DAILY SCIENCE LOG BOOK

MISSION NUMBER 2021-153

DATE:

From: 31 AUG 2021 To: 6 SEP 2021

VESSEL: VECTOR

PROJECT(S): HAB - JERVIS INLET (SUTHERLAND)

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division
North Saanich, BC, Canada

35 Page Logbook

WaterProperties.ca

Captain: DUSTIN FLAHR First Officer: RGB

Second Officer: RACHAEL Third Officer:

~~Fishing Master~~: SEMON Chief Engineer: STEVE

Boson

Mission Participants / Agencies:

TERRI SUTHERLAND, MARK BELTON, CHER LACOSTE

**** Chief Scientist to tape Scientific Personnel section of their cruise plan here ****

This is accessed from your WaterProperties.ca Dashboard or from here:
https://www.waterproperties.ca/requests/cruiseplanview.php?cruiseid=YYYY-NNN

**** 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: NA

Data acquisition program: NA

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

Primary CTD

Make: SBE model: 25+ serial number: 1091

Primary temperature serial number: 04C - 04 - 4799

Primary conductivity serial number: 3F - 03 - 6376

Secondary temperature serial number: NA

Secondary conductivity serial number: NA

Transmissometer: NA Model: _____ serial: _____

Transmissometer: NA Model: _____ serial: _____

Fluorometer: Model WETLABS Cable gain: ECO-FL serial: 2216 **P, S or NO pump?**

Fluorometer: Model _____ Cable gain: _____ serial: _____ **P, S or NO pump?**

Oxygen sensor: SBE Model: 43 serial: 431483 **P, S or NO pump?**

PAR sensor: _____ Model: _____ serial: _____ **Surface PAR? Y / N**

~~Other sensors:~~ PUMP OST serial: 05-9508 **P, S or NO pump?**

Other sensors: _____ serial: _____ **P, S or NO pump?**

Other sensors: _____ serial: _____ **P, S or NO pump?**

Other sensors: _____ serial: _____ **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: _____ serial: _____

Transmissometer: _____ Model: _____ serial: _____

Fluorometer: Model _____ Cable gain: _____ serial: _____ **P, S or NO pump?**

Fluorometer: Model _____ Cable gain: _____ serial: _____ **P, S or NO pump?**

Oxygen sensor: _____ Model: _____ serial: _____ **P, S or NO pump?**

PAR sensor: _____ Model: _____ serial: _____ **Surface PAR? Y / N**

Other sensors: _____ serial: _____ **P, S or NO pump?**

Other sensors: _____ serial: _____ **P, S or NO pump?**

Other sensors: _____ serial: _____ **P, S or NO pump?**

Other sensors: _____ serial: _____ **P, S or NO pump?**

CTD calibration bottle location (height above CTD in metres): 2.5m (DEEP SALINITY SAMPLER)

This also includes the bottle location above the CTD on non-rosette casts (typical on small launches).

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

Rosette/Niskin Bottle Serial Numbers:

1: _____	2: _____	3: _____	4: _____	5: _____
6: _____	7: _____	8: _____	9: _____	10: _____
11: _____	12: _____	13: _____	14: _____	15: _____
16: _____	17: _____	18: _____	19: _____	20: _____
21: _____	22: _____	23: _____	24: _____	

Make sure to note any bottle changes or repairs during your cruise in this log book.

Winches:
1. Make: SCANNN Model: 310 Serial #: 1083 Used for: CARS
2. Make: SCANNN Model: 410 Serial #: 1536 Used for: CTD & BOTTLES
3. Make: _____ Model: _____ Serial #: _____ Used for: _____

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

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

Label Printers:
Primary Printer Kit #: 5
Secondary Printer Kit #: NA
Software Version: _____

Thermosalinograph System (SBE21/45): N/A
Program: _____ Version: _____
Sampling interval (seconds): _____
TSG serial number: _____
Fluorometer sensor serial number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):
_____

ADCP Setup: N/A
Computer time zone: _____
Sampling interval (sec): _____
Bin Length: (2^x): _____
Pulse Length: _____
Buffer (bytes): _____
Gyro Offset: _____

User Exits: Name: _____ Exit points: _____
Name: _____ Exit points: _____
Name: _____ Exit points: _____
Work File: _____

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 SAANICH INLET

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) N/A SBE 25+

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

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

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month AUGUST / SEPTEMBER **Year** 2021 **Vessel** VECTOR **Cruise ID** 2021 - 153

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
1	SI	31	23:48	BE	CTD	MSC	48° 38.977	123° 29.957	181		-			☐☑	TEST STATION
2		"	23:50	BO	BOT	MSC	" ° " . "	" ° " . "		176	1 -	1	MB/TS	☐☐	DEEP SAL
		"	23:58	EN			48° 38.981	123° 29.958			-			☐☐	CAST 2021-153-0001.XML
2	SI	1	00:06	BE	BOT	MSC	48° 38.977	123° 29.977	181	50	2 - 6	5	MB/TS	☐☐	CHL & NUT
3	SI	1	00:07	BE	BUCKET	-	48° 38.982	123° 29.973	181	0	7 -	1	MB/TS	☐☐	CHL, NUT, SAL
4	JI7	1	15:09	BE	CTD		49° 50.664	123° 53.810	~650		-			☐☐	2021-153-0005.XML
			15:42	BO	BOT	MSC	49° 50.664	123° 53.811		625	8 -	1	MB/TS	☐☐	DEEP SAL
			15:39	EN			49° 50.658	123° 53.892			9 - 13	5	MB/TS	☐☐	CHL & NUT.
5	JI7	1	~15:45	BE	BOT	MSC	° .	° .		50	-			☐☐	
6	JI7	1	~15:55	BE	BUCKET	-	° .	° .		0	14 -	1	MB/TS	☐☐	CHL, NUT, SAL
7	JI6A	1	17:10	BE	CTD		49° 45.051	123° 54.535	62		-			☐☐	2021-153-0007.XML
			17:15	BO	BOT	MSC	° 45.056	° 54.573		50	15 - 19	5	MB/TS	☑☐	CHL, NUT
			17:22	EN			° 45.056	° 54.657			-			☐☐	
8	JI6A	1	17:22	BE	BUCKET	-	49° 45.056	123° 54.657	62	0	20 -	1	~~MB/TS~~	☐☐	CHL, NUT, SAL
9	JI7	1	18:23	BE	GRAB		49° 50.654	123° 53.813	~620		-			☐☐	MUD GRAB
			18:37	BO			° 50.655	° 53.809		800	-			☐☐	SMALL MAC
			18:48	EN			° 50.658	° 53.813			-			☐☐	
			:				° .	° .			-			☐☐	
			:				° .	° .			-			☐☐	

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
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MR = Messenger Release Time
RE = Recover Mooring Time

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

Notes: _____

DEPART ISP @ ~1600 LOCAL
CTD WAS TURNED ON WAY BEFORE THE CAST AND WAS ROTATED SUCH THAT THE PLUNGER COULD NOT BE PULLED OUT TO TURN OFF. THE RESULT IS A VERY LARGE FILE. ROTATED THE CTD IN THE MORNING AFTER THE CAST TO BE ABLE TO EASILY PULL PLUG IN AND OUT

- SHIP SOUNDER SPOTTY, DEPTH ~650, WENT TO 625 TO BE CONSERVATIVE

CTD & BOTTLES ON-LINE COMBINED TO SAVE TIME @ STOOLCHUCK (AVOID DANGEROUS WATER)

SOME TROUBLE FINDING BOTTOM WITH GRAB 800 M OF LINE PAID OUT.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month SEPTEMBER **Year** 2021 **Vessel** VECTOR **Cruise ID** 2021-153

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10	JI8	1	19:48	BE	CTD		49° 56.488	123° 58.457	530		-			☑☑	2021-153-0010.tms
			19:58	BO	BOT	MSL	49° 56.490	123° 58.465		520	21 -	1	MB/TS	☐☐	DEEP SAL
			20:08	EN			49° 56.500	123° 58.418			22-26	5	MB/TS	☐☐	CHL, NUT
11	JI8	1	20:15	BE	BOT	MSL	49° 56.507	123° 58.404	530	50	27 -	1	MB/TS	☐☐	CHL, NUT, SAL
12	JI8	1	20:21	BE	BUCKET	-	49° 56.483	123° 58.422	530	∅	-			☐☐	
13	JI8	1	20:29	BE	GRAB	-	49° 56.525	123° 58.451	530		-	-	TS	☐☐	FAILED TO
			20:36	BO			° 56.544	° 58.419		560	-			☐☐	CLOSE
			20:46	EN			° 56.548	° 58.385			-			☐☐	
14	JI8		20:54	BE	GRAB		49° 56.515	123° 58.388	530		-		TS	☐☐	REDO GRAB
			20:59	BO			° 56.509	° 58.365		559	-			☐☐	SUCCESS!
			21:09	EN			° 56.523	° 58.358			-			☐☐	
15	JI9		21:46	BE	CTD		50° 00.234	123° 57.678	~437		-		MB/TS	☐☑	2021-153-0015.tms
			21:53	BO	BOT	MSL	° 00.239	° 57.719		425	28 -	1		☐☐	
			22:02	EN			50° 00.242	° 57.749			29-33	5	MB/TS	☐☐	
16	JI9		22:08	BE	BOT	MSL	50° 00.241	123° 57.755	~437	50	-			☐☐	
17	JI9		22:15	BE	BUCKET	-	° .	° .	~437	∅	34 -	1	MB/TS	☐☐	
18	JI9		22:24	BE	GRAB	-	50° 00.234	123° 57.624	~437		-	-	TS	☐☐	GRAB FAILED
			22:28	BO			50° 00.226	123° 57.634		452	-			☐☐	
			22:35	EN			50° 00.160	123° 57.355			-			☐☐	

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

Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 17 Feb 2020

GOT A 2ND BUCKET, SINCE DUMPED BEFORE TAKING SAL

WENT 30M OVER SOUNDER, BOTTOM NOT OBVIOUS.

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19	JI9	1	22:40	BE	CRAB	-	50° 00.245	123° 57.641	~440		-	-	TS	☐☐	CRAB RECD
			22:46	BO			° 00.246	° 57.631		472	-			☐☐	
			22:51	EN			° 00.245	° 57.626			-			☐☐	
20	JI 10	1	23:22	BE	CTD		50° 01.710	123° 52.733	~270		-			☐☐	2021-153-0020.hex
			23:29	BO	BOT	MSC	° 01.726	° 52.101		259	35-	1	MS/TS	☑☐	DEEP SAL
			23:33	EN			° 01.737	° 52.690			-			☐☐	
21	JI10	1	23:39	BE	BOT	MSC	50° 01.737	123° 52.696	~270	5	36-40	5	~~MS~~ TS	☐☐	CHL, NUT
22	JI10	1	23:43	BE	BUCKET		50° 01.751	123° 52.695	~270	Ø	41-	1		☐☐	CHL, NUT & SAL
23	JI10	1	23:47	BE	CRAB	-	° 01.755	° 52.701	~300		-			☐☐	
		1	23:57	BO			° 01.759	° 52.665			-			☐☐	
		1	23:57	EN			° 01.750	° 52.665			-			☐☐	CRAB FAILED.
24	JI10	2	00:10		GRAB		50° 01.742	123° 52.970			-			☐☐	
			:				° . "	° . "			-			☐☐	
			00:16				° . "	° . "			-			☐☐	CLOSED - NO MUD
25	JI11	2	00:56	BE	CTD	-	50° 03.590	123° 48.659	~530		-			☐☑	2021-153-0025.hex
			01:04	BO	BOT	MSC	° 03.607	° 48.669		510	42-	1	MS/TS	☐☐	DEEP SAL
			01:15	EN			° 03.604	° 48.676			-			☐☐	
26	JI11	2	01:21	BE	BOT	MSC	50° 03.603	123° 48.674	530	50	43-47	5	MS/TS	☐☐	CHL, NUT
27	JI 11	2	01:26	BE	BUCKET	-	° 3.603	° 48.674	530	Ø	48-	1		☐☐	CHL, NUT & SAL

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Notes: _____

DEPTH FLUCTUATING ACOT - 270 - 380

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
28	JI11	2	01:28	BE	GRAB	-	50° 3.591	123° 48.665	~530		-	-	TS	☐☐	
			01:35	BO			50° 3.586	123° 48.637		580	-			☐☐	
			01:45	EN			LOST SIGNAL	°			-			☐☐	
29	JI4	2	14:11	BE	CTD		50° 10.897	124° 56.157	~300		-			☐☐	
			14:17	BO	BOT	MSG	° 10.891	123° 56.140		290	49 -	1	MB/TS	☐☑	2021-153-0029.XML
			14:24	EN			° 10.882	° 56.118			50 - 54	5	MB/TS	☐☐	DEEP SAL
30	JI4	2	14:31	BE	BOT	MSG	° 10.890	° 56.115	300	50	-			☐☐	CHL, NUT
31	JI4	2	14:36	BE	BUCKET		° 10.887	° 56.151	300	Ø	55 -	1	MB/TS	☐☐	CHL, NUT, SAL
32	JI4	2	14:39	BO	GRAB		° 10.886	° 56.148	300		-		TS	☐☐	
			14:45	BO			° 10.887	° 56.133		~300	-			☐☐	
			14:49	EN			° 10.882	° 56.163			-			☐☐	
33	JI3	2	15:20	BE	CTD		50° 9.075	123° 51.739	~327		-		MB/TS	☐☑	2021-153-0033.XML
			15:28	BO	BOT	MSG	° 9.063	° 51.723		317	56 -	1		☐☐	DEEP SAL
			15:34	EN			50° 09.071	123° 51.724			-			☐☐	
34	JI3	2	15:41	BE	BOT	MSG	° 09.077	° 51.714	327	50	57 - 61	5	MB/TS	☐☐	CHL, NUT
35	JI3	2	15:46	BE	BUCKET	-	° 09.081	° 51.695	327	Ø	62 -	1	MB/TS	☐☐	CHL, NUT, SAL
36	JI3	2	15:49	BE	GRAB	-	50° 9.066	° 51.693	327		-			☐☐	
			15:57	BO			° 9.021	° 51.699		~327	-			☐☐	
			16:02	EN			° 9.077	° 51.692			-			☐☐	

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Notes: _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month SEPTEMBER **Year** 2021 **Vessel** VECTOR **Cruise ID** 2021-153

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37	PL-1	2	16:39	BE	BOAT	-	CLOSE TO	JIB · DEPART & RECOVER-1			-		TS	☐☐	→
38	PL-1	2	17:40	BE	BOT	MSG	50° 11.705	123° 46.462	140	10	63-66	4		☐☐	17L NISKINS FROM BOAT
39	CHATTER BOX	2	~17:50	BE	BOT	-	CHATTER BOX	FALLS	120		67-	1		☐☐	1L BOTTLE FROM FALLS
40	PL-2	2	18:08	BE	BOT	MSG	50° 10.870	123° 48.437	123	10	68-71	4		☐☐	17L NISKINS FROM BOAT
41	PL-3	2	18:20	BE	BOT	MSG	50° 10.418	123° 50.201	155	10	72-75	4	↓	☐☐	17L NISKINS FROM BOAT
42	JI2	2	21:02	BE	CTD		50° 6.465	123° 47.724	218		-			☐☐	
			21:05	BO	BOT	MSG	° 6.460	° 47.720		208	76-	1	MB/TS	☐☑	DEEP SAL
43	J		21:11	EN			° 6.458	° 47.707			-			☐☐	
43	JI2	2	21:21	BE	BOT	MSG	° 6.441	° 47.688	218	50	77-81	5		☐☐	CHL, NUT
44	JI2	2	21:23	BE	BUCKET	-	° 6.441	° 47.687	218	Ø	82-	1		☐☐	CHL, NUT, SAL
45	JI2	2	21:25	BE	CRAB	-	° 6.450	° 47.691	218		-	-	TS	☐☐	
			21:29	BO			° 6.463	° 47.696		218	-			☐☐	
			21:33	EN			° 6.471	° 47.686			-			☐☐	
46	JI5A	3	00:44	BE	CTD		49° 52.267	124° 03.040	550		-		MB/TS	☐☑	
			00:53	BO	BOT	MSG	49° 52.257	° 03.069		540	83-	1		☐☐	DEEP SAL
			01:06	EN			° 52.271	° 03.125			-			☐☐	
47	JI5A	3	01:20	BE	BOT	MSG	49° 52.239	124° 02.912	550	50	84-88	5	MB/TS	☐☐	CHL, NUT
48	JI5A	3	01:23	BE	BUCKET		° 52.236	° 02.914	550	Ø	89-	1	MB/TS	☐☐	CHL, NUT, SAL
			:				° .	° .			-			☐☐	

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Notes: _____

LAUNCHED FRC; TIERRI, MARK & CHER ONBOARD. HEAD INTO PRINCESS LOUISE INLET FOR SMARTING
3 STATIONS UP THE INLET. RETURN TO VICTOR @ 1845 (UTC)
+ CHATTERBOX FALLS
TIED UP SMALL BOAT @ CHATTERBOX FALLS AND TOOK A FRESH WATER SAMPLE

DAILY SCIENCE LOG

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Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
49	JISA	3	01:28	BE	CRAB		49° 52.231	124° 2.899	550		-	-	TS	☐☐	
			01:39	BO			49° 52.209	124° 2.912		~550	-			☐☐	
			01:46	EN			49° 52.202	124° 2.909			-			☐☐	
50	JI6	3	14:58	BE	CTD		49° 47.369	123° 57.259	~355		-		MB/TS	☐☐	2021-153-0050 xmlc
			15:06	BO	BOT	MSG	° 47.367	° 57.256		340	90-			☐☑	DEEP SAL
			15:19	EN	←		MISSED° 47.368	° 57.269			-			☐☐	
51	JI6	3	↓:	BE	BOT	MSG	° ↓.	° ↓.	~355	50	91 - 95			☐☐	CHL, NUTS
52	JI6	3	15:25	BE	BUCKET		49° 47.367	123° 57.263	~355	Ø	96-			☐☐	CHL, NUTS, SAL
53	JI6	3	15:37	BE	CRAB		° 47.365	° 57.255	~355		-	-	TS	☐☐	
			15:34	BO			° 47.363	° 57.271		~355	-			☐☐	
			15:43	EN			° 47.360	° 57.282			-			☐☐	2021-153-0053 xmlc
54	JI6B	3	16:32	BE	CTD		49° 45.548	124° 03.431	245		-			☐☑	DEEP, SAL
			16:36	BO	BOT	MSG	° 42.529	° 03.463		235	97-	1	MB/TS	☐☐	
			16:42	EN			° 42.529	° 03.517			-			☐☐	
55	JI6B	3	16:48	BE	BOT	MSG	49° 42.520	124° 03.546	~245		98 - 102	5	MB/TS	☐☐	CHL, NUTS
56	JI6B	3	16:52	BE	Bucket		49° 42.529	124° 03.511			103-	1	MB/TS	☐☐	CHL, NUTS, SAL
57	JI6B	3	16:56	BE	CRAB		49° 42.510	124° 3.506	~245		-	-	TS	☐☐	
			17:01	BO			49° 42.480	° 3.545		~245	-			☐☐	
			17:05	EN			49° 42.466	° 3.559			-			☐☐	

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
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

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

Notes: _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month SEPTEMBER **Year** 2021 **Vessel** VECTOR **Cruise ID** 2021-153

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
58	JI5	3	17:55	BE	CTD		49° 47.828	124° 2.078	~630		-			☐☑	2021-153-0058.xmlc
			18:07	BO	BOT	MSG	49° 47.820	124° 2.075		620	104-	1	MS/TS	☐☐	DEEP SAL
			18:22	EN			° 47.811	° 2.081	630		-			☐☐	
59	JI5	3	18:28	BE	BOT	MSG	° 47.816	° 2.101	↓	50	105-109	5	MS/TS	☐☐	CHL, NUTS
60	JI5	3	18:37	BE	BUCKET	-	49° 47.815	124° 02.108	630	0	110 -	1	MS/TS	☐☐	CHL, NUTS, SAL
61	JI5		19:10	BE	CROSS	-	° 47.824	° 02.100	~680	~	-.	.	TS	☐☐	
			19:23	BO			° 47.797	° 02.136		~630	-			☐☐	
			19:38	EN			° 47.	° 02.			-			☐☐	
62	JI4	3	20:04	BE	CTD		49° 47.260	° 05.721	528		-		MS/TS	☐☐	2021-153-0062.xmlc
			20:12	BO	BOT	MSG	° 47.207	° 5.721		500	111 -	1		☐☑	DEEP SAL
			20:23	EN			° 41.198	124° 05.734			-			☐☐	
63	JI4	3	20:28	BE	BOT	MSG	49° 47.201	124° 05.746	528	50	112 - 116	5	MS/TS	☐☐	CHL, NUTS
64	JI4	3	20:32	BE	BUCKET		49° 47.208	124° 05.749	528	0	117 -	1	MS/TS	☐☐	CHL, NUTS, SAL
65	JI4	3	20:48	BE	CROSS		° 47.214	° 5.734	560		-	-	TS	☐☐	
			20:54	BO			° 47.210	° 5.740		~560	-			☐☐	
			21:01	EN			° 47.240	° 5.740			-			☐☐	
66	JI3	3	21:31	BE	CTD		49° 45.915	124° 09.963	310		-			☐☐	2021-153-0066.xmlc
			21:36	BO	BOT	MSG	° 45.915	° 9.965		300	118 -	1	MS/TS	☐☐	DEEP SAL
			21:43	EN			49° 45.927	124° 09.984			-			☐☐	

Event Type:
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Notes: _____

This page is for any notes or observations

DEPTH FLUCTUATING

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month SEPTEMBER **Year** 2021 **Vessel** VECTOR **Cruise ID** 2021-153

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
67	JI3	3	21:48	BE	BOT	MK	49° 45.919	124° 10.012	310	50	119 - 123	5	MB/TS	☐☐	CHL, NUTS
68	JI3		21:51	BE	BUCKET		49° 45.926	124° 10.024	310	0	124	1	MB/TS	☐☐	CHL, NUTS, SAL
69	JI3	3	~~22:00~~	BE	CRAB	-	49° 45.916	124° 10.011	310	3	-		TS	☐☐	
			22:04	BO			49° 45.907	124° 9.995		310	-			☐☐	
			22:08	EN			49° 45.908	124° 9.982			-			☐☐	
70	JI2	3	22:32	BE	CTD		49° 45.811	124° 14.412	327		-			☐☑	2021-153-0070.XMLC
			22:38	BO	BOT	MSG	49° 45.811	124° 14.436		317	125 -	1	MB/TS	☐☐	DEEP SAL
			22:46	EN			49° 45.837	124° 14.553			-			☐☐	
71	JI2	3	22:51	BE	BOT	MSG	49° 45.837	124° 14.472	327	50	126 - 130	5		☐☐	CHL, NUTS
72	JI2	3	22:55	BE	BUCKET	-	49° 45.844	124° 14.481	327	0	131 -	1	MB/TS	☐☐	CHL, NUTS, SAL
73	JI2	3	23:01	BE	CRAB		° 45.845	° 14.474	327		-			☐☐	
			23:05	BO			° 45.807	° 14.488		327	-			☐☐	
			23:09	EN			° 45.808	° 14.483			-			☐☐	
74	JI1	3	23:38	BE	CTD		49° 43.420	124° 15.548	239		-			☐☐	2021-153-0074.XMLC
			23:42	BO	BOT	MSG	49° 43.402	124° 15.568		229	132 -	1	MB/TS	☐☐	DEEP SAL
			23:57	EN			49° 43.391	124° 15.581			-			☐☐	
75	JI1	3	23:56	BE	BOT	MSG	° 43.386	124° 15.576	239	50	133 - 137	5	MB/TS	☐☐	CHL, NUTS
76	JI1	3	23:57	BE	BUCKET	-	° 43.386	° 15.576	239	0	138 -	1	MB/TS	☐☐	CHL, NUTS, SAL
			:				° .	° .			-			☐☐	

Event Type:
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Notes: _____

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 17 Feb 2020

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month SEPTEMBER **Year** 2021 **Vessel** VECTOR **Cruise ID** 2021-153

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
77	JI1	3	23:59	BE	GRAB		49° 43.454	124° 15.536	239		-		TS	☐☐	
		4	00:04	BO			° 43.451	° 15.527		239	-			☐☐	VERP SAMPLE
			00:07	EN			° 43.451	° 15.527			-			☐☐	TRIANGLE
78	JI1	4	:	BE	GRAB		49° .	124° .	~240		-		TS	☐☐	REDO GRAB
			MISSED	BO			° MISSED	° MISSED		~240	-			☐☐	TIME NOT CAPTURED
			:	EN			.	.			-			☐☐	
79	JI2	4	15:01	BE	CTD	-	49° 45.800	124° 14.424	325		-		MB/TS	☐☑	TIME SERIES START
			15:06	BO			49° 45.799	124° 14.426		~300	-			☐☐	'TIME 1' LOCAL 0800
			15:12	EN			49° 45.471	124° 14.436			-			☐☐	2021-153-0079.XMLC
80	JI2	4	15:17	BE	BOT	MSC	49° 45.793	124° 14.481	325	50	139 - 143	5	MB/TS	☐☐	CHL, NUTS
81	JI2	4	15:22	BE	BUCKET	-	49° .784	124° .463	325	Ø	144 -	1	MB/TS	☐☐	
82	JI2	4	15:59	BE	CTD	-	49° 45.791	124° 14.430	324		-	-	MB/TS	☐☑	'TIME 2' LOCAL 0900
			16:05	BO			° 45.791	° 14.420		314	-			☐☐	2021-153-0082.XMLC
			16:11	EN			° 45.795	° 14.417			-			☐☐	
83	JI2	4	17:01	BE	CTD		49° 45.801	124° 14.420	323		-		MB/TS	☐☐	'TIME 3' LOCAL 1000
			17:07	BO			° 45.797	° 14.418		313	-			☐☐	2021-153-0085.XMLC
			17:13	EN			° 45.793	° 14.415			-			☐☐	
84	JI2	4	17:18	BE	BOT	MSC	° .794	124° 14.415	323	50	145 - 149	5	MB/TS	☐☐	CHL, NUTS
85	JI2	4	17:22	BE	BUCKET		° .789	° .412	323	Ø	150 -		MB/TS	☐☐	" "

Event Type:
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SET = Fish Set
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Bottle Firing Method:
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Time Code:
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

Notes: _____

CTD) BATTERY STATUS @ 16.6V. DOING VERY LARGE NUMBER OF CASTS OVER THE NEXT 24 HRS, SO CHANGED THE BATTERIES @ END OF DAY 4.. NEW BATTERIES @ 18.5V

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month SEPTEMBER **Year** 2021 **Vessel** VECTOR **Cruise ID** 2021-153

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
86	JI-2	4	17:58	BE	CTD	-	49° 45.795	124° 14.432	325		-	-	MB/TS	☐☑	TIME 4' LOCAL 1100
			18:04	BO			° 45.808	° 14.458		318	-			☐☐	2021-153-0086.XMC
			18:10	EN			° 45.799	° 14.532			-			☐☐	
87	JI-2	4	19:00	BE	CTD		49° 45.807	124° 14.431	320		-			☐☐	
			19:06	BO	BOT	MSL	49° 45.799	124° 14.430		310	151 -	1	MB/TS	☐☑	DEEP SAL 'TIMES'
			19:13	EN			° 45.806	° 14.432			-			☐☐	LOCAL 1200
88	JI-2	4	19:19	BE	BOT	MSL	49° 45.805	124° 14.420	320	50	152 - 156	5	MB/TS	☐☐	2021-153-0087.XMC CHL, NUT
89	JI-2	4	19:23	BE	BUCKET	-	49° 45.816	124° 14.425	320	Ø	157 -	1	MB/TS	☐☐	CHL, NUT, SAL
90	JI-2	4	20:00	BE	CTD	-	49° 45.805	124° 14.414	322		-	-	MB/TS	☐☐	'TIME 6' LOCAL 1300
	"	"	20:05	BO			49° 45.801	124° 14.404		312	-			☐☐	2021-153-0090.XMC
			20:11	EN			49° 45.800	124° 14.411			-			☐☐	
91	JI-2	4	21:01	BE	CTD	-	49° 45.798	124° 14.428	323		-	-	MB/TS	☐☐	TIME 7' LOCAL
			21:07	BO			49° 45.797	124° 14.410		313	-			☐☐	1400
			21:13	EN			49° 45.801	124° 14.421			-			☐☐	2021-153-0091.XMC
92	JI-2	4	21:18	BE	BOT	MSL	49° 45.796	124° 14.420	323	50	158 - 162	5	MB/TS	☐☐	CHL, NUT
93	JI-2	4	21:21	BE	BUCKET	-	49° .800	124° .429	323	Ø	163 -	1	MB/TS	☐☐	" "
94	JI-2	4	22:00	BE	CTD	-	49° 45.794	124° 14.452	322		-	-	MB/TS	☐☑	'TIME 8' LOCAL
			22:06	BO			° 45.798	° 14.455		317	-			☐☐	1500
			22:11	EN			° 45.801	° 14.447			-			☐☐	2021-153-0094.XMC

Event Type:
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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
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DE = Deployment Time
MR = Messenger Release Time
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

Notes: _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month SEPTEMBER **Year** 2021 **Vessel** VECTOR **Cruise ID** 2021-153

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
95	JI2	4	23:01	BE	CTD	-	49° 45.799	124° 14.420	323		~~001~~ - ~~008~~	~~X~~	MB/TS	☐☑	TIME 9 LOCAL 1600
			23:06	BO			° 45.802	° 14.420		313	-			☐☐	2021-153-0095.xmlc
			23:12	EN			49° 45.808	124° 14.429			-			☐☐	
96	JI2	4	23:17	BE	BOT	MSL	49° 45.802	124° 14.421	323	50	164 - 168	5	MB/TS	☐☐	CHL, NUTS
97	JI2	4	23:20	BE	BUCKET	-	49° " "	124° " "	323	∅	169 -	1	MB/TS	☐☐	" "
98	JI2	5	00:00	BE	CTD	-	49° 45.792	124° 14.444	323		—	—	MB/TS	☐☐	TIME 10 LOCAL 17
			00:05	BO			° 45.793	° 14.431		313	-			☐☐	2021-153-0098.xmlc
			00:11	EN			° 45.794	° 14.432			-			☐☐	
99	JI2	5	01:01	BE	CTD		49° 45.797	124° 14.423	327		-		MB/TS	☐☐	TIME 11 LOCAL 18:00
			01:06	BO			° 45.790	° 14.428		317	-			☐☐	2021-153-0099.xmlc
			01:1[illegible]	EN			49° 45.806	124° 14.420			-			☐☐	
100	JI2	5	01:18	BE	BOT	MSL	49° 45.795	124° 14.427	327	50	170 - 174	5	MB/TS	☐☐	CHL, NUTS
101	JI2	5	01:23	BE	BUCKET		49° " "	124° " "	327	∅	175 -	1	MB/TS	☐☐	" "
102	JI6C	5	15:00	BE	CTD		49° 46.535	123° 57.371	168		-		MB/TS	☐☑	TIME 1 LOCAL 08:00
			15:03	BO			49° 46.533	123° 57.379		158	-			☐☐	2021-153-0102.xmlc
			15:06	EN			49° 46.533	123° 57.379			-			☐☐	
103	JI6C	5	15:12	BE	BOT	MSL	49° 46.533	123° 57.382	168	50	176 - 180	5	MB/TS	☐☐	CHL, NUTS
104	JI6C	5	15:16	BE	BUCKET	-	° 46.537	° .392		∅	181 -	1	MB/TS	☐☐	CHL, NUTS
			:				° .	° .			-			☐☐	

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Notes: _____

Produced by the Water Properties Group, IOS

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Version: 17 Feb 2020

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month SEPTEMBER **Year** 2021 **Vessel** VECTOR **Cruise ID** 2021-153

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
105	JI6C	5	16:01	BE	CTD	-	49° 46.541	123° 57.384	168		-	-	MB	☐ ☑	TIME 2' LOCAL 09
			16:04	BO			° 46.544	° 57.389		158	-			☐ ☐	2021-153-0105.xmc
			16:07	EN			° 46.546	° 57.384			-			☐ ☐	
106	JI6C	5	17:00	BE	CTD	-	49° 46.552	123° 57.373	~~168~~ 170		-	-	MB	☐ ☐	TIME 3' LOCAL 1000
			17:03	BO			° 46.570	° 57.368		168	-			☐ ☐	2021-153-0106.xmc
			17:06	EN			49° 46.592	123° 57.355	178	80	-			☐ ☐	
107	JI6C	5	17:11	BE	BOT	MSG	49° 46.625	123° 57.333	178		182 - 186	5	MB	☐ ☐	CHK. NUTS
108	JI6C	5	17:17	BE	BUCKET	-	49° .667	123° 57.334	178		187 -	1	MB	☐ ☐	" "
109	JI6C	5	18:02	BE	CTD	-	49° 46.559	123° 57.377	165		-		MB	☐ ☑	DOUBLE SPIKE
			18:05	BO			° 46.572	° 57.371		155	-			☐ ☐	2021-153-0109.xmc SPACE CAME OUT
			18:08	EN			° 46.570	° 57.366			-			☐ ☐	OF WATER TIME 4'
110	JI6C	5	19:01	BE	CTD	-	49° 46.528	123° 57.352	155		-		MB	☐ ☐	LOCAL 1108 TIME 5' LOCAL 1200
			19:05	BO	BOT	MSG	° 46.551	° 57.337		145	188 -	1		☐ ☐	DEEP SPL
			19:11	EN			° 46.630	° 57.320			-			☐ ☐	2021-153.0110.xmc
111	JI6C	5	19:14	BE	BOT	MSG	49° 46.640	123° 57.325	155	50	189 - 193	5	MB	☐ ☐	CHK. NUTS
112	JI6C	5	19:17	BE	BUCKET	-	49° 46.683	123° 57.307	155	∅	194 -	1	MB	☐ ☐	" "
113	JI6C	5	20:00	BE	CTD	-	49° 46.585	123° 57.387	166		-		MB	☐ ☑	'TIME 6' LOCAL 1300
			20:03	BO			° 46.564	° 57.393		156	-			☐ ☐	2021-153-0113.xmc
			20:06	EN			° 46.578	° 57.375			-			☐ ☐	

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OBSERVED CONSISTENT CURRENT ~10m

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month SEPTEMBER **Year** 2021 **Vessel** VECTOR **Cruise ID** 2021-153

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
114	JI6C	5	21:01	BE	CTD	-	49° 46.540	123° 57.393	168		-	-	MB	☐☐	TIME 7' 1400 LOCAL
			21:04	BO			° 46.543	° 57.361			-			☐☐	2021-153-0114.XMLC
			21:07	EN			° 46.541	° 57.343			-			☐☐	
115	JI6C	5	21:12	BE	BOT	MSC	49° .541	123° 57.282	168	50	B5-199	5		☐☐	CHL,NUTS
116	JI6C	5	21:16	BE	BUCKET	-	49° 46.551	123° 57.246	168	Ø	200	1		☐☐	" "
117	JI6C	5	21:59	BE	CTD	-	49° 46.539	123° 57.365	167		-	-	MB	☐☑	TIME 8' 1500 LOCAL
			22:02	BO			° 46.538	° 57.349		157	-			☐☐	2021-153-0117.XMLC
			22:05	EN			° 46.536	° 57.333			-			☐☐	
118	JI6C	5	23:01	BE	CTD	-	49° 46.537	123° 57.369	157		-	-	MB	☐☐	TIME 9' 1600 LOCAL
			23:03	BO			° 46.535	° 57.360		147	-			☐☐	
			23:06	EN			° 46.528	° 57.355			-			☐☐	2021-153-0118.XMLC
119	JI6C	5	23:09	BE	BOT	MSC	49° 46.513	123° 57.344	157	50	B01-205	5	MB	☐☐	CHL,NUTS
120	JI6C	5	:	BE	BUCKET	-	49° 46.	123° 57.		Ø	206	1	MB	☐☐	CHL,NUTS
121	JI6C	5	23:59	BE	CTD		49° 46.542	123° 57.394	162		-	-	MB	☐☑	TIME 10' 1700 LOCAL
		6	00:01	BO			° 46.536	° 57.393		152	-			☐☐	
		6	00:04	EN			° 46.531	° 57.394			-			☐☐	2021-153-0121.XMLC
122	JI6C	6	00:59	BE	CTD	-	49° 46.538	123° 57.387	159		-	-	MB	☐☑	TIME 11' 1800 LOCAL
			01:00	BO			° 46.538	° 57.886		149	-			☐☐	
			01:06	EN			° 46.530	° 57.346			-			☐☐	

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
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

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

Notes: _____

This page is for any notes or observations

machine running from previous cast or bumped into "On" position.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month SEPTEMBER | **Year** 2021 | **Vessel** VECTOR | **Cruise ID** 2021-153

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
123	JIGC	6	1:11	BE	BOT	MSK	49° 46.514	123° 57.326	159	50	207-211	5	MB	☐☐	CHL ENDS
124	JIGC	6	01:15	BE	BIOGEO	-	49° 46.507	123° 57.270	159	0	212-	1	MB	☐☐	CHL, NUT, PHYTO
125	JIG	6	01:21	BE	GRAB	-	49° 46.887	123° 57.405	159	~159	-	-	TS	☐☐	
			01:24	BO			46.599	57.388			-			☐☐	
			01:27	EN			46.614	57.345			-			☐☐	
END			:0A		CRUISE						-			☐☐	
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SAIL BACK TO IOS