

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

SOG 2017-01
IOS 2017-24

DATE:

From: 9-MAY-2017

To:

VESSEL:

OCEAN VENTURE

PROJECT(S):

COWICHAN BAY PS-JUV.

Salmon SOG PROJECT-NEVILLE

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

WaterProperties.ca

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

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

Data logging computer: _____

Data acquisition program: _____

CTD deck unit make: Seabird model: 25 serial number: 456

Primary CTD

Make: Seabird model: 25 serial number: 2553726 - 0456

Primary temperature serial number: 035130

Primary conductivity serial number: 043500

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Transmissometer: _____ Model: _____ s/n: _____

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

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

Oxygen sensor: _____ Model: 43 s/n: 431592 P, S or NO pump?

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

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

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

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

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

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Transmissometer: _____ Model: _____ s/n: _____

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

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

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

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

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

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

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

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

CTD calibration bottle location (height above CTD in metres): _____

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

Flowmeter
Serial # 7182

Scientific Equipment Used During Cruise

This sheet allows you to enter all of the equipment used while on board. Please use the separate CTD sheet for entry for SBE 9/16/19/25.

Other CTD units:
RBR Serial Number: _____ Sensors: _____

Others: _____

Plankton Nets:

Bongo #1 Frame Size: _____ cm Mesh: _____ μm Flowmeter: _____
Bongo #2 Frame Size: _____ cm Mesh: _____ μm Flowmeter: _____
_____ Frame Size: _____ cm Mesh: _____ μm Flowmeter: _____
_____ Frame Size: _____ cm Mesh: _____ μm Flowmeter: _____

Multinet ☐ BIONESS ☐ Neuston ☐ Others: _____

Trawl Gear:
Midwater Trawls: SOG ☐ Highseas ☐ Pelagic ☐ Other: _____

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

American Shrimp Trawl ☐

Notes: _____

Trawl Doors: USA Jet ☐ Tyburon ☐ _____

Sounders : Wesmar 380 ☐ Others: _____

Acoustics:
Echosounder #1 _____ Frequencies (KHz): 12 ☐ 18 ☐ 38 ☐ 70 ☐ 120 ☐ 200 ☐

Others: _____

Echosounder #2 _____ Frequencies (KHz): 12 ☐ 18 ☐ 38 ☐ 70 ☐ 120 ☐ 200 ☐

Others: _____

Software & Notes: _____

Other Gear in Operation:

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____



DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month MAY			Year 2017			Vessel Ocean Venture			Cruise ID 2017-24						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Tms/FI Cleaned	Comments
001	SET 1	09	14:57	BE	SET		48°45.013	123°36.660	53.0m		-		LT	☐	
002	↓	09	16:30	BE	CTD		48°45.000	123°36.693	52.3m	40m	-		LT	☐	
003	↓	09	16:35	BE	NET		48°45.000	123°36.693	52.3m	40m	-		LT	☐	
			:				°	°			-			☐	
004	SET 2	09	16:49	BE	SET		48°44.455	123°34.878	65m		-		LT	☐	
005	↓	09	17:41	BE	CTD		48°44.449	123°39.910	65m	50m	-		LT	☐	
006	↓	09	17:46	BE	NET		48°44.449	123°39.910	65m	50m	-		LT	☐	
			:				°	°			-			☐	
007	SET 3	09	18:09	BE	SET		48°44.526	123°33.851	81m		-		LT	☐	
008	↓	09	18:52	BE	CTD		48°44.452	123°33.756	101m	90m	-		LT	☐	
009	↓	09	18:57	BE	NET		48°44.452	123°33.756	101m	50m	-		LT	☐	
			:				°	°			-			☐	
010	SET 4	09	19:28	BE	SET		48°45.075	123°35.199	39m		-		LT	☐	
			:				°	°			-			☐	
011	SET 5	09	21:37	BE	SET		48°45.425	123°36.621	43m		-		LT	☐	
			:				°	°			-			☐	
← END OF DAY →			:				°	°			-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	

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

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FM START 9132
FM END 9330

FM START 9330
FM END 9608

FM START 9608
FM END 9920

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Month MAY			Year 2017			Vessel OCEAN VENTURE			Cruise ID IOS 2017-24:506 2017-01.						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
012	SET 6	10	14:38	BE	SET		48°44.766	123°35.726	59m		-		LT	☐	
013	↓	10	15:28	BE	CTD		48°44.746	123°35.661	59m	50m	-		LT	☐	
014	↓	10	15:33	BE	NET		48°44.746	123°35.661	59m	50m	-		LT	☐	
			:				°	°			-			☐	
015	SET 7	10	16:00	BE	SET		48°44.509	123°36.069	50m		-		LT	☐	
			:				°	°			-			☐	
016	SET 8	10	17:13	BE	SET		48°44.056	123°31.722	60m		-		LT	☐	
017	↓	10	18:03	BE	CTD		48°43.986	123°31.790	61m	50m	-		LT	☐	
018	↓	10	18:08	BE	NET		48°43.986	123°31.790	61m	50m	-		LT	☐	
			:				°	°			-			☐	
019	SET 9	10	18:41	BE	SET		48°45.439	123°34.134	87m		-		LT	☐	
020	↓	10	19:20	BE	CTD		48°45.415	123°34.069	80m	70m	-		LT	☐	
021	↓	10	19:25	BE	NET		48°45.415	123°34.069	80m	50m	-		LT	☐	
			:				°	°			-			☐	
022	SET 10	10	20:19	BE	SET		48°43.965	123°31.604	58m		-		LT	☐	
			:				°	°			-			☐	
023	SET 11	10	21:23	BE	SET		48°45.292	123°36.071	30m		-		LT	☐	
024	↓	10	22:41	BE	CTD		48°45.193	123°35.999	52	40	-		LT	☐	
025	↓	10	22:46	BE	NET		48°45.193	123°35.999	52	40	-		LT	☐	END OF DAY

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Bottle Firing Method:

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UN = Up / No stop
DN = Down / No stop

Time Code:

BE = Beginning Time of Cast
BO = Bottom Time of Cast
EN = End Time of Cast
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

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

Notes:

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 20 April 2016

FM START 9920
FM END 10212

FM START 10212
FM END 10470

FM START
FM END

← Large jump in #'s for Flowmeter as it is also used in 2017-25 (BQR-PS) survey (SOG 2017-03)

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Month <u>JUNE</u>			Year <u>2017</u>			Vessel <u>OCEAN VENTURE</u>			Cruise ID <u>2017-24, SOG 2017-01</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
026	SET 12	08	14:34	BE	SET		48°45.493	123°36.797	41m		-		LT	☐	
027	↓	08	16:17	BE	CTD		48°45.417	123°36.810	44m	40m	-		LT	☐	
028	↓	08	16:22	BE	NET		48°45.417	123°36.810	44m	40m	-		LT	☐	
			:				°	°			-			☐	
029	SET 13	08	18:11	BE	SET		48°44.046	123°31.673	58m		-		LT	☐	
030	↓	08	19:29	BE	CTD		48°43.990	123°31.677	59m	50m	-		LT	☐	
031	↓	08	19:34	BE	NET		48°43.990	123°31.677	59m	50m	-		LT	☐	
			:				°	°			-			☐	
032	SET 14	08	20:18	BE	SET		48°44.475	123°34.849	63m		-		LT	☐	
033	↓	08	21:16	BE	CTD		48°44.383	123°34.878	60m	50m	-		LT	☐	
034	↓	08	21:21	BE	NET		48°44.383	123°34.878	60m	50m	-		LT	☐	
			:				°	°			-			☐	
035	SET 15	08	21:57	BE	SET		48°44.523	123°36.053	51m		-		LT	☐	
			:				°	°			-			☐	
← END OF DAY: →							°	°			-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	

Event Type:

BOT = Bottle cast (no CTD)
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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: 20 April 2016

Notes:

FM START 2335
FM END 2465

FM START 2465
FM END 2778

*NOTE : Event 034 (NET) is a double vertical
BONGO (FM Serial # 6069)

FM START 41005
FM END 41403

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Month <u>JUNE</u>				Year <u>2017</u>			Vessel <u>OCEAN VENTURE</u>			Cruise ID <u>2017-24; SOG 2017-01</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Tms/FI Cleaned	Comments
036	SET 16	09	14:23	BE	SET		48°44.981	123°36.716	52m		-		LT	☐	
037	↓	09	15:19	BE	CTD		48°44.954	123°36.689	53m	40m	-		LT	☐	
038	↓	09	15:24	BE	NET		48°44.954	123°36.689	53m	40m	-		LT	☐	
			:				°	°			-			☐	
039	SET 17	09	16:52	BE	SET		48°45.069	123°35.088	33m	-	-		LT	☐	
			:				°	°			-			☐	
040	SET 18	09	17:35	BE	SET		48°43.234	123°32.729	57m		-		LT	☐	
041	↓	09	18:26	BE	CTD		48°43.139	123°32.701	50m	40m	-		LT	☐	
042	↓	09	18:31	BE	NET		48°43.139	123°32.701	50m	40m	-		LT	☐	
			:				°	°			-			☐	
043	SET 19	09	19:02	BE	SET		48°45.470	123°34.166	83m		-		LT	☐	
044	↓	09	20:48	BE	CTD		48°45.473	123°34.144	81m	60m	-		LT	☐	
045	↓	09	20:53	BE	NET		48°45.473	123°34.144	81m	50m	-		LT	☐	
			:				°	°			-			☐	
046	SET 20	09	21:30	BE	SET		48°44.383	123°34.108	88m		-		LT	☐	
			:				°	°			-			☐	
047	SET 21	09	22:31	BE	SET		48°44.778	123°35.627	59m		-		LT	☐	
048	↓	09	23:41	BE	CTD		48°44.694	123°35.529	60m	50m	-		LT	☐	
049	↓	09	23:46	BE	NET		48°44.694	123°35.529	60m	50m	-		LT	☐	END OF DAY

Event Type:

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

LOOP = Sea Water Loop

MOR = Mooring
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DRF = Drifter
=

Bottle Firing Method:

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

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

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Version: 20 April 2016

Notes:

Event 038 (NET) is a double vertical bongo (serial #6069) FM Start 41403
FM END 41780

FM START 2778
FM END 3035
* NOTE : Sample pr broken - only 25% left
* ~~DO NOT USE~~ *

FM START 3035
FM END 3613

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Month JUNE			Year 2017			Vessel OCEAN VEN			Cruise ID IOS 2017-24; SOG 2017-01						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Tms/FI Cleaned	Comments
050	SET 22	19	13:39	BE	SET		48° 45.50	123° 36.742	39m		-			☐	
051	23	19	16:04				48° 45.521	123° 36.800	38m		-			☐	
052	24	19	17:36				48° 45.499	123° 36.737	38m		-			☐	
053	25	19	18:57				48° 45.524	123° 36.804	37m		-			☐	
054	26	19	20:37				48° 45.484	123° 36.696	40m		-			☐	
055	27	19	21:36				48° 45.305	123° 36.237	36m		-			☐	END OF DAY
056	28	19	22:39				48° 45.304	123° 36.322	28m		-			☐	
057	29	20	13:26				48° 45.501	123° 36.741	39m		-			☐	
058	30	20	15:58				48° 45.510	123° 36.715	36m		-			☐	
059	31	20	17:46				48° 45.533	123° 36.785	31m		-			☐	
060	32	20	18:58				48° 45.310	123° 36.342	23m		-			☐	
061	33	20	20:30				48° 45.513	123° 36.746	37m		-			☐	
062	34	20	21:58				48° 45.032	123° 36.678	54m		-			☐	
063	35	20	22:42				48° 45.481	123° 36.708	41m		-			☐	END OF DAY
064	36	21	13:34				48° 45.510	123° 36.770	37m		-			☐	
065	37	21	15:08				48° 45.510	123° 36.742	29m		-			☐	
066	38	21	16:15				48° 45.521	123° 36.788	37m		-			☐	
067	39	21	19:01				48° 45.419	123° 36.579	22m		-			☐	
068	✓ 40	21	20:13	✓	✓		48° 45.424	123° 36.566	25m		-			☐	

Event Type:

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LOOP = Sea Water Loop

MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter
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Bottle Firing Method:

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

Notes:

Time Code:

BE = Beginning Time of Cast
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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Events 50-76 (sets 22-48) are PIT TAGGING SETS - NO BIO samples collected, NO
CONDUCTED BY KEVIN PELLETT (DFO) AND BCCF CTD or BONGOS associated
STAFF OVER
A 4-DAY PERIOD
IN COWICHAN BAY

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Month JUNE				Year 2017			Vessel OCEAN VENTURE			Cruise ID IOS 2017-24; SOG 2017-01					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
069	SET 41	21	21:38	BE	SET		48° 45.388	123° 36.509	34m		-			☐ ☐	
070	42	21	22:46				48° 45.428	123° 36.572	22m		-			☐ ☐	END OF DAY
071	43	22	13:34				48° 45.527	123° 36.755	28m		-			☐ ☐	
072	44	22	15:11				48° 45.534	123° 36.776	31m		-			☐ ☐	
073	45	22	16:09				48° 45.467	123° 36.668	31m		-			☐ ☐	
074	46	22	17:22				48° 45.483	123° 36.685	26m		-			☐ ☐	
075	47	22	19:26				48° 45.426	123° 36.563	19m		-			☐ ☐	
076	48	22	20:29	✓	✓		48° 45.408	123° 36.549	38m		-			☐ ☐	END OF DAY
← END OF DAY →							°	°			-			☐ ☐	
			°				°	°			-			☐ ☐	
			°				°	°			-			☐ ☐	
			°				°	°			-			☐ ☐	
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			°				°	°			-			☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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Version: 20 April 2016

Notes:

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Month <u>JULY</u>			Year <u>2017</u>			Vessel <u>OCEAN VENTURE</u>			Cruise ID <u>IOS 2017-24; SOG-2017-01</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
077	SET 49	04	14:38	BE	SET		48°45.350	123°36.688	51m		-		LT	☐	
078	↓	04	15:33	BE	CTD		48°44.991	123°36.634	52m	50m	-		LT	☐	
079	↓	04	15:38	BE	NET		48°44.991	123°36.634	52m	45m	-		LT	☐	
			:				°	°			-			☐	
080	SET 50	04	16:35	BE	SET		48°45.093	123°35.240	35m		-		LT	☐	
			:				°	°			-			☐	
081	SET 51	04	18:15	BE	SET		48°44.545	123°33.784	100m		-		LT	☐	
082	↓	04	19:21	BE	CTD		48°44.482	123°33.602	106m	100m	-		LT	☐	
083	↓	04	19:26	BE	NET		48°44.482	123°33.602	106m	50m	-		LT	☐	
			:				°	°			-			☐	
084	SET 52	04	20:10	BE	SET		48°43.246	123°33.339	44m		-		LT	☐	
085	↓	04	20:51	BE	CTD		48°43.273	123°33.322	46m	40m	-		LT	☐	
086	↓	04	20:56	BE	NET		48°43.273	123°33.322	46m	40m	-		LT	☐	
			:				°	°			-			☐	
087	SET 53	04	21:29	BE	SET		48°44.441	123°34.888	66m		-		LT	☐	
088	↓	04	22:16	BE	CTD		48°44.415	123°34.916	65m	60m	-		LT	☐	
089	↓	04	22:21	BE	NET		48°44.415	123°34.916	65m	50m	-		LT	☐	
			:				°	°			-			☐	
090	SET 54	04	22:44	BE	SET		48°44.511	123°36.023	52m		-		LT	☐	END OF DAY

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:

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 20 April 2016

FM START 5538
FM END 5760

FM START 5760
FM END 6062

FM START 6062
FM END 6362

FM START 6362
FM END 6665

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month JULY				Year 2017			Vessel OCEAN VENTURE			Cruise ID IOS 2017-24; SOG 2017-01					
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
091	SET 55	05	14:38	BE	SET		48°45.387	123°36.497	29m		-		LT	☐ ☐	
092	↓	05	15:26	BE	CTD		48°45.372	123°36.539	47m	40m	-		LT	☐ ☐	
093	↓	05	15:31	BE	NET		48°45.372	123°36.539	47m	40m	-		LT	☐ ☐	
			:				°	°			-			☐ ☐	
094	SET 56	05	16:21	BE	SET		48°45.455	123°34.100	86m		-		LT	☐ ☐	
095	↓	05	17:18	BE	CTD		48°45.434	123°34.067	83m	70m	-		LT	☐ ☐	
096	↓	05	17:23	BE	NET		48°45.434	123°34.067	83m	50m	-		LT	☐ ☐	
			:				°	°			-			☐ ☐	
097	SET 57	05	17:58	BE	SET		48°44.056	123°31.719	61m		-		LT	☐ ☐	
098	↓	05	18:55	BE	CTD		48°43.992	123°31.761	61m	60m	-		LT	☐ ☐	
099	↓	05	19:00	BE	NET		48°43.992	123°31.761	61m	50m	-		LT	☐ ☐	
			:				°	°			-			☐ ☐	
100	SET 58	05	19:49	BE	SET		48°44.767	123°35.571	61m		-		LT	☐ ☐	
101	↓	05	20:30	BE	CTD		48°44.718	123°35.546	59m	50m	-		LT	☐ ☐	
102	↓	05	20:35	BE	NET		48°44.718	123°35.546	59m	50m	-		LT	☐ ☐	
			:				°	°			-			☐ ☐	
103	SET 59	05	21:11	BE	SET		48°45.000	123°36.637	53m		-		LT	☐ ☐	
			:				°	°			-			☐ ☐	
104	SET 60	05	22:02	BE	SET		48°44.671	123°36.638	48m		-		LT	☐ ☐	END OF DAY -

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:

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 20 April 2016

FM START 6665
FM END 6872

FM START 6872
FM END 7142

FM START 7142
FM END 7498

FM START 7498
FM END 7778

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Month AUGUST			Year 2017			Vessel OCEAN VENTURE			Cruise ID SOG-2017-01; IOS 2017-24						
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							
105	SET 61	23	14:22	BE	SET		48°44.999	123°36.666	54.4m		-		LT	☐	
106	↓	23	14:59	BE	CTD		48°45.006	123°36.671	53m	50m	-		LT	☐	
107	↓	23	15:04	BE	NET		48°45.000	123°36.671	53m	50m	-		LT	☐	
			:				°	°			-			☐	
108	SET 62	23	15:20	BE	SET		48°44.962	123°36.612	54.6m		-		LT	☐	
			:				°	°			-			☐	
109	SET 63	23	16:08	BE	SET		48°45.066	123°35.170	40m		-		LT	☐	
			:				°	°			-			☐	
110	SET 64	23	16:47	BE	SET		48°44.450	123°34.839	65m		-		LT	☐	
111	↓	23	17:19	BE	CTD		48°44.402	123°34.823	65m	50m	-		LT	☐	
112	↓	23	17:24	BE	NET		48°44.402	123°34.823	65m	50m	-		LT	☐	
			:				°	°			-			☐	
113	SET 65	23	17:53	BE	SET		48°44.161	123°32.010	63m		-		LT	☐	
114	↓	23	18:26	BE	CTD		48°44.070	123°32.035	63m	50m	-		LT	☐	
115	↓	23	18:31	BE	NET		48°44.070	123°32.035	63m	50m	-		LT	☐	
			:				°	°			-			☐	
116	SET 66	23	19:00	BE	SET		48°45.195	123°33.698	73m		-		LT	☐	
117	↓	23	19:37	BE	CTD		48°45.199	123°33.675	73m	60m	-		LT	☐	
118	↓	23	19:42	BE	NET		48°45.199	123°33.675	73m	50m	-		LT	☐	

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
BO = Bottom Time of Cast
EN = End Time of Cast
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 20 April 2016

FM START 11805
FM END 12065

FM START 12065
FM END 12385

FM START 12385
FM END 12705

FM START 12705
FM END 12980

DAILY SCIENCE LOG

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Month AUGUST				Year 2017			Vessel OCEAN VENTURE			Cruise ID 2017-24 (SOG 2017-01)						
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/Fl Cleaned	Comments	
							Latitude	Longitude								
119	SET 67	23	20:16	BE	SET		48°44.168	123°33.470	69m		-		LT	☐		
			:				.	.			-			☐		
120	SET 68	23	21:03	BE	SET		48°44.795	123°35.609	58m		-		LT	☐		
121	↓	23	21:43	BE	CTD		48°44.717	123°35.530	59m	50m	-		LT	☐		
122	↓	23	21:48	BE	NET		48°44.717	123°35.530	59m	50m	-		LT	☐		
			:				.	.			-			☐		
123	SET 69	23	22:14	BE	SET		48°45.368	123°36.507	44m		-		LT	☐		
			:				.	.			-			☐		
			:				.	.			-			☐		
← END OF DAY →							.	.			-			☐		
			:				.	.			-			☐		
124	SET 70	24	14:03	BE	SET		48°45.012	123°36.615	55m		-		LT	☐		
125	↓	24	14:40	BE	CTD		48°45.012	123°36.629	55m	50m	-		LT	☐		
126	↓	24	14:45	BE	NET		48°45.012	123°36.629	55m	50m	-		LT	☐		
			:				.	.			-			☐		
127	SET 71	24	15:18	BE	SET		48°44.471	123°34.939	66m		-		LT	☐		
128	↓	24	15:52	BE	CTD		48°44.458	123°34.941	66m	60m	-		LT	☐		
129	↓	24	15:57	BE	NET		48°44.458	123°34.941	66m	50m	-		LT	☐		
			:				.	.			-			☐		
			:				.	.			-			☐		

Event Type:

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

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MOR = Mooring
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DRF = Drifter

Bottle Firing Method:

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DN = Down / No stop

Time Code:

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BO = Bottom Time of Cast
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DE = Deployment Time
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RE = Recover Mooring Time

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 20 April 2016

Notes:

FM START 12980
FM END 13337

FM START 13337
FM END 13678

FM START 13678
FM END 14038

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month AUGUST			Year 2017			Vessel OCEAN VENTURE			Cruise ID 2017-24 (SOG; 2017-01)						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
130	SET 72	24	17:01	BE	SET		48°49.197	123°35.462	73m		-		LT	☐ ☐	
131		24	17:37	BE	CTD		48°49.197	123°35.462	100m	90m	-		LT	☐ ☐	
132	✓	24	17:42	BE	NET		48°49.197	123°35.462	100m	50m	-		LT	☐ ☐	
			:				°	°			-			☐ ☐	
133	SET 73	24	18:09	BE	SET		48°48.549	123°36.261	39m		-		LT	☐ ☐	
134		24	18:42	BE	CTD		48°48.603	123°36.132	62m	50m	-		LT	☐ ☐	
135	✓	24	18:47	BE	NET		48°48.603	123°36.132	62m	50m	-		LT	☐ ☐	
			:				°	°			-			☐ ☐	
136	SET 74	24	20:17	BE	SET		48°45.619	123°35.536	52m		-		LT	☐ ☐	
137		24	20:50	BE	CTD		48°45.662	123°34.474	71m	60m	-		LT	☐ ☐	
138	✓	24	20:55	BE	NET		48°45.662	123°34.474	71m	50m	-		LT	☐ ☐	
			:				°	°			-			☐ ☐	
139	SET 75	24	21:36	BE	SET		48°44.546	123°36.081	51m		-		LT	☐ ☐	
140	✓	24	22:12	BE	CTD		48°44.491	123°36.025	51m	45m	-		LT	☐ ☐	
			:				°	°			-			☐ ☐	
	← END OF DAY →						°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

Event Type:
 BOT = Bottle cast (no CTD)
 CTD = Standalone CTD
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Bottle Firing Method:
 US = Up / Stop (default)
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Time Code:
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products
 Produced by the Water Properties Group, IOS
 WaterProperties.ca
 Version: 20 April 2016

FM START 14038
FM END 14345

FM START 14345
FM END 14665

FM START 14665
FM END 14978