

DAILY SCIENCE LOG BOOK

CRUISE
NUMBER

2017-07

DATE:

5-9 June 2017 leg#3

VESSEL:

Salacia

PROJECT(S):

Strait of Georgia zooplankton

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

WaterProperties.ca

Captain: John Plant

Second Officer: _____

Fishing Master: _____

First Officer: _____

Third Officer: _____

Chief Engineer: _____

Mission Participants / Agencies:

85F

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

1st Leg Scientific Personnel:

Chief Scientist:

Kelly Young

Name

Watch

Cabin

Name

Watch Cabin

6-10 Mar: Kelly deck: Kristoff Mantta

20-24 May: Mark Bolton deck: Jordan Barca

5-9 June: Tamara Fraser deck:

2nd Leg Scientific Personnel:

Chief Scientist:

Name

Watch

Cabin

Name

Watch Cabin

Downloaded from <http://ajphaphysocpharm.sagepub.com/> at 11:06 11 September 2014

**** 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+2 6-10 Mar, 20-24 Mar

Make: SBE ~~200~~+ 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 # 3-5-9 June

Make: SBE model: 25+ serial number: 1123

Primary temperature serial number: 4888

Primary conductivity serial number: 3396

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?

CTD calibration bottle location (height above CTD in metres): 1.2 m (see notes)

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

DAILY SCIENCE LOG

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Month			Year			Vessel			Cruise ID						
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
55	CBE 2	26	10:51	BE	NET	-	48° 44.27	123° 34.55	65		-	-	MB	☐ ☐	
			10:52	BO			48° 44.28	123° 34.55		55	-			☐ ☐	
			10:53	EN			48° 44.28	123° 34.56			-			☐ ☐	
	end of charter # 2						.	.			-			☐ ☐	
56	46	05	09:50	BE	CTD	US	48° 43.865	123° 25.000	176		-	-	TF	☐ ☐	do not use this location - use BO
			09:54	BO			48° 51.431	123° 10.840		166	-			☐ ☐	only get surface data in - xml file!
			09:57	EN			48° 51.438	123° 10.847			-			☐ ☐	
57	46	05	10:14	BE	NET	-	49° 10.432	123° 19.476			-			☐ ☐	
			10:19	BO			48° 51.407	123° 10.821		166	-	-	TF	☐ ☐	
			:	EN			.	.			-			☐ ☐	
58	41	08	12:29	BE	CTD	US	49° 03.344	123° 22.284	245		-		TF	☐ ☐	
			12:35	BO			49° 03.403	123° 22.350		235	-			☐ ☐	
			12:41	EN			49° 03.453	123° 22.40			-			☐ ☐	
59	41	05	12:48	BE	NET	-	49° 03.294	123° 22.274			-		TF	☐ ☐	
			12:55	BO			49° 03.347	123° 22.316		235	-			☐ ☐	4m
			:	EN			.	.			-			☐ ☐	
60	41	05	13:31	MR	BOT		49° 03.407	123° 22.400	245	245	21 - 22		TF	☐ ☐	CAL on 4/5/10 CAL 5m 11/3/14
61	41	05	13:39	MR	BOT		49° 03.462	123° 22.477	245	235	- 23			☐ ☐	just for SAL
			:				.	.			-			☐ ☐	SAL@235m

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

DE = Deployment Time
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Month <u>June</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/FI Cleaned	Comments	
							Latitude	Longitude								
62	38	05	:		CTD/BOT		°	°	300		24	1	TF	☐	☐	SAL
			:				°	°			-			☐	☐	
63	38	05	:		NET		°	°			-			☐	☐	Also start 1st time
62	38	05	14:58	BE	CTD/BOT	US	49° 12.009	123° 26.324	300		24	1	TF	☐	☐	Messenger / SAL
			15:07	BO			49° 12.040	123° 26.104		290	-			☐	☐	SAL @ 290m
			:	EN			°	°			-			☐	☐	
63	38	05	1:	BE	NET		49° 12.008	123° 26.342			-			☐	☐	
			15:07	BO			49° 12.040	123° 26.104			-			☐	☐	
			:	EN			°	°			-			☐	☐	
63	38	05	15:20	BE	NET	-	49° 12.001	123° 26.385			-	∅	TF	☐	☐	
			15:29	BO			49° 11.995	123° 26.288		290	-			☐	☐	
			:	EN			°	°			-			☐	☐	
64	40	05	16:37	BE	CTD	-	49° 08.674	123° 36.867	146		-	∅	TF	☐	☐	
			16:42	BO			49° 08.757	123° 36.923		136	-			☐	☐	
			16:45	EN			49° 08.791	123° 36.939			-			☐	☐	
65	40	05	16:51	BE	NET	-	49° 08.643	123° 36.874	146		-	-	TF	☐	☐	
			16:55	BO			49° 08.679	123° 36.884		136	-			☐	☐	
			16:59	EN			49° 08.708	123° 36.893			-			☐	☐	
			:				°	°			-			☐	☐	

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Month <u>June</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/FI Cleaned	Comments
66	G001	05	18:04	BE	CTD	—	49° 14.992	123° 45.048	400		—	—	TF	☐ ☐	no SAL taken
			18:12	BO			49° 14.992	123° 45.048		390	-			☐ ☐	have 2 already
			18:21	EN			49° 14.992	123° 45.048			-			☐ ☐	today
67	G001	05	18:30	BE	CTD NET BOT		49° 14.992	123° 45.048	400	5m	25 - 27	2	TF	☐ ☐	0.5m @ 0m CTC X2 + phyto
68	G001	05	18:33	BE	NET		49° 14.992	123° 45.048	400		-	—	TF	☐ ☐	140ml ea.
			18:44	BO			49° 14.992	123° 45.048		390	-			☐ ☐	plankton tow!
			18:54	EN			49° 14.992	123° 45.048			-			☐ ☐	*suspect that location information incorrect
69	CPF1	06	07:53	BE	CTD	—	49° 21.997	124° 04.997	245		-	—	TF	☐ ☐	at G001 *
			07:57	BO			49° 21.979	124° 04.953		235	-			☐ ☐	
			08:02	EN			49° 21.955	124° 04.941			-			☐ ☐	
70	CPF1	06	08:13	BE	NET	—	49° 22.020	124° 04.995	245		-	—	TF	☐ ☐	
			08:20	BO			49° 21.978	124° 04.966		235	-			☐ ☐	
			08:28	EN			49° 21.943	124° 04.938			-			☐ ☐	
71	CPF2	06	10:30	BE	CTD + BOT MSG		49° 27.938	124° 30.079	325		28 -	1	TF	☐ ☐	2x SAL bot -10
			10:36	BO			49° 27.878	124° 30.004		315	-			☐ ☐	
			:	EN			.	.			-			☐ ☐	
72	CPF2	06	10:58	BE	NET		49° 27.869	124° 30.034	325		-			☐ ☐	
			11:09	BO			49° 27.829	124° 30.024		315	—	—	TF	☐ ☐	
			11:16	EN			49° 27.811	124° 30.028			-			☐ ☐	

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June

2017

Vessel

Salacia

Cruise ID

2017-07

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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							
73	BS-11	06	12:42	BE	CTD	-	49°29.029	124°45.958	58		-	-	TF	☐	
			12:43	BO			49°29.037	124°45.957						☐	
			12:44	EN			49°29.047	124°45.960		48				☐	
74	BS-11	06	12:48	BE	NET	-	49°29.102	124°46.042	58					☐	
			12:50	BO			49°29.110	124°46.042					TF	☐	
			:	EN			.	.		48				☐	
75	11	06	15:07	BE	CTD	-	49°42.368	124°43.443	290					☐	
			15:13	BO			49°42.346	124°43.542					TF	☐	
			15:19	EN			49°42.326	124°43.630		280				☐	
76	11	06	15:30	MR	BOT		49°42.263	124°43.816	290	5	29-30	2		☐	
77	11	06	15:35	BE	NET		49°42.230	124°43.914	290				TF	☐	2X CTD 1X phyto
			15:44	BO			49°42.200	124°44.007	290					☐	
			:	EN			.	.		280				☐	
78	11	06	16:15	BE	NET	-	49°42.388	124°43.404	290					☐	UNsuccessful pulled up mud did again
			16:23	BO			49°42.371	124°43.483					TF	☐	
			16:29	EN			49°42.369	124°43.517		275				☐	
79	22	07	07:35	BE	CTD		49°40.272	124°16.328	353					☐	
			07:44	BO			49°40.291	124°16.300						☐	
			07:	EN			.	.		343	31	1	TF	☐	SALXZ touched bottom?
							.	.						☐	

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Notes:

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This page is for any notes or observations

Brenda Waddell 250 756 7228

cal 250 618 5219

250 ml plankton jars

before 6 Weds. night - cue her up earlier in the
afternoon.

after 7 call ~~Ian~~ - he

~~647~~ 6442 Ian Perry IDS office number

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Month <u>June</u>			Year <u>2017</u>			Vessel <u>Salacia</u>			Cruise ID <u>2017-07</u>						
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80	22	07	07:59	BE	NET	—	49° 40.172	124° 16.204	353		—			☐ ☐	
			08:07	BO			49° 40.171	124° 16.168		335	—	—	TF	☐ ☐	
			08:16	EN			49° 40.178	124° 16.138			—			☐ ☐	
81	24	07	09:58	BE	CTD	—	49° 30.417	124° 06.036	425		—	—	TF	☐ ☐	file v. small problem?
			10:06	BO			49° 30.445	124° 05.977		415	—			☐ ☐	
			10:14	EN			49° 30.472	124° 05.908			—			☐ ☐	
82	24	07	10:22	BE	NET	—	49° 30.292	124° 05.996	425		—	—	TF	☐ ☐	
			10:34	BO			49° 30.320	124° 05.926		415	—			☐ ☐	
			10:45	EN			49° 30.335	124° 05.862			—			☐ ☐	
83	28	07	12:42	BE	CTD	—	49° 24.093	123° 45.248	134		—	—	TF	☐ ☐	
			12:45	BO			49° 24.091	123° 45.249		124	—			☐ ☐	
			12:48	EN			49° 24.088	123° 45.253			—			☐ ☐	
	28	07	12:57		NET		49° 24.103	123° 45.256			—			☐ ☐	net under hull
84	28	07	13:01		NET		49° 24.103	123° 45.256	134		—	—	TF	☐ ☐	
			13:06				49° 24.104	123° 45.270		124	—			☐ ☐	
			13:				.	.			—			☐ ☐	
85	28	07	forgot		to record location. but			close to net and	CTD		32-33	—	TF	☐ ☐	142ml x 2
86	halibank	07	13:54	MR	BOT	MSG	49° 20.390	123° 43.831		5	34-35		TF	☐ ☐	142ml x 2 x 142ml
			:				.	.			—			☐ ☐	

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Month <u>June</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/FI Cleaned	Comments
87	GI-01	08	12:51	BE	CTD	-	48°45.958	123°20.687	65		-	-	TF	☒	
			12:52	BO			48°46.000	123°20.732		55	-			☐	
			12:54	EN			48°46.033	123°20.754			-			☐	
88	GI-01	08	13:02	BE	NET	-	48°45.962	123°20.697	65		-	-	TF	☐	
			13:04	BO			48°45.997	123°20.728		55	-			☐	
			13:06	EN			48°45.997	123°21.13	90		-			☐	
89	SC-04	08	13:47	BE	CTD	-	48°43.487	123°25.048	90	80	-	-	TF	☐	
			13:48	BO			48°43.493	123°25.064		80	-			☐	
			13:50	EN			48°43.496	123°25.077			-			☐	
90	SC-04	08	13:55	MR	BOT	MSG	48°43.510	123°25.102	90	5	36-37	^{two} 2	TF	☐	2x CHL
91	SC-04	08	14:23	BE	NET		48°43.509	123°25.032	90		-			☐	1x phyto
			14:25	BO			48°43.509	123°25.038		80	-			☐	
			14:26	EN			48°43.501	123°25.047			-			☐	
92	CBE 2	08	15:31		CTD	-	48°44.273	123°34.374	65		-	-	TF	☐	
			15:32				48°44.286	123°34.366		55	-			☐	
93			15:33				48°44.295	123°34.36			-			☐	
92	CBE 2	08	15:38		NET	-	48°44.247	123°34.464	65		-	-	TF	☐	
			15:40				48°44.250	123°34.451		55	-			☐	
			15:41				48°44.240	123°34.454			-			☐	

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