

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2019-125

DATE:

From: Sept 30, 2019 To: Oct. 9, 2019

VESSEL:

Sea Crest

PROJECT(S):

BCSI Juvenile Salmon - KING

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: _____

Data acquisition program: SeaTerm

CTD deck unit make: N/A model: — serial number: —

Primary CTD

Make: SeaBird model: 25 serial number: 0404 ✓

Primary temperature serial number: 2449 ✓

Primary conductivity serial number: 1764 ✓

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model FLRTD Cable gain: _____ s/n: 2216 ✓ P, S or NO pump?

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

Oxygen sensor: SBE Model: 43 s/n: 1176 ✓ P, S or NO pump?

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

Other sensors: Pressure Model 29 s/n: 0464 ✓ P, S or NO pump?

Other sensors: PH Model 18-I s/n: 0852 ✓ 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: SeaBird model: 19+ serial number: 5299

Primary temperature serial number: 4862

Primary conductivity serial number: _____

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: _____ Model: 43 s/n: 0047 P, S or NO pump?

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

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?

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

CTD calibration bottle location (height above CTD in metres): 1.5 m

This also includes the bottle location above the CTD on non-rosette casts (e.g., W.E. Ricker)

Rosette Setup:

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

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):

Oxygen Kit(s):

Make: _____ Model: _____ Kit Number: _____
Make: _____ Model: _____ Kit Number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Thermosalinograph System (SBE21):

Program: _____ Version: _____
Sampling interval (seconds): _____
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: _____ 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)

Additional Comments:

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: 82527 Sensors: RBR dut3 on Bongo

Others:

RBR dut3 x2 on trawl net (821201-headscope Oct-1-4)

Plankton Nets:

Bongo #1 Frame Size: 60 cm Mesh: 250 μ m Flowmeter: TSK 6069
Bongo #2 Frame Size: cm Mesh: μ m Flowmeter:
Frame Size: cm Mesh: μ m Flowmeter:
Frame Size: cm Mesh: μ m Flowmeter:

Multinet ☐ BIONESS ☐ Neuston ☐ Others:

FM corff 0.14633

Trawl Gear:

Midwater Trawls: SOG ☐ Highseas ☒ Pelagic ☐ Other:

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

American Shrimp Trawl ☐

Notes:

LFS 7742 net

Trawl Doors: USA Jet ☐ Tyburon ☐ Thyboron 4 m² trawl doors

Sounders : Wesmar 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:

1.
2.
3.
4.
5.

- All times recorded in local PDT and time set on SBE25 on Sept 30/A
- CTD start up ~2 min timing with down to 10 m and up to surface to flush.
- All chlorophyll samples will be 304 ml filtered volume unless otherwise noted.
- Sea Crest has marks on winch line every 10m only for depth.
- BONGO descending Rate 1 m/sec on day 1 (heavy weight with tag lines so no tangles) slowed down Oct 2 - Oct 5; then back to 1 m/s Oct 6 - Oct 7.
- RBR duct on headscope malfunctioned after station T04.
No headscope depths for trawl events 60, 63, 66, 72, 75, 78.
- Some inconsistent flow readings.
- There was no correction for wire angle.

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Month		Local		Year		Vessel				Cruise ID					
October				2019		SeaCrest				2019-125					
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
1	J501	1	07:31	BE	SET		50° 22.294	125° 43.903	165.6	0	-		EA	☐	
2	J501	1	08:45	BE	CTD		50° 22.156	125° 43.725	206	-	-			☐	Aboetd event.
3	J501	1	08:57	BE	CTD	US	50° 22.156	125° 43.725	219	200	-	1		☐	see comment
3	J501	1	09:03	BO	CTD	↓	50° 22.156	125° 43.725	209	↓	-	↓		☐	
3	J501	1	09:06	EN	CTD	↓	50° 22.156	125° 43.725	199	↓	-	↓		☐	
4	J501	1	09:16	BE	NET		50° 22.156	125° 43.725	206	190	-			☐	24918 - 26061
4	J501	1	09:20	BO	NET		50° 22.156	125° 43.725	203	↓	-			☐	
4	J501	1	09:25	ED	NET		50° 22.156	125° 43.725	203	↓	-			☐	
5	J502	1	10:38	BE	SET		50° 26.947	126° 00.987	185.8	15	-			☐	
6	J502	1	11:28	BE	CTD	US	50° 27.357	126° 02.865	230	220	-	1		☒	see comments
6	J502	1	11:35	BO	CTD	↓	50° 27.560	126° 03.102	245	↓	-	↓		☐	
6	J502	1	11:40	EN	CTD	↓	50° 27.709	126° 03.196	245	↓	-	↓		☐	
7	J502	1	11:46	BE	NET		50° 27.289	126° 02.960	213	200	-			☐	26061 - 27325
7	J502	1	11:51	BO	NET		50° 27.439	126° 03.109	239	↓	-			☐	
7	J502	1	11:57	EN	NET		50° 27.576	126° 03.189	239	↓	-			☐	
8	J503	1	13:15	BE	SET		50° 29.577	126° 13.129	276.5	0	-			☐	
9	J503	1	13:59	BE	CTD	US	50° 29.805	126° 15.648	311	250	-	↓		☒	
9	J503	1	14:04	BO	CTD	↓	50° 29.860	126° 15.723	304	↓	-	↓		☐	
9	J503	1	14:07	EN	CTD	↓	50° 29.896	126° 15.797	304	↓	-	↓	↓	☐	

Event Type:

BOT = Bottle cast (no CTD)
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 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

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Produced by the Water Properties Group, IOS

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#2 Aborted event because we drifted too far while removing wire mark at 10m as it blocked the messenger

#3 Hand held GPS malfunctioned. Locations should be considered estimates even due to drift.

#6. Missed attaching Niskin bottle; noticed at 11m; brought back up to attach.

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10	JS03	1	14:14	BE	NET		50°29.697	126°15.566	319	250	-		EA	☐ ☐	27325-28984	
10	JS03	1	14:19	BO	NET		50°29.723	126°15.658	325	1	-		1	☐ ☐		
10	JS03	1	14:23	EN	NET		50°29.767	126°15.721	322	1	-			☐ ☐		
11	JS04	1	14:53	BE	SET		50°29.424	126°20.368	375.3	15	-			☐ ☐		
12	JS04	1	15:36	BE	CTD	VS.	50°29.419	126°21.947	379	250	-	1		☐ ☐		
12	JS04	1	15:41	BO	CTD	1	50°29.388	126°21.903	378	1	-	1		☐ ☐		
12	JS04	1	15:46	EN	CTD	1	50°29.364	126°21.877	378	1	-	1		☐ ☐		
13	JS04	1	15:48	BE	Net		50°29.352	126°21.869	379	250	-			☐ ☐		
13	JS04	1	15:54	BO	Net		50°29.338	126°21.839	378	1	-			☐ ☐		
13	JS04	1	16:00	EN	Net		50°29.326	126°21.789	378	1	-			☐ ☐	28989-30245	
14	JS05	1	16:29	BE	Set		50°30.169	126°25.110	351	0	-			☐ ☐		
15	JS05	1	17:19	BE	CTD	VS	50°30.200	126°27.102	383	250	-	1		☐ ☐		
15	JS05	1	17:24	BO	CTD	1	50°30.247	126°27.101	384	1	-	1		☐ ☐		
15	JS05	1	17:26	EN	CTD	1	50°30.217	126°27.115	384	1	-	1		☒ ☐		
16	JS05	1	17:28	BE	Net		50°30.213	126°27.133	384	250	-			☐ ☐		
16	JS05	1	17:32	BO	Net		50°30.203	126°27.204	384	1	-			☐ ☐	30245-31592	
16	JS05	1	17:38	EN	Net		50°30.195	126°27.248	382	1	-			☐ ☐		
17	JS06	1	18:04	BE	Set		50°30.604	126°30.359	318	15	-			☐ ☐	no CTD; no bongo	
18	JS07	2	07:45	BE	Set		50°30.825	126°37.045	436	0	-		✓	☐ ☐		

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Notes:

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Month <u>October</u> <u>local</u>			Year <u>2019</u>			Vessel <u>Sea Crest</u>			Cruise ID <u>2019-125</u>						
Event Number	Station Name	Day	Time <u>(UTC)</u>	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	JSD7	2	08:45	BE	CTD	US	50° 31.289	126° 37.945	417	250	-		EA	☐	angle wire 10°-15°
19	JSD7	2	08:52	BO			50° 31.374	126° 37.210	425		-			☐	see comments
19	JSD7	2	08:56	EN			50° 31.427	126° 38.464	430		-			☒	
20	JSD7	2	09:02	BE	Net		50° 31.281	126° 38.137	434	250	-	1		☐	31592-33444
20	JSD7	2	09:08	BO			50° 31.290	126° 38.457	438		-			☐	wire angle 15°
20	JSD7	2	09:14	EN			50° 31.354	126° 38.766	437		-			☐	
21	JSD8	2	10:03	BE	Set		50° 32.921	126° 43.588	443	15	-			☐	
22	JSD8	2	10:53	BE	CTD	US	50° 33.035	126° 45.806	461	250	-	1		☒	
22	JSD8	2	10:56	BO			50° 33.073	126° 46.020	456		-			☐	
22	JSD8	2	11:01	EN			50° 33.112	126° 46.222	451		-			☐	
23	JSD8	2	11:04	BE	Net		50° 32.967	126° 45.866	462	250	-			☐	33444-34967
23	JSD8	2	11:15	BO			50° 32.979	126° 46.140	455		-			☐	down slower
23	JSD8	2	11:18	EN			50° 33.005	126° 46.321	451		-			☐	wire angle 20°
24	QCST01	2	13:07	BE	Set		50° 39.903	126° 44.551	115	0	-			☐	
25	QCST01	2	13:44	BE	CTD	US	50° 40.122	126° 46.090	147	130	-	1		☒	wire angle 15°
25	QCST01	2	13:45	BO			50° 40.210	126° 46.105	146		-			☐	
25	QCST01	2	13:47	EN			50° 40.283	126° 46.127	146		-			☐	
26	QCST01	2	13:58	BE	Net		50° 40.335	126° 46.144	146	130	-			☐	wire angle 15°
26	QCST01	2	14:02	BO			50° 40.443	126° 46.163	144	1	-			☐	34967-35732

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

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Notes:

Event #19 - Lions Mane jelly caught in Niskin top

Event #23 - asked winch operator to reduce speed by half (Oct 2 - Oct 5)

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Month <u>October</u>			Year <u>2019</u>		Vessel <u>Sea Cuck</u>					Cruise ID <u>2019-125</u>					
Event Number	Station Name	Day	Time <u>(UTC)</u>	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	QCST01	2	14:06	EN	Net		50°40.535	126°46.165	146	130	-		EA	☐ ☐	
27	QCST02	2	15:18	BE	Set		50°44.095	126°59.815	150	15	-			☐ ☐	
28	QCST02	2	15:58	BE	CTD	US	50°44.431	127°02.091	140	120	-	1		☒ ☐	
28	QCST02	2	16:01	BO	↓	↓	50°44.431	127°02.151	140	↓	-			☐ ☐	
28	QCST02	2	16:03	EN	↓	↓	50°44.428	127°02.188	135	↓	-			☐ ☐	
29	QCST02	2	16:05	BE	Net		50°44.419	127°02.243	129	110	-			☐ ☐	35732 - 36451
29	QCST02	2	16:09	BO	↓		50°44.409	127°02.315	118	↓	-			☐ ☐	
29	QCST02	2	16:12	EN	↓		50°44.403	127°02.388	115	↓	-			☐ ☐	
30	QCST03	2	17:07	BE	Set		50°47.285	127°13.437		0	-			☐ ☐	
31	QCST03	2	18:02	BE	CTD	US	50°47.849	127°15.870	170	160	-	1		☐ ☐	
31	QCST03	2	18:06	BO	↓	↓	50°47.853	127°16.014	179	↓	-			☐ ☐	
31	QCST03	2	18:08	EN	↓	↓	50°47.857	127°16.009	176	↓	-			☐ ☐	
32	QCST03	2	18:10	BE	Net		50°47.858	127°16.126	176	160	-			☐ ☐	
32	QCST03	2	18:16	BO	↓		50°47.870	127°16.33	174	↓	-			☐ ☐	
32	QCST03	2	18:20	EN	↓		50°45.891	127°16.425	174	↓	-			☐ ☐	36451 - 37481
33	QCST04	3	08:00	BE	Set		50°53.729	127°37.636	439	15	-			☐ ☐	
34	QCST04	3	08:40	BE	CTD	US	50°54.709	127°38.587	234	220	-	1		☒ ☐	
34	QCST04	3	08:45	BO	↓	↓	50°54.764	127°38.757	280	↓	-			☐ ☐	
34	QCST04	3	08:49	EN	↓	↓	50°54.793	127°38.928	388	↓	-			☐ ☐	See comment

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CTD cast #11 is short off and on only and occurred
between #31 and #34.

#34 edge of pinnacle so depth changed over little drift

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Month <u>Oct</u>			Year <u>2019</u>			Vessel <u>Sea Crest</u>			Cruise ID <u>2019-125</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
35	QCST04	3	08:58	BE	Net		50°54.704	127°38.786	390	250	-		EA	☐	37481-39238
35	QCST04	3	09:03	BO	L		50°54.756	127°39.162	457	L	-			☐	Wier angle 5-10°
35	QCST04	3	09:08	EN	L		50°54.755	127°39.292	415	L	-			☐	See comment.
36	QCST05	3	10:05	BE	Set		50°58.083	127°48.467	155	0	-			☐	
37	QCST05	3	10:44	BE	CTD	US	50°59.860	127°49.660	154	140	-	1		☒	
37	QCST05	3	10:48	BO	L		50°59.878	127°49.682	153	L	-			☐	
37	QCST05	3	10:51	EN	L		50°59.899	127°49.716	154	L	-			☐	
38	QCST05	3	10:53	BE	Net		50°59.909	127°49.735	154	140	-			☐	
38	QCST05	3	10:57	BO	L		50°59.923	127°49.787	154	L	-			☐	
38	QCST05	3	11:01	EN	L		50°59.929	127°49.815	154	L	-			☐	39238-39950
39	QCSD01	3	11:34	BE	Set		51°03.891	127°49.514	117	15	-			☐	
40	QCSD01	3	12:12	BE	CTD	US	51°05.404	127°49.575	103	90	-	1		☒	
40	QCSD01	3	12:16	BO	L		51°05.415	127°49.530	104	L	-			☐	
40	QCSD01	3	12:18	EN	L		51°05.427	127°49.494	103	L	-			☐	
41	QCSD01	3	12:19	BE	Net		51°05.429	127°49.482	104	90	-			☐	
41	QCSD01	3	12:22	BO	L		51°05.432	127°49.422	104	L	-			☐	
41	QCSD01	3	12:25	EN	L		51°05.430	127°49.398	104	L	-			☐	39950-40428
42	QCSD02	3	13:32	BE	Set		51°13.614	127°53.858	135	0	-			☐	See comment
43	QCSD02	3	14:13	BE	CTD	US	51°15.229	127°53.655	136	120	-	1		☒	See comment

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Notes:

#35 edge of pinnacle so depth change once little drift

#42-44 strong tidal currents on flood tide
trawl net fishing beside boat, not behind.

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Month <u>October</u>			Local <u>2019</u>		Year		Vessel <u>Sea Crest</u>		Cruise ID <u>2019-125</u>						
Event Number	Station Name	Day	Time Time	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	QCSD02	3	14:18	BO	CTD	US	51°15.171	127°53.654	137	120	-		EA	☐	
43	QCSD02	3	14:22	EN	CTD	L	51°15.153	127°53.700	137	L	-			☐	
44	QCSD02	3	14:23	BE	Net		51°15.147	127°53.734	137	120	-			☐	See comment
44	QCSD02	3	14:27	BO	Net		51°15.130	127°53.780	137	L	-			☐	wire angle 25°
44	QCSD02	3	14:31	EN	Net		51°15.108	127°53.822	137	L	-			☐	40428-41200
45	QCSD03	3	15:11	BE	Set		51°18.966	127°57.867	158	15	-			☐	See comment
46	QCSD03	3	15:51	BE	CTD	US	51°19.906	127°59.966	175	160	-	1		☐	
46	QCSD03	3	15:55	BO	CTD	L	51°19.859	127°59.929	175	L	-			☐	
46	QCSD03	3	15:58	EN	CTD	L	51°19.846	127°59.931	175	L	-			☐	
47	QCSD03	3	15:59	BE	NET		51°19.841	127°59.931	175	160	-			☐	
47	QCSD03	3	16:06	BO	Net		51°19.808	127°59.920	175	L	-			☐	
47	QCSD03	3	16:10	EN	Net		51°19.793	127°59.909	175	L	-			☐	41200-42026
48	RI01	3	17:14	BE	Set		51°23.290	127°50.878	107	0	-	1		☐	
49	RI01	3	18:03	BE	CTD	US	51°24.657	127°47.731	120	110	-			☐	
49	RI01	3	18:06	BO	CTD	L	51°24.634	127°47.751	120	L	-			☐	
49	RI01	3	18:08	EN	CTD	L	51°24.616	127°47.764	119	L	-			☐	
50	RI01	3	18:10	BE	Net		51°24.586	127°47.770	119	110	-			☐	
50	RI01	3	18:14	BO	Net		51°24.556	127°47.777	117	L	-			☐	See comment
50	RI01	3	18:18	EN	Net		51°24.494	127°47.805	115	L	-			☐	42026-42632

Event Type:

BOT = Bottle cast (no CTD)
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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

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 RE = Recover Mooring Time

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 20 April 2016

#45 minor sensor issues for first 3 min. of trawl event

#50 RBR duct³ sensor was not attached for this bongo event

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month			Year			Vessel			Cruise ID						
October local			2019			Sea Crest			2019-125						
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							
51	T01	4	08:01	BE	SET		51°23.702	128°07.541	119	15	-		EA	☐ ☐	
52	T01	4	08:52	BE	CTD	US	51°22.883	128°12.191	142	130	-	1		☒ ☐	
52	T01	4	08:57	BO			51°22.869	128°12.137	141		-			☐ ☐	
52	T01	4	08:59	EN			51°22.867	128°12.102	141		-			☐ ☐	
53	T01	4	09:00	BE	Net		51°22.866	128°12.101	141	130	-			☐ ☐	
53	T01	4	09:05	BO			51°22.864	128°12.059	141		-			☐ ☐	
53	T01	4	09:09	EN			51°22.865	128°12.012	141		-			☐ ☐	42632-43391
54	T02	4	10:19	BE	Set		51°18.078	128°21.460	79	0	-			☐ ☐	
55	T02	4	11:06	BE	CTD	US	51°16.397	128°19.860	76	65	-			☒ ☐	with angle 10°
55	T02	4	11:08	BO			51°16.440	128°19.880	76		-			☐ ☐	
55	T02	4	11:10	EN			51°16.465	128°19.893	76		-			☐ ☐	
56	T02	4	11:11	BE	Net		51°16.485	128°19.909	76	65	-			☐ ☐	with angle 20°
56	T02	4	11:14	BO			51°16.552	128°19.937	76		-			☐ ☐	see comment
56	T02	4	11:16	FN			51°16.614	128°19.964	76		-			☐ ☐	42632-43701
57	T03	4	11:59	BE	Set		51°13.759	128°26.217	178.4	15	-			☐ ☐	
58	T03	4	12:40	BE	CTD	US	51°12.650	128°27.873	190	180	-	1		☒ ☐	
58	T03	4	12:45	BO			51°12.733	128°27.918	191		-			☐ ☐	with angle 15°
58	T03	4	12:49	EN			51°12.807	128°27.903	191		-			☐ ☐	
59	T03	4	12:52	BE	Net		51°12.647	128°27.778	192	180	-			☐ ☐	with angle 15°

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Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 20 April 2016

#56 Removed 4 - 6-10cm clear jellies from formalin jar (Microcoma sp.)

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Month <u>October</u> <u>local</u>			Year <u>2019</u>			Vessel <u>Sea Crest</u>			Cruise ID <u>2019-125</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	Tms/FI Cleaned	Comments
							Latitude	Longitude							
59	T03	4	12:59	BO	Net		51°12.810	128°27.844	191	180	-		EA	☐ ☐	see comment
59	T03	4	13:02	EN	↓		51°12.881	128°27.878	191	↓	-			☐ ☐	43701-44968
60	T04	4	13:48	BE	Set		51°09.660	128°33.570	166	0	-			☐ ☐	see comment
✓ 61	T04	4	14:30	BE	CTD	US	51°08.424	128°35.704	143	130	-	1		☒ ☐	
61	T04	4	14:34	BO	↓	↓	51°08.451	128°35.619	141	↓	-			☐ ☐	
61	T04	4	14:37	EN	↓	↓	51°08.503	128°35.501	141	↓	-			☐ ☐	
62	T04	4	14:39	BE	Net		51°08.566	128°35.533	141	130	-	1		☐ ☐	
62	T04	4	14:44	BO	↓		51°08.620	128°35.502	143	↓	-			☐ ☐	
62	T04	4	14:46	EN	↓		51°08.657	128°35.472	144	↓	-			☐ ☐	44963-45909
63	T05	4	15:36	BE	Set		51°05.220	128°41.786	67	15	-			☐ ☐	see comment
✓ 64	T05	4	16:18	BE	CTD	US	51°04.076	128°43.340	65	50	-	1		☐ ☐	
64	T05	4	16:21	BO	↓	↓	51°04.093	128°43.362	65	↓	-			☐ ☐	
64	T05	4	16:23	EN	↓	↓	51°04.110	128°43.338	65	↓	-			☐ ☐	
65	T05	4	16:24	BE	Net		51°04.115	128°43.332	65	50	-			☐ ☐	
65	T05	4	16:26	BO	↓		51°04.131	128°43.312	65	↓	-			☐ ☐	see comment
65	T05	4	16:27	EN	↓		51°04.139	128°43.304	65	↓	-			☐ ☐	45909-46200
66	T06	4	17:10	BE	Set		51°00.544	128°47.757	65		-			☐ ☐	see comment
✓ 67	T06	4	17:50	BE	CTD	US	50°59.796	128°50.057	65	55	-			☒ ☐	
67	T06	4	17:53	BO	CTD	↓	50°59.820	128°50.031	65	↓	-			☐ ☐	

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 DRF = Drifter
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Bottle Firing Method:

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 DN = Down / No stop

Notes:

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Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 20 April 2016

#59 removed 2 clear jellies from formalin sample (5cm + 10cm, Microsome?)

#65 formalin sample in two jars

#60, 63, 66 → no headrope sensor data (malfunction after impact)

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Month <u>October</u> <u>local</u>			Year <u>2019</u>			Vessel <u>Sea Crest</u>			Cruise ID <u>2019-125</u>						
Event Number	Station Name	Day	Time (LTC)	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
67	T06	4	17:54	EN	CTD	US	50°59.833	128°50.021	65	55	-		EA	☐	
68	T06	4	17:56	BE	Net		50°59.849	128°50.010	65	55	-	1		☐	wide angle 15°
68	T06	4	17:59	BO	↓		50°59.879	128°49.992	65	↓	-	↓		☐	see comment
68	T06	4	18:01	EN	↓		50°59.903	128°49.979	65	↓	-	↓		☐	46200-46605
69	QCSD04	5	07:44	BE	Set		50°53.194	128°20.711	71.5	15	-			☐	see comment.
70	QCSD04	5	08:24	BE	CTD	US	50°54.797	128°19.688	74	65	-			☒	
70	QCSD04	5	08:27	BO	↓		50°54.787	128°19.673	↓	↓	-			☐	
70	QCSD04	5	08:28	EN	↓		50°54.785	128°19.673	↓	↓	-			☐	
71	QCSD04	5	08:28	BE	Net		50°54.779	128°19.671	74	65	-			☐	
71	QCSD04	5	08:32	BO	↓		50°54.781	128°19.670	↓	↓	-			☐	see comment
71	QCSD04	5	08:36	EN	↓		50°54.790	128°19.665	↓	↓	-			☐	46605-46942
72	QCSD05	5	09:33	BE	Set		51°00.446	128°14.701	101	0	-			☐	see comment
73	QCSD05	5	10:10	BE	CTD	US	51°00.410	128°11.939	118	115	-			☐	
73	QCSD05	5	10:13	BO	↓	↓	51°00.420	128°11.930	118	↓	-			☐	
73	QCSD05	5	10:15	EN	↓	↓	51°00.424	128°11.930	118	↓	-			☐	
74	QCSD05	5	10:16	BE	Net		51°00.426	128°11.932	118	105	-			☐	
74	QCSD05	5	10:20	BO	↓		51°00.433	128°11.937	118	↓	-			☐	see comment
74	QCSD05	5	10:23	EN	↓		51°00.434	128°11.938	118	↓	-			☐	46942-47460
75	QCSD06	5	11:12	BE	Set		51°01.512	128°02.581	164	15	-			☐	see comment.

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Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 20 April 2016

Notes:

#68 - 2 jars for formation sample

#71 2 jars for formation sample.

#74 2 jars for formation sample
[discarded 1 clear jelly, broken bell, approx. diameter 7cm]

#69, 72, 75 - no headscope RBR dust data (time sync errors on back up)

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OCEAN SCIENCES DIVISION, INSTITUTE OF OCEANOGRAPHY															
Month		Year		Vessel		Cruise ID									
October		2019		Sea Crest		2019-125									
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
76	QCSD06	5	11:51	BE	CTD	US	51°02.298	128°00.097	147	135	-	1	EA	☒	Wire angle 5°
76	QCSD06	5	11:55	BO	↓	↓	51°02.337	128°00.163	147	↓	-			☐	see comment
76	QCSD06	5	11:57	EN	↓	↓	51°02.365	128°00.204	147	↓	-			☐	
77	QCSD06	5	11:58	BE	Net		51°02.386	128°00.241	147	135	-			☐	
77	QCSD06	5	12:03	BO	↓	↓	51°02.422	128°00.303	148	↓	-			☐	Wire angle 10°
77	QCSD06	5	12:06	EN	↓		51°02.430	128°00.335	148	↓	-			☐	47460-48268
78	QCST06	5	13:36	BE	Set		50°57.748	127°46.743	177	0	-			☐	see comment
79	QCST06	5	14:22	BE	CTD	US	50°57.399	127°44.859	332	250	-	1		☒	
79	QCST06	5	14:26	BO	↓	↓	50°57.418	127°44.989	321	↓	-			☐	
79	QCST06	5	14:30	EN	↓	↓	50°57.446	127°45.099	321	↓	-			☐	
80	QCST06	5	14:31	BE	Net		50°57.413	127°44.765	322	250	-			☐	
80	QCST06	5	14:42	BO	↓		50°57.443	127°44.865	305	↓	-			☐	Wire angle 5°
80	QCST06	5	14:46	EN	↓		50°57.463	127°44.962	305	↓	-			☐	48268-49761
81	QCST07	5	16:00	BE	Set		50°51.889	127°33.812	265	15	-			☐	
82	QCST07	5	16:43	BE	CTD	US	50°51.314	127°32.016	115	90	-	1		☐	see comment
82	QCST07	5	16:45	BO	↓	↓	50°51.329	127°32.010	105	↓	-			☐	
82	QCST07	5	16:47	EN	↓	↓	50°51.338	127°32.020	105	↓	-			☐	
83	QCST07	5	16:50	BE	Net		50°51.328	127°31.833	142	130	-			☐	
83	QCST07	5	16:54	BO	↓		50°51.321	127°31.866	142	↓	-			☐	

Event Type:

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Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 20 April 2016

Notes:

76 went past 10 m mark, up to ~2m and back down for Niskin message.

#78 - new RBR duct sensor on headrope serial # 92109

'82 - depth change during descent so modified target depth to 90 on route

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Month <u>October</u>			Year <u>2019</u>			Vessel <u>Sea Crest</u>			Cruise ID <u>2019-125</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/Fl Cleaned	Comments
83	QCST07	5	16:58	EN	Net		50°51.321	127°31.866	142	130	-		LA	☐ ☐	49761-50421
84	QCST08	6	07:52	BE	Set		50°47.086	127°26.026	345	0	-			☐ ☐	
85	QCST08	6	08:27	BE	CTD	US	50°46.400	127°23.300	450	250	-	1		☒ ☐	See comment.
85	QCST08	6	08:33	BO			50°46.650	127°24.100	444		-			☐ ☐	
85	QCST08	6	08:37	EN			50°46.650	127°24.150	428		-			☐ ☐	
86	QCST08	6	08:39	BE	Net		50°46.650	127°24.150	420	250	-			☐ ☐	
86	QCST08	6	08:44	BO			50°46.633	127°24.233	406		-			☐ ☐	
86	QCST08	6	08:49	EN			50°46.633	127°24.233	397		-			☐ ☐	50421-51805
87	QCST09	6	09:37	BE	Set		50°44.302	127°17.099	223	15	-			☐ ☐	
88	QCST09	6	10:17	BE	CTD	US	50°43.75	127°14.85	208	195	-	1		☒ ☐	
88	QCST09	6	10:22	BO			50°43.75	127°14.85	201		-			☐ ☐	
88	QCST09	6	10:25	EN			50°43.75	127°14.85	202		-			☐ ☐	
89	QCST09	6	10:27	BE	Net		50°43.75	127°14.85	213	200	-			☐ ☐	
89	QCST09	6	10:31	BO			50°43.75	127°14.85	215		-			☐ ☐	
89	QCST09	6	10:34	EN			50°43.75	127°14.85	214		-			☐ ☐	51805-53025
90	BRO1	6	12:37	BE	Set		50°51.219	126°55.690	176	0	-			☐ ☐	See comment
91	BRO1	6	13:18	BE	CTD	US	50°52.42	126°53.93	174	165	-	1		☐ ☐	
91	BRO1	6	13:22	BO			50°52.42	126°53.93	174		-			☐ ☐	
91	BRO1	6	13:26	EN			50°52.40	126°54.02	174		-			☐ ☐	See comments

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WaterProperties.ca
 Version: 20 April 2016

#85 Inwards CTD and BONGO events were recorded with iPhone
less precision, but safe for one person when recording
position, while deploying/retrieving equipment

#91 - yoyo line caught on Niskin. so brought back to surface
to unhook after ~2m down

#90 - towed past fish farm

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Month <u>October</u>			Year <u>2019</u>			Vessel <u>Sea Crest</u>			Cruise ID <u>2019-125</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
92	BR01	6	13:27	BE	Net		50°52.40	126°54.02	174	165	-		EA	☐ ☐	53025-53838
92	BR01	↓	13:30	BO	↓		50°52.40	126°54.02	174	↓	-			☐ ☐	
92	BR01	↓	13:33	EN	↓		50°52.40	126°54.02	174	↓	-			☐ ☐	
93	BR02	6	14:19	BE	Set		50°53.820	126°48.505	123	15	-			☐ ☐	
94	BR02	↓	14:55	BE	CTD	US	50°53.64	126°46.266	137	125	-	1		☒ ☐	wire angle 10°
94	BR02	↓	14:58	BO	↓		50°53.640	126°46.329	138	↓	-			☐ ☐	
94	BR02	↓	15:00	EN	↓		50°53.672	126°46.387	146	↓	-			☐ ☐	
95	BR02	6	15:02	BE	Net		50°53.681	126°46.432	146	130	-			☐ ☐	
95	BR02	↓	15:05	BO	↓		50°53.722	126°46.503	142	↓	-			☐ ☐	wire angle 10°
95	BR02	↓	15:07	EN	↓		50°53.742	126°46.543	143	↓	-			☐ ☐	53838-54661
96	BR03	6	15:36	BE	Set		50°53.195	126°45.114	216	0	-			☐ ☐	
97	BR03	6	16:22	BE	CTD	US	50°52.50	126°44.58	205	200	-	1		☐ ☐	wire angle 15°
97	BR03	↓	16:27	BO	↓		50°52.50	126°44.58	204	↓	-			☐ ☐	
97	BR03	↓	16:30	EN	↓		50°52.50	126°44.58	200	↓	-			☐ ☐	
98	BR03	6	16:31	BE	Net		50°52.78	126°44.75	206	195	-			☐ ☐	
98	BR03	↓	16:36	BO	↓		50°52.78	126°44.75	212	↓	-			☐ ☐	wire angle 15°
98	BR03	↓	16:39	EN	↓		50°52.78	126°44.75	219	↓	-			☐ ☐	54661-55939
99	BR04	7	07:50	BE	Set		50°48.480	126°31.801	140	140	-			☐ ☐	See comment
100	BR04	↓	08:28	BE	CTD	US	50°48.52	126°29.25	184	175	-	1		☐ ☐	

Event Type:

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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
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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

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This page is for any notes or observations

99 towed past fish farm

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month		Year		Vessel		Cruise ID									
October		2019		Sea Crest		2019-125									
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
100	BRO4	7	08:32	BO	CTD	US	50°48.52	126°29.25	184	175	-	1	EA	☐	
100	BRO4	1	08:35	EN	1	1	50°48.52	126°29.25	184	1	-			☐	
101	BRO4	1	08:36	BE	Net		50°48.52	126°29.25	181	170	-			☐	
101	BRO4	1	08:40	BO	1		50°48.429	126°29.686	179	1	-			☐	wire angle 5°-10°
101	BRO4	1	08:43	EN	1		50°48.421	126°29.697	175	1	-			☐	55940-56959
102	BRO5	7	10:50	BE	Set		50°48.892	126°12.780	181	0.	-			☐	
103	BRO5	1	11:26	BE	CTD	US	50°47.302	126°12.663	161	150	-	1		☒	wire angle 5°-10°
103	BRO5	1	11:30	BO	1		50°47.353	126°12.805	159	1	-			☐	
103	BRO5	1	11:33	EN	1		50°47.307	126°12.815	159	1	-			☐	
104	BRO5	1	11:35	BE	Net		50°47.394	126°12.817	159	150	-			☐	See comment
104	BRO5	1	11:38	BO	1		50°47.435	126°12.827	156	1	-			☐	wire angle 5°
104	BRO5	1	11:40	EN	1		50°47.417	126°12.829	156	1	-			☐	56959-56738
105	KID1	7	13:23	BE	Set		50°39.257	126°12.777	221	15	-			☐	
106	KID1	1	14:04	BE	CTD	US	50°38.546	126°15.341	172	160	-	1		☐	
106	KID1	1	14:08	BO	1		50°38.561	126°15.282	172	1	-			☐	
106	KID1	1	14:11	EN	1		50°38.573	126°15.234	172	1	-			☐	
107	KID1	1	14:13	BE	Net		50°38.579	126°15.198	172	160	-			☐	
107	KID1	1	14:16	BO	1		50°38.599	126°15.141	172	1	-			☐	
107	KID1	1	14:19	EN	1		50°38.617	126°15.042	172	1	-			☐	56738-57688

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104 - original slip event number wrong; so placed second label in jar
with correct event number.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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National Science Foundation, Institute of Ocean Sciences															Page	11	of	11
Month	October		Year	2019		Vessel		Sea Crest		Cruise ID		2019-125						
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			
108	KI02	7	15:16	BE	Set		50°38.005	126°24.971	256	0	-		EA	☐ ☐				
109	KI02	1	16:15	BE	CTD	US	50°38.02	126°28.92	172	160	-			☒ ☐				
109	KI02	1	16:19	BO	I		50°38.02	126°28.92	173	1	-			☐ ☐				
109	KI02	1	16:22	FN	I		50°38.02	126°28.92	174	1	-			☐ ☐				
110	KI02	1	16:23	BE	Net		50°38.02	126°28.92	174	160	-			☐ ☐				
110	KI02	1	16:26	BO	I		50°38.02	126°28.92	177	1	-			☐ ☐				
110	KI02	1	16:29	EN	I		50°38.02	126°28.92	177	1	-			☐ ☐	57688-58468			
			:				°	°			-			☐ ☐				
	END		:				°	°			-			☐ ☐				
	OF		:				°	°			-			☐ ☐				
	SURVEY		:				°	°			-			☐ ☐				
			:				°	°			-			☐ ☐				
			:				°	°			-			☐ ☐				
			:				°	°			-			☐ ☐				
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			:				°	°			-			☐ ☐				
			:				°	°			-			☐ ☐				

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