

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

SOG 2017-03
IOS 2017-25

DATE:

From: MAY 2017 To: July 2017

VESSEL:

OCEAN VENTURE

PROJECT(S):

JUV. SALMON SOG PROJECT
BQR-PS : 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: 0456 ^{2553726 - Bongo} Fluorometer ^{Serial # 7182}

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-rosette casts (e.g., W.E. Ricker)

Scientific Equipment Used During Cruise

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

Other CTD units:

RBR Serial Number: _____ Sensors: _____

Others:

Plankton Nets:

Bongo #1 Frame Size: _____ cm Mesh: _____ μ m Flowmeter: _____

Bongo #2 Frame Size: _____ cm Mesh: _____ μ m Flowmeter: _____

Frame Size: _____ cm Mesh: _____ μ m Flowmeter: _____

Multinet ☐ BIONESS ☐ Neuston ☐ Others: _____

Trawl Gear:

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

Bottom Trawls: Atlantic Western I/A ☐ Yankee 36 Hard & Soft Bottom ☐ Other: _____

American Shrimp Trawl ☐

Notes:

Trawl Doors: USA Jet ☐ Tyburon ☐ _____

Sounders : Wesmar 380 ☐ Others: _____

Acoustics:

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

Others: _____

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

Others: _____

Software & Notes:

Other Gear in Operation:

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

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 1 of 6

Month <u>JUNE</u>			Year <u>2017</u>			Vessel <u>OCEAN VENTURE</u>			Cruise ID <u>2017-25 (5062017-03)</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
							Latitude	Longitude							
01	SET 1	05	14:37	BE	SET		49°21.819	124°27.092	44m		-		CN	☐ ☐	
02	↓	05	15:40	BE	CTD		49°21.817	124°24.040	44m	40m	-		CN	☐ ☐	
03	↓	05	15:45	BE	NET		49°21.817	124°24.040	44m	40m	-		CN	☐ ☐	FM ST 718 EN 970
			:				°	°			-			☐ ☐	
04	SET 2	05	16:48	BE	SET		49°23.496	124°34.745	22m		-		CN	☐ ☐	
			:				°	°			-			☐ ☐	
05	SET 3	05	18:50	BE	SET		49°24.660	124°35.407	40m		-		CN	☐ ☐	
06	↓	05	20:07	BE	CTD		49°24.737	124°35.372	46m	40m	-		CN	☐ ☐	
07	↓	05	20:12	BE	NET		49°24.737	124°35.372	46m	40m	-		CN	☐ ☐	FM ST 970 EN 1168
			:				°	°			-			☐ ☐	
08	SET 4	05	20:52	BE	SET		49°25.755	124°37.719	40m		-		CN	☐ ☐	
09	↓	05	21:50	BE	CTD		49°25.791	124°37.670	35m	30m	-		CN	☐ ☐	
010	↓	05	21:55	BE	NET		49°25.791	124°37.670	35m	30m	-		CN	☐ ☐	FM ST 1168 EN 1300
			:				°	°			-			☐ ☐	
011	SET 5	05	22:21	BE	SET		49°25.539	124°36.414	60m		-		CN	☐ ☐	
012	↓	05	23:14	BE	CTD		49°25.588	124°36.396	62m	55m	-		CN	☐ ☐	
013	↓	05	23:19	BE	NET		49°25.588	124°36.396	62m	50m	-		CN	☐ ☐	FM ST 1300 EN 1576
			:				°	°			-			☐ ☐	
←	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

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: 14 February 2013

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 2 of 6

Month <u>JUNE</u>			Year <u>2017</u>			Vessel <u>OCEAN VENTURE</u>			Cruise ID <u>2017-25; SOG 2017-03</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
014	SET 6	06	14:34	BE	SET		49°22.509	124°33.857	59m		-		LT	☐ ☐	
015		06	15:31	BE	CTD		49°22.458	124°30.771	34m	25m	-		LT	☐ ☐	
016	↓	06	15:36	BE	NET		49°22.458	124°30.771	34m	25m	-		LT	☐ ☐	FM ST 1576 EN 1662
			:				°	°			-			☐ ☐	
017	SET 7	06	16:13	BE	SET		49°24.042	124°33.857	59m		-		LT	☐ ☐	
018		06	17:07	BE	CTD		49°23.982	124°33.885	56	50m	-		LT	☐ ☐	
019	↓	06	17:12	BE	NET		49°23.982	124°33.885	56	50m	-		LT	☐ ☐	FM ST 1662 EN 1886
			:				°	°			-			☐ ☐	
020	SET 8	06	17:42	BE	SET		49°24.500	124°35.762	19m		-		LT	☐ ☐	
			:				°	°			-			☐ ☐	
021	SET 9	06	19:35	BE	SET		49°25.277	124°36.850	40m		-		LT	☐ ☐	
			:				°	°			-			☐ ☐	
022	SET 10	06	21:14	BE	SET		49°24.886	124°35.106	61m		-		LT	☐ ☐	
023		06	21:58	BE	CTD		49°24.918	124°35.061	65m	60m	-		LT	☐ ☐	
024	↓	06	22:03	BE	NET		49°24.918	124°35.061	65m	50m	-		LT	☐ ☐	FM ST 1886 EN 2170
			:				°	°			-			☐ ☐	
025	SET 11	06	22:24	BE	SET		49°23.728	124°34.388	41m		-		LT	☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

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: 14 February 2013

Page 3 of 6

WaterProperties.ca
Version: 14 February 2013

CTD# 456

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 4 of 6

Month JULY			Year 2017			Vessel Ocean Venture			Cruise ID 2017-25 (SOG 2017-03)						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
29	SET 13	17	16:38	BE	SET		49° 22.573	124° 30.573	61.3m		-		CN	☐ ☐	
30	↓	17	17:27	BE	CTD		49° 22.629	124° 30.569	65.7m	65	-		CN	☐ ☐	CTD ONLY
	↓		:		NET		°	°			-			☐ ☐	
31	Set 14	17	18:02	BE	SET		49° 23.709	124° 34.395	40m		-		CN	☐ ☐	
			:				°	°			-			☐ ☐	
32	Set 15	17	19:05	BE	SET		49° 24.579	124° 35.792	20m		-		CN	☐ ☐	
			:				°	°			-			☐ ☐	
33	SET 16	17	20:24	BE	SET		49° 25.268	124° 36.869	40m		-		CN	☐ ☐	
34	↓	17	21:05		CTD		49° 25.295	124° 36.828	42.3m	40m	-		CN	☐ ☐	CTD ONLY
			:				°	°			-			☐ ☐	
35	SET 17	17	21:28	BE	SET		49° 26.110	124° 37.287	60m		-		CN	☐ ☐	
36	↓	17	22:05	BE	CTD		49° 26.191	124° 37.305	63.2m	60m	-		CN	☐ ☐	CTD ONLY
	END OF DAY:						°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
37	SET 18	17	22:29		SET		49° 24.864	124° 35.211	60m		-		CN	☐ ☐	
38	↓	17	23:09		CTD		49° 24.921	124° 35.078	64.6m	60m	-		CN	☐ ☐	CTD ONLY
39	↓		:		NET		°	°			-			☐ ☐	
	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

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: 14 February 2013

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 5 of 6

Month <u>JULY</u>			Year <u>2017</u>			Vessel <u>Ocean Navigator</u>			Cruise ID <u>2017-25 (SOG 2017-03)</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
39	SET 19	18	14:43	BE	SET		49° 21.960	124° 26.654	60m		-		CN	☐ ☐	
40	↓	18	15:25	BE	CTD		49° 22.046	124° 26.609	67m	60m	-		CN	☐ ☐	
41	↓	18	15:30	BE	NET		49° 22.046	124° 26.609	67m	50m	-		CN	☐ ☐	FMST 09805 EN 10128
			:				°	°			-			☐ ☐	
42	SET 20	18	16:14	BE	SET		49° 22.464	124° 30.729	40m		-		CN	☐ ☐	
43	↓	18	17:11	BE	CTD		49° 22.509	124° 30.737	46m	40m	-		CN	☐ ☐	
44	↓	18	17:16	BE	NET		49° 22.509	124° 30.737	46m	40m	-		CN	☐ ☐	FMST 10128 EN 10418
			:				°	°			-			☐ ☐	
45	SET 21	18	17:47	BE	SET		49° 23.443	124° 34.633	20m		-		CN	☐ ☐	
			:				°	°			-			☐ ☐	
46	SET 22	18	18:46	BE	SET		49° 24.679	124° 35.459	40m		-		CN	☐ ☐	
			:				°	°			-			☐ ☐	
47	SET 23	18	19:43	BE	SET		49° 25.568	124° 36.390	60m		-		CN	☐ ☐	
48	↓	18	20:23	BE	CTD		49° 25.672	124° 36.354	66m	60m	-		CN	☐ ☐	
49	↓	18	20:28	BE	NET		49° 25.672	124° 36.354	66m	50m	-		CN	☐ ☐	FMST 10418 EN 10689
			:				°	°			-			☐ ☐	
50	SET 24	18	21:05	BE	SET		49° 24.972	124° 34.801	60m		-		CN	☐ ☐	
51	↓	18	21:40	BE	CTD		49° 25.024	124° 34.748	85m	80m	-		CN	☐ ☐	
52	↓	18	21:45	BE	NET		49° 25.024	124° 34.748	85m	60m	-		CN	☐ ☐	FMST 10689 EN 11120 ANGLE 30°

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: 14 February 2013

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 6 of 6

Month <u>July</u>				Year <u>2017</u>			Vessel <u>Ocean Venture</u>			Cruise ID <u>2017-25 (SOG 2017-03)</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
53	Sot 25	18	22:06	BE	SET		49° 24.043	124° 33.881	607m		-		CN	☐ ☐	
54	↓	18	22:49	BE	CTD		49° 24.097	124° 33.770	66m	60m	-		CN	☐ ☐	
55	↓	18	22:54	BE	NET		49° 24.097	124° 33.770	66m	50m	-		CN	☐ ☐	FM ST 11135 EN 11448
			:				°	°			-			☐ ☐	
56	↓	18	23:43	BE	CTD		49° 22.714	124° 30.250	77m	70m	-		CN	☐ ☐	ON LQR LINE
57	↓	18	23:48	BE	NET		49° 22.714	124° 30.250	77m	50m	-		CN	☐ ☐	ON LQR LINE FM ST 11448 EN 11798
			:				°	°			-			☐ ☐	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

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: 14 February 2013