

DAILY SCIENCE LOG BOOK

CRUISE
NUMBER

2018-25

DATE:

From: August 15 / 18

To:

VESSEL:

PROJECT(S):

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division

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: Tully Laptop

Data acquisition program: Seasave

CTD deck unit make: SBE model: 11 serial number: 0425

Primary CTD

Make: SBE model: 9+ serial number: 4473

Primary temperature serial number: 4484

Primary conductivity serial number: 2128

Secondary temperature serial number: 4752

- Secondary conductivity serial number: 2399

Transmissometer: Wetlabs Model: C-Star s/n: 1185 DR

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: 3X s/n: 3642 P S or NO pump?

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

Oxygen sensor: SBE Model: 43 s/n: 0997 P S or NO pump?

PAR sensor: Biochemical Model: _____ s/n: 7'0613 Surface PAR? Y/N

Other sensors: Altimeter s/n: 62355 P, S or NO pump?

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

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

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

Secondary CTD

Make: SBE model: 9+ serial number: 585 *Swapped in on Aug 30th/2018 @ 1100 local time*

Primary temperature serial number: 5724

Primary conductivity serial number: 4434

Secondary temperature serial number: 5725

Secondary conductivity serial number: 4448

Transmissometer: Wetlabs Model: C-Star s/n: 1185 DR

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model Seapoint Cable gain: 3X s/n: 3641 P S or NO pump?

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

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

PAR sensor: Biochemical Model: _____ s/n: 70613 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)

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 1 of

Month <u>August</u>			Year <u>2018</u>			Vessel <u>Tully</u>			Cruise ID <u>2018-025</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
1	SI	15	18:46	BE	ROS	US	48° 40.930	123° 30.080	106		1 - 2	24	SR	☒	
			18:48	BO			° 40.930	° 30.070			-			☐	
			18:51	EN			° 40.930	° 30.060			-			☐	
2	LBB	16	14:29	BE	ROS	US	48° 25.260	126° 28.480	777		3 - 6	4		☒	low NH4 water
			14:31	BO			48° 25.240	126° 28.480		100	-			☐	not really "LBB"
			14:36	EN			° 25.260	° 28.450			-			☐	
3	AI-57	16	22:11	BE	ROS	US	48° 32.286	126° 11.670	499		7 - 8	2		☒	
			22:20	BO			° 32.260	° 11.640		493	-			☐	
			22:29	EN			° 32.230	° 11.570			-			☐	
4	AI-57	16	23:11		MOR	—	48° 32.044	126° 11.491	496		-			☐	Deployment
5	Alana	16	23:14		Drifters		48° 33.160	126° 09.823	470		-			☐	deployed stream
6	LAPI-B	17	01:06		MOR		48° 22.940	125° 48.100	150		-			☐	Recovery
7	LAPI-B	17	01:24	BE	ROS	US	48° 22.980	125° 48.174	150		9 - 9	1		☒	Stopped @ 117m
			01:29	BO			° 22.998	° 48.080		143	-			☐	to correct the
			01:32	EN			° 22.990	° 48.060			-			☐	wire angle
8	LAPI area		02:00		LOOP		48° 24.430	125° 46.655			LOOP 1	1		☐	SP
9	EFF05		13:44	BE	ROS	US	49° 2.480	125° 9.090	202		15 - 23			☒	
			13:48	BO			° 2.490	° 9.090		197	-			☐	
			13:59	EN			° 2.510	° 9.120			-			☐	

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: 6 December 2016

Aug 16, 2012

Search

This page is for any notes or observations

A1 - Mooring Recover / - mooring has previously been hit & likely relocated - was in contact with trawl for ~ 90 minutes
- new transducers on hull have not been confirmed through release cable on Tally

0900 POT on station

Send 1A28 - no response - Dantking transducer - no response
- head to position 1 km further north

0909 - Send 1A28 - no response

1A28 - try ram transducer

listen with Helle receiver - nothing - reject - attempt ranging along the way

0924 1 km Further north

Send 1A28 - no response - Dantking transducer no response

- Helle receiver - nothing

- head to location 1 km Further north

- ranging along the way

0935 - 3 km north of pot

Send 1A28 - hull & dunking transducers - no response

- head 1 km Further north

0947 - 4 km North

- Send 1A28 - no response

- proceed 1 km Further north

0955 - 5 km North - 1A28 using 81 & 10 - no response

- head 1 km Further north

1007 6 km North - 1A28 - No response

- head 1 km north

A1 Dusters; 0-3152998
0-3152999.

deployed as leaving A1

+ round duster 550

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 2 of

Month <u>Aug</u>			Year <u>2018</u>			Vessel <u>Tully</u>			Cruise ID <u>2018-025</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
10	EFF04-M		14:53	EN	MOR		49° 3.860	125° 09.094	105		-			☐ ☐	Recovery
11	EFF02		15:49	BE	ROS	US	49° 4.970	125° 10.310	69		32 - 37	6	SR	☒ ☐	
			15:51	BO			° 4.970	° 10.310		65	-			☒ ☐	
			16:00	EN			° 4.980	° 10.330			-			☐ ☐	
12	EFF01	17	16:32	BE	ROS	US	49° 5.570	125° 11.663	32		38 - 41	4	SR	☒ ☐	
			16:34	BO			° 5.580	° 11.670			-			☐ ☐	
			16:37	EN			° 5.580	° 11.670			-			☐ ☐	
13	EFF03	17	17:08	BE	ROS	US	49° 4.280	125° 9.440	117		24 - 31	8	SR	☒ ☐	
			17:11	BO			° 4.280	° 9.430		112	-			☐ ☐	
			17:20	EN			° 4.280	° 9.410			-			☐ ☐	
14	EFF04- 0	17	17:48		MOR		49° 03.172	125° 06.777	96		-			☐ ☐	Deployment
15	EFF04	17	18:05	BE	ROS	US	° 3.140	° 8.580	60		10 - 14	5	SR	☒ ☐	
			18:07	BO			° 3.130	° 8.590		55	-			☐ ☐	
			18:12	EN			° 3.120	° 8.590			-			☐ ☐	
16	EFF06	17	19:18	BE	ROS	US	49° 1.830	125° 9.170	155		42 - 49	8	SR	☒ ☐	
			19:23	BO			° 1.830	° 9.160		150	-			☐ ☐	
			19:33	EN			° 1.820	° 9.170			-			☒ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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: 6 December 2016

Aug 16 - AI Search Contd.

This page is for any notes or observations

1017 - 7 km north of original position
- Send 1A28 - no response
- head 1 km further north

1027 8 km north
- Send 1A28 - no response
- head 1 km North

1038 - 9 km
- Send 1A28 - no response

10 - head 1 km north

1048 10 km north of original position
- Send 1A28 -
- head 1 km North

1057 - 11 km north of original position
- Send 1A28 - no response
- head 1 km north

1107 - 12 km
- Send 1A28 - no response
- head 2 km West

1120 - 12 km N - 2 km W
- Send 1A28 - no response

1131 - 11 km - 2 km W
- Send 1A28 - no response

1142

10 km N - 2W

- 1A28 no response

1152

9 km N - 2W

- 1A28 no response

1202

8 km N - 2W

- 1A28 no response

1212

7 km N - 2W

- 1A28 - no response

1223

6 km N 2W

- 1A28 - no response

1232

5 km N 2W

- 1A28 - no response

1242

4 km - N 2W

- 1A28 - no response

1252

3 km - N 2W

- 1A28 - No Response

1303

2 km N 2W

- 1A28 no response

1312

even - 2W

1322

2 km S 2W

1A28 no response

1331

4 km S 2W

1A28 no response

1341

6 km S 2W

1A28 No Response

1350

8 km S 2W

no response

1400

10 km S 2W

1A28 No Response

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 3 of

Month <u>Aug</u>				Year <u>2018</u>			Vessel <u>Tully</u>				Cruise ID <u>2018-025</u>				
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
17	EFF07	17	19:54	BE	ROS	US	49° 1.280	125° 9.410	120		50-57	8	SR	☒	
			19:57	BO			° 1.280	° 9.420		115	-			☐	
			20:07	EN			° 1.270	° 9.440			-			☐	
18	EFF08	17	20:26	BE	ROS	US	49° 0.660	125° 10.240	86		58-64	7	SR	☒	
			20:28	BO			° 0.660	° 10.260		81	-			☐	
			20:37	EN			° 0.660	° 10.260			-			☐	
19	EFF09	17	20:56	BE	ROS	US	49° 0.130	125° 10.840	57		65-69		SR	☒	
			20:58	BO			° 0.130	° 10.840		52	-			☐	
			21:04	EN			° 0.130	° 10.830			-			☐	
20	EFF10	17	21:30	BE	ROS	US	48° 59.850	125° 11.210	100		70-76	7	SR	☒	
			21:32	BO			° 59.850	° 11.210		95	-			☐	
			21:41	EN			° 59.850	° 11.260			-			☐	
21	EFF11	17	21:57	BE	ROS	US	48° 59.130	125° 11.030	86		77-82	6	SR	☒	
			22:00	BO			° 59.130	° 11.030		81	-			☐	
			22:07	EN			° 59.150	° 11.010			-			☐	
22	EFF12	17	22:39	BE	ROS	US	48° 58.030	125° 10.440	93		83-89	7	SR	☒	
			22:40	BO			° 58.030	° 10.450		88	-			☐	
			22:49	EN			° 58.050	° 10.420			-			☐	
			:				°	°			-			☐	

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: 6 December 2016

August 16, 2018

LAPI:1754 → Ranged on 35630 (PORT); ~200m slant
~500m - released

EF04 - Mooring Recovery
0730 - Send 09BF

August 17 2018

154 138132

291 376 - out of range

- dunking transducer

0751 Send 09BF + 0955

-581

0752

-582

- on surface

This page is for any notes or observations

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 4 of

Month <u>Aug</u>				Year <u>2018</u>			Vessel <u>Tully</u>			Cruise ID <u>2018-025</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
23	EFF13	17	23:11	BE	ROS		48°56.510	125°10.610			90-96	7	SR	☒	
			23:13	BO			°56.510	°10.590		99	-			☐	
			23:22	EN			°56.540	°10.500			-			☐	
24	Estevan-A	18	02:34		MOR		49°15.990	126°34.450	101		-			☐	Deployment
25	E01	18	14:51	BE	ROS		49°17.440	126°36.350	102		97-97	1	SR	☒	
			14:53	BO			°17.450	°36.330		98	-			☐	
			14:55	EN			°17.440	°36.330			-			☐	
26	E01	18	15:31	RE	MOR		49°17.230	126°36.280	100		-			☐	Recovery E01-57
27	E01	18	17:48	DE	MOR		49°17.320	126°36.230	100		-			☐	Deployment E01-58
28	Cook1	18	20:27	BE	ROS	US	49°37.790	126°36.370	162		98-98	1	SR	☒	
			20:30	BO			°37.790	°36.390		157	-			☐	
			20:34	EN			°37.790	°36.390			-			☐	
29	ESP2	18	23:20	BE	ROS	US	49°52.050	126°50.880	235		99-99	1	SR	☒	
			23:24	BO			°52.050	°50.856		229	-			☐	
			23:29	EN			°52.064	°50.821			-			☐	
30	ESP3	19	02:24	RE	MOR		49°47.815	127°27.628	81		-			☐	
31	ESP3	19	02:54	BE	ROS	US	49°47.370	127°27.560	84		100-100	1	SR	☒	
			02:56	BO			°47.360	°27.520		79	-			☐	
			02:58	EN			°47.360	°27.490			-			☐	

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: 6 December 2016

E01-S7 Recovery Aug 18, 2018 Very Foggy

This page is for any notes or observations

PDT
0810 - On Station 115 115 114 118 129
- Send 1B3F
- relocate
0817 161 159 155 - hull transducer
141 139 141 142 144 145 - dunking
0825 170 208 - no response hull
0829 - 203 260
0830 Send 1B3F+1B55 263 264 executed
- on Surface

Cook 1-A Mooring Recovery Aug 18, 2018 Fog has just cleared
1319^{PDT} - Arrive on location - Send 1B3F 362 314 286

1339 - 260 307 329
1342 - 430 430 lost contact
- dunking transducer
1343 - ~~230~~ Send 1B3F+1B55 439 441 - no executed
1344 - on Surface

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 5 of

Month <u>Aug</u>				Year <u>2018</u>			Vessel <u>TULLY</u>			Cruise ID <u>2018-25</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
32	BPI	19	13:42	BE	ROS	US	50°03.407	127°53.310	112		101-101	1	cu/SP	☒ ☐	anchored
			13:45	BO			50°03.357	127°53.357		107	-			☐ ☐	Immediately should have
			13:46	EN			50°03.35	127°53.388			-			☐ ☐	deck pressure
33	BPI-57	19	14:16	EN	MOR		50°03.561	127°53.475	106	—	-			☐ ☐	Recovery
34	BPI-58	19	15:36		MOR		50°03.54	127°53.490	102	—	-			☐ ☐	Deployment
			:				°	°			-			☐ ☐	
35	BPI	19	15:40		Drifter		50°03.58	127°53.610	111	—	-			☐ ☐	Drifter
			:				°	°			-			☐ ☐	0-3151649 8-3151645
36	BROOKS	19	17:06		MOR		50°13.97	128°02.73	90		-			☐ ☐	Deployment
37	Loop2	19	17:32		Loop		50°16.777	128°07.680			-		SP	☐ ☐	After Brook
38	SCOT5		21:05		DRF		50°40.30	128°52.900			-			☐ ☐	880 890
39	SCOT51	19	22:01	BE	ROS	UP	50°47.412	128°48.15	110		102-102		cu	☐ ☐	895 Cannon ball
			22:03	BO			50°47.41	128°48.15		107	-			☐ ☐	0.31 db deck
			22:06	EN			50°47.420	128°48.160			-			☐ ☐	pressure
40	SCOT1B	19	:	EN	MOR		°	°			-			☐ ☐	
41	SCOT1C	19	23:43	BE			50°47.520	128°48.180	113		-			☐ ☐	
42			23:43		DRF		50°47.520	128°48.180			-			☐ ☐	879:888 Drifter
43			20:56		DRF set		°	°			-			☐ ☐	892, 885 881 891
44			04:56		DR F catch		°	°			-			☐ ☐	03151644 03151642

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: 6 December 2016

Notes:

ESP2-A Mooring Recovery Aug 18, 2018 -

PDT 1633 - Send 1B3D 541
1633 - Send 1B3D+1655 543 544 executed
- on surface

This page is for any notes or observations

ESP3-A Mooring Recovery Aug 18, 2018

PDT 1920 - send enable 203433; range 72m back off
1924 - range 316m; release 224463
1925 - on surface

BPI-57 Mooring Recovery Aug 19, 2018

PDT 0700 Send 1B3D 310 305
142 - lost contact?
0704 166 169 - dunking transducer
- wait for deck to be set up
07 505 506
0716 Send 1B3D+1655 505 506 executed
- on surface

- in chifter - add 895 Cannon ball

Cast 039 Didn't have NMEA
feed. Tried a restart a
couple of times. Started the
cast and like it started up
after it was on its way back
up

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 6 of

Month <u>Aug</u>			Year <u>2018</u>			Vessel <u>Tully</u>			Cruise ID <u>2018-025</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
45	CI6	20	04:14	BE	ROS	/	51° 1.920	129° 37.880	850		/	/	SR	☒ ☐	
			04:29	BO			° 1.900	° 37.900		840	-			☐ ☐	
			04:45	EN			° 1.750	° 37.770			-			☐ ☐	
46	CI07	20	05:57	BE	ROS	/	50° 56.440	129° 48.520	1565		/	/	SR	☒ ☐	
			06:24	BO			° 56.340	° 48.530		1563	-			☐ ☐	
			06:52	EN			° 56.330	° 48.610			-			☐ ☐	
47	CI08	20	07:31	BE	ROS	US	50° 53.220	129° 52.200	2095		119 - 140	22	SR	☒ ☐	
			08:08	BO			° 53.130	° 52.180		2082	-			☐ ☐	
			09:05	EN			° 53.050	° 52.260			-			☐ ☐	
48	Scott2	20	14:12	EN	MOR		51° 07.616	129° 28.485	288		-			☐ ☐	Recover
			:				° .	° .			-			☐ ☐	
49	Scott52	20	15:04	BE	ROS	UP	51° 07.64	129° 28.43	280		103 - 118			☐ ☐	
			15:12	BO			51° 07.64	129° 28.42		285	-			☐ ☐	0.360b on
			15:37	EN			51° 07.62	129° 28.47			-			☐ ☐	check
50	Scott52-0	20	17:07		MOR		51° 07.68	129° 28.49	288		-			☐ ☐	Deployment
51		20	18:35		DRF		51° 16.55	129° 09.96	265		-			☐ ☐	2.5CTs
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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: 6 December 2016

Scott 1B Mooring Recovery Aug 19, 2018
 PDT 1312 - Send 163F 173 171 166
 - relocate

1518 333 337

1519 163F+1655 331 329 executed
 - on surface

UTC
 Scott 2-B Mooring Recovery Aug 20, 2018

1400 - on station send 1A2B - 321 322

1410 - dunking transducer 500 499

1412 - Send 1A2B+1A55 495 494 executed

Scott 2 - There were numerous mouse failures @ depth so spent time
 @ bottle 3 "250 ish"

SCOT Drifters #884 886

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 7 of

Month <u>August</u>			Year <u>2018</u>		Vessel <u>Tully</u>		Cruise ID <u>2018-025</u>									
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Latitude	Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments	
52	HAKI-B	20	:		MOR		°	°			-			☐	☐	Recovery.
53	HAKI	20	23:15	BE	ROS	UP	51°42.76	128°14.040	141	138	119-134	18.		☐	☐	
			23:19	BO			51°42.79	128°14.040			-			☐	☐	
			23:31	EN			51°42.84	128°14.02			-			☐	☐	Deployment
54	HAKI-C	21	01:17		MOR		51°42.710	128°14.16	141		-		SR	☒	☐	
55	MS3	21	06:12	BE	ROS		51°48.780	129°41.310	303		-			☐	☐	
			06:18	BO			°48.760	°41.340		298	-			☐	☐	
			06:24	EN			°48.740	°41.380			-			☐	☐	
56	MS4	21	07:45	BE	ROS	US	51°41.430	129°57.540	360		135-150	16	SR	☒	☐	The LARS operator pulled the rosette out of the water
			07:51	BO			°41.370	°57.660		355	-			☐	☐	instead of going down at the start.
			08:11	EN			°41.290	°57.880			-		SR	☒	☐	
57	Middle	21	11:01	BE	ROS		52°2.160	129°50.510	111		-			☐	☐	
			11:04	BO			°2.150	°50.530		106	-			☐	☐	
			11:06	EN			°2.130	°50.570			-			☐	☐	
58	SRC-1	21	13:29	BE	ROS	US	52°15.000	129°40.860	212		151-	159	SR	☒	☐	
			13:32	BO			°14.980	°40.836			-			☐	☐	
			13:46	EN			°14.980	°40.876			-			☐	☐	
	SRC1		:		MOR		°	°			-			☐	☐	
			:				°	°			-			☐	☐	

Event Type:
BOT = Bottle cast (no CTD)
CTD = Standalone CTD

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: 6 December 2016

HAKI-B Mooring recovery Aug 20, 2018 - very Foggy

This page is for any notes or observations

UTC
2218 - on station send 16B3 167 167 (hull transducer)

166 188 173 180

2224 212 212 (dunking transducer) - relocate

2228 256 259 276 - relocate

2232 316

Send 16B3+1655 316 316 Executed

SRC1-B Mooring recovery Aug 21, 2018

UTC

1414 - nearing location Send 16B2 - 233 - 235

1420 - 52e 517

1422 Send 16B2+1655 520 522 - execute
- on Surface

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 8 of

Month <u>August</u>			Year <u>2018</u>		Vessel <u>Tully</u>		Cruise ID <u>2018-025</u>								
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
59	MT8	21	16:56	BE	ROS	US	52° 17.11	130° 11.96	485	494	160-175	16	CH	☒ ☐	hard deep.
			:	BO			°	°			-			☐ ☐	
			17:25	EN			52° 17.12	130° 11.34			-			☐ ☐	
60	MT8	21	17:33	BE	NET	—	52° 17.13	130° 11.96	485		-			☐ ☐	
			17:41	BO			52° 17.18	130° 11.96		250	-			☐ ☐	
			17:46	EN			52° 17.210	130° 11.97			-			☐ ☐	
61	Juan I-A	21	:				52° 31.1	131° 23.82			-	φ	CH	☒ ☐	Recovery
62	JPS5	21	23:44	CTD			53° 31.40	131° 18.71	239	240	-			☐ ☐	Deploy
63	Juan I-B	22	01:33				52° 31.07	131° 23.18	360		-			☐ ☐	
64	JPS4	22	01:43	BET	NET		52° 31.198	131° 23.622	355		171-172			☐ ☐	
			01:52	BO			52° 31.263	131° 23.751		250	-	φ	CW	☐ ☐	
			01:58	EN			52° 31.282	131° 23.875			-			☐ ☐	
65	JPS4	22	02:12	BE	ROS	US	52° 31.230	131° 23.670	335		176-191	16	SR	☒ ☐	
			02:20	BO			° 31.270	° 23.760		331	-			☐ ☐	
			02:39	EN			° 31.310	° 23.740			-			☐ ☐	
66	JPS1	22	03:58	BE	NET		52° 36.319	131° 40.124	137		—	—	SP	☐ ☐	
			04:02	BO			° 36.321	° 40.119		127	-			☐ ☐	
			04:05	EN			° 36.324	° 40.116			-			☐ ☐	
			:				°	°			-			☐ ☐	

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 6 December 2016

Notes:

Juan 1-A Mooring Recovery Aug 21, 2012

2227 - on station

- send 1A2A 388 389

- move off 506 m

- 2233 sent release code, positive response

- Visual

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

DAILY SCIENCE LOG

Month <u>July</u>				Year <u>2018</u>		Vessel <u>Tully</u>		Cruise ID <u>2018-025</u>							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
67	JPS1	22	04:14	BE	ROS	US	52° 36.300	131° 40.100	147		192-203	12	SR	☒	
			04:16	BO			° 36.300	° 40.100		142	-			☐	
			04:26	EN			° 36.290	° 40.120			-			☐	
68	JPS2	22	05:05	BE	ROS	/	52° 34.970	131° 37.210	382		/	/	SR	☒	
			05:10	BO			° 34.980	° 37.200		277	-			☐	
			05:14	EN			° 34.990	° 37.210			-			☐	
69	JPS3	22	05:56	BE	ROS	/	52° 33.260	131° 29.880	325		/	/	SR	☒	
			06:01	BO			° 33.278	° 29.928		320	-			☐	
			06:06	EN			° 33.281	° 29.954			-			☐	
70	JPS6		07:33	BE	ROS	/	52° 32.089	131° 10.578	174		/	/	SR	☒	
			07:36				° 32.083	° 10.582		169	-			☐	
			07:				° 32.	° 10.			-			☐	
71	JPS7	22	08:14	BE			52° 33.888	131° 05.860	132		-			☐	
			08:20	BO			° 33.890	° 05.806		122	-			☐	
			08:22	EN			° 33.882	° 05.780			-			☐	
72	JPS7	22	08:31				52° 33.890	131° 05.810	132		-			☐	
			08:34				° 33.860	° 05.790			-			☐	
			08:44				° 33.770	° 05.640			-		SR	☐	Moor JPS7
73	LOUP3		09:34		LOOP		52° 31.706	130° 54.106			-			☐	

Event Type:

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

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: 6 December 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Cruise ID 2018-025

Month		Year		Vessel		Positional Information		Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Latitude	Longitude						
74	MT07	22	12:13	BE	ROS	/	52°25.660	130°13.900	328			SR	☒	
			12:20	BO			°25.670	°13.850		327			☐	
			12:27	EN			°25.660	°13.900					☐	
75	MT06	22	13:32	BE	ROS	/	52°34.250	130°6.090	271			SR	☒	
			13:37	BO			°34.270	°6.050		266			☐	
			13:41	EN			°34.280	°6.010				CH	☒	
76	MT05	22	14:39	BE	ROS	US	52°40.56	129°59.14					☐	
77	MT04	22	:	BO	CTD	/	52°40.54	129°59.18					☐	forget EN lat/lon
			:	EN			.	.				CH	☒	forget time
77	MT04	22	:	BE	CTD	/	52°49.07	130°1.29	259				☐	" "
			:	BO			52°49.06	130°1.30		255			☐	
			16:15	EN			52°49.07	130°1.32				CH	☒	
78	MT03	22	17:11	BE	CTD	/	52°55.50	130°8.03	243				☐	
			17:19	BO			52°55.50	130°8.02		241			☐	
			17:23	EN			52°55.49	130°8.03				CH	☒	
79	MT02	22	18:17	BE	CTD	/	53°1.82	130°14.58	218				☐	
			18:22	BO			53°1.82	130°14.60		215			☐	
			18:26	EN			53°1.82	130°14.58					☐	
			:				.	.					☐	

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

Event Type:

LOOP = Sea Water Loop
MOR = Mooring

Bottle Firing Method:

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

Time Code:

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

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 6 December 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month <u>August</u>				Year <u>2018</u>		Vessel <u>Tully</u>		Cruise ID <u>2018-025</u>							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
80	SRNI-A	22	19:16				53° 06.500	130° 23.000	203		-			☐ ☐	Recovery
			:				°	°			-			☐ ☐	
81	MTOI(SRN)	22	:	RE	NET		53° 06.490	130° 22.920	203		-			☐ ☐	
			:	BO			53° 06.520	130° 22.940	203		-			☐ ☐	
			:	EN			53° 06.540	136° 22.920			-			☐ ☐	
82	SRNI-A/MTOI	22	20:27	BE	ROS	US	53° 6.530	130° 22.92	203		229-241	13	CH	☒ ☐	
			:	BO			°	°		200	-			☐ ☐	
			:	EN			53° 6.51	130° 22.95			-			☐ ☐	
83	SRNI-B	22	21:08				53° 6.51	130° 23.01	203		-			☐ ☐	Deploy
			:				°	°			-			☐ ☐	
84	SRNI	22	21:23	DRIFT			53° 6.57	130° 22.95	203		-		CH	☒ ☐	
85	W007	22	22:57	BE	CTD	✓	53° 15.50	130° 40.99	192		-			☐ ☐	Paused to fix
			23:04	BO			53° 15.55	130° 40.88		188	-			☐ ☐	wire angle
			23:07	EN			53° 15.54	° 40.89			-		CH	☒ ☐	→
86	HECSI	23	00:12	BE	CTD	✓	53° 23.53	130° 45.43	187		-			☐ ☐	
			00:17	BO			53° 23.53	° 45.43		182	-			☐ ☐	
			00:23	EN			° 23.54	° 45.46			-			☐ ☐	
86B	HECSI		00:23		started new event		°	°			-			☐ ☐	turn pump off
			:				°	°			-			☐ ☐	

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

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

Notes:

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 6 December 2016

SRN1-A Recovery Aug 22, 2018 1916 UTC DEPTH RANGER
 1916 ENABLE 1A2C on hull transducer 245, 242, 241, 238, 234, 237, 246
 1921 moved ~2 cables off 1921
 1925 Sent Release Code positive Response + Sighting

Drifters:

Oskers:

0627

0629

0630

MetOcean Code Davis IMEI #

300234066039140

"

8170

"

2160

Oskers w/ drogues

435

492

412

SCTs:

878

882

883

Carthe:

0-3151640

0-3133117

0-3133076

86 - turned off archiving before turning pump

86B - started new event to turn pump on + off properly.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month <u>August</u>				Year <u>2018</u>		Vessel <u>Tully</u>		Cruise ID <u>2018-025</u>							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
87	HECS2	23	01:27	BE	CTD		53° 31.900	130° 43.260	191		-		RW	☒	
			01:32	BO	CTD		53° 31.900	130° 43.280		188	-			☐	
			01:36	BN	CTD		53° 31.900	130° 43.290			-			☐	
88	HECS3	23	02:47	BE	ROS		53° 41.730	130° 43.219	138		-		SR	☒	
			02:49	BO			° 41.730	° 43.230		134	-			☐	
			02:52	EN			° 41.720	° 43.230			-			☐	
89	HECS4	23	03:48	BE	ROS	VS	53° 48.340	130° 49.460	100	96	242-253	12	SP	☒	
			03:50	BO			° 48.350	° 49.420			-			☐	
			03:59	EN			5° 48.380	131° 49.400			-			☐	
90	HECS5	23	05:08	BE	ROS		53° 56.104	° 0.400			-		SR	☒	
			05:10	BO			53° 56.104	° 0.468			-			☐	
			05:12	EN			° 56.111	° 0.425			-		SR	☒	
91	HECS6	23	06:24	BE	ROS		54° 7.370	131° 2.580	113		-			☐	
			06:26	BO			° 7.380	° 2.560		109	-			☐	
			06:29	EN			° 7.390	° 2.560			-			☐	
92	HECS7	23	07:23	BE	ROS		54° 13.600	131° 2.200	125		254-265		SR	☒	Went back to
			07:28	BO			° 13.640	° 2.300		120	-			☐	5 m for bot 9
			07:44	EN			° 13.540	° 2.510			-			☐	Ammonia note →
			:				°	°			-			☐	

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 6 December 2016

Notes:

This page is for any notes or observations

The ship was burning garbage while we were sampling

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

DAILY SCIENCE LOG

Month <u>August</u>				Year <u>2018</u>		Vessel <u>Tully</u>		Cruise ID <u>2018-025</u>							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Latitude	Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
93	HECS8	23	09:10	BE	ROS	US	54° 23.160	131° 5.400	117		266-276	11	SR	☒	
			09:12	BO			° 23.160	° 5.410		113	-			☐	
			09:23	EN			° 23.180	° 5.450			-			☐	
94	DIX1	23	11:00	BE	ROS	US	54° 25.660	131° 30.910	267		277-285		SR	☒	
			11:05	BO			° 25.670	° 30.920		262	-			☐	
			11:19	EN			° 25.660	° 30.980			-			☐	
95	Chat2-A	23	14:54	BE	MOOR		54° 15.750	130° 46.610	192		286-300	15		☒	Deployment
96	Chat2-F	23	15:07	BE	ROS	US	54° 16.00	130° 46.78	191		-			☐	2nd floor added
			15:12	BO			° 16.02	° 46.75		187	-			☐	sample 300 out
			15:28	EN			54° 14.31	130° 43.87	161	161	-			☐	Sequene
97	Chat2	23	16:35	BO	CORE		54° 12.110	130° 27.14	123		301-319	19	CH	☐	
98	Chat1	23	19:23	BO	CORE		54° 12.06	130° 26.86	128		-			☐	
99	Chat1	23	19:44	BE	ROS		° 12.06	° 26.88		125	-			☐	
			19:48	BO			° 12.04	° 26.91			-			☐	Deployment
			19:57	EN			54° 12.060	130° 27.020	125		320-324			☐	
100	Chat1-A	23	21:43	MOR			54° 16.34	130° 29.150	40		-			☐	
101	CH18	23	22:28	BE	ROS		54° 16.33	130° 29.15		35	-			☐	
			22:30	BO			54° 16.33	130° 29.18			-			☐	
			22:37	EN											

Event Type:

ROT = Bottle cast (no CTD)

LOOP = Sea Water Loop

MOR = Mooring

NET = Plankton Net Haul

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 6 December 2016

99 bottle 15 failed integrity test. Vent not tightened enough. CH

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

DAILY SCIENCE LOG

Month <u>August</u>				Year <u>2018</u>			Vessel <u>Tully</u>			Cruise ID <u>2018-025</u>		# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Latitude	Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers				
102	CH19	23	23:12	BE	ROS		54° 15.21	130° 35.57	77		326 - 335	10	CH	☒	
			:	BO			° 15.24	° 35.57		73	-			☐	
			:	EN			° 15.24	° 35.57			-	1	CH	☐	
102B	CH19	23	23:24	BE	ROS	US	54° 15.	130° 35.57	77	7	-			☐	
			23:25	BO			° 15.	130° 35.57			336 - 343	8	CH	☒	
			23:25	EN							-		JS	☒	
103	CH22	24	00:50	BE	ROS	US	54° 10.01	130° 34.93	125		-			☐	
			00:52	BO			° 10.01	° 34.93		123	-			☐	
			01:01	EN			° 10.01	° 34.91			-			☐	
104	CH20	24	01:51	BE	ROS	US	54° 13.51	130° 43.88	154		345-354	11	CH	☒	OK forgot to
			01:58	BO			° 13.52	° 43.87		150	-		CC	☐	fine surface
			02:06	EN			° 13.55	° 43.82			-			☐	bottle
105	CH21	24	02:40	BE	ROS	US	54° 12.000	130° 39.260	121		355-368		SR	☒	
			02:43	BO			° 12.000	° 39.260		116	-			☐	
			02:54	EN			° 11.990	° 39.280			-			☐	
106	CH24	24	03:38	BE	ROS	US	54° 7.630	130° 34.100	92		369-374	6	SR	☒	
107	CH24		03:41	BO			° 7.630	° 34.110		88	-			☐	
			03:47	EN			° 7.600	° 34.100			-			☐	

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

Event Type:

BOT = Bottle cast (no CTD)
CTD = Standalone CTD
CTD in Burette

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 6 December 2016

- 102B - Went back down to 7m to sample chl-a max and or max
- had already turned system off, so turned back on & proceeded Ctl.
- 103 most Niskin bottle vents were not tightened properly. All bottles failed integrity test. Sampled nutrient anyway.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month <u>August</u>				Year <u>2018</u>		Vessel <u>Tully</u>		Cruise ID <u>2018-025</u>							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
107	CH25	24	04:28	BE	ROS	US	54° 8.840	130° 26.210	116		375-386	12	SR	☒	
			04:32	BO			° 8.840	° 26.190		111	-			☐	
			04:41	EN			° 8.840	° 26.170			-			☐	
108	CH23	24	05:11	BE	ROS	US	54° 11.440	130° 23.450	103		387-393			☐	
			05:14	BO			° 11.450	° 23.450		98	-			☐	
			05:22	EN			° 11.470	° .370			-			☐	
109	PRAR74	24	05:55	BE	ROS	US	54° 13.570	130° 21.070	41		394-408	15		☐	3-8 not Fired
			05:56	BO			° 13.580	° 21.060		36	-			☐	as the rosette
			06:02	EN			° 13.590	° 21.034			-			☐	sheet was
110	CH26	24	06:44	BE	ROS	US	54° 8.780	130° 21.420	65		409-415	7	SP	☒	wrongy.
			06:48	BO			° 8.800	° 21.350		60	-			☐	- see over note
			06:56	EN			° 8.830	° 21.270			-			☐	
111	CH27	24	07:38	BE	ROS	US	54° 6.530	130° 16.290	48		416-425	10	SR	☒	
			07:39	BO			° 6.530	° 16.300		43	-			☐	
			07:45	EN			° 6.520	° 16.310			-			☐	
112	CH31	24	08:35	BE	ROS	US	54° 1.830	130° 14.040	91		426-433	8	SR	☒	
			08:37	BO			° 1.840	° 14.040		86	-			☐	
			08:46	EN			° 1.840	° 14.060			-			☐	
			:				°	°			-			☐	

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

Event Type:

BOT = Bottle cast (no CTD)
CTD = Standalone CTD
ROS = CTD in Rosette
NET = Fish Net

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

Notes:

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 6 December 2016

Event 110:

* started cast without archiving. stopped cast at 18m : back to surface. Waited 1min, then did cast 0-60m.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month			August			Year			2018			Vessel			Tully			Cruise ID			2018-025		
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments								
113	OGCH46	24	10:03	BE	ROS	US	53° 55.430	130° 13.100	152		448 - 458	11	SR	☒ ☐									
			10:06	BO			° 55.430	° 13.110		147	-			☐ ☐									
			10:17	EN			° 55.430	° 13.140			-			☐ ☐									
114	OGCH50	24	10:55	BE	ROS	US	53° 59.320	130° 12.560	128		459 - 469	11	SR	☒ ☐									
			10:58	BO			° 59.310	° 12.560		123	-			☐ ☐									
			11:09	EN			° 59.300	° 12.600			-			☐ ☐									
115	MP55	24	11:57	BE	ROS	US	54° 4.190	130° 16.090	107		434 - 447	14	SR	☒ ☐									
			12:00	BO			° 4.190	° 16.090		103	-			☐ ☐									
			12:11	EN			° 4.200	° 16.080			-			☐ ☐									
116	CH28	24	13:48	BE	ROS	US	54° 7.220	130° 18.350	70		470 - 480	11		☐ ☐	2,3,4 not								
			13:50	BO			° 7.211	° 18.350		65	-			☐ ☐	tripped, not								
			13:57	EN			° 7.183	° 18.366			-			☐ ☐	needed.								
117	CH28	24	14:31	BO	CORE		54° 7.260	130° 18.350	69		481 - 493	13		☐ ☐									
			:				° .	° .			-			☐ ☐									
118	AD03	24	17:49	BO	CORE		54° 28.900	130° 33.670			-			☐ ☐									
119	AD02	24	18:06	BO	CORE		54° 29.020	130° 33.650			-			☐ ☐									
120	AD01	24	18:20	BO	CORE		54° 29.140	130° 33.600	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: 6 December 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month <u>August</u>				Year <u>2018</u>		Vessel <u>Tully</u>			Cruise ID <u>2018-025</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
121	CH8	24	19:51	BE	ROS	US	53°31.21	130°34.87	145		481-493	13	CH, CW	☒	
			19:55	BO			°31.20	°34.90		141	-			☐	
			20:06	EN			°31.20	°34.95			-			☐	
122	CH8	24	20:15	BO	COD		54°31.22	130°34.90	145		-			☐	
123	CH7	24	21:02	BE	NET		54°31.53	130°30.80	93		-			☐	
			21:05	BO			54°31.54	130°30.88		83	-			☐	
			21:07	EN			54°31.54	130°30.88			-			☐	
124	CH7	24	21:10	BO	LEAD LINE		54°31.54	130°30.88	93		-			☐	Mud stuck to Pb-line follow
125	CH7	24	21:19	BE	ROS		54°31.570	130°30.850	95		494-501		DS, CE	☐	Forgot bottle B
			21:22	BO			°31.580	°30.850		92	-			☐	dove on cast
			21:30	EN			° .600	° 30.850			-			☐	125B
126	CH6	24	22:07	BE	ROS		54°34.880	130°31.900	245		502-513			☒	
			22:12	BO			°34.870	°31.910		240	-			☐	
			22:27	EN			54°34.880	130°31.950			-			☒	
127	CH11	24	23:10	BB	ROS		54°29.930	130°33.590	123		-			☐	
			23:15	BO			° .930	° .610		118	514-524			☐	
			23:23	EN			° 29.920	° 33.600			-			☐	
			:				° .	° .			-			☐	
			:				° .	° .			-			☐	

Event Type:

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

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 6 December 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month <u>August</u>			Year <u>2018</u>			Vessel <u>Tully</u>			Cruise ID <u>2018-025</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
128	CH12	25	00:50	BE	ROS	US	54° 23.68	130° 33.960	143		-	12	LP	☒	# of bottles was 13 on yellow sheet
			00:57	BO			54° 23.670	130° 33.950		142	525-537			☐	
			01:05	EN			54° 23.690	130° 33.980			-			☐	
129	CH17	25	01:41	BE	ROS	US	54° 20.510	130° 33.280	88		-	7	LP	☒	LP forgot to
			01:45	BO			54° 20.520	130° 33.280		83	-			☐	turn pump off 50 ft
			01:53	EN			54° 20.520	130° 33.210			-			☐	stuck a fire called CANCEL!!
130	CH16	25	02:29	BE	ROS	US	54° 19.880	130° 37.270	218		545-553	9	SR	☒	
			02:35	BO			° 19.890	° 37.220		214	-			☐	
			02:44	EN			° 19.900	° 37.150			-			☐	
131	CH15	25	03:25	BE	ROS	US	54° 18.420	130° 42.480	194		554-562	9	SR	☒	
			03:31	BO			° 18.430	° 42.370		190	-			☐	
			03:44	EN			° 18.450	° 42.240			-			☐	
132	CH14	25	04:26	BE	ROS	US	54° 20.610	130° 49.670	127		563-575	13	SR	☒	
			04:28	BO			° 20.600	° 49.640		122	-			☐	
			04:40	EN			° 20.580	° 49.530			-			☐	
133	CH13	25	05:44	BE	ROS	US	54° 23.100	130° 39.010	161		576-584	9	SR	☒	
			05:49	BO			° 23.110	° 38.940		156	-			☐	
			06:00	EN			° 23.130	° 38.770			-			☐	
			:				°	°			-			☐	

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: 6 December 2016

Notes:

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page ____ of ____

Month <u>Aug</u>				Year <u>2018</u>		Vessel <u>Tully</u>			Cruise ID <u>2018-025</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Latitude	Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
134	CH10	25	06:34	BE	ROS	US	54°26.810	130°39.250	86		585-592	8	SR	☒	
			06:36	BO			°26.820	°39.250		81	-			☐	
			06:44	EN			°26.830	°39.250			-			☐	
135	CH4	25	07:42	BE	ROS	US	54°32.450	130°43.430	84		593-600		SR	☒	
			07:44	BO			°32.430	°43.420		81	-			☐	
			07:51	EN			°32.430	°43.430			-			☐	
136	CH5	25	08:23	BE	ROS	US	54°33.730	130°37.560	147		601-613	13	SR	☒	
			08:26	BO			°33.730	°37.570		143	-			☐	
			08:37	EN			°33.700	°37.500			-			☐	
137	CH2	25	09:29	BE	ROS	US	54°39.780	130°38.140			614-630	17	SR	☒	Deck pressure was 0.06-0.11
			09:37	BO			°39.780	°38.110			-			☐	
			09:54	EN			°39.760	°38.100			-			☐	
138	CH1	25	11:05	BE	ROS	US	54°41.747	130°27.203	616		631-649	19	SR	☒	
			11:15	BO			°41.762	°27.205		611	-			☐	
			11:40	EN			°41.759	°27.196			-			☐	
139	PORTS	25	12:40	BE	ROS	US	54°47.510	130°28.310	471		650-663	14	SP	☒	
			:48	BO			° .500	° .330		470	-			☐	
			13:08	EN			° .470	° .350			-			☐	
			:				° .	° .			-			☐	

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: 6 December 2018

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

DAILY SCIENCE LOG

Month <u>August</u>				Year <u>2018</u>		Vessel <u>Tully</u>		Cruise ID <u>2018-025</u>		Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Latitude	Longitude								
140	Port 4	25	14:06	BE	ROS	US	54° 53.610	130° 10.700	401		664-680	17	CH	☒	☐	
			14:15	BO			54° 53.520	130° 10.830		394	-			☐	☐	
			14:36	EN			54° 53.510	130° 11.140			-			☐	☐	
141	Port 3	25	15:28	BE	NET		54° 58.120	130° 04.600			-			☐	☐	
			15:33	BO			54° 58.090	130° 04.660			-			☐	☐	
			15:36	EN			54° 58.080	130° 04.680			-			☒	☐	
142	Port 3	25	15:46	BE	ROS		54° 58.130	130° 4.740	277		-			☐	☐	
			15:53	BO			54° 58.140	130° 4.840		273	-			☐	☐	
			16:08	EN			54° 58.150	130° 4.820			-			☐	☐	
143	Port 3	25	16:15		Core		54° 58.090	130° 4.750	277		-		CC	☒	☐	
144	Port 1	25	17:24	BE	ROS	US	54° 58.550	130° 57.870	51	47	-			☐	☐	
			17:29	BO			54° 58.560	130° 57.860			-			☐	☐	
			17:36	EN			54° 58.560	130° 57.870			-			☐	☐	
145	AA 8	25	20:52	BE	NET		55° 25.780	129° 40.280			-			☐	☐	
			21:01	BO			55° 25.770	129° 40.250			-			☒	☐	
			21:08	EN			55° 25.780	129° 40.250			-			☐	☐	
146	AA 8	25	21:23	BE	ROS	UP	55° 25.780	129° 40.310	289		-			☐	☐	
			21:34	BO			55° 25.770	129° 40.270		284	-			☐	☐	
			21:49	EN			55° 25.740	129° 40.280			-			☐	☐	

Bottle Firing Method:

US = Up / Stop (default)
UN = Up / No stop
EN = End Time of Cast

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: 6 December 2018

Port 1 Rosette - high turbidity layer at surface

- started CTD on deck and lowered to get JUST CTD in water kept pumps off
- stayed there for 1:30' minutes then turned pumps on and lowered bottles to be underwater and then a 30sec wait.

→ please create a separate file including air measurements

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page ____ of ____

Month				Year		Vessel				Cruise ID				Trns/Fl Cleaned	Comments
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers		
							Latitude	Longitude							
147	AA8.5	25	22:13	BE	ROS		55° 25.300	129° 40.250	52		-		LP	☒ ☐	
			22:16	BO			55° 25.290	129° 40.240		45	-			☐ ☐	
			22:18	EN			55° 25.290	129° 40.240			-			☐ ☐	
148	AA9	25	22:31	BE	ROS		55° 24.770	129° 40.920	85		-		CC	☒ ☐	pumps not turned on; did 2nd
			22:34	BO			55° 24.770	129° 40.910	85	80	-			☐ ☐	cast w/ pumps
			22:36	EN			55° 24.760	129° 40.910	85		-			☐ ☐	
			22:38	BE			55° 24.760	129° 40.910	85		-			☐ ☐	
			22:40	BO			55° 24.770	129° 40.910	85	80	-			☐ ☐	
			22:41	EN			55° 24.770	129° 40.920	85		-			☐ ☐	
149	AA10	25	22:56	BE	ROS		55° 24.160	129° 41.150	114		-		CC	☒ ☐	
			22:58	BO			55° 24.160	129° 41.140	114	109	-			☐ ☐	
			23:01	EN			55° 24.160	129° 41.130	114		-			☐ ☐	
150	AA11	25	23:35	BE	ROS		55° 23.530	129° 41.590	63		-		CC	☒ ☐	
			23:36	BO			55° 23.520	129° 41.610	62	58	-			☐ ☐	
			23:38	EN			55° 23.520	129° 41.610	61		-			☐ ☐	
151	HA14	26	01:45	BE	ROS		55° 23.870	129° 42.880	182		-			☒ ☐	
			00:50	BO			55° 23.870	129° 42.830		175	-			☐ ☐	
			01:01	EN			55° 23.780	129° 42.920			-			☐ ☐	
			:				°	°			-			☐ ☐	

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

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

Notes:

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 6 December 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page ____ of ____

Month August				Year 2018			Vessel Tully			Cruise ID 2018-025					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
152	OI17	26	01:36	BE	ROS		55° 22.190	129° 45.170	159		-		4P	☒ ☐	
			01:41	BO			55° 22.220	129° 45.170	150	150	-			☐ ☐	
			01:45	EN			55° 22.200	129° 45.170			-		4P	☐ ☐	
153	HAW15	26	02:04	BE	ROS		55° 22.470	129° 45.880	155		-		4P	☒ ☐	
			02:09	BO			° 22.480	° 45.890		150	-			☐ ☐	
			02:11	EN			° 22.490	° 45.910			-			☐ ☐	
154	HAW14	26	02:34	BE	ROS	US	55° 23.420	129° 45.770	175		719-727		SR	☒ ☐	
			02:38	BO			° 23.410	° 45.780		170	-			☐ ☐	
			02:50	EN			° 23.400	° 45.870			-			☐ ☐	
155	HAW14	26	02:54	BE/BO/EN	ROS/US		55° 23.400	129° 45.870	175		727-727	1	SR	☐ ☐	Just to fire bot 9
156	HAW14	26	02:59	BE	NET		55° 23.4	129° 45.860	172		-			☐ ☐	From cast 154
			03:05	BO			55° 23.410	129° 45.84		161	-			☐ ☐	
			03:09	EN			55° 23.400	129° 45.85			-			☐ ☐	
157	OI20	26	03:56	BE	ROS	US	55° 18.890	129° 46.740	497		728-742	15	SR	☒ ☐	
			04:05	BO			° 18.890	° 46.760		492	-			☐ ☐	
			04:24	EN			° 18.850	° 46.640			-			☐ ☐	
158	OI23	26	05:11	BE	ROS		55° 16.060	129° 49.430	568		-		SR	☒ ☐	
			05:21	BO			° 16.040	° 49.450		563	-			☐ ☐	
			05:30	EN			° 16.040	° 49.480			-			☐ ☐	

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: 6 December 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month <u>August</u>				Year <u>2018</u>		Vessel <u>Tally</u>		Cruise ID <u>2018-025</u>							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
159	OI33	26	06:55	BE	NET		55° 7.066	129° 56.567	432		/	/	SP	☐	
			07:03	BO			° 7.066	° 56.567		250	-			☐	
			07:07	EN			° 7.060	° 56.550			-			☐	
160	OI33	26	07:20	BE	ROS		55° 7.070	129° 56.580	438		/	/	SR	☐	
			07:28	BO			° 7.070	° 56.580		434	-			☐	
			07:35	EN			° 7.030	° 56.560			-			☐	
161	Pearse1	26	09:52	BE	ROS	US	55° 3.780	130° 11.080	230		743-756		SR	☒	
			09:56	BO			° 3.780	° 11.090		226	-			☐	
			10:09	EN			° 3.770	° 11.120			-			☐	
162	Pearse1	26	10:24	BE	NET		55° 3.772	130° 11.122	229	219	-		SR	☐	
			10:30	BO			° 3.756	° 11.13			-			☐	
			10:34	EN			° 3.756	° 11.13			-			☐	
163	Pearse2	26	11:36	BE	ROS	/	54° 57.370	130° 17.640	120		-		SR	☒	
			11:38	BO			° 57.370	° 17.640		116	-			☐	
			11:40	EN			° 57.370	° 17.640			-			☐	
164	Pearse3	26	12:26	BE	ROS		54° 53.200	130° 23.920	161		/	/	SR	☒	
			12:29	BO			° 53.200	° 23.930		156	-			☐	
			12:32	EN			° 53.200	° 23.930			-			☐	
			:				° .	° .			-			☐	

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 6 December 2016

Notes:

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page ____ of ____

Month <u>August</u>			Year <u>2018</u>		Vessel <u>Tully</u>		Cruise ID <u>2018-025</u>								
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
165	Pearse 4	26	14:14	BE	ROS		54°49.710	130°29.650	103		-		LP	☒ ☐	
			14:19	BO			54°49.720	130°29.640		98	-			☐ ☐	
			14:22	EN			54°49.720	130°29.630			-			☐ ☐	
166	Pearse 5	26	14:55	BE	ROS		54°47.228	130°35.105	64		-			☒ ☐	
			14:58	BO			54°47.230	130°35.110		57	-			☐ ☐	
			15:00	EN			54°47.240	130°35.110			-			☐ ☐	
167	Pearse 6	26	15:28	BE	BONG		54°46.930	130°37.630	190		-			☒ ☐	
			15:33	BO			54°46.920	130°37.050			-			☐ ☐	
			15:36	EN			54°46.920	130°37.050			-			☐ ☐	
168	Pearse 6	26	15:45	BE	ROS		54°46.930	130°37.070	191		-			☒ ☐	
			15:49	BO			54°46.940	130°37.070		186	-			☐ ☐	
			16:01	EN			54°46.940	130°37.040			-			☐ ☐	
169	TPO	26	16:31	BE	ROS		54°45.780	130°39.320	136		-			☒ ☐	
			16:34	BO			54°45.790	130°39.280		130	-			☐ ☐	
			16:38	EN			54°45.790	130°39.250			-			☐ ☐	
170	TP1.5	26	16:56	BE			54°44.630	130°37.880	93		-			☒ ☐	
			16:58	BO			54°44.630	130°37.890		88	-			☐ ☐	
			17:01	EN			54°44.630	130°37.910			-			☐ ☐	
			:				°	°			-			☐ ☐	

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: 6 December 2016

Notes:

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month <i>August</i>			Year <i>2018</i>			Vessel <i>Tully</i>			Cruise ID <i>2018-025</i>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
171	AB1	26	17:27	BE	ROS		54°42.140	130°38.340	188		-		LP	☒ ☐	
			17:32	BO			54°42.150	130°38.340		183	-			☐ ☐	
			17:36	EN			54°42.140	130°38.340			-			☐ ☐	
172	AB3	26	18:25	BE	ROS		54°41.440	130°50.220	406		-		LP	☒ ☐	
			18:34	BO			54°41.430	130°50.190		400	-			☐ ☐	
			18:42	EN			54°41.480	130°50.180			-			☐ ☐	
173	CH3	26	19:31	BE	ROS	US	54°41.390	130°55.480	565		771-788		CC	☒ ☐	
			19:44	BO			54°41.380	130°55.510	570	565	-			☐ ☐	→
			20:07	EN			54°41.400	130°55.560	555		-			☐ ☐	
174	EDR	26	21:17	BE	ROS		54°40.840	131°12.590	330		-		LP	☒ ☐	
			21:26	BO			54°40.840	131°12.700		325	-			☐ ☐	
			21:32	EN			54°40.850	131°12.830			-			☐ ☐	
175	WDR	26	23:18	BE	ROS		54°39.630	131°41.100	429		-		LP	☒ ☐	
			23:27	BO			54°39.610	131°41.230		418	-			☐ ☐	
			23:37	EN			54°39.580	131°41.630			-			☐ ☐	
176	CLS1	27	00:43	BE	ROS		54°37.890	131°53.770	349		-		LP	☒ ☐	Solid splash
			00:52	BO			54°37.760	131°54.120		345	-			☐ ☐	
			00:58	EN			54°37.690	131°54.330			-			☐ ☐	
			:				°	°			-			☐ ☐	

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: 6 December 2016

Notes:

173; CH3: altimeter indicated bottom depth as 870m, but would cut out past 10m range. This is cause for yo-yo @
bottom - to determine accurate depth CC

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page ____ of ____

Month				Year			Vessel			Cruise ID					
Aug				2018			Tully			2018-025					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
177	D01	27	02:46	BE	ROS	/	54° 32.860	132° 20.370	325		-	/	SR	☒ ☐	
			02:54	BO			° 32.890	° 20.290		320	-			☐ ☐	
			03:01	EN			° 32.850	° 20.220			-			☐ ☐	
178	DIX3	27	04:06	BE	ROS	US	54° 28.710	132° 17.900	362		789-803		SR	☒ ☐	
			04:13	BO			° 28.730	° 17.850		357	-			☐ ☐	
			04:37	EN			° 28.440	° 17.400			-			☐ ☐	
179	DIX3	27	04:53	BE	NET		54° 28.470	132° 17.905	360		-		SP	☐ ☐	
			05:02	BO			° 28.479	° 17.975		250	-			☐ ☐	
			05:10	EN			° 28.441	° 17.150			-			☐ ☐	
180	MA03	27	07:09	BE	ROS		54° 11.210	132° 13.850	105		-	/	SR	☒ ☐	Funny Fluro
			07:12	BO			° 11.200	° 13.780		100	-			☐ ☐	trace, I reset
			07:16	EN			° 11.190	° 13.810			-			☐ ☐	the cable connect-
181	MA02	27	08:19	BE	ROS		54° 11.110	131° 57.870	101		-	/	SR	☒ ☐	ions for #181
			08:21	BO			° 11.100	° 57.880		97	-			☐ ☐	
			08:23	EN			° 11.090	° 57.900			-			☐ ☐	
182	DIX2		10:31				54° 25.400	131° 56.660	280		804-819		SR	☒ ☐	
			10:35				° 25.390	° 56.750		275	-			☐ ☐	
			10:51				° 25.400	° 56.860			-			☐ ☐	
			:				°	°			-			☐ ☐	

575

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

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: 6 December 2016

Notes:

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page ____ of ____

Month <u>August</u>				Year <u>2018</u>		Vessel <u>Tully</u>				Cruise ID <u>2018-025</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
177	DIX2	27	10:56		NET		54°25.372	131°56.864	280		—	—	SP	☐ ☐	
			11:04				54°25.416	131°56.876		250	-			☐ ☐	
			11:09				54°25.438	131°56.932			-			☐ ☐	
178	Loop4	27	12:20		Loop		54°22.3048	131°38.964	—	—	—	1	SP	☐ ☐	b/w DIX1 & DIX2
179	46182	27	18:03		Drifter		53°37.05	130°05.05			-			☐ ☐	→
180	SDR	27	21:11		Drifter		52°51.315	131°45.209			-			☐ ☐	
181	HSE	28	01:38		HT surface water		52°34.2	131°26.2	1	0	820-820	1	SP	☐ ☐	3 replicate HSD Samples @ Hot Springs IS.
182			:				°	°			821-832		SP	☒ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
183	JPS4	28	05:11	BE	ROS	US	52°30.900	131°23.400	286		821-832		SP	☒ ☐	
			05:17	BO			°30.870	°23.420		281	-			☐ ☐	
			05:31	EN			°30.870	°23.460			-			☐ ☐	
184	JPS4	28	05:38	BE	NET		52°30.848	131°23.372	286		-		SP	☐ ☐	
			05:47	BO			°30.828	°23.302		250 m	-			☐ ☐	
			05:55	EN			°30.779	°23.304			-			☐ ☐	
185	JPN4	28	07:37	BE	ROS	US	52°39.040	131°40.370			86441-86444	φ	SP	☒ ☐	Channel O/I cable
			07:39	BO			°39.040	°40.380			-			☐ ☐	replaced
			:	EN			°39.050	°40.390			-			☐ ☐	→

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: 6 December 2016

Con File Change Seapoint 3641 was removed from the primary flu position and flu 3642 moved from the secondary flu position to the primary position due to a noisy signal on 3641. ER

179 2x SCT; 2x OSKER; 2x OSKER w/droque. Dely Deployed near ODRS buoy

180 1x SCT 1x OSKER 1x OSKER w/droque 1x Carthe

27 Aug 18 23:40 - EAB00
ADP file 0049 is new track for JPS survey #2 of the cruise, started logging ~ 2340 SP

The wye-cable for O/I DO+Flu was changed due to damaged pin on the Flu side. 82

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month <i>August</i>			Year <i>2018</i>			Vessel <i>Tully</i>			Cruise ID <i>2018-025</i>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
186	JPN1	28	07:47	BE/BO EN	ROS	US	52° 39.060	131° 40.380	72	2	844-844	1	SR	☐ ☐	Just to fire bot 1
187	JPN1	28	07:52	BE	NET		52° 39.030	131° 40.365	72		-			☐ ☐	for event 185
			07:54	BO			52° 39.026	131° 40.352		62	--	--	SP	☐ ☐	
			07:55	EN			52° 39.024	131° 40.342			-			☐ ☐	
188	JPN2	28	08:36	BE	ROS	US	52° 42.050	131° 44.750	124		845-845	1	SR	☐ ☐	
			08:39	BO			° 42.040	° 44.730		120	-			☐ ☐	
			08:42	EN			° 42.040	° 44.740			-			☐ ☐	
189	JPN2	28	08:48	BE	NET		52° 42.033	131° 44.755	124		--	--	SP	☐ ☐	
			08:52	BO			52° 42.050	131° 44.771		115	-			☐ ☐	
			08:54	EN			52° 42.053	131° 44.773			-			☐ ☐	
190	JPN3		09:28	BE	ROS	US	52° 44.360	131° 47.600	153		833-843	11	SR	☒ ☐	
			09:31	BO			° 44.370	° 47.620		148	-			☐ ☐	
			09:42	EN			° 44.390	° 47.650			-			☐ ☐	
191	JPN4		10:37	BE	ROS		52° 46.730	131° 42.910	215		-	-	SR	☒ ☐	
			10:42	BO			° 46.718	° 42.900		211	-			☐ ☐	
			:	EN			° .	° .			-			☐ ☐	
192	JPN3	28	09:47	BE	NET		52° 44.376	131° 47.611	150		-		SP	☐ ☐	
			09:52	BO			° 44.390	° 47.616			-			☐ ☐	
			09:55	EN			° 44.381	° 47.613			-			☐ ☐	

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: 6 December 2016

Notes:

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month <u>August</u>			Year <u>2018</u>		Vessel <u>Tully</u>		Cruise ID <u>2018-025</u>								
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
193	JPC1	28	11:28	BE	ROS	US	52°44.270	131°42.230	229		844-856	13	SR	☒	
			11:32	BO			°44.260	°42.230		225	-			☐	
			:	EN			°44.	°42.			-			☐	
194	JPC1	28	11:51	BE	NET		52°44.260	131°42.221	225	215	-		SR	☐	
			11:58	BO			°44.267	°42.230			-			☐	
			12:02	EN			°44.269	°42.222			-			☐	
195	JPC2	28	12:51	BE	ROS		52°44.600	131°32.360	224		-		SR	☒	
			12:56	BO			°44.620	°32.380		219	-			☐	
			13:00	EN			°44.620	°32.370			-			☐	
196	LSK1	28	14:07	BE	ROS		52°49.490	131°30.740	154		-		LP	☒	Bah Didn't
			14:11	BO			52°49.480	131°30.740		147	-			☐	Archive!! LP
			14:21	EN			52°49.470	131°30.740			-			☐	Reddit?
197	LSK1	28	14:27	BE	NET		52°49.770	131°30.770	150		-			☐	
			14:31	BO			52°49.470	131°30.770		140	-			☐	
			14:34	EN			52°49.470	131°30.770			-			☐	
198	LSK2	28	15:10	BE	ROS		52°52.590	131°34.150	225		-			☒	
			15:15	BO			52°52.600	131°34.190		220	-			☐	
			15:21	EN			52°52.620	131°34.230			-			☐	
			:				°	°			-			☐	

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

Event Type:

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

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 6 December 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month <u>August</u>			Year <u>2018</u>			Vessel <u>TULLY</u>			Cruise ID <u>2018-25</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
199	LSK3	28	16:06	BE	ROS		52° 52.970	131° 25.680	93		-		LP	☒ ☐	Seasave A&D
			16:08	BO			52° 52.980	131° 25.690		92	-			☐ ☐	didn't work. J
			16:11	EN			52° 52.990	131° 25.700	91		-			☐ ☐	cycled power to deck unit success.
200	LSK4	28	16:39	BE	ROS		52° 50.440	131° 22.920	170		-		LP	☒ ☐	
			16:43	BO			52° 50.430	131° 22.950		165	-			☐ ☐	
			16:47	EN			52° 50.440	131° 22.970			-			☐ ☐	
201	LI1	28	17:38	BE	ROS		52° 43.760	131° 22.570	205		-		LP	☒ ☐	
			17:43	BO			52° 43.780	131° 22.570		202	-			☐ ☐	
			17:55	EN			52° 43.790	131° 22.580			-			☐ ☐	
202	LI1	28	18:00	BE	NET		52° 43.80	131° 22.58	210		-			☐ ☐	
			18:08	BO			52° 43.82	131° 22.59		200	-			☐ ☐	
			:	EN			52° .	131° .			-			☐ ☐	
203	LI2	28	19:01	BE	ROS		52° 38.920	131° 16.230	136		-		LP	☒ ☐	Seasave A&D
			19:08	BO			52° 39.040	131° 16.250		132	-			☐ ☐	again. Cycle
			19:11	EN			52° 39.060	131° 16.290			-			☐ ☐	power. LP
204	MTD9	29	00:43	BE	ROS		52° 07.54	130° 17.04	444	(*) - sounder				☐ ☐	still 5m on
			00:50	BO			52° 07.45	130° 17.06		443	-			☒ ☐	altimeter
			01:00	EN			52° 07.38	130° 17.14			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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: 6 December 2016

MTO9- delay on deck caused by problem with cooling pump - acquisition was stopped
waiting for engineer - overwrote the file

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page ____ of ____

Month <u>August</u>				Year <u>2018</u>			Vessel <u>Tully</u>			Cruise ID <u>2018-025</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
205	MT10	29	02:21	BE	ROS		51 ° 58.230	130 ° 29.570	430		-	-	SR	☒ ☐	
			02:29	BO			° 58.190	° 29.650		425	-			☐ ☐	
			02:36	EN			° 58.090	° 29.730			-			☐ ☐	
206	MT11	29	04:26	BE	ROS	US	51 ° 44.670	130 ° 40.500	751		879-896	18	SR	☒ ☐	
			04:44	BO			° 44.680	° 40.560		746	-			☐ ☐	
			05:14	EN			° 44.650	° 40.340			-			☐ ☐	
207	MS8	29	07:44	BE	NET		51 ° 23.731	130 ° 55.248	2209		-		SP	☐ ☐	
			07:53	BO			51 ° 23.681	130 ° 55.337		250	-			☐ ☐	
			07:57	EN			51 ° 23.677	130 ° 55.380			-			☐ ☐	
208	MS8	29	08:10	BE	ROS	US	51 ° 23.880	130 ° 55.070	2239		-		SR	☒ ☐	
			08:58	BO			° 23.910	° 55.760		2239	-			☐ ☐	
			09:55	EN			° 24.330	° 56.410			-			☐ ☐	
209	MS7	29	11:22	BE	ROS		51 ° 27.680	130 ° 40.140	1795d6		-	-	SR	☒ ☐	
			12:02	BO			° 27.510	° 40.370		1791	-			☐ ☐	
			12:32	EN			° 27.400	° 40.640			-			☐ ☐	
210	MS6	29	13:28	BE	ROS		51 ° 31.090	130 ° 30.810	1366		-	-	SR	☒ ☐	
			13:54	BO			51 ° 31.120	130 ° 30.810		1360	-			☐ ☐	
			14:15	EN			51 ° 31.100	130 ° 30.900			-			☐ ☐	
			:				°	°			-			☐ ☐	

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: 6 December 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page ____ of ____

Month August				Year 2018			Vessel CCAS Tully			Cruise ID 2018-25					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
211	MS5	29	15:27	BE	ROS		51°37.210	130°15.860	697		-		LP	☒ ☐	Trust Altimeter
			15:43	BO			51°37.200	130°15.890		700	-			☐ ☐	
			15:55	EN			51°37.190	130°15.890			-			☐ ☐	
212	CI4	29	20:05	BE	ROS		51°19.190	129°3.080	259		-		LP	☒ ☐	→
			20:11	BO			51°19.200	129°3.070		253	918-922	10		☐ ☐	
			20:26	EN			51°19.200	129°3.050			-			☐ ☐	
213	CS9	29	22:32	BE	ROS		51°12.460	128°28.020	195		-			☒ ☐	CW deck = 0.15db.
			22:37	BO			51°12.460	128°28.020		190	-			☐ ☐	
			22:40	EN			51°12.470	128°28.020			-			☐ ☐	
214	CP61	30	00:58	BE	ROS		51°0.070	127°50.000	141		-		LP	☐ ☐	Wire angle adjustment
			01:05	BO			51°0.050	127°50.080		135	928-935	8		☐ ☐	waited @ 40 meters.
			01:14	EN			51°0.109	127°50.036			-			☐ ☐	@ 92 meters on Down Cast.
215	CP61	30	01:20	BE	NET		51°0.07	127°50.14	141		-			☐ ☐	
			01:26	BO			51°0.06	127°50.34		131	-			☐ ☐	
			01:23	EN			51°0.065	127°50.36			-			☐ ☐	
*	New CTD: Installed for event # 216														
216	SOGN7-F	31	14:08		MOR		°	°			-			☐ ☐	
216b	SOGN2-F		:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

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: 6 December 2016

Note: On C14 I did not fire bottle 09 ^{@ 10 meters} but I did fire bottle 9 + 10 @ surface so ignore bottle 9. It is ^{the} @ surface and not intended 10 meters. $\angle p$
↳ we did not collect water samples from bottle 9

after CPE1 heading to Port Hardy to refuel

CTD #585 swapped in due to conductivity cell drift on 443

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page ____ of ____

[illegible]

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: 6 December 2016

SOGN2-E Mooring Recovery August 31, 2018

This page is for any notes or observations

1344 - On station Send 1A2D - 368 368 369

1350 - 380 - Wait For deck crew

1400 - 372

1406 - 380 384

1408 - Send 1A2D + 1A55 - 384 386