

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2017-26

DATE:

From: 8 May 2017

To: 12 May 2017

VESSEL:

Zodiac

PROJECT(S):

SOG Zooplankton

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: SAME AS 2017-47

Data acquisition program: _____

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

Primary CTD

Make: 2S+ 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 ECO Cable gain: _____ s/n: _____ P, S or NO pump?

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

Oxygen sensor: 4 S&E Model: 43 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?

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)

Rosette Setup:

Number of bottles: _____
Manufacturer: _____
Volume of bottles (litres): _____

Winches:

1. Make: _____ Model: _____ Serial #: _____ Used for: _____
2. Make: _____ Model: _____ Serial #: _____ Used for: _____
3. Make: _____ Model: _____ Serial #: _____ Used for: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Salinometer:

Make: _____ Model: _____ Serial Number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Oxygen Kit(s):

Make: _____ Model: _____ Kit Number: _____
Make: _____ Model: _____ Kit Number: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Thermosalinograph System (SBE21):

Program: _____ Version: _____
Sampling interval (seconds): _____
Fluorometer sensor serial number: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

ADCP Setup:

Computer time zone: _____ User Exits: Name: _____ Exit points: _____
Sampling interval (sec): _____ Name: _____ Exit points: _____
Bin Length: (2⁴x): _____ Name: _____ Exit points: _____
Pulse Length: _____ Work File: _____
Buffer (bytes): _____
Gyro Offset: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

CTD Test Cast Information

Test Cast along side? Yes ☐ No ☐

Comments

Test Cast in Saanich Inlet or other location? Yes ☐ No ☐

Comments

CTD pressure reading on deck (db), before cast: _____ after cast: _____

Pumps working? Yes ☐ (0011) No ☐ (0010)

Secondary Temp – Primary Temp: _____
(Average from the mixed region)

Secondary Salinity – Primary Salinity: _____
(Average from the mixed region)

Additional Comments:

PROBLEMS WITH ECU SAMPLING RATE
SET TDO LOW

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

Bongo #2 Frame Size: _____ cm

SCOR

Frame Size: 56 cm

Frame Size: _____ cm

Mesh: _____ μ m

Mesh: 236 μ m

Mesh: _____ μ m

Flowmeter: _____

Flowmeter: 2131 TSK

Flowmeter: _____

Flowmeter: _____

Flowmeter: 158

Flowmeter: 108

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

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Month <u>May</u>			Year <u>20</u>		Vessel <u>Zodiac</u>		Cruise ID <u>2017 Zodiac 2017-26</u>								
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
✓ 1	59	8	17:48	BE	CTD		48° 36.93	123° 14.957	230		-	—	KY/GY	☐ ☐	float calm
			17:53	BO			48° 36.91	123° 14.93		220	-		CC	☐ ☐	
			17:57	EN			48° 36.90	123° 14.88			-			☐ ☐	
2	59	8	18:02	BE	NET		48° 36.88	123° 14.87	229		-			☐ ☐	
			18:10	BO			48° 36.88	123° 14.81		220	-			☐ ☐	
			:15	EN			48° 36.89	123° 14.79			-			☐ ☐	
3	Spongy Bob	8	18:50	DE	DRF		48° 41.97	123° 15.30			-			☐ ☐	Sage # 597, 598, 599
✓ 4	Spongy Bob		18:55	BE	CTD		48° 42.00	123° 15.30	342		-			☐ ☐	
			18:57	BO			48° 42.02	123° 15.34		100	-			☐ ☐	
			19:00	EN			48° 42.04	123° 15.37			-			☐ ☐	
✓ 5	GI-Ø1	8	19:16	BE	CTD		48° 45.97	123° 20.66	62		-			☐ ☐	
			19:19	BO			48° 46.04	123° 20.76		57	-			☐ ☐	
			19:21	EN			48° 46.	123° 20.			-			☐ ☐	didn't get end
6	GI-Ø1	8	19:34	BE	NET		48° 45.88	123° 20.56	64		-			☐ ☐	delayed start for passing ferry
			19:36	BO			48° 45.92	123° 20.57		58	-			☐ ☐	strong current.
			19:38	EN			48° 45.93	123° 20.60			-			☐ ☐	→
✓ 7	SC-Ø4	8	20:01	BE	CTD		48° 43.49	123° 25.06	95		-			☐ ☐	
			20:04	BO			48° 43.46	123° 25.14		85	-			☐ ☐	
			20:06	EN			48° 43.44	123° 25.17			-			☐ ☐	

Event Type:

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

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Produced by the Water Properties Group, IOS

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left 10S 10 am, heading to Haro 59

CTD operation: switch ON, start 2min timer. Send down + up 10 m, wait for remaining 2 min. Start cast @ surface.

→ CTD got turned on on deck between stations.

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							Latitude	Longitude							
8	SC-04	8	20:13	BE	NET		48° 43. 43	123° 25. 31	99		-		K1/44	☐	
			20:15	BO			48° 43. 41	123° 25. 37		85	-		CC	☐	
			20:16	EN			48° 43. 39	123° 25. 42			-			☐	
✓ 9	CBE2	8	20:46	BE	CTD		48° 44. 23	123° 34. 47	65		-			☐	
			20:49	BO			48° 44. 23	123° 34. 44		55	-			☐	
			20:50	EN			48° 44. 23	123° 34. 44			-			☐	
10	CBE2	8	20:54	BE	NET		48° 44. 24	123° 34. 45	65		-			☐	
			20:55	BO			48° 44. 24	123° 34. 45		55	-			☐	
			20:58	EN			48° 42. 24	123° 34. 45			-			☐	
✓ 11	GEO1	9	18:36	BE	CTD		49° 14. 97	123° 44. 92	400?		-			☐	80508
			18:44	BO			49° 14. 91	123° 44. 78		390	-			☐	
			18:52	EN			49° 14. 88	123° 44. 69			-			☐	
12	GEO1	9	18:55	BE	NET		49° 14. 85	123° 44. 62	400?		-			☐	50508 - 53040
			19:06	BO			49° 14. 78	123° 44. 58		390	-			☐	
			19:14	EN			49° 14. 76	123° 44. 57			-			☐	
✓ 13	38	9	19:59	BE	CTD		49° 11. 96	123° 26. 33	303		-			☐	harbour porpoises
			20:06	BO			49° 11. 88	123° 26. 31		290	-			☐	
			20:11	EN			49° 11. 85	123° 26. 33			-			☐	
			:				.	.			-			☐	

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Bottle Firing Method:

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Notes:

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Produced by the Water Properties Group, IOS

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This page is for any notes or observations

tied up 105 15:00 . CTD battery = 15.6 V
9 May 2017 - meet Sam Glenn's house.
On water 11:05 launch Brechin Bay

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Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>May</u>			Year <u>2017</u>			Vessel <u>Zodiac</u>			Cruise ID <u>2017-26</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
✓ 14	38	9	20:13	BE	NET		49° 11.82	123° 26.30	300		-		KY/GC	☐	53040-54972
			20:21	BO			49° 11.76	123° 26.27		290	-			☐	
			20:27	EN			49° 11.74	123° 26.28			-			☐	
✓ 15	41	9	21:03	BE	CTD		49° 3.30	123° 22.36	242		-			☐	
			21:09	BO			49° 3.27	123° 22.39		232	-			☐	
			21:13	EN			49° 3.27	123° 22.41			-			☐	
16	41	9	21:16	BE	NET		49° 3.25	123° 22.43	246		-			☐	54969-56272
			21:21	BO			49° 3.22	123° 22.46		236	-			☐	
			21:26	EN			49° 3.25	123° 22.50			-			☐	
✓ 17	40	9	22:09	BE	CTD		49° 8.59	123° 36.75	150		-			☐	
			22:14	BO			49° 8.60	123° 36.71	148	140/38	-			☐	
			22:16	EN			49° 8.61	123° 36.69			-			☐	
18	40	9	22:19	BE	NET		49° 8.61	123° 36.66	146		-			☐	56272-57091
			22:23	BO			49° 8.63	123° 36.62		136	-			☐	
			22:25	EN			49° 8.65	123° 36.62			-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	

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Bottle Firing Method:
 US = Up / Stop (default)
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Notes:

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off water 17:00 Nanaimo. fueled up @ Ramp 130 L
dropped Zodiac @ PBS upper parking compound for night

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Month <u>May</u>			Year <u>2017</u>			Vessel <u>Zodiac</u>			Cruise ID <u>2017-26</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
✓ 19	CPF1	10	16:35	BE	CTD		49° 21.98	124° 04.95	241		-		KY/GC/CC	☐ ☒	
			16:41	BO			49° 21.96	124° 04.88		231	-			☐ ☐	
			16:45	EN			49° 21.95	124° 04.84			-			☐ ☐	
20	CPF1	10	16:48	BE	NET		49° 21.92	124° 04.79	241		-			☐ ☐	57691 - 58406
			16:54	BO			49° 21.90	124° 4.70		231	-			☐ ☐	
			16:58	EN			49° 21.89	124° 4.69			-			☐ ☐	
✓ 21	28	10	17:48	BE	CTD		49° 24.10	123° 45.33	1321		-			☐ ☐	
			17:53	BO			49° 24.11	123° 45.38		1221	-			☐ ☐	
			17:55	EN			49° 24.11	123° 45.40			-			☐ ☐	
22	28	10	17:57	DE	NET		49° 24.10	123° 45.43	131		-			☐ ☐	58405 - 59140
			18:00	BO			49° 24.10	123° 45.45		121	-			☐ ☐	
			18:03	EN			49° 24.10	123° 45.46			-			☐ ☐	
✓ 23	22	10	19:23	BE	CTD		49° 40.19	124° 16.31	353?		-			☐ ☐	depth from plan
			19:31	BO			49° 40.19	124° 16.34		343	-			☐ ☐	sounder not reading
			19:37	EN			49° 40.20	124° 16.35			-			☐ ☐	
24	22	10	19:42	BE	NET		49° 40.21	124° 16.38	353?		-			☐ ☐	59140 - 61184
			19:50	BO			49° 40.23	124° 16.42		343	-			☐ ☐	
			19:56	EN			49° 40.22	124° 16.41			-			☐ ☐	
			:				°	°			-			☐ ☐	

Event Type:

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Left Nanaimo Fri, got food, coffee Picked up zodiac @ 7:30

Launched @ Schooner Cove Marina 9am

Pit stop @ Secret Cove 21:00 UTC
juv. salmon around dock (~4" +)

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Month <u>May</u>			Year <u>2017</u>			Vessel <u>Zodiac</u>			Cruise ID <u>2017-26</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							
✓ 25	24	10	21:25	BE	CTD		49°30.31	124°5.90	425?		-		KY/GY CC	☐ ☐	No bottom reading used from plan
			21:35	BO			49°30.34	124°5.91		415	-			☐ ☐	
			21:42	EN			49°30.36	124°5.97			-			☐ ☐	
26	24	10	21:45	BE	NET		49°30.39	124°5.96	425?		-			☐ ☐	61185-63673
			21:56	BO			49°30.43	124°5.93		415	-			☐ ☐	
			22:05	EN			49°30.46	124°5.95			-			☐ ☐	
✓ 27	CPF2	11	17:45	BE	CTD		49°28.01	124°29.97	325?		-			☐ ☐	No sounder
			17:53	BO			49°28.05	124°29.91		315	-			☐ ☐	
			17:58	EN			49°28.07	124°29.85			-			☐ ☐	
28	CPF2	11	18:01	BE	NET		49°28.08	124°29.81	325?		-			☐ ☐	63675-65438
			18:08	BO			49°28.12	124°29.78		315	-			☐ ☐	
			18:15	EN			49°28.14	124°29.74			-			☐ ☐	
29	11	11	19:26	BE	CTD		49°42.32	124°43.39	290?		-			☐ ☐	No sounder
			19:32	BO			49°42.32	124°43.39		280	-			☐ ☐	*NO CTD data?
			19:37	EN			49°42.32	124°43.45			-			☐ ☐	
30	11	11	19:39	BE	NET		49°42.33	124°43.40	290?		-			☐ ☐	65438-67150
			19:49	BO			49°42.33	124°43.43		280	-			☐ ☐	
			19:55	EN			49°42.31	124°43.42			-			☐ ☐	
			:				°	°			-			☐ ☐	

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Off water + loaded up by 16:30. Going to Qualicum Beach - Shorewater Resort for night.
CTD batteries 15.3V

ON water 10am, launch Deep Bay
(Ship + shore) Winds rising, swells today Raining

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Month <u>May</u>			Year <u>2017</u>			Vessel <u>Zodiac</u>			Cruise ID <u>2017-26</u>						
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✓ 31	BS-11	11	20:56	BE	CTD		49° 29.01	124° 46.01	60		-		K1/GC	☐	
			20:59	BO			49° 29.02	124° 46.04		50	-		CC	☐	
			21:01	EN			49° 29.02	124° 46.06			-			☐	
32	BS-11	11	21:03	BE	NET		49° 29.04	124° 46.09	57		-			☐	67150 - 67445
			21:04	BO			49° 29.04	124° 46.10		50	-			☐	
			21:06	EN			49° 29.05	124° 46.11			-			☐	
33	spongebob2	12	17:05	DE	DRF		48° 44.97	123° 08.18			-			☐	#600, 601, 620
✓ 34	spongebob2	12	17:07	BE	CTD		48° 45.00	123° 08.27	123		-			☐	
			17:10	BO			48° 44.99	123° 08.44		113	-			☐	
			17:13	EN			48° 44.97	123° 08.56			-			☐	
✓ 35	46	12	18:12	BE	CTD		48° 51.37	123° 10.72	176		-			☐	Ryan Plags here
			18:17	BO			48° 51.36	123° 10.71		166	-			☐	from ONC
			18:21	EN			48° 51.33	123° 10.70			-			☐	
36	46	12	18:24	BE	NET		48° 51.33	123° 10.70	176		-			☐	67447 - 68403
			18:29	BO			48° 51.31	123° 10.66		166	-			☐	
			18:33	EN			48° 51.27	123° 10.60			-			☐	
37	phyto		21:09	BE	bucket		48° 44.97	123° 8.18			-			☐	took surface bucket
			:				°	°			-			☐	Emerald water
			:				°	°			-			☐	

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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
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Off water 15:00. Heading back to Victoria
CTD 15.5V

Left LOS 09:00

Parks Canada - PSF Galeano cit sci boat doing CTD, water, sechi.

Back @ LOS 14:30. Off water
CTD batteries = 15.5V