DAILY SCIENCE LOG BOOK

MISSION NUMBER 2017-93 C30

DATE:

From: To:

VESSEL: CCGS Sir Wilfrid Laurier

PROJECT(S): Canada's Three Oceans

Victoria → Barrow

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: Dell PC Optiplex "SZ-3"

Data acquisition program: Seasave 7.26.6.26

2017-0941_SWL_v2017-06-28

Date: 06/28/2017

Instrument configuration file: F:\Sorted\2017-93 SWL setup\Arctic Drive v2017-06-27\Group - All con files\SWL_2017\2017-93\2017-0941_SWL_v2017-06-28.xmlcon

Configuration report for SBE 911plus/917plus CTD

Frequency channels suppressed	: 0
Voltage words suppressed	: 0
Computer interface	: RS-232C
Deck unit	: SBE11plus Firmware Version >= 5.0
Scans to average	: 1
NMEA position data added	: No
NMEA depth data added	: No
NMEA time added	: No
Surface PAR voltage added	: Yes
Scan time added	: No

1) Frequency 0, Temperature

Serial number	: 5048
Calibrated on	: 3-Mar-17
G	: 4.33959201e-003
H	: 6.38172565e-004
I	: 2.14017823e-005
J	: 1.90767934e-006
F0	: 1000.000
Slope	: 1.00000000
Offset	: 0.0000

2) Frequency 1, Conductivity

Serial number	: 3579
Calibrated on	: 29-Dec-16
G	: -9.41216156e+000
H	: 1.16781547e+000
I	: -1.61059823e-003
J	: 1.64680583e-004
CTcor	: 3.2500e-006
CPcor	: -9.57000000e-008
Slope	: 1.00000000
Offset	: 0.00000

3) Frequency 2, Pressure, Digiquartz with TC

Serial number	: 131733
Calibrated on	: 06-Apr-2015

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month July **Year** 2017 **Vessel** Sirdc **Cruise ID** 2017-93

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	
1	Victoria	4	01:10	BE	ROS		48° 22.831	122° 25.558	75		-			☐☐	Test Cast
2	UCTD-1	4	21:00	BE	UCTD		° .	° .			-			☐☐	
3	NP-1	5	01:06	BE	ROS	US	49° 31.416	128° 14.998	>1000	1010	1 - 17	17	SV, NN	☑☐	File 003 Scan Rate 0.2Hz ~9000
3	NP-1	5	01:23	BO	ROS		49° 31.420	128° 14.992		1000	-			☐☐	
3	NP-1	5	01:59	EN	ROS		49° 31.427	128° 15.004			-			☐☐	
4	NP-1	5	02:10	BE	Bongo		° .	° .			-			☐☐	
5	NP-1	5	02:45		Argo		° .	° .			-			☐☐	SN 442
6	UCTD-2	5	04:00	BE	UCTD		49° 59.66	129° 48.71			-			☐☐	
7	NP-2	5	05:08	BE	ROS		50° 25.980	131° 21.228	1227	1000	18 - 41	24	SV, NN	☑☐	Rate 0.2 File 004 9700 Scan
7	NP-2	5	05:29	BO			50° 26.021	131° 21.205			-			☐☐	
7	NP-2	5	16:04	EN			50° 26.053	131° 20.996			-			☐☐	
8	NP-2	5	16:15		Bongo		° .	° .			-			☐☐	
9	UCTD-3	5	21:00		UCTD		50° 43.731	132° 27.721		400	-			☐☐	
10	NP-3	6	00:36	BE	ROS		50° 57.907	130° 25.895	>2000	1000	42 - 58	17	NN, SV	☑☐	Rate 0.2 Scan 9000
10	NP-3	6	00:55	BO	ROS		50° 57.849	130° 25.938			-			☐☐	
10	NP-3	6	01:26	EN	ROS		50° 57.761	130° 26.051			-			☐☐	
11	NP-3	6	01:30	BE	Bongo		° .	° .			-			☐☐	

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SET = Fish Set

LOOP = Sea Water Loop
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NET = Plankton Net Haul
DRF = Drifter
____ = _____

Bottle Firing Method:
US = Up / Stop (default)
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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: 14 February 2013

This page is for any notes or observations

Problems with spigot on bottle 16. Would not stay open.
After Event 8 replaced all 3 gaskets (O-rings) on spigot

Bottle 7 seems to have problems sealing the bottom lid when closing

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month Jul **Year** 2017 **Vessel** SWC **Cruise ID** 2017-90

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
12	UCTD-4	6	09:04		UCTD		51 ° 30.1	135 ° 23.8	>2000	400	-			☐☐	
13	NP-4	6	15:08	BE	ROS	US	51 ° 48.641	137 ° 8.165	>2000	1000	59-82	24	NN,SV	☑☐	P:-0.1 Sea 16000
13	NP-4	6	15:21	BO	ROS		51 ° 48.694	137 ° 8.208			-			☐☐	
13	NP-4	6	16:02	EN	ROS		51 ° 48.826	137 ° 8.304			-			☐☐	
14	NP-4	6	16:15	BE	BONG		51 ° 48.826	137 ° 8.304		100	-			☐☐	
15	UCTD-5	6	21:00	BE	UCTD		52 ° 06.00	138 ° 25.43		400	-			☐☐	
16	NP-5	7	00:35	BE	ROS	US	52 ° 17.612	139 ° 27.176	>2000	1000	83-99	17	NN,SV	☑☐	P:-0.1 Sea 10700
16	NP-5	7	00:52	BO	ROS		52 ° 17.635	139 ° 27.157			-			☐☐	
16	NP-5	7	01:23	EN	ROS		52 ° 17.622	139 ° 27.185			-			☐☐	
17	NP-5	7	01:30	BE	BONG		° .	° .		100	-			☐☐	
18	NP-5	7	02:00	BE	ARGO		52 ° 17.39	139 ° 27.60			-			☐☐	SN 464
19	UCTD-6	7	09:00	BE	UCTD		52 ° 37.8	141 ° 31.90		385	-			☐☐	
20	NP-6	7	15:05	BE	ROS	US	52 ° 55.189	143 ° 20.702	>2000	1000	100-123	24	NN, SV	☑☐	P:-0.2 Sea 6300
20	NP-6	7	15:25	BO	ROS		52 ° 55.150	143 ° 20.729			-			☐☐	
20	NP-6	7	16:01	EN	ROS		52 ° 55.123	143 ° 20.846			-			☐☐	
21	NP-6	7	16:10	BE	BONG		52 ° 55.123	143 ° 20.846			-			☐☐	
22	UCTD-7	7	21:00	BE	UCTD		53 ° 06.6	144 ° 43.9		385	-			☐☐	
23	NP-7		:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	

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Ended on both labs. CTO check unit would not power up this morning. Wiggled power cord at the back and it came back to life. Flaky?

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Ocean Sciences Division, Institute of Ocean Sciences

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23	NP-7	8	00:32	BE	ROS	US	53° 15.143	145° 49.901	>2000	1000	124 - 141	18	NN, JV	☑ ☐	P:0.1 Scan 9100
23	NP-7	8	00:50	BO			53° 15.145	145° 49.886			-			☐ ☐	
23	NP-7	8	01:18	EN			53° 15.173	145° 49.886			-			☐ ☐	
24	NP-7	8	01:25	BE	Bongo		° .	° .		100	-			☐ ☐	
25	NP-7	8	01:45		Argo		° .	° .			-			☐ ☐	SN 444
26	NP-8	8	15:04	BE	ROS	US	53° 42.010	150° 3.632	>3000	1000	142 - 165	24	NN, JV	☒ ☐	P:0.2 Scan 14400
26	NP-8	8	15:22	BO	ROS		53° 42.041	150° 3.608			-			☐ ☐	
26	NP-8	8	15:57	EN	ROS		53° 42.145	150° 3.379			-			☐ ☐	
27	NP-8	8	16:00	BE	Bongo		° .	° .			-			☐ ☐	
28	NP-8	8	16:29		Argo		53° 42.2	150° 03.9			-			☐ ☐	SN 440
29	UCTD-8	8	09:00		UCTD		53° 30.2	148° 26.02	>3000	385	-			☐ ☐	
30	UCTD-9	8	21:00		UCTD		53° 48.73	151° 30.72	>3000	385	-			☐ ☐	
31	NP-9	9	00:33	BE	ROS	US	53° 53.714	152° 39.457	>3000	1000	166 - 183	18	NN, JV	☑ ☐	P:0.2 Cast 9500
31	NP-9	9	00:52	BO	ROS		53° 53.714	152° 39.464			-			☐ ☐	
31	NP-9	9	01:20	EN	ROS		53° 53.716	152° 39.478			-			☐ ☐	
32	NP-9	9	01:25	BE	BONGO		° .	° .			-			☐ ☐	
33	UCTD-10		:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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34	NP-10	9	15:08	BE	ROS	US	54° 5.044	156° 28.319	>7000	1000	184 - 207	24	NM, SV	☑ ☐	Pz-0.1
34	NP-10	9	15:26	BO	ROS		54° 5.077	156° 28.459	>7000		-			☐ ☐	
34	NP-10	9	16:03	EN	ROS		54° 5.164	156° 28.722	>7000		-			☐ ☐	
35	NP-10	9	16:10	BE	BONGO		° .	° .			-			☐ ☐	
36	UCTD-11	9	21:05	DE	UCTD		54° 07.13	158° 3.39			-			☐ ☐	
37	NP-11	10	00:33	BE	ROS	US	54° 7.873	159° 4.220	>3000	1000	208 - 225	18	NM, SV	☑ ☐	Pz-0.1 Conf 9700
37	NP-11		00:51	BO	ROS		54° 7.902	159° 4.571			-			☐ ☐	
37	NP-11		01:10	EN	ROS		54° 7.99.	159° 5.100			-			☐ ☐	
38	NP-11	10	01:25	BE	BONGO		° .	° .			-			☐ ☐	
39	UCTD-12	10	09:00	DE	UCTD		54° 08.4	161° 18.9	7200	305	-			☐ ☐	
—			:				° .	° .			-			☐ ☐	
40	SLIP-1	14	14:15	BE	ROS	US	62° 0.535	175° 3.553	76	75	226 - 237	12		☑ ☐	Pz-0.1 Conf 8600
40	SLIP-1	14	14:20	BO	ROS	US	62° 0.545	175° 3.523			-			☐ ☐	
40	SLIP-1	14	14:29	EN	ROS	US	62° 0.550	175° 3.476			-			☐ ☐	
41	SLIP-1		14:12		ADCP		° .	° .			-			☐ ☐	
42	SLIP-1		14:35		BONGO		° .	° .			-			☐ ☐	
43	SLIP-1		:		CAMERA		° .	° .			-			☐ ☐	
44	SLIP-1		:		MOOR'S		° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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WaterProperties.ca
Version: 14 February 2013

DAILY SCIENCE LOG

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Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
45	SLIP-2	14	16:49	BE	ROS	US	62° 2.976	175° 12.459	83 76	78	238 - 252			☑ ☐	P2 -0.2 11100 C-C
			16:53	BO	ROS		62° 2.976	175° 12.459			-			☐ ☐	
	SLIP-2		:	EN	ROS		62° 2.976	175° 12.459			-			☐ ☐	
46	SLIP-2		:		ADCP		° .	° .			-			☐ ☐	
47	SLIP2		:		BONGO		° .	° .			-			☐ ☐	
48	SLIP-2		:		CAMERA		° .	° .			-			☐ ☐	
49	SLIP-2		:		MUOS		° .	° .			-			☐ ☐	
50	SLIP2B	14	19:45	BE	CTD	—	62° 13.2	174° 52.565	77 70	72	-		SV	☑ ☐	C-C 15000
50	SLIP-2B	14	19:48	BO	CTD	—	62° 13.2	174° 52.560			-			☐ ☐	
50	SLIP-2B	14	19:50	EN	CTD	—	62° 13.199	174° 52.555			-			☐ ☐	
51	SLIP-3	14	21:30	BE	ROS	US	62° 23.483	174° 34.174	73 68	68	253 - 264	12		☑ ☐	C-C 13000
51	SLIP-3	14	21:34	BO	ROS	US	62° 23.430	174° 34.176			-			☐ ☐	
51	SLIP-3	14	21:45	EN	ROS	US	62° 23.485	174° 34.171			-			☐ ☐	
52	SLIP-3	14	:	BE	ADCP		° .	° .			-			☐ ☐	
53	SLIP-3	14	:		BONGO		° .	° .			-			☐ ☐	
54	SLIP-3	14	:		CAMERA		° .	° .			-			☐ ☐	
55	SLIP-3	14	:		C-CTD		° .	° .			-			☐ ☐	
56	SLIP-3	14	:		MUOS		° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month July **Year** **Vessel** **Cruise ID**

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
57	SLIP-3B	15	00:44	BE	CTD	—	62° 28.061	174° 4.924	70 62	64	—	0		☑ ☐	
57	SLIP-3B	15	00:48	BO	CTD		62° 28.062	174° 4.933			-			☐ ☐	
57	SLIP-3B	15	00:51	EN	CTD		62° 28.060	174° 4.945			-			☐ ☐	
58	SLIP-5	15	02:38	BE	ROS	US	62° 33.593	173° 32.842	68 59	61	265-276	12		☑ ☐	P_2 = 0.1 Count =
58	SLIP-5	15	02:42	BO			° .	° .			-			☐ ☐	
58	SLIP-5	15	02:50	EN			62° 33.593	173° 32.850			-			☐ ☐	
59	SLIP-5	15	:		ADCP		° .	° .			-			☐ ☐	
60	SLIP-5	15	:		BONGO		° .	° .			-			☐ ☐	
61	SLIP-5	15	:		CAMERA		° .	° .			-			☐ ☐	
62	SLIP-5	15	:		MOCNESS		° .	° .			-			☐ ☐	
63	SLIP-5B	15	05:31	BE	CTD	—	62° 47.244	173° 29.802	70 69	65	—	0	SV	☐ ☐	Count = 9700
63	SLIP-5B	15	05:35	BO	CTD	—	° .246	° .804		65	-			☐ ☐	
63	SLIP-5B	15	05:37	EN	CTD	—	° .248	° .801			-			☐ ☐	
64	SLIP-4	15	07:19	BE	ROS	US	63° 1.826	173° 27.478	73 "		277-295	19		☑ ☐	Count = 14000
64	SLIP-4	15	07:23	BO	ROS	US	° .828	° .791		68	-			☐ ☐	
64	SLIP-4	15	07:38	EN	ROS	US	° .842	° .503			-			☐ ☐	
65	SLIP-4	15	:		ADCP		° .	° .			-			☐ ☐	
66	SLIP-4		:		BONGO		° .	° .			-			☐ ☐	
67	SLIP-4		:		CAMERA		° .	° .			-			☐ ☐	

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This page is for any notes or observations

05331 15/7 2.2 km [illegible] current

SLIP-4 Roselle covered in jelly fish

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Ocean Sciences Division, Institute of Ocean Sciences

Month 3 0 1 7 **Year** 2 0 1 7 **Vessel** SWL **Cruise ID** 2017-93

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							° .	° .			-			☐☐	
68	SLIP-4	15	:		MOOR										
69	SLIP-4B	15	10:51	BE	CTD	—	63° 16.810	173° 4.712	71		—	0	SV	☑☐	P: 0.0
69	SLIP-4B	15	10:55	BO	CTD	—	° .819	° 4.702		65	-			☐☐	
69	SLIP-4B	15	10:57	EN	CTD	—	° .829	° .750			-			☐☐	
70	SLIP-4C	15	13:25	BE	CTD	/	63° 36.218	172° 35.324	55		-		N2	☑☐	
			13:27	BO		/	°36.212	°35.315		50	/	0		☐☐	
			13:28	EN		/	°36.212	°35.311			-			☐☐	
71	BCL-6A	15	15:52	BE	ROS	US	63° 55.166	172° 5.867	54		296-305	10	N2	☑☑	
			15:56	BO			°55.174	°5.854		49	-			☐☐	
			16:03	EN			°55.182	°5.883			-			☐☐	
72	BCL-6B	15	18:57	BE	CTD	—	64° 17.490	171° 29.900	48 41	43	-		SV	☑☐	Count: 5500
			19:01	BO		—	° .494	° .902			-			☐☐	
			19:02	EN		—	° .495	° .906			-			☐☐	
73	BCL-6C	15	22:15	BE	ROS	US	64° 40.315	170° 38.555	48 41		306-315	10	SV	☑☐	Count 7400
			22:19	BO			° .321	° .561		43	-			☐☐	
			22:25	EN			° .320	° .561			-			☐☐	
74	BCL-6C	15	:		ADCP		° .	° .			-			☐☐	
75	BCL-6C	15	:		Bongo		° .	° .			-			☐☐	
76	BCL-6C	15	:		Camera		° .	° .			-			☐☐	

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

Event Type:
BOT = Bottle cast (no CTD)
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NET = Plankton Net Haul
DRF = Drifter
___ = _____

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

Time Code:
BE = Beginning Time of Cast
BO = Bottom Time of Cast
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RE = Recover Mooring Time

Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 14 February 2013

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month July **Year** 2017 **Vessel** CWL **Cruise ID** 2017-93

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
77	BCL-6c	15	:		C-OPS		64° 40.320	170° 38.561	48		-			☐☐	
78	BCL-6c	15	:		MUDSS		° .	° .			-			☐☐	
79	DB02.0A	16	00:14	BE	CTD	/	64° 40.178	170° 15.854	50		—	0		☑☐	Proof Cast 12800
79	DB02.0A	16	00:49	BO	CTD	/	° .180	° .858		44	-			☐☐	
79	DB02.0A	16	00:50	EN	CTD	/	° .182	° .859			-			☐☐	
80	UTBS-5	16	01:56	BE	ROS	US	64° 40.199	169° 54.826	47		316-325	10		☑☐	Cond = 8800
		16	02:00	BO			° .199	° .816		43	-			☐☐	
		16	02:09	EN			° .199	° .820			-			☐☐	
81	UTBS-5	16	:		ADCP		° .	° .			-			☐☐	
82	UTBS-5	16	:		Bongo		° .	° .			-			☐☐	
83	UTBS-5	16	:		Camera		° .	° .			-			☐☐	
84	UTBS-5	16	:		Multis		° .	° .			-			☐☐	
85	DB02.1A	16	04:18	BE	CTD	—	64° 40.435	169° 28.309	45	39	—	0	SV	☑☐	Cond = 9400
		16	04:21	BO			° .433	° .319		39	-			☐☐	
		16	04:23	EN			° .434	° .321			-			☐☐	
86	UTBS-2	16	05:29	BE	ROS	US	64° 40.859	169° 5.818	46	41	326-335	10	SVR	☑☐	Cond = 10100
			05:33	BO			° .860	° .821		41	-			☐☐	
			05:40	EN			° .862	° .818			-			☐☐	
87	UTBS-2		:		ADCP		° .	° .			-			☐☐	

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month July **Year** 2017 **Vessel** SWL **Cruise ID** 2017-93

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
88	UTBS-2	16	:		BONGO		° .	° .			-			☐☐	
89	UTBS-2	16	:		CAMERA		° .	° .			-			☐☐	
90	UTBS-2	16	:		MUDX5		° .	° .			-			☐☐	
91	DB02.2A	16	07:56	BE	CTD	—	64° 40.564	168° 35.897	44		—	—	SV	☑☐	Cast 14/00
		16	07:59	BO			° .573	° .704		38	-			☐☐	
		16	08:01	EN			° .585	° .917			-			☐☐	
92	UTBS-2A	16	09:12	BE	ROS	US	64° 40.246	168° 14.170	38		336-343	8	SV	☑☐	Cast 12400
		16	09:15	BO			° .247	° .177		33	-			☐☐	
			09:21	EN			° .249	° .173			-			☐☐	
93	UTBS-2A	16	:		ADCP		° .	168° .			-			☐☐	
94	UTBS-2A	16	:		BONGO		° .	° .			-			☐☐	
95	UTBS-2A	16	:		Camera		° .	° .			-			☐☐	
96	UTBS-2A	16	:		MudX5		° .	° .			-			☐☐	
97	DB02.7	16	12:19	BE	ROS	US	65° 0.043	168° 13.350	45		344-353	10	N2	☑☐	
			12:22	BO			° 0.046	° 13.337		40	-			☐☐	
			12:29	EN			° 0.052	° 13.349			-			☐☐	
98	DB02.7	16	:		ADCP		° .	° .			-			☐☐	
99	DB02.7	16	:		BONGO N2		° .	° .			-			☐☐	
100	DB02.7	16	:		CAMERA		° .	° .			-			☐☐	

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Notes: _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month JULY **Year** 2017 **Vessel** SWL **Cruise ID** 2017-93

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
101	DB02.7	16	:		MUDX5		° .	° .			-			☐☐	
102	DB02.6	16	14:49	BE	CTD	/	65° 0.036	168° 39.362	45		- /	0	N²	☑☐	scan count 5500
			14:54	BO		/	° 0.044	° 39.359		42	-			☐☐	
			14:55	EN		/	° 0.042	° 39.370			/ -			☐☐	
103	UTBS-1	16	16:21	BC	ROS		64° 59.417	169° 8.369	48 41		354-371	18	N2, SV	☑☐	Counts 9500
			16:25	BO			° .420	° .376		43	-			☐☐	
			16:42	EN			° .418	° .378			-			☐☐	
104	UTBS-1	16	:		AWP		° .	° .			-			☐☐	
105	UTBS-1	16	:		CAMERA		° .	° .			-			☐☐	
106	UTBS-1	16	:		Bongo		° .	° .			-			☐☐	
107	UTBS-1	16	:		MUOXS		° .	° .			-			☐☐	
108	DB02.4A	16	18:33	BE	CTD	/	64° 58.542	169° 29.221	49 42		/	/	SV	☑☐	Count 13000
109	"	16	18:36	BO			° .542	° .224		43	-			☐☐	
108	"	16	18:38	EN			° .543	° .230			-			☐☐	
109	UTBS-4	16	19:52	BE	ROS	US	64° 57.682	169° 53.472	48 42		372-381	10	N2, SV	☑☐	Counts
		16	19:56	BO			° .684	° .476		43	-			☐☐	
		16	20:03	EN			° .677	° .483			-			☐☐	
110	UTBS-4		:		AOCP		° .	° .			-			☐☐	
111	UTBS-4		:		CAMERA		° .	° .			-			☐☐	

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Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 14 February 2013

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month JULY **Year** 2017 **Vessel** SWC **Cruise ID** 2017-93

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
112	UTBS-4	16	:		BONGO		° .	° .			-			☐☐	
113	UTBS-4	16	:		MOCS		° .	° .			-			☐☐	
114	UTBS-4	16	:		C-OPS		° .	° .			-			☐☐	
115	BRS-2	17	02:28	BE	ROS	US	65° 40.100	168° 23.807	52 m	46	382-391	10	N2, SV	☑☐	Cast #
	BRS-2	17	02:30	BO			° .112	° .852		47	-			☐☐	
	BRS-2	17	02:35	EN			° .153	° .861			-			☐☐	
116	BRS-2	17	02:40		Bongo		° .	° .			-			☐☐	
117	BRS-3	17	03:32	BE	ROS	US	65° 40.940	168° 33.646	53 m	46	392-401	10	N2, AM, SV	☑☐	Count 11800
117	"	17	03:36	BO			° .993	° .624		48	-			☐☐	
117	"	17	03:42	EN			° 41.134	° 33.668			-			☐☐	
118	BRS-3	17	03:50		Bongo		° .	° .			-			☐☐	
119	BRS-4	17	04:35	BE	ROS	US	65° 42.095	168° 43.182	52 m		402-411	10	N2, SV	☑☐	Count 10900
	"	17	04:39	BO			° .143	° 43.212		47	-			☐☐	
	"	17	04:45	EN			° .223	° .234			-			☐☐	
120	BRS-4	17	04:50		Bongo		° .	° .			-			☐☐	
121	UTN-1	17	12:07	BE	ROS	US	66° 42.626	168° 23.959	35 m		412-419	8	N2, AM, SV	☑☐	Prob 0.1 Count = 10200
			12:10	BO			° .630	° .952			-			☐☐	
			12:15	EN			° .625	° .953			-			☐☐	
122	UTN-1	17	12:05		ADCP		° .	° .			-			☐☐	

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Notes: _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month July **Year** 2017 **Vessel** SWL **Cruise ID** 2017-93

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
123	UTN-1	17	12 :20		CAMERA		° .	° .			-			☐☐	
124	UTN-1	17	:		BONGO		° .	° .			-			☐☐	
125	UTN-1	17	:		MUDX5		° .	° .			-			☐☐	
126	UTN-2	17	15 :40	BE	ROS	US	67 ° 3 . 034	168 ° 43 . 717	46 39	42	420 - 429	10	N2, AM, SV	☑☐	Cast 11000
			15 :44	BO			° . 034	° . 709			-			☐☐	
			15 :51	EN			° . 041	° . 744			-			☐☐	
127	UTN-2	17	:		ADCP		° .	° .			-			☐☐	
128	UTN-2	17	:		CAMERA		° .	° .			-			☐☐	
129	UTN-2	17	:		BONGO		° .	° .			-			☐☐	
130	UTN-2	17	:		MUDX5		° .	° .			-			☐☐	
131	UTN-3	17	18 :53	BE	ROS	US	67 ° 19 . 874	168 ° 54 . 388	49 42		430 - 439	10	N2, SV	☑☐	Cast 8700
		17	18 :58	BO			° . 874	° . 396		44	-			☐☐	
		17	19 :04	EN			° . 868	° . 400			-			☐☐	
132	UTN-3	17	:		ADCP		° .	° .			-			☐☐	
133	UTN-3		:		CAMERA		° .	° .			-			☐☐	
134	UTN-3		:		BONGO		° .	° .			-			☐☐	
135	UTN-3		:		MUDX5		° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	

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Notes: _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month July **Year** 2017 **Vessel** SWL **Cruise ID** 2017-93

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
136	UTN-4	17	21:15	BE	ROS	US	67° 30.007	168° 54.486	51 TM		440 - 457	18	JV	☑ ☐	Cast-9001
			21:19	BO			° .014	° .505		45	-			☐ ☐	
			21:33	EN			° .013	° .482			-			☐ ☐	
137	UTN-4	17	21:40		ADCP		° .	° .			-			☐ ☐	
138	UTN-4	17	:		CAMERA		° .	° .			-			☐ ☐	
139	UTN-4	17	:		C-OPS		° .	° .			-			☐ ☐	
140	UTN-4	17	:		B-NGO		° .	° .			-			☐ ☐	
141	UTN-4	17	:		MOOS		° .	° .			-			☐ ☐	
142	SEC-8	18	12:06	BE	ROS	US	68° 17.851	166° 56.582	35 TM		458 - 465	8	JV	☑ ☐	Cast = 12500
		18	12:10	BO			° .852	° .584		30	-			☐ ☐	
		18	12:16	EN			° .856	° .567			-			☐ ☐	
143	SEC-8	18	:		ADCP		° .	° .			-			☐ ☐	
144	SEC-8	18	:		CAMERA		° .	° .			-			☐ ☐	
145	SEC-8	18	:		BONGO		° .	° .			-			☐ ☐	
146	SEC-8	18	:		17-042		° .	° .			-			☐ ☐	
147	SEC-7	18	13:43	BE	ROS	US	68° 14.545	167° 7.331	43 TM	38	446 - 475	10		☑ ☐	Cast = 450
		18	13:48	BO			° .544	° .340		35	-			☐ ☐	
		18	13:55	EN			° .543	° .346			-			☐ ☐	
148	SEC-7	18	:		ADCP		° .	° .			-			☐ ☐	

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Notes: _____

This page is for any notes or observations

Power lost to deck unit again in middle of exp. Restarted and recited. However, might have forg. Hit to turn on pumps until into ice exp. Play should be replaced.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month July **Year** 2017 **Vessel** SWL **Cruise ID** 2017-93

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
149	SEC-7	13	:		CAMERA		° .	° .			-			☐☐	
150	SEC-7	18	:		BONGO		° .	° .			-			☐☐	
151	SEC-7	18	:		MOD×2		° .	° .			-			☐☐	
152	SEC-6	18	15:18	BE	ROS	US	68° 11.113	167° 18.491	48		476-485	10	NL, AH, SV	☑☐	Cast 7400
152	SEC-6	18	15:22	BO			° .114	° .492		43	-			☐☐	
152	SEC-6	18	15:20	EN			° .112	° .488			-			☐☐	
153	SEC-6	18	:		ADCP		° .	° .			-			☐☐	
154	SEC-6	18	:		CAMERA		° .	° .			-			☐☐	
155	SEC-6	18	:		BONGO		° .	° .			-			☐☐	
156	SEC-6	18	:		MOD×2		° .	° .			-			☐☐	
157	SEC-5	18	16:51	BE	ROS	US	68° 7.699	167° 29.714	50		486-503	18	NL, AH, SV	☑☐	Cast =
	SEC-5	18	16:55	BO			° .696	° .719		45	-			☐☐	
	SEC-5	18	17:09	EN			° .697	° .729			-			☐☐	
158	SEC-5		:		ADCP		° .	° .			-			☐☐	
159	SEC-5		:		CAMERA		° .	° .			-			☐☐	
160	SEC-5		:		BONGO		° .	° .			-			☐☐	
161	SEC-5		:		MOD×2		° .	° .			-			☐☐	
XBT			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month July **Year** 2017 **Vessel** SWL **Cruise ID** 2017-93

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
162	SEC-4	18	18:56	BE	ROS	US	68° 0.794	167° 52.014	53 m		504-514	11	NR, AM SW	☑ ☐	Counts 9000
162	SEC-4		19:00	BO			° .792	° .015			-			☐ ☐	
162	SEC-4		19:10	EN			° .781	° .027			-			☐ ☐	
163	SEC-4	18	18:52		ADCP		° .	° .			-			☐ ☐	
164	SEC-4	18	:		CAMERA		° .	° .			-			☐ ☐	
165	SEC-4	18	:		C-OPS		° .	° .			-			☐ ☐	
166	SEC-4	18	:		BONGO		° .	° .			-			☐ ☐	
167	SEC-4	18	:		MUDS		° .	° .			-			☐ ☐	
168	SEC-3	18	21:45	BE	ROS	US	67° 53.872	168° 13.813	59 m		515-525	11	NR, AM SW	☑ ☐	Counts
168	SEC-3	18	21:51	BO			° .870	° .784		55	-			☐ ☐	
168	SEC-3	18	21:57	EN			° .867	° .812			-			☐ ☐	
169	SEC-3	18	21:44		ADCP		° .	° .			-			☐ ☐	
170	SEC-3	18	22:00		CAMERA		° .	° .			-			☐ ☐	
171	SEC-3	18	:		C-OPS		° .	° .			-			☐ ☐	
172	SEC-3	18	:		BONGO		° .	° .			-			☐ ☐	
173	SEC-3	18	:		MUDS		° .	° .			-			☐ ☐	
174	UTN-6	19	00:21	BE	ROS	US	67° 44.417	168° 26.011	50 m	44	526-535	10		☑ ☐	Counts 9000
174	UTN-6		00:25	BO			° .417	° .011			-			☐ ☐	
174	UTN-6		00:32	EN			° .423	° 25.997			-			☐ ☐	

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

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

Time Code:
BE = Beginning Time of Cast
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Notes: _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month | **Year** | **Vessel** | **Cruise ID**

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
175	UTN-6	19	:		ADCP		° .	° .			-			☐☐	
176	UTN-6	19	:		CAMERA		° .	° .			-			☐☐	
177	UTN-6	19	:		BONGO		° .	° .			-			☐☐	
178	UTN-6	19	:		MUONS		° .	° .			-			☐☐	
179	SEC-2	19	02:12	BE	ROS	US	67° 46.962	168° 35.959	50 44		536 - 545	10	N2, Ar SV	☑☐	Cast 12000
179	SEC-2	19	02:17	BO			° .961	° .957		46	-			☐☐	
179	SEC-2	19	02:23	EN			° .962	° .963			-			☐☐	
180	SEC-2	19	:		ADCP		° .	° .			-			☐☐	
181	SEC-2	19	:		CAMERA		° .	° .			-			☐☐	
182	SEC-2	19	:		BONGO		° .	° .			-			☐☐	
183	SEC-2	19	:		MUONS		° .	° .			-			☐☐	
184	SEC-1	19	04:31	BE	ROS	US	67° 40.511	168° 55.379	50		546 - 555	10	N2, Ar SV	☑☐	Cast 12000
			04:34	BO			° .511	° .381		46	-			☐☐	
			04:42	EN			° .513	° 55.382			-			☐☐	
185	SEC-1		:		ADCP		° .	° .			-			☐☐	
186	SEC-1		:		CAMERA		° .	° .			-			☐☐	
187	SEC-1		:		BONGO		° .	° .			-			☐☐	
188	SEC-1		:		MUONS		° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	

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Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 14 February 2013

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month JULY **Year** 2017 **Vessel** SWL **Cruise ID** 2017-93

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
189	UTN-7	19	07:41	BE	ROS	US	67° 59.994	168° 55.741	57		556 - 567	12		☑ ☐	Casts:
			07:44	BO			° .	° .		53	-			☐ ☐	
			07:52	EN			67° 59.994	168° 55.703			-			☐ ☐	
190	UTN-7	19	:		ADCP		° .	° .			-			☐ ☐	
191	UTN-7	19	:		CAMERA		° .	° .			-			☐ ☐	
192	UTN-7	19	:		BONGO		° .	° .			-			☐ ☐	
193	UTN-7	19	:		MUDSS		° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
194	DB04.6	20	16:08	BE	ROS	US	71° 37.048	163° 46.265	42		568 - 577	10		☑ ☐	Casts 8500
			16:11	BO			° .049	° .262			-			☐ ☐	
			16:19	EN			° .044	° .302			-			☐ ☐	
195	DB04.6	20	:		ADCP		° .	° .			-			☐ ☐	
196	DB04.6		:		CAMERA		° .	° .			-			☐ ☐	
197	DB04.6		:		BONGO		° .	° .			-			☐ ☐	
198	DB04.6		:		MUDSS		° .	° .			-			☐ ☐	
199	DB04.5A	20	17:50	DE	CTD	/	71° 33.263	163° 34.369	43		/	/		☑ ☐	Casts 15100
			17:54	BO			° .262	° .359		39	-			☐ ☐	
			17:55	EN			° .260	° .356			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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Notes: _____

Produced by the Water Properties Group, IOS

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Version: 14 February 2013

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month | **Year** | **Vessel** | **Cruise ID**

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
200	DB04.5	20	18:42	BE	ROS	US	71° 29.372	162° 23.243	43 J7		579 - 595	10	N2, AM SV	☑ ☐	Count 12000
			18:45	BO			° .372	° .228		38	-			☐ ☐	
			18:51	EN			° .370	° .245			-			☐ ☐	
201	DB04.5		:		ADCP		° .	° .			-			☐ ☐	
202	DB04.5		:		CAMERA		° .	° .			-			☐ ☐	
203	DB04.5		:		C-OPS		° .	° .			-			☐ ☐	
204	DB04.5		:		BONGO		° .	° .			-			☐ ☐	
205	DB04.5		:		MOCNESS		° .	° .			-			☐ ☐	
206	DB04.4A	20	20:41	BE	CTD	—	71° 25.751	162° 12.610	44 J5		—	—	SV	☑ ☐	Count 24500
206	DB04.4A		20:44	BO			° .752	° .623		38	-			☐ ☐	
206	DB04.4A		20:46	EN			° .751	° .624			-			☐ ☐	
207	DB04.4	20	21:30	BE	ROS	US	71° 21.751	163° 0.283	46 J4		589 - 606	18	N2, AM SV	☑ ☐	Count = 12000
207			21:34	BO			° .745	° .296		41	-			☐ ☐	
			21:50	EN			° .745	° .287			-			☐ ☐	
208	DB04.4		:		ADCP		° .	° .			-			☐ ☐	
209	DB04.4		:		CAMERA		° .	° .			-			☐ ☐	
210	DB04.4		:		C-OPS		° .	° .			-			☐ ☐	
211	DB04.4		:		MOCNESS		° .	° .			-			☐ ☐	
			:		bongo		° .	° .			-			☐ ☐	

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Notes: _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month | **Year** | **Vessel** | **Cruise ID**

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
212	DB04.3A	20	23:33	BE	CTD	—	71 ° 17 . 747	162 ° 48 . 643	47 40		-	—	SV	☑ ☐	Cond = 8300
			23:38	Bo			° .744	° .643		42	-			☐ ☐	
			23:39	EN			° .748	° .644			-			☐ ☐	
213	DB04.3	21	00:29	BE	ROS	US	71 ° 13 . 849	162 ° 38 . 090	47 39		607-616	10	N2, Ar, SV	☑ ☐	Cond = 8300
			00:34	Bo			° .854	° .082		40	-			☐ ☐	
			00:41	EN			° .856	° .053			-			☐ ☐	
214	DB04.3		:		ADCP		° .	° .			-			☐ ☐	
215	DB04.3		:		CAMERA		° .	° .			-			☐ ☐	
216	DB04.3		:		BONGOS		° .	° .			-			☐ ☐	
217	DB04.3		:		MOORS		° .	° .			-			☐ ☐	
218	DB04.2A	21	02:16	BE	CTD	—	71 ° 10 . 265	162 ° 26 . 765	45 33		—	—	SV	☑ ☐	Cond = 8500
			02:19	Bo			° .261	° .755		40	-			☐ ☐	
			02:21	EN			° .264	° .755			-			☐ ☐	
219	DB04.2	21	03:05	BE	ROS	US	71 ° 6 . 256	162 ° 15 . 775	47 40		617-626	10	N2, Ar, SV	☑ ☐	Cond = 9300
			03:08	Bo			° .259	° .776		42	-			☐ ☐	
			03:15	EN			° .262	° .793			-			☐ ☐	
220	DB04.2	21	:		ADCP		° .	° .			-			☐ ☐	
221	DB04.2	21	:		CAMERA		° .	° .			-			☐ ☐	
222	DB04.2	21	:		BONGOS		° .	° .			-			☐ ☐	

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Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 14 February 2013

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month July **Year** 2017 **Vessel** SWC **Cruise ID** 2017-93

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
223	DB04.2		:		MUCS		° .	° .			-			☐☐	
224	DB04.1A	21	04:43	BE	CTD	—	71° 2.423	162° 5.218	46		—	—	SV	☑☐	Casts
			04:46	BO			° .41°	° .215		42	-			☐☐	
			04:48	EN			° .418	° .222			-			☐☐	
225	DB04.1	21	05:34	BE	ROS	US	70° 58.351	161° 54.238	45		627-636	10	N2, Air SV	☑☐	Cast 11300
			05:38	BO			° .340	° .239		40	-			☐☐	
			05:45	EN			° .342	° .234			-			☐☐	
226	DB04.1		:		ADCP		° .	° .			-			☐☐	
227	DB04.1		:		CAMERA		° .	° .			-			☐☐	
228	DB04.1		:		BONGOS 2		° .	° .			-			☐☐	
229	DB04.1		:		MUCS		° .	° .			-			☐☐	
~~230~~	"		:				° .	° .			-			☐☐	
230	B-C-10	21	16:03	BE	ROS	US	71° 37.163	157° 55.513	63	50	637-640	12	N2, Air SV	☑☐	Cast 12600
			16:06	BO			° .165	° .506		50	-			☐☐	
			16:15	EN			° .175	° .524			-			☐☐	
231	B-C-10		:		ADCP		° .	° .			-			☐☐	
232			:		CAMERA		° .	° .			-			☐☐	
233			:		BONGOS		° .	° .			-			☐☐	
234			:		MUC×2		° .	° .			-			☐☐	

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Notes: _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month July **Year** 2017 **Vessel** SWC **Cruise ID** 2017-93

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
235	B-C-9	21	17:55	BE	ROS	US	71° 34.698	157° 50.273	66		649-660	12	N2, AH SV	☑ ☐	Cond = 10000
	B-C-9		17:58	BO			° .6[illegible]	° .273		62	-			☐ ☐	
			18:02	EN			° .604	° .251			-			☐ ☐	
236	B-C-9		:		ADCP		° .	° .			-			☐ ☐	
237	B-C-9		:		CAMERA		° .	° .			-			☐ ☐	
238	B-C-9		:		(2) Boxes		° .	° .			-			☐ ☐	
239	B-C-9		:		MUDx5		° .	° .			-			☐ ☐	
240	B-C-8	21	19:28	BE	ROS	US	71° 32.167	157° 45.397	73 66		661-672	12	N2, AH SV	☑ ☐	Cond = 10000
			19:31	BO			° .166	° .394		67	-			☐ ☐	
			19:39	EN			° .165	° .380			-			☐ ☐	
241	B-C-8	21	:		ADCP		° .	° .			-			☐ ☐	
242	B-C-8	21	:		CAMERA		° .	° .			-			☐ ☐	
243	B-C-8	21	:		Boxes		° .	° .			-			☐ ☐	
244	B-C-8	21	:		MUDx5		° .	° .			-			☐ ☐	
245	B-C-7	21	20:52	BE	ROS	US	71° 29.892	157° 39.551	83 78		673-685	13	N2, AH SV	☑ ☐	Cond = 0
			20:56	BO			° .886	° .545		79	-			☐ ☐	
			21:05	EN			° .886	° .546			-			☐ ☐	
246	B-C-7		:		ADCP		° .	° .			-			☐ ☐	
247	B-C-7		:		CAMERA		° .	° .			-			☐ ☐	

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Notes: _____

This page is for any notes or observations

Br C-0 Interesting unstable water layers

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month	Year	Vessel	Cruise ID

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
248	BarC-7		:		C-OPS		° .	° .			-			☐☐	
249	BarC-7		:		Boxes		° .	° .			-			☐☐	
250	BarC-7		:		Mud x5		° .	° .			-			☐☐	
251	BarC-6	21	22:32	BE	ROS	US	71° 27.334	157° 34.735	111		696 - 699	14	N2, AM SJ	☑☐	C_CS = 11400
			22:38	BO			° .241	° .734		108	-			☐☐	
			22:50	EN			° .343	° .715			-			☐☐	
252	BarC-6		:		ADCP		° .	° .			-			☐☐	
253	BarC-6		:		CAMERA		° .	° .			-			☐☐	
254	BarC-6		:		BONGOS		° .	° .			-			☐☐	
255	BarC-6		:		MUOXS		° .	° .			-			☐☐	
256	BarC-5	22	01:09	BE	ROS	US	71° 24.584	157° 29.280	126		700 - 723	24	N2, AM SJ	☑☐	C_CS = 9800
			01:16	BO			° .586	° .297		122	-			☐☐	
			01:34	EN			° .586	° .297			-			☐☐	
257	BarC-5		:		ADCP		° .	° .			-			☐☐	
258	BarC-5		:		CAMERA		° .	° .			-			☐☐	
259	BarC-5		:		C-OPS		° .	° .			-			☐☐	
260	BarC-5		:		BONGOS		° .	° .			-			☐☐	
261	BarC-5		:		MUO		° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	

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Notes: _____

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WaterProperties.ca
Version: 14 February 2013

This page is for any notes or observations

Noticed ADCP laptop is 5 minutes ahead of CTD clock. Note when processing ADCP data

Box C-6 Hit bottom Stop sampling some sand 116m Actual depth 111m.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month JULY **Year** 2017 **Vessel** SWC **Cruise ID** 2017-90

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
262	Bar C-4	22	03:08	BE	ROS	US	71° 22.378	157° 24.708	114 105		724-739	16	N2, Air SV	☑ ☐	Cond = 28000
			03:13	BO			71° .378	° .708		108	-			☐ ☐	
			03:24	EN			° .372	° .733			-			☐ ☐	
263	Bar C-4	22	:		ADCP		° .	° .			-			☐ ☐	
264	Bar C-4		:		CAMERA		° .	° .			-			☐ ☐	
265	Bar C-4		:		BONGOS		° .	° .			-			☐ ☐	
266	Bar C-4		:		MUDx3		° .	° .			-			☐ ☐	
267	Bar C-3	22	04:48	BE	ROS	US	71° 19.843	157° 19.768	93 80		740-753	14	N2, Air SV	☑ ☐	Cond = 13500
			04:54	BO			° .850	° .781		88	-			☐ ☐	
			05:04	EN			° .853	° .778			-			☐ ☐	
268	Bar C-3		:		ADCP		° .	° .			-			☐ ☐	
269	Bar C-3		:		CAMERA		° .	° .			-			☐ ☐	
270	Bar C-3		:		BONGOS		° .	° .			-			☐ ☐	
271	Bar C-3		:		MUDx3		° .	° .			-			☐ ☐	
272	Bar C-2	22	06:43	BE	ROS	US	71° 17.304	157° 14.796	57 50		754-763	10	N2, Air SV	☑ ☐	Cond 14200
			06:47	BO			° .303	° .794		52	-			☐ ☐	
			06:53	EN			° .303	° .791			-			☐ ☐	
273	Bar C-2	22	:		ADCP		° .	° .			-			☐ ☐	
274	Bar C-2		:		CAMERA		° .	° .			-			☐ ☐	

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: _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month | **Year** | **Vessel** | **Cruise ID**

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
275	Bar C-2	22	:		Bongos		° .	° .			-			☐☐	
276	Bar C-2	22	:		Mod×3		° .	° .			-			☐☐	
277	Bar C-1	22	08:22	BE	ROS	US	71° 14.874	157° 9.732	47 40		764-773	10	N2 AIR SU	☑☐	Cond. 12600
			08:27	BO			° .918	° .619		42	-			☐☐	
			08:34	EN			° .966	° .395			-			☐☐	
278	Bar C-1		:		ADCP		° .	° .			-			☐☐	
279	Bar C-1		:		CAMERA		° .	° .			-			☐☐	
280	Bar C-1		:		Bongos		° .	° .			-			☐☐	
281	Bar C-1		:		Mod×3		° .	° .			-			☐☐	
282			:		ADCP	UN	° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	
			:		— END OF CRUISE —			°			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	

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