

DAILY SCIENCE LOG BOOK

CRUISE
NUMBER

2017-07

DATE:

From: 6 Mar 2017

To:

VESSEL:

Salacia

PROJECT(S):

Strait of Georgia Zooplankton

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: #32

Data acquisition program: Seasave

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

Primary CTD Cruise #1

Make: ~~SBE-2~~ model: 25+ serial number: 1123

Primary temperature serial number: 4888

Primary conductivity serial number: 4513

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model ECO Cable gain: 13 s/n: 2214 P, S or NO pump?

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

Oxygen sensor: SBE Model: 43 s/n: 3234 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)

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 1 of

Month			March		Year		2017		Vessel		Salacia		Cruise ID				2017-07	
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			
1	CBE2	6	12:50	BE	CTD		48° 44.219	123° 34.411	65		-		KY	☐ ☐	overcast +			
			12:52	BO			48° 44.213	123° 34.394		55	-			☐ ☐	Snowing.			
			:				° .	° .			-			☐ ☐				
2	CBE2	6	12:57	BE	NET		48° 44.178	123° 34.336	65		-			☐ ☐				
			12:58	BO			48° 44.168	123° 34.323		55	-			☐ ☐				
			13:00	EN			48° 44.162	123° 34.318			-			☐ ☐				
			:				° .	° .			-			☐ ☐				
3	41	6	16:07	BE	CTD		49° 3.345	123° 22.372	245		1-	1		☐ ☒	Dall's porpoises			
			16:12	BO	(+1:20MR)		49° 3.332	123° 22.375		235	-			☐ ☐	3 minute start			
			:	EN			49° 3.	123° 22.			-			☐ ☐				
4	41	6	16:27	MR	BOT		49° 3.313	123° 22.494			2-3	2		☐ ☐	2=0m 140ml 3=5m			
5	41	6	16:34	BE	NET		49° 3.290	123° 22.298	245		-			☐ ☐	+ phyto on			
			16:40	BO			49° 3.260	123° 22.291		235	-			☐ ☐				
			16:45	EN			49° 3.233	123° 22.271			-			☐ ☐				
			:				° .	° .			-			☐ ☐				
- Headed to Silva Bay, tied up			18:20				20° .	° .			-			☐ ☐				
			:				° .	° .			-			☐ ☐				
			:				° .	° .			-			☐ ☐				
			:				° .	° .			-			☐ ☐				

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

CTD laptop time UTC, off by +6 minutes. for 1st 2 cast uploads. Corrected after 6 March

This page is for any notes or observations

2 minute soak for CTD. Depth (bottom) not measured, taken from plan

file: 2017-03-06T04719 SBE0251123.xml

renamed 2017-07-0001 on USB for transfer

Niskin 2m above for SAL

file: 2017-03-07T000328 SBE0251123.xml

↳ 2017-07-0003

5m spigot open

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Month			March			local			Year			2017			Vessel			Salacia			Cruise ID			2017-07		
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/Fl Cleaned	Comments											
	—	7	:		Weather morning			20°-30°N	Headed to Nanaimo					☐												
			:		stayed in Nanaimo			Gale warnings			-			☐												
			:					.			-			☐												
6	GEO1	8	07:47	BE	CTD		49°15.012	123°44.901	400	390	4 -	1	KY	☐	deep SAL 1m above											
			07:57	MR	BOT		49°15.082	123°44.855		389	-			☐	47-10											
			08:06	EN	CTD		°15.141	°44.777			-			☐												
			:				.	.			-			☐												
7	GEO1	8	08:11	BE	NET		49°15.013	123°45.011	400		-			☐												
			08:19	BO			49°15.057	123°44.972		390	-			☐												
7	GEO1	8	08:28	EN			49°15.078	123°44.922			-			☐												
			:				.	.			-			☐												
8	GEO1	8	08:40	MR	BOT		49°15.232	123°44.963			5 - 6	2		☐	5 = 0m 120ml											
			:				.	.			-			☐	6 = 5m 140ml + phyto 0m											
9	38	8	10:07	BE	CTD		49°12.017	123°26.312	300		-			☐												
			10:13	BO			49°12.071	123°26.327		290	-			☐												
			10:20	EN			49°12.16	123°26.36			-			☐												
10	38	8	10:23	BE	NET		49°12.000	123°26.451	300		-			☐												
			10:29	BO			49°12.060	123°26.460		290	-			☐												
			10:36	EN			49°12.101	123°26.470			-			☐												

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Notes: _____

2017-03-08†154650 SBE0251123.xml
renamed 2017-07-0006

2017-03-08T180625 SBE.....

2017-07-0009

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Month <u>March</u>			Year <u>2017</u>		Vessel <u>Salacia</u>		Cruise ID <u>2017-07</u>									
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments	
11	40	8	11:36	BE	CTD		49° 8.628	123° 36.837	146		-		KY	☐	☐	
			11:40	BO			49° 8.691	123° 36.861		136	-			☐	☐	
			11:43	EN			49° 8.758	123° 36.899		-		☐		☐		
12	40	8	11:48	BE	NET		49° 8.632	123° 36.866	146		-			☐	☐	some swell
			11:52	BO			49° 8.683	123° 36.867		136	-		☐	☐		
			11:55	EN			49° 8.718	123° 36.867		-		☐	☐			
13	46	8	14:51	BE	CTD		48° 51.448	123° 10.755	176		-			☐	☐	
			14:57	BO			48° 51.431	123° 10.665		166	-		☐	☐		
			15:00	EN			48° 51.426	123° 10.633		-		☐	☐			
14	46	8	15:04	BE	NET		48° 51.435	123° 10.833	176		-			☐	☐	
			15:08	BO			48° 51.414	123° 10.792		166	-		☐	☐		
			:12	EN			° . 413	° . 760		-		☐	☐			
— end of day; overnight @ Browning Harbour. Pender —																
15	59	9	09:34	BE	CTD		48° 36.984	123° 14.995	225		-			☐	☐	
			09:40	BO			48° 36.977	123° 14.971		215	-		☐	☐		
			09:44	EN			° . 962	° . 960		-		☐	☐			

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This page is for any notes or observations

2017-03-08T193517 SBE0251123.xml

2017-07-0011

2017-03-08T225034 ...

2017-07-0013

2017-03-09T173401 ...

2017-07-0015.

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Month <u>March</u> <u>local</u>			Year <u>2017</u>		Vessel <u>Salacia</u>		Cruise ID <u>2017-07</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/Fl Cleaned	Comments
							Latitude	Longitude							
16	59	9	09:47	BE	NET		48° 36.953	123° 14.962	225		-		KY	☐	
			09:51	BO			48° 36.954	123° 14.975		215	-			☐	
			09:55	EN			48° 36.944	123° 14.964			-			☐	
			:				.	.			-			☐	
17	GI-01	9	11:19	BE	CTD		48° 45.882	123° 20.561	65		-			☐	
			11:22	BO			48° 45.870	123° 20.550		55	-			☐	
			11:23	EN			48° 45.865	123° 20.545			-			☐	
18	GI-01	9	11:25	BE	NET		48° 45.844	123° 20.534	65		-			☐	
			11:26	BO			48° 45.837	123° 20.540		55	-			☐	
			11:28	EN			48° 45.838	123° 20.546			-			☐	
			:				.	.			-			☐	
19	SC-04	9	12:05	BE	CTD		48° 43.497	123° 24.977	90		-			☐	
			12:09	BO			48° 43.462	123° 24.982		80	-			☐	
			12:10	EN			48° 43.451	123° 24.992			-			☐	
20	SC-04	9	12:13	BE	NET		48° 43.431	123° 25.003	90		-			☐	
			12:15	BO			48° 43.419	123° 24.996		80	-			☐	
			12:16	EN			48° 43.414	123° 25.005			-			☐	
21	SC-04	9	12:36	MR	BOT		48° 43.476	123° 24.980	90	5	7-8	2		☐	9 100ml 7-0m + phyto
			:				.	.			-			☐	8-5m to 140m

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2017-03-09T191900 SBE...

2017-07-0017



2017-03-09T200444 ...

2017-07-0019