

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2018-092

DATE:

VESSEL:

PROJECT(S):

From:

26 NOV 2018

To:

2 DEC 2018

CCGS VECTOR

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: #10 notebook

Data acquisition program: Seaterm

CTD deck unit make: W/a model: — serial number: —

Primary CTD

Make: SBE ~~20~~ model: 25 serial number: 456

Primary temperature serial number: 5130

Primary conductivity serial number: 3500

Secondary temperature serial number: —

Secondary conductivity serial number: —

Transmissometer: — Model: — s/n: —

Transmissometer: — Model: — s/n: —

Fluorometer: Model E60 Cable gain: 13 s/n: 4185 P, S or NO pump?

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

Oxygen sensor: SBE Model: 43 s/n: 1592 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?

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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)

TSG 3411

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>NOVEMBER</u>			Year <u>2018</u>			Vessel <u>VECTOR</u>			Cruise ID <u>208-092</u>						
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							
1	1	27	06:22	BE	CTD	-	48° 27.	123° 10.			-	-	MB	☐ ☒	ABORTED,
			:	BO			48° 27.	123° 10.			-	-		☐ ☐	REDEPLOY WITH
			:	EN			48° 27.	123° 10.			-	-		☐ ☐	WEIGHT
2	2	27	06:35	BE	CTD	-	48° 27.691	123° 10.841	94		-	-	MB	☐ ☒	
			06:37	BO			48° 27.691	123° 10.843		89	-	-		☐ ☐	
			06:39	EN			48° 27.691	123° 10.849			-	-		☐ ☐	
3	3	27	08:04	BE	CTD	-	48° 33.750	123° 11.780	247		-	-	MB	☐ ☒	
			08:10	BO			48° 33.722	123° 11.745		241	-	-		☐ ☐	
			08:14	EN			48° 33.668	123° 11.681			-	-		☐ ☐	
4	4	27	10:05	BE	CTD	-	48° 32.389	123° 11.706	260		-	-	MB	☐ ☒	
			10:09	BO			48° 32.414	123° 11.684		255	-	-		☐ ☐	
			10:15	EN			48° 32.488	123° 11.689			-	-		☐ ☐	
5	BOUNDARY PASS	27	18:20	EN	MOR		48° 40.967	123° 08.979			-	-		☐ ☐	Mooring
6	BOUNDARY PASS	27	20:50	BE	MOR		48° 44.002	123° 09.115	184		-	-		☐ ☐	Recovery
7	5	27	20:58	BE	CTD		48° 44.002	123° 09.101	182		-	-		☐ ☐	Deployment
			21:02	BO	CTD		48° 43.99.	123° 09.187		145	-	-	CO,SV	☐ ☒	
			:05	EN			48° 43.987	123° 09.266			-	-		☐ ☐	Issue with wheel
8	6	28	00:57	BE	CTD		48° 29.767	123° 11.906	232	225	-	-	CO,SV	☐ ☒	HAKE STRAIT
			01:01	BO			48° 29.796	123° 11.964			-	-		☐ ☐	AFTER TX STUDY

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

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Notes:

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DEPARTED PAT BAY @ ~ 1830, STOPPED UP IN PAT BAY FOR A SPELL
THERMOSALINOGRAH ON AND LOGGING, WATER TURNED ON @ ~ 1945, GETTING
REASONABLE DATA.

- ABORTED 1ST CAST, CPT REQUESTED WEIGHT ON CTD DUE TO CURRENT

- LOTS OF CURRENT, LEAD COMING STRONG INBOARD ON WAY DOWN, MATE REQUESTED BRANKING
IT BACK UP. LINE STRAIGHTENED, BACK DOWN. STRONG LEAD AFT DEVELOPED STOPPED AND STRAIGHTENED
WIRE. PROCEEDED BACK DOWN TO DEPTH.

→ STRONG WINDS AND SWELL CAUSE FOR CANCELLING FURTHER OPERATIONS ON THE
PLATFORM FOR THE REMAINDER OF THE NIGHT.

→ Problem with Stock. Aborted cast early to correct.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>November</u>			Year <u>2018</u>		Vessel <u>VECTOR</u>		Cruise ID <u>2018-92</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	
8	6	28	01:04	EN	CTD		48° 29.815	123° 11.327			-			☐	☐	
9	7	28	02:14	BE	CTD		48° 29.761	123° 12.353	196		-			☐	☒	
	7		02:18	BO	CTD		° .750	° .307		185	-			☐	☐	
	7		02:20	EN	CTD		° .749	° .326			-			☐	☐	
10	8	28	04:10	BE	CTD	-	48° 27.623	123° 11.403	119		-		MB	☒	☐	
			04:12	BO			° 27.606	° 11.396		114	-			☐	☐	
			04:16	EN			° 27.584	° 11.391			-			☒	☐	
11	9	28	06:41	BE	CTD	-	48° 27.276	123° 11.475	122		-		MB	☐	☐	
			06:43	BO			° 27.232	° 11.485		117	-			☐	☐	
			06:45	EN			° 27.155	° 11.482			-			☒	☐	
12	10	28	08:05	BE	CTD	-	48° 31.263	123° 10.816	258		-		MB	☐	☐	
			08:10	BO			° 31.082	° 10.683		253	-			☐	☐	
			08:16	EN			° 31.812	° 10.453			-			☒	☐	
13	11	28	10:02	BE	CTD	-	48° 27.697	123° 12.070	102		-		MB	☐	☐	
			10:04	BO			° 27.682	° 12.096		97	-			☐	☐	
			10:06	EN			° 27.680	° 12.101			-			☒	☐	
14	12	28	12:06	BE	CTD	-	48° 29.839	123° 11.827	218		-		MB	☐	☐	
			12:10	BO			° 29.849	° 11.846		213	-			☐	☐	
			12:13	EN			° 29.859	° 11.857			-			☐	☐	

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Notes:

SOME DIFFERENCES IN DEPLOYMENT OF BEES BETWEEN NIGHT/DAY CREW. ESTABLISHED A STANDARD PROCEDURE. CTD TURNED ON, PUT IN WATER, DOWN 10M, WAIT 3MIN, RETURN TO SURFACE. PROCEED WITH CAST.

- INSTRUMENT TURNED ON AND DEPLOYED, HOWEVER, HAD TO BE RECOVERED AND REDEPLOYED DUE TO STRONG CURRENT

STOPPED @ 235 ON WAY DOWN DUE TO LUNCH PROBLEM.

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DAILY SCIENCE LOG

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DAILY SCIENCE LOG				Ocean Sciences Division, Instrument				Cruise ID						
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							Latitude	Longitude						
15	13	28	14:02	BE	CTD	-	48° 32.361	123° 11.892	263	-	-	MB	☒	
			14:06	BO			° 32.505	° 11.930		258	-		☐	
			14:11	EN			° 32.619	° 11.956			-		☐	
16	14	28	16:03	BE	CTD		48° 34.029	123° 11.686	240	-		CO,SV	☒	
			16:12	BO			° 34.153	° 11.715		235	-		☐	
			16:16	EN			° .2911	° .7453			-		☐	
17			17:10	EN	MOR		48° 29.774	123° 12.051			-		☐	HACK STRAIT ITANKING RETROGRADE
18	15	28	18:33	BE	MOR		48° 29.725	123° 11.597	230			CO,SV	☒	MOORING DEPLOYED
19	15	28	18:43	BE	CTD		48° 29.727	48° 11.861	216				☐	
			18:47	BO			° 29.7.2	° 11.950		210	-		☐	
			18:51	EN			° .663	° .978			-		☐	
20	16	28	23:42	BE	CTD		48° 17.319	123° 39.440	171			CO,SV	☒	50040
			23:45	BO			° .328	° .372		165	-		☐	
			23:48	EN			° .340	° .314			-		☐	
21		29	00:12	EN	MOR		48° 17.264	123° 38.145			-		☐	50040 moored
22			01:39		MOR		48° 17.379	123° 39.273	170			CO,SV	☐	50040 moored Deployed
23	17	29	01:48	BE	CTD		48° 17.399	123° 39.277	168				☐	
			01:51	BO			° .406	123° 39.241	165		-		☐	
			01:54	EN			° .414	° .198			-		☐	

Bottle Firing Method:

Time Code:

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This page is for any notes or observations

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Month <u>NOVEMBER</u>				Year <u>2018</u>		Vessel <u>VECTOR</u>		Cruise ID <u>2018-092</u>							
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							Latitude	Longitude							
18 24	18	29	04:11	BE	CTD	-	48°17.688	123°43.408	173		-	-	MB	☒	
			04:14	BO			°17.695	°43.422		168	-			☐	
			04:18	EN			°17.707	°43.441			-			☐	
19 25	19	29	06:07	BE	CTD	-	48°17.664	123°40.591	167		-	-	MB	☒	
			06:10	BO			°17.671	°40.663		162	-			☐	
			06:13	EN			°17.667	°40.708			-			☐	
20 26	20	29	08:02	BE	CTD	-	48°17.851	123°39.462	142		-	-	MB	☒	
			08:05	BO			°17.887	°39.555		137	-			☐	
			08:07	EN			°17.891	°39.581			-			☐	
21 27	21	29	10:01	BE	CTD	-	48°17.861	123°42.390	167		-	-	MB	☒	
			10:04	BO			°17.907	°42.503		162	-			☐	
			10:06	EN			°17.954	°42.615			-			☐	
22 28	22	29	12:02	BE	CTD	-	48°17.875	123°42.652	168		-	-	MB	☒	
			12:04	BO			°17.907	°42.604		163	-			☐	
			12:07	EN			°17.941	°42.637			-			☐	
23 29	23	29	18:25	BE	CTD		48°30.903	124°31.8	141		-	-	CO,SV	☒	PORT RENOVATION
			18:28	BO			°30.911	°31.685		139	-			☐	
			18:30	EN			°30.892	°31.583			-			☐	
			:				°	°			-			☐	

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Notes:

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Month <u>NOVEMBER</u>				Year <u>2018</u>		Vessel <u>VECTOR</u>		Cruise ID <u>2018-092</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
24 30	24	29	20:54	BE	CTD		48° 31.127	124° 30.964	129		-		Co, SV	☒ ☐	PORT REINFORCE
			20:56	Bo			° 31.112	° .941		120	-			☐ ☐	
			20:58	EN			° .101	° .954			-			☐ ☐	
31		29	21:15	EN	MOR		48° 30.352	124° 30.946	163		-			☐ ☐	PORT REINFORCE HOOKING RECOVERED
32		29	22:47	BE	MOR		48° 30.231	124° 31.023	167		-			☐ ☐	DEPLOYED
25 33	25		22:55	BE	CTD		48° 30.244	124° 31.067	170		-		Co, SV	☒ ☐	
			22:58	Bo			° .235	° .073		160	-			☐ ☐	
			23:01	EN			° .224	° .101			-			☐ ☐	
26 34	26	30	02:03	BE	CTD		48° 24.330	124° 11.079	127		-		Co, SV	☒ ☐	3. ROAD RIVER
			02:10	Bo			° .3616	° .0773		120	-			☐ ☐	
			02:12	EN			° .352	° .096			-			☐ ☐	
27 35	27	30	04:06	BE	CTD	-	48° 23.933	124° 08.568	117		-		MR	☒ ☐	
			04:08	Bo			° 23.926	° 08.585		112	-			☐ ☐	
			04:10	EN			° 23.921	° 08.589			-			☐ ☐	
28 36	28	30	06:06	BE	CTD	-	48° 23.075	124° 04.116	114		-		MR	☒ ☐	
			06:08	Bo			° 23.070	° 04.124		109	-			☐ ☐	
			06:16	EN			° 23.059	° 04.134			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

Event Type:

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VECTOR SERVER CRASHED RESTARTED TSC ARCHIVING @ ~ 0105 30 NOV 2018. FILE 2018-92-0002.hv

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check time 2?
1 event 11?

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Month <u>NOVEMBER</u>			Year <u>2018</u>			Vessel <u>VECTOR</u>			Cruise ID <u>2018-092</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
✓ 37	29	30	08:03	BE	CTD	-	48° 23.143	124° 05.034	115		-	-	MB	☒	
			08:05	BO			° 23.140	° 05.063		110	-			☐	
			08:07	EN			° 23.139	° 05.112			-			☐	
✓ 38	30	30	10:01	BE	CTD	-	48° 23.468	124° 06.451	114		-	-	MB	☒	
			10:03	BO			° 23.419	° 06.486		109	-			☐	
			10:05	EN			° 23.422	° 06.514			-			☐	
✓ 39	31	30	12:03	BE	CTD	-	48° 23.562	124° 07.735	122		-	-	MB	☒	
			12:05	BO			° 23.567	° 07.716		117	-			☐	
			12:07	EN			° 23.558	° 07.734			-			☐	
✓ 40	32	30	14:00	BE	CTD	-	48° 23.904	124° 09.183	126		-	-	MB	☒	
			14:03	BO			° 23.892	° 09.140		121	-			☐	
			14:05	EN			° 23.883	° 09.070			-			☐	JORDAN RIVER MOORING RECOVERED
41			15:40	EN	MOR		48° 23.746	124° 07.758			-			☐	↓ ↓ ↓ ↓ ↓
42			16:58	BE	MOR		48° 23.806	124° 08.074	122		-			☐	JORDAN RIVER MOORING DEPLOYED
43			21:15	EN	MOR		48° 30.987	124° 56.475			-			☐	SWIFTSURF TRAWL RECOVERED
44		30	22:27	BE	MOR		48° 30.915	124° 56.182	78		-			☐	SWIFTSURF TRAWL DEPLOYED
33 45	33		22:37	BE	CTD		48° 30.961	124° 56.374	74		-		CO/SV	☒	NEAR SWIFTSURF TRAWL
			22:38	BO			° .973	° .417		65	-			☐	
			22:39	EN			° .983	° .451			-			☐	

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Month <u>DECEMBER</u>			Year <u>2018</u>			Vessel <u>VECTOR</u>			Cruise ID <u>2018-092</u>						
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							Latitude	Longitude							
34 46	34	1	08:04	BE	CTD	-	48° 17.444	123° 41.704	173		-	-	MB	☒	
			08:07	BO			° 17.412	° 41.757		168	-			☐	
			08:10	EN			° 17.331	° 41.930			-			☐	
35 47	35	1	10:03	BE	CTD	-	48° 17.257	123° 36.008	178		-	-	MB	☒	
			10:06	BO			° 17.247	° 36.057		173	-			☐	
			10:09	EN			° 17.237	° 36.130			-			☐	
36 48	36	1	12:02	BE	CTD	-	48° 17.660	123° 37.864	162		-	-	MB	☒	5004E
			12:05	BO			° 17.689	° 37.885		157	-			☐	
			12:07	EN			° 17.694	° 37.928			-			☐	
37 49	37	1	14:02	BE	CTD	-	48° 17.318	123° 36.398	183		-	-	MB	☒	
			14:05	BO			° 17.359	° 36.370		178	-			☐	
			14:09	EN			° 17.354	° 36.360			-			☐	
38 50	38	1	16:03	BE	CTD		48° 17.028	123° 35.378	176		-		CO,SV	☒	
			16:06	BO			° .025	° .281		170	-			☐	
			16:09	EN			° .032	° .147			-			☐	
39 51	39	1	20:29	BE	CTD		48° 18.855	123° 40.953	126		-		CO,SV	☒	
			20:31	BO			° .841	° .955		120	-			☐	
			:	EN			° .826	° .962			-			☐	
			:				° .	° .			-			☐	

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

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STOPPED @ COVE TIMES ON WAY DOWN DUE TO A SPOOKING PROBLEM.

- BIG LEAD FORWARD ON WAY UP. STOP @ 20 TO STRAIGHTEN WIRE ON WAY UP.

STOPPED ON BOTTOM TO FEEL SPOOK

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 8 of

Month <u>DECEMBER</u>			Year <u>2018</u>		Vessel <u>VECTOR</u>			Cruise ID <u>2018-092</u>							
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							
40 52	40	1	22:09	BE	CTD		48° 18.534	123° 39.238	84		-		CO ₂ SV	☒	
			22:11	BO			° 544	° 295		75	-			☐	
			22:12	EN			° 560	° 365			-			☐	
41 53	41	2	02:07	BE	CTD		48° 17.547	123° 40.622	178		-		MB	☒	
			02:10	BO			° 17.530	° 40.574		168	-			☐	
			02:16	EN			° 17.495	° 40.517			-			☐	
42 54	42	2	04:10	BE	CTD	-	48° 16.872	123° 34.740	167		-		MB	☒	
			04:12	BO			° 16.805	° 34.658		162	-			☐	
			04:16	EN			° 16.744	° 34.582			-			☐	
43 55	43	2	06:05	BE	CTD	-	48° 16.846	123° 37.375	182		-		MB	☒	
			06:09	BO			° 16.820	° 37.202		177	-			☐	
			06:12	EN			° 16.767	° 37.100			-			☐	
44 56	44	2	07:09	BE	CTD	-	48° 17.435	123° 42.271	172		-		MB	☒	
			07:12	BO			° 17.423	° 42.243		167	-			☐	
			07:	EN			° 17.	° 42.			-			☐	
			:				° .	° .			-			☐	
			:				° .	° .			-			☐	
			:				° .	° .			-			☐	
			:				° .	° .			-			☐	

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Notes:

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This page is for any notes or observations

STOPPED @ 92 ON WAY UP TO STRAIGHTEN WIRE

ALL FILES UPLOADED TO ^{USB} STICK.