

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

IOS 2017-53
SOG 2017-06

DATE:

From: 11 SEPT 2017 To: 26 SEPT 2017

VESSEL:

FCV SEA CREST

PROJECT(S):

SOG Juv. Salmon - NEVILLE

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: _____

CTD deck unit make: _____ model: _____ serial number: 23

Primary CTD

Make: Seabird model: SBE 25 serial number: 2543784-0404

Primary temperature serial number: 290164

Primary conductivity serial number: 041764

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model FLRID Cable gain: _____ s/n: 4185 P, S or NO pump?

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

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

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

Other sensors: PH _____ s/n: 0852 P, S or NO pump?

Other sensors: Depth _____ s/n: 05 s/n: 4843 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: _____ model: _____ serial number: _____

Primary temperature serial number: _____

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: _____ s/n: _____ 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): _____

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



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: _____ Sensors: _____

Others: _____

Plankton Nets:

Bongo #1 Frame Size: 60 cm Mesh: 250 μ m Flowmeter: 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: ?

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 : 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. _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 1 of 1

Month September			Year 2017		Vessel Sea Crest			Cruise ID 2017-53		SOG 2017-06					
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
001	1	12	14:15	BE	SET		49°30.180	124°04.173	163		-			☐	
002	↓	1	15:25		CTD		49°26.536	124°03.906	395	250	-		YJ	☐	CS CANCELLED NET / FLUOROMETER CAP - LEFT ON 002-04.1
003	2		16:05		SET		49°26.340	124°00.250	320		-			☐	
004	3		17:45				49°25.956	123°54.820	220		-			☐	
005	4		19:05				49°23.453	123°53.098	332		-			☐	
006	5		20:40		↓		49°25.825	123°49.613	205		-			☐	
007	1		21:31		CTD		49°23.010	123°48.431	187	170	-		YJ	☐	
008	↓		21:43		NET		49°22.870	123°48.328	186	170	-		YJ	☐	
009	6		22:25		SET		49°24.681	123°44.815	171		-			☐	
010	7	↓	23:25				49°23.826	123°39.823	171		-			☐	
011	8	13	00:30				49°23.190	123°35.560	143		-			☐	
012	9		01:25		↓		49°21.630	123°32.840	152		-			☐	
013	1		02:12		CTD		49°19.611	123°32.466	155	140	-		YJ	☐	
014	↓		02:21		NET		49°19.648	123°32.189	156	140	-		YJ	☐	END OF DAY
015	10		14:10		SET		49°17.223	123°25.400	167		-			☐	
016	1		15:10		CTD		49°14.392	123°27.559	300	250	-		YJ	☐	
017	↓		15:24		NET		49°14.321	123°27.481	300	250	-		YJ	☐	
018	11		16:00		SET		49°15.488	123°29.490	298		-			☐	
019	12	↓	17:20	↓	↓		49°13.622	123°34.236	363		-			☐	

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
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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 20 April 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 2 of 11

Month <u>SEPTEMBER</u>			Year <u>2017</u>			Vessel <u>Sea Crest</u>			Cruise ID <u>2017-53</u> <u>SOG2017-06</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							
020	13	13	18:45	BE	SET		49°10.939	123°39.861	271		-			☐ ☐	
021	14		20:00		↓		49°11.990	123°42.415	268		-			☐ ☐	
022			20:53		CTD		49°11.181	123°45.174	109	100	-		YJ	☐ ☐	CTD UPLOAD VOLT=11.8
023	↓		21:02		NET		49°11.093	123°44.998	118	105	-		YJ	☐ ☐	
024	15		22:15		SET		49°14.324	123°53.569	230		-			☐ ☐	
025	16	↓	23:30				49°14.280	123°50.771	252		-			☐ ☐	
026	17	14	00:30				49°15.912	123°47.032	407		-			☐ ☐	
027	18		01:35				49°18.166	123°41.215	220		-			☐ ☐	END OF DAY
028	19		14:10		↓		49°28.269	123°27.943	152		-			☐ ☐	
029			14:56		CTD		49°26.276	123°27.351	88	70	-		YJ	☐ ☐	
030	↓		15:03		NET		49°26.257	123°27.367	88	70	-		YJ	☐ ☐	
031	20		15:30		SET		49°25.165	123°26.536	124		-			☐ ☐	
032	21		16:45				49°25.770	123°25.779	247		-			☐ ☐	
033	22		17:40				49°26.145	123°18.188	243		-			☐ ☐	
034	23		18:45		↓		49°23.705	123°17.696	235		-			☐ ☐	
035			19:22		CTD		49°21.948	123°18.373	219	210	-		YJ	☐ ☐	
036	↓		19:37		NET		49°21.746	123°18.393	210	200	-		YJ	☐ ☐	
037	24		20:45		SET		49°14.450	123°17.875	96		-			☐ ☐	
038	25	↓	22:00	↓	↓		49°10.046	123°19.013	124		-			☐ ☐	

Event Type:

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

LOOP = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

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

Notes:

Time Code:

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

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

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 20 April 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 3 of 11

Month <u>SEPTEMBER</u>				Year <u>2017</u>		Vessel <u>Sea Crest</u>				Cruise ID <u>2017-53</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							
039	26	14	23:00	BE	SET		49°07.475	123°20.094	127		-			☐ ☐	
040	27	15	00:05		↓		49°04.349	123°19.808	119		-			☐ ☐	
041	↓		00:59		CTD		49°02.076	123°16.978	116	100	-		YJ	☐ ☐	
042	↓		01:08		NET		49°02.000	123°16.827	118	110	-		YJ	☐ ☐	END OF DAY
043	28		14:00		SET		49°03.439	123°24.823	271		-			☐ ☐	
044	↓		14:56		CTD		49°01.368	123°28.065	280	250	-		YJ	☐ ☐	
045	↓		15:09		NET		49°01.176	123°27.978	265	250	-		YJ	☐ ☐	NET ENDS BROUGHT ON ROPE
046	29		15:40		SET		49°01.111	123°28.038	255		-			☐ ☐	
047	30		16:30		↓		48°58.734	123°	159		-			☐ ☐	LONG. MISSING
048	31		17:30		↓		48°57.207	123°22.766	203		-			☐ ☐	
049	↓		18:22		CTD		48°56.148	123°18.497	180	170	-		YJ	☐ ☐	
050	↓		18:35		NET		48°56.125	123°18.550	180	170	-		YJ	☐ ☐	WEIGHT ATTACHED ON ENDS
051	32		19:40		SET		48°52.369	123°12.874	182		-			☐ ☐	
052	33		21:15		↓		48°49.207	123°06.375	188		-			☐ ☐	
053	34		22:30		↓		48°51.764	123°08.470	146		-			☐ ☐	
054	↓		23:24		CTD		48°49.576	123°04.754	192	170	-		YJ	☐ ☐	
055	↓	↓	23:36		NET		48°49.562	123°04.507	195	180	-		YJ	☐ ☐	END OF DAY
056	35	16	14:00		SET		48°28.450	123°21.223	91		-			☐ ☐	
057	↓	↓	14:50	↓	CTD		48°28.117	124°20.261	68	60	-		YJ	☐ ☐	

Event Type:

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

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

Bottle Firing Method:

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

Time Code:

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

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

DE = Deployment Time

MR = Messenger Release Time

RE = Recover Mooring Time

Notes:

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 20 April 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 4 of 11

Month SEPTEMBER			Year 2017			Vessel Sea Crest			Cruise ID 2017-53						
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	Tms/FI Cleaned	Comments
058	35	16	14:59	BE	NET		48° 28.201	124° 20.385	70	60	-			☐	
059	36		16:15		SET		48° 27.474	124° 19.201	101		-			☐	
060	37		17:30				48° 25.455	124° 10.482	83		-			☐	UNKNOWN JELLY SP. KEPT IN JAR
061	38		18:25				48° 23.203	124° 06.298	122		-			☐	
062	39		19:25				48° 22.476	123° 59.012	100		-			☐	
063	40		20:35		↓		48° 19.763	123° 51.804	150		-			☐	
064			21:36		CTD		48° 18.266	123° 49.057	172	160	-		YJ	☐	
065	↓	↓	21:46		NET		48° 18.160	123° 49.123	175	160	-		YJ	☐	
066	41	17	01:00		SET		48° 17.926	123° 40.700	166		-			☐	
067			02:29		CTD		48° 29.511	123° 16.269	56	50	-		YJ	☐	CTD/NET NOT RELATED TO SET 41
068	↓		02:35		NET		48° 29.337	123° 16.272	54	45	-		YJ	☐	END OF DAY
069	42		14:05		SET		48° 44.314	123° 23.806	89		-			☐	
070			14:46		CTD		48° 44.996	123° 20.658	60	50	-		YJ	☐	
071	↓		14:54		NET		48° 44.797	123° 20.607	68	60	-		YJ	☐	
072	43		15:20		SET		48° 44.993	123° 18.164	134		-			☐	
073	44		16:25				48° 41.589	123° 17.917	59		-			☐	
074	45		17:35				48° 43.311	123° 25.757	64		-			☐	
075	46		18:25		↓		48° 42.764	123° 27.641	65		-			☐	
076	↓	↓	19:07	↓	CTD		48° 42.244	123° 30.161	69	60	-		YJ	☐	

Event Types:

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

Page 5 of 11

Month <u>SEPTEMBER</u>				Year <u>2017</u>		Vessel <u>Sea Crest</u>				Cruise ID <u>2017-53</u> <u>SO2017-06</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
077	46	17	19:16	BE	NET		48°42.253	123°30.342	68	60	-		YJ	☐ ☐	
078	47		19:40		SET		48°42.614	123°30.868	76		-			☐ ☐	
079	48		21:25		CTD		48°44.711	123°36.150	55	45	-		YJ	☐ ☐	
080			21:30		NET		48°44.760	123°36.164	55	45	-		YJ	☐ ☐	
081	✓		21:55		SET		48°44.849	123°36.136	52		-			☐ ☐	
082	49		22:40				48°44.000	123°32.817	138		-			☐ ☐	
083	50	↓	23:40				48°44.996	123°33.681	94		-			☐ ☐	
084	51	18	01:00		↓		48°48.289	123°33.503	182		-			☐ ☐	
085	↓		01:43		CTD		48°48.774	123°35.577	90	80	-		YJ	☐ ☐	
086	↓		01:50		NET		48°48.764	123°35.587	90	80	-		YJ	☐ ☐	END OF DAY
087	52		14:15		SET		48°51.647	123°34.736	179		-			☐ ☐	
088	↓		15:11		CTD		48°53.996	123°37.130	171	160	-		YJ	☐ ☐	
089	↓		15:18		NET		48°54.058	123°37.089	158	150	-		YJ	☐ ☐	
090	53		15:45		SET		48°54.489	123°38.295	133		-			☐ ☐	
091	54		17:00				48°58.424	123°43.174	76		-			☐ ☐	
092	55		19:25		↓		49°05.838	123°42.264	57		-			☐ ☐	
093	↓		20:03		CTD		49°04.285	123°40.537	57	50	-		YJ	☐ ☐	
094	↓		20:11		NET		49°04.215	123°40.564	58	50	-		YJ	☐ ☐	
095	56	↓	21:05	↓	SET		49°02.823	123°44.302	73		-			☐ ☐	

Event Type:

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

LOOP = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

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

Notes:

Time Code:

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

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

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 20 April 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 6 of 11

Month September				Year 2017			Vessel Sea Crest				Cruise ID 2017-53 SOG 2017-06				
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	Tms/FI Cleaned	Comments
096	57	18	21:55	BE	SET		49°04.321	123°44.608	58		-			☐	
097	57		22:54		CTD		49°08.618	123°49.620	58	50	-		YJ	☐	CTD/NET NOT RELATED TO SET 57
098	↓	↓	23:00		NET		49°08.647	123°49.643	60	50	-		YJ	☐	END OF DAY
099	58	19	14:20		SET		49°48.191	124°33.706	310		-			☐	
100	↓		15:17		CTD		49°46.292	124°32.526	294	250	-		YJ	☐	
101	↓		15:30		NET		49°46.272	124°32.560	288	250	-		YJ	☐	
102	59		16:00		SET		49°46.317	124°31.512	318		-			☐	
103	60		17:05				49°45.615	124°28.625	322		-			☐	HEAVY TRAFFIC ALTERED COURSE
104	61		18:13		↓		49°45.300	124°21.293	80		-			☐	
105	↓		19:03		CTD		49°43.449	124°18.302	145	135	-		YJ	☐	
106	↓		19:12		NET		49°43.468	124°18.360	145	135	-		YJ	☐	
107	62		19:48		SET		49°42.120	124°18.493	270		-			☐	
108	63		21:00				49°38.368	124°15.088	344		-			☐	
109	64		22:04				49°37.900	124°11.220	240		-			☐	
110	65	↓	23:22				49°34.159	124°06.232	286		-			☐	
111	66	20	00:30		↓		49°30.161	124°05.665	419		-			☐	
112	↓		01:22		CTD		49°27.321	124°07.048	330	250	-		YJ	☐	
113	↓		01:33		NET		49°27.288	124°07.080	322	250	-		YJ	☐	END OF DAY
114	67	↓	14:26	↓	SET		49°24.297	124°11.573	264		-			☐	

Event Type:

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

LOOP = Sea Water Loop

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

Bottle Firing Method:

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

Notes:

Time Code:

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

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

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 20 April 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 7 of 11

Month <u>September</u>			Year <u>2017</u>			Vessel <u>Sea Crest</u>			Cruise ID <u>2017-53</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	Tms/FI Cleaned	Comments
115	67	20	15:20	BE	CTD		49° 21.561	124° 12.161	301	250	-		YJ	☐	
116	↓	↓	15:35		NET		49° 21.575	124° 12.053	303	250	-		YJ	☐	
117	68	↓	16:15		SET		49° 20.579	124° 12.093	255		-			☐	
118	69	↓	17:17				49° 21.359	124° 16.359	231		-			☐	
119	70	↓	18:20				49° 23.914	124° 19.155	337		-			☐	
120	71	↓	19:37		↓		49° 27.262	124° 22.326	331		-			☐	
121	↓	↓	20:30		CTD		49° 25.028	124° 24.751	341	250	-		YJ	☐	
122	↓	↓	20:43		NET		49° 24.939	124° 24.646	339	250	-		YJ	☐	
123	72	↓	21:15		SET		49° 24.734	124° 24.973	343		-			☐	
124	73	↓	22:25				49° 22.818	124° 28.217	80		-			☐	
125	74	↓	23:28				49° 24.482	124° 32.881	107		-			☐	
126	75	21	00:41		↓		49° 26.611	124° 35.940	134		-			☐	ENGINE FAILURE DURING SET
127	↓	↓	01:24		CTD		49° 27.765	124° 37.357	151	140	-		YJ	☐	
128	↓	↓	01:34		NET		49° 27.787	124° 37.346	152	140	-		YJ	☐	END OF DAY
129	76	↓	14:15		SET		49° 27.303	124° 36.799	138		-			☐	
130	77	↓	15:19				49° 27.967	124° 37.069	161		-			☐	
131	78	↓	16:37				49° 30.342	124° 30.589	180		-			☐	
132	79	↓	17:45		↓		49° 32.555	124° 25.684	128		-			☐	
133	↓	↓	18:40	↓	CTD		49° 35.039	124° 22.807	214	200	-		YJ	☐	

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

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

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

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

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

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

Produced by the Water Properties Group, IOS

WaterProperties.ca Version: 20 April 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 8 of 11

Month <u>September</u>				Year <u>2017</u>			Vessel <u>Sea Crest</u>			Cruise ID <u>2017-53 SOG2017-06</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	Tms/FI Cleaned	Comments
134	79	21	18:53	BE	NET		49° 35.008	124° 22.743	209	200	-		YJ	☐	
135	80		19:15		SET		49° 35.285	124° 23.335	205		1			☐	>6 KILLER WHALES SPOTTED
136	81		21:23				49° 41.121	124° 37.261	376		-			☐	
137	82		22:18				49° 43.293	124° 39.919	354		-			☐	
138	83	↓	23:10				49° 40.943	124° 40.781	236		-			☐	
139	84	22	00:05				49° 38.266	124° 21.227	142		-			☐	
140	85		01:00		↓		49° 35.608	124° 41.581	132		-			☐	
141	↓		01:53		CTD		49° 35.758	124° 45.478	83	75	-		YJ	☐	CTD VOLT = 10.9 V
142	↓		02:00		NET		49° 35.822	124° 45.464	82	70	-		YJ	☐	BAT CHANGE = 13.5 V
143	86		14:10		SET		49° 42.361	124° 47.791	139		-			☐	END OF DAY
144	↓		15:02		CTD		49° 45.200	124° 49.800	155	145	-		YJ	☐	
145	↓		15:11		NET		49° 45.188	124° 49.789	153	140	-		YJ	☐	
146	87		15:35		SET		49° 45.305	124° 49.290	212		-			☐	
147	88		16:35		↓		49° 47.317	124° 44.981	242		-			☐	
148	↓		17:25		CTD		49° 48.003	124° 41.160	143	130	-		YJ	☐	
149	↓		17:33		NET		49° 47.957	124° 41.212	151	140	-		YJ	☐	
150	89		17:57		SET		49° 48.686	124° 42.462	166		-			☐	
151	90		19:33		↓		49° 53.646	124° 52.202	216		-			☐	
152	91	✓	20:38	✓	↓		49° 50.951	124° 54.589	306		-			☐	

Event Type:

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

LOOP = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

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

Time Code:

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

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

Notes:

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 20 April 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 9 of 11

Month September				Year 2017			Vessel Sea Crest				Cruise ID 2017-53 SOG2017-06				
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							
153	92	22	21:40	BE	SET		49°49.509	124°58.210	131		-			□□	
154	93	↓	22:40				49°51.946	125°02.657	102		-			□□	
155	94	↓	23:38		✓		49°54.584	125°04.940	131		-			□□	
156	↓	23	00:28		CTD		49°56.724	125°02.040	229	210	-		YU	□□	
157	↓		00:39		NET		49°56.758	125°02.005	220	210	-		YU	□□	END OF DAY
158	95		14:14		SET		50°02.643	125°07.332	257		-			□□	
159			15:05		CTD		50°00.229	125°05.885	260	250	-			□□	
160	↓		15:15		NET		50°00.214	125°05.924	260	250	-			□□	
161	96		15:53		SET		50°00.398	125°04.740	250		-			□□	
162	97		16:58		SET		49°58.902	125°00.517	142		-			□□	
163	↓		17:52		CTD		49°57.146	124°56.836	149	140	-			□□	
164	↓		17:59		NET		49°57.163	124°56.863	147	135	-			□□	
165	98		18:28		SET		49°56.147	124°55.263	184		-			□□	
166	99		20:05				49°50.897	124°46.281	140		-			□□	
167	100		21:07				49°53.786	124°41.227	139		-			□□	
168	101		22:28				49°57.922	124°46.406	118		-			□□	
169	102	↓	23:45		✓		50°02.246	124°53.652	337		-			□□	
170	103	24	00:40		↓		50°04.269	124°50.610	500		-			□□	
171	↓	↓	01:22	↓	CTD		50°05.866	124°49.412	301	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

Notes:

Time Code:

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

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

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 20 April 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 10 of 11

Month <u>September</u>				Year <u>2017</u>			Vessel <u>SEA CREST</u>				Cruise ID <u>2017-53</u> <u>SOG 2017-06</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
172	103	24	01:35	BE	NET		50°05.866	124°49.426	301	250	-			☐ ☐	END OF DAY
173	104		14:10		SET		50°06.161	124°51.008	144		-			☐ ☐	
174	105		15:02		CTD		50°06.454	124°47.571	490		-			☐ ☐	
175	106		15:57		✓		50°07.957	124°45.701	450		-			☐ ☐	
176	105		16:38		CTD		50°09.889	124°44.149	412	250	-			☐ ☐	
177	✓		16:54		NET		50°09.848	124°44.206	416	250	-			☐ ☐	
178	107		17:40		SET		50°12.862	124°46.875	247		-			☐ ☐	
179	108		19:25		✓		50°20.412	124°45.260	497		-			☐ ☐	
180	1		20:23		CTD		50°21.865	124°42.644	500	250	-			☐ ☐	
181	✓		20:45		NET		50°21.914	124°42.556	500	250	-			☐ ☐	END OF DAY
182	109		22:20		SET		50°19.107	124°54.128	460		-			☐ ☐	
183	110	✓	23:16		✓		50°19.952	125°00.289	293		-			☐ ☐	
184	111	25	00:12		✓		50°17.776	125°02.834	347		-			☐ ☐	
185	1		00:58		CTD		50°16.060	125°01.399	472	250	-			☐ ☐	
186	✓		01:12		NET		50°16.129	125°01.487	463	250	-			☐ ☐	END OF DAY
187	112		14:20		SET		50°18.212	124°56.551	509		-			☐ ☐	
188	113		16:55		✓		50°18.569	125°16.763	123		-			☐ ☐	
189	114		17:40		✓		50°18.128	125°19.468	86		-			☐ ☐	
190	✓	✓	18:10	✓	CTD		50°18.430	125°17.658	120	110	-			☐ ☐	

Event Type:

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

LOOP = Sea Water Loop

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

Bottle Firing Method:

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

Notes:

Time Code:

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

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

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 20 April 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 11 of 11

Month <u>September</u>			Year <u>2017</u>			Vessel <u>Sea Crest</u>				Cruise ID <u>2017-53</u> <u>SOG 2017-06</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
191	114	25	18:24	BE	NET		50°18.497	125°17.776	118	105	-			☐ ☐	
192	115		20:08		SET		50°22.650	125°21.226	216		-			☐ ☐	
193	116		22:25		SET		50°11.095	125°20.210	50		-			☐ ☐	
194			23:01		CTD		50°11.492	125°20.842	76	65	-			☐ ☐	
195	↓	↓	23:14		NET		50°11.482	125°20.826	76	65	-			☐ ☐	End of Day
196	117	26	13:49		CTD		49°17.794	124°03.661	207	190	-			☐ ☐	
197	↓	↓	14:02	↓	NET		49°17.840	124°03.712	212	190	-			☐ ☐	End of Day
<u>END OF SURVEY</u>							°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

Event Type:
 BOT = Bottle cast (no CTD)
 CTD = Standalone CTD
 ROS = CTD In Rosette
 SET = Fish Set
 LOOP = Sea Water Loop
 MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter
 =

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

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

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

Notes:

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 20 April 2016