047	DE08		20:10	BE	Set		54°30.384	132°20.689	356		-		EA	☐☐	
			20:29	EN			54°30.585	132°18.570	355		-			☐☐	
048	DE08	12	20:58	BE	CTD	—	54°30.591	132°17.430	355		35-35	SB	CS/CW	☒☑	surf bucket
			21:09	BO			°30.557	°17.413		345	-			☐☐	
			21:15	EN			°30.516	°17.496			-			☐☐	
049	DE08	12	21:19	BE	NET	—	54°30.491	132°17.466	356		-		CS/CW	☐☐	Bongo VH.
			21:27	BO			°30.434	°17.560		250	-			☐☐	
			21:31	EN			°30.415	°17.571			-			☐☐	
050	DE09		22:25	BE	SET		54°32.386	132°8.645	238		-		EA	☐☐	
			22:44	EN			54°32.736	132°6.865	224		-			☐☐	

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month OCT **Year** 2020 **Vessel** Franklin **Cruise ID** 2020-017

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
051	DEØ9	12	23:11	BE	NET	—	54°32.653	132°06.426	226		-		cw/cs	☐☐	Bongo VH
			:17	BO			°32.590	°06.584		216	-			☐☐	
			:20	EN			°32.560	°06.662			-			☐☐	
052	DEØ9	12	23:29	BE	CTD		54°32.509	132°06.873	239		36-36	SB	cw/cs	☒☐	surf bucket
			:36	BO			°32.472	°06.963		229	-			☐☐	
			:40	EN			°32.465	°06.980			-			☐☐	
053	HNO1	13	14:22	BE	CTD	—	53°5.458	130°15.692	203		37-37	SB		☒☐	surf bucket
			:28	BO			°5.450	°15.657		193	-			☐☐	
			:31	EN			°5.463	°15.646			-			☐☐	
054	HNO1	13	14:36	BE	NET	—	53°5.458	130°15.681	203		-			☐☐	Bongo VH
			:42	BO			°5.480	°15.707		193	-			☐☐	
			:45	EN			°5.480	°15.740			-			☐☐	
055	HNO1	13	15:09	BE	SET	—	54°4.652	130°14.818	205		-		EA	☐☐	
			15:29	EN			53°3.541	130°13.750	209		-			☐☐	
056	HNO2	13	16:21	BE		—	53°0.994	130°10.854	218		-		EA	☐☐	
			16:42	EN	SET		52°59.818	130°9.747	223		-			☐☐	
057	HNØ2	13	17:10	BE	NET		52°59.658	130°08.533	225		-		cs/cw	☐☐	Bongo VH
			:17	BO			°59.661	°08.536		215	-			☐☐	
			:21	EN			°59.658	°08.534			-			☐☐	

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Month OCT | **Year** 2020 | **Vessel** Franklin | **Cruise ID** 2020-017

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
058	HN02	13	17:28	BE	CTD	—	52° 59.672	130° 08.572	225		38 - 38	SB		☒ ☑	surf bucket
			:35	BO			°59.657	°08.569		215	-			☐ ☐	
			:39	EN			°59.662	°08.580			-			☐ ☐	
059	HN03	13	19:18	BE	SET		52° 52.323	130° 1.670	252		-		FA	☐ ☐	
			19:37	EN			52° 51.141	130° 0.576	253		-			☐ ☐	
060	HN04	13	20:23	BO	SET		52° 48.310	129° 58.010	255		-		FA.	☐ ☐	
			20:45	EN			52° 47.119	129° 56.540	255		-			☐ ☐	
061	HN04	13	21:10	BE	CTD	—	52° 46.256	129° 56.231	254		39 - 39.	SB	CS/CW	☒ ☑	surf bucket
			:17	BO			°46.223	°56.175		244	-			☐ ☐	
			:21	EN			°46.224	°56.208			-			☐ ☐	
062	HN04	13	21:27	BE	NET		52° 46.211	°56.160	254		-			☐ ☐	Bongo VII
			:35	BO			°46.191	°56.152		244	—	—		☐ ☐	
			:39	EN			°46.202	°56.169			-			☐ ☐	
063	HS03	14	14:04	BE	CTD		52° 06.689	129° 07.705	141		40 - 40	SB	CS/CW	☒ ☑	surf bucket
			:09	BO			°06.694	°07.741		131	-			☐ ☐	
			:12	EN			°06.698	°07.740			-			☐ ☐	
064	HS03	14	14:17	BE	NET		52° 06.706	129° 07.707	139		-			☐ ☐	Bongo VII
			:21	BO			°06.681	°07.723		119.	-			☐ ☐	
			:23	EN			°06.681	°07.725			-			☐ ☐	

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Month OCT **Year** 2020 **Vessel** Franklin **Cruise ID** 2020-017

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
065	HS03	14	14:51	BE	SET		52° 6.282	129° 5.923	120		-		EA	☐☐	
			15:11	EN			52° 5.830	129° 3.957	134		-			☐☐	
066	HS02	14	17:12	BE	SET		52° 5.939	128° 54.588	181		-		EA	☐☐	
			17:32	EN			52° 4.685	128° 54.140	170		-			☐☐	
067	HS02	14	17:55	BE	NET	-	52° 04.237	128° 53.591	168		-			☐☐	
			18:00	BO			°04.261	°53.583		158	/			☐☐	
			:03	EN			°04.252	°53.592			-			☐☐	
068	HS02	14	18:09	BE	CTD	-	52° 04.226	128° 53.603	168		41 - 41	SB		☒☑	surf bucb.
			:14	BO			°04.226	°53.588		158	-			☐☐	
			:17	EN			°04.209	°53.595			-			☐☐	
069	HS01	14	19:21	BE	SET		52° 1.787	128° 43.421	174		-			☐☐	
			19:41	EN			52° 1.331	128° 41.152	159		-			☐☐	
070	QCSD01	14	21:00	BE	SET		51° 55.183	128° 37.409	131		-		EA	☐☐	
			21:20	EN			51° 53.880	128° 36.842	131		-			☐☐	
071	QCSD01	14	21:43	BE	CTD		51° 53.364	128° 35.938	129		42 - 42			☒☑	surf bucket
			:47	BO			°53.409	°35.998		119	-			☐☐	
			:49	EN			°53.442	°35.013			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	

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072	QCSD01	14	21:53	BE	NET	-	51°53.57	128° 36.036	129		-			☐☐	Bingo VH-
			:57	BO			°53.518	° 36.059		119	-			☐☐	
			:59	EN			°53.508	° 36.078			-			☐☐	
073	QCSD02	14	22:19	BE	SET		51° 52.666	128° 35.105	124		-		EA	☐☐	
			22:38	EN			51° 51.543	128° 33.833	119		-			☐☐	
074	QCST01	15	14:06	BE	NET		50° 49.218	127° 25.363	205		-			☐☐	
			:12	BO			°49.213	° 25.358		195	-			☐☐	
			:16	EN			°49.214	°25.357			-			☐☐	
075	QCST01	15	14:22	BE	CTD		50 °49.213	127° 25.345	207		43-43	SB	CS/GW	☒☑	surf bucket
			:30	BO			°49.217	° 25.346		197	-			☐☐	
			:33	EN	-		° 49231	° 25.367			-			☐☐	
076	QCST01	15	:	BE	SET		° .	° .			-			☐☐	See comments
			:	EN			° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	

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Event #76

Started shooting trawl net @ 50 49.247 127 25.400
aborted at 50 48.835 127 23.960.

third wire stopped paying out before doors locked aborted tow but #570 trawl eye lost at sea. it ripped out of kite and pulled off wire.