

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

IOS 2016-58
SOG 2016-11

DATE:

From: 26 MAY 2016

To: 15 JUL 2016

VESSEL:

F/V OCEAN VENTURE

PROJECT(S):

BAR PURSE SEINE - Neville

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

WaterProperties.ca

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Name Watch Cabin Name Watch Cabin

2nd Leg Scientific Personnel: Chief Scientist: _____

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Name Watch Cabin Name Watch Cabin

1st Leg Scientific Personnel: Chief Scientist: Lanora Turcotte / Mary Inness

26-27 MAY
Colin Novak
Dylan Crowder

**** Chief Scientist to complete section below OR cut and tape from cruise plan ****

Mission Participants / Agencies:

Captain: Dennis Woloshuk
Second Officer: _____
Fishing Master: _____
First Officer: _____
Third Officer: _____
Chief Engineer: _____

**** The following 3 pages are VERY IMPORTANT as they document equipment and settings used on board ****

These pages are to be completed by the CTD Technician setting up the equipment, the Watch Leader on board, and the Chief Scientist **MUST** verify that all relevant sections are completed prior to leaving the vessel. Any mid-cruise changes to be noted by watch leader in the notes.

Data logging computer: WP CTD Computer 13

Data acquisition program: SeaTerm

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

Primary CTD

Make: SBE model: 25 serial number: 0404

Primary temperature serial number: 2095 calibrated 01 Apr 11

Primary conductivity serial number: 1764 calibrated 03 Jan 14

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: Model: _____ s/n: _____

Transmissometer: Model: _____ s/n: _____

Fluorometer: Model Wet Lab ECO Cable gain: _____ s/n: 4185

Fluorometer: Model _____ Cable gain: _____ s/n: _____

Oxygen sensor: Model: SBE 43 s/n: 1176

PAR sensor: Model: _____ s/n: _____

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

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

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

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

Secondary CTD

Make: SBE model: 25 serial number: 0384

Primary temperature serial number: 3445

Primary conductivity serial number: 2173

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: Model: _____ s/n: _____

Transmissometer: Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ s/n: 2215 P, S or NO pump? _____

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

Oxygen sensor: Model: _____ s/n: 0766 P, S or NO pump? _____

PAR sensor: Model: _____ s/n: _____

Other sensors: Pressure s/n: 2068 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-rossette casts (e.g., W.E. Ricker)

Flow Meter Serial # 07205 CTD serial #: 0404

DAILY SCIENCE LOG Ocean Sciences Division, Institute of Ocean Sciences

Month		MAY		Year		2016		Vessel		Ocean Venture		Cruise ID		SOG 2016-11 IOS 2016-58	
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Latitude	Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
01	SET 1	26	15:07	BE	SET		49° 21.623	124° 27.100	16m		-			<input type="checkbox"/>	
02	↓	26	16:14	BE	CTD		49° 21.696	124° 27.071	22m	20m	-			<input type="checkbox"/>	
03	↓	26	16:19	BE	NET		49° 21.696	124° 27.071	22m	20m	-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	
04	SET 2	26	16:55	BE	SET		49° 22.462	124° 30.869	25m		-			<input type="checkbox"/>	
05	↓	26	18:27	BE	CTD		49° 22.557	124° 30.865	43m	40m	-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	
06	SET 3	26	19:24	BE	SET		49° 24.457	124° 35.658	26m		-			<input type="checkbox"/>	
07	↓	26	20:57	BE	CTD		49° 24.484	124° 35.514	30m	25m	-			<input type="checkbox"/>	
08	↓	26	21:02	BE	NET		49° 24.484	124° 35.514	30m	25m	-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	
09	SET 4	26	21:30	BE	SET		49° 25.566	124° 37.958	18m		-			<input type="checkbox"/>	
10	↓	26	23:06	BE	CTD		49° 25.596	124° 37.850	24m	20m	-			<input type="checkbox"/>	
11	↓	26	23:11	BE	NET		49° 25.596	124° 37.850	24m	20m	-			<input type="checkbox"/>	
	← END OF DAY →		:				°	°			-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	
12	SET 5	27	15:24	BE	SET		49° 23.456	124° 34.625	22.6m		-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	
13	SET 6	27	17:26	BE	SET		49° 24.654	124° 35.397	41m		-			<input type="checkbox"/>	

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

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

Produced by the Water Properties Group, IOS
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~~PH~~ ^{buffer} bottle not removed for any casts on May 26-27. ~~XX~~

Event #08 ; BE NET → Flow meter malfunction (# did change) ; Cause unknown .

DAILY SCIENCE LOG

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Page 2 of 5

Month MAY Year 2016 Vessel OCEAN VENTURE Cruise ID SOG 2016-11 / IOS 2016-58

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
14	SET 7	27	18:47	BE	SET		49° 25' 10.5	124° 37' 09.6	20m		-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	
15	SET 8	27	20:37	BE	SET		49° 26' 12.9	124° 37' 25.2	60m		-			<input type="checkbox"/>	
16	↓	27	21:43	BE	CTD		49° 26' 18.5	124° 37' 18.9	64m	60m	-			<input type="checkbox"/>	
17	↓	27	21:48	BE	NET		49° 26' 18.5	124° 37' 18.9	64m	60m	-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	
18	SET 9	27	22:43	BE	SET		49° 24' 9.14	124° 35' 14.0	60m		-			<input type="checkbox"/>	
19	↓	27	23:39	BE	CTD		49° 24' 9.48	124° 35' 11.7	62m	60m	-			<input type="checkbox"/>	
20	↓	27	23:44	BE	NET		49° 24' 9.48	124° 35' 11.7	62m	60m	-			<input type="checkbox"/>	→
			:				°	°			-			<input type="checkbox"/>	
21	SET 10	28	00:15	BE	SET		49° 23' 8.24	124° 34' 39.2	41m		-			<input type="checkbox"/>	
22	↓	28	01:18	BE	CTD		49° 23' 8.84	124° 34' 37.5	43m	40m	-			<input type="checkbox"/>	
23	↓	28	01:23	BE	NET		49° 23' 8.84	124° 34' 37.5	43m	40m	-			<input type="checkbox"/>	
	← END OF DAY →		:				°	°			-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	

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

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CTD # 0404

Flowmeter malfunction (# did not change); Cause unknown - wire angle 10°

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month		Year		Vessel		Cruise ID		Comments						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	-Watch Keepers	Tms/FI Cleaned	Comments
							Latitude	Longitude						
24	SET11	14	15:17	BE	SET		49° 22.456	124° 30.895	20.5		Flow START	Flow END	<input type="checkbox"/>	
25	SET12	14	16:36	BE	SET		49° 24.459	124° 35.698	21.3				<input type="checkbox"/>	
26	SET13	14	18:37	BE	SET		49° 25.295	124° 36.807	42.1				<input type="checkbox"/>	
27	SET14	14	19:42	BE	SET		49° 25.566	124° 37.941	20.5				<input type="checkbox"/>	
28	SET15	14	20:48	BE	SET		49° 26.026	124° 37.218	60				<input type="checkbox"/>	
29	SET16	14	22:26	BE	SET		49° 24.883	124° 35.085	61.7				<input type="checkbox"/>	
30	SET17	14	23:26	BE	SET		49° 23.709	124° 34.366	40.5				<input type="checkbox"/>	
31	SET18	15	00:35	BE	SET		49° 22.573	124° 30.671	59.2				<input type="checkbox"/>	
END OF DAY														
32	SET19	15	15:28	BE	SET		49° 23.485	124° 34.782	21.1				<input type="checkbox"/>	
33	↓	↓	16:16	BE	CTD		49° 24.062	124° 33.859	59.8m	50m			<input type="checkbox"/>	SERIAL # 2529247
34	↓	↓	16:21	BE	NET		49° 24.062	124° 33.859	59.8m	50m	95055	95929	<input type="checkbox"/>	-0334

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Set 19
CTD #0334

CTD/Bongos completed along the 60m ISO

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Month		Year		Vessel		Cruise ID		AQUA FLOP							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments	
						Latitude		Longitude							
35	SET 20	15	16:48	BE	SET		49° 24.653	124° 35.341	40.7					BQ Main (40)	
36	↓	↓	17:23	BE	CTD		49° 24.90	12° 35.103	60.3	50					
37	↓	↓	17:28	BE	NET		49° 24.904	2° 35.103	60.3	50	95219	96214			
38	SET 21	15	17:49	BE	SET		49° 25.131	124° 37.148	19.8					BO North (20)	
39	↓	15	18:25	BE	CTD		49° 5.617	124° 36.415	60.1	50					
40	↓	15	18:30	BE	NET		49° 25.617	124° 36.415	60.1	50	95214	95460			
41	SET 22	15	18:53	BE	SET		49° 25.757	124° 37.627	40.9					Wile (40)	
42	↓	15	19:35	BE	CTD		49° 26.073	124° 37.185	60.3	50					
43	↓	15	19:40	BE	NET		49° 26.073	124° 37.185	60.3	50	96460	96746			
44	SET 23	15	20:29	BE	SET		49° 26.982	124° 40.221	19.4					Browser (20)	
45	↓	15	21:20	BE	CTD		°	4° 39.80							
46	↓	15	21:25	BE	NET		49° 27.302	124° 39.803	60.1	50	96748	97030			
47	SET 24	15	22:30	BE	SET		°	°							
48	SET 25	15	23:53	BE	SET		49° 22.516	124° 30.836	40.9		96030	96750		R-pact set 20	

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Notes:

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CTD #0334

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 5 of 5

Month		Year		Vessel					Cruise ID						
JULY		2016		F/OCEAN VE											
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Latitude	Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
✓ 49	Set 25	15	00:35	BE	CTD		49° 22.541	124° 30.563	61.5	50	-			<input type="checkbox"/>	
50	↓	15	00:40	BE	NET		49° 22.541	124° 30.563	61.5	50	-	96030	96356	<input type="checkbox"/>	
							° .	° .			-			<input type="checkbox"/>	
							° .	° .			-			<input type="checkbox"/>	
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EMTS SURVEY

Event Type:
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OTD #0334

TSK# 7182

Set 25

FM Start 96 030

FM End 96 356