DAILY SCIENCE LOG BOOK

Version FEB2023

Water Properties Group
Fisheries and Oceans Canada
Institue of Ocean Sciences
Ocean Sciences Division
Norh Saanich, BC, Canada
www.waterproperties.ca

Launch Daily Science Log Userform

Print Daily Science Log WorkBook

Cruise Number	***2024-066***

Start Date	15-Oct-24
End Date	28-Oct-24

Vessel	Vector
Project(s)	Inlets

Mission Participants (Department/Agencies):	

Ship Personnel:

Name	***Role***
Scott Shave	*Captain*
	Chief Engineer
	Bosun

Scientific Personnel:

Name	***Role***	***Watch***	***Cabin***	***Name***	***Role***	***Watch***	***Cabin***
David Spear	*Chief Scientist*						
Cindy Wright							
Sophia Johannessen							

Scientific Equipment:

CTD

	Primary						Secondary					
Equipment	***Make***	***Model***	***Serial Number***	***Pump (P, S or No)***	***Depth Rating (m)***	***Comment***	***Make***	***Model***	***Serial Number***	***Pump (P, S or No)***	***Depth Rating (m)***	***Comment***
Data Logging Computer	Lenovo	Thinkcentre	103									
Data Acquisition Program	Seasave											
CTD Deck Unit	SBE	11p	1043									
CTD	sbe	9p	1453									
Temperature Sensor	sbe	3	2023									
Conductivity Sensor	sbe	4	3500									
Temperature Sensor	sbe	3	6565									
Conductivity Sensor	sbe	4	5043									
Transmissometer 1	wetlabs	cstar	1185DR									
Transmissometer 2			1883DG									

Fluorometer	seapoint	scf	3641									
Fluorometer Gain Cable	3x											
Oxygen Sensor	sbe	43	1438									
Additional Sensors…	valeport altimeter		73171									

Setup

Number of Bottles	
Manufacturer	
Volume of Bottles (L)	

Bottles Serial Numbers

1		***9***		***17***		***25***	
2		***10***		***18***		***26***	
3		***11***		***19***		***27***	
4		***12***		***20***		***28***	
5		***13***		***21***		***29***	
6		***14***		***22***		***30***	
7		***15***		***23***		***31***	
8		***16***		***24***		***32***	

Salinometer

Make	*Model*	*Serial Number*	*Comments on Performance During Cruise*

ADCP

		User Exits	
		Name	*Exit Points*
Computer Time Zone			
Sampling Interval (sec)			
Bin Length: (2^x)			
Pulse Length			
Buffer (bytes)			
Gyro Offset			
Work File			

Thermosalinograph System

Make	*Model*	*Serial/kit Number*	*Program*	*Version*	*Comments on Performance During Cruise*

Oxygen kit

Make	*Model*	*Serial/kit Number*	*Comments on Performance During Cruise*
N/A			

Winches

	Make	*Model*	*Serial Number*	*Comment (Describe Application and Performance)*
Winch 1				
Winch 2				
Winch 3				
Winch 4				

CTD Test Cast Information

	CTD Pressure Reading on Deck					
Cast Location	***Before Cast***	***After Cast***	***Pumps Working (Y = 0011/N = 0010)***	***2 ° Temp - 1° Temp (Avg. from mixed layer)***	***2 ° Sal - 1° Sal (Avg. from mixed layer)***	***Additional Comments***
SI			Y			deck pressures varied from -0.2 to zero depending on weather over the course of the cruise

Acoustics

			Frequencies (kHz) - Check Applicable						
Make	***Model***	***Software***	***12***	***18***	***38***	***70***	***120***	***200***	***Comments on Performance During Cruise***

Other Scientific Equipment Used Throughout this Cruise

Additional Equipment Comments During Cruise

Additional Cruise Comments

Pictures (Equipment, Setups etc.)

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number: 2024-066

Vessel: Vector

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Print Daily Science Log WorkBook

Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) Computer ("dd-mm-yyyy hh:mm:ss")	Date Time (UTC) GPS ("dd-mm-yyyy hh:mm:ss")	Positional Information (DDD MM.MMM)		Sounder Depth (m)	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	CTD/Rosette Status			Comments
							Latitute	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
1	SITest	ROS	N/A	BE	15-10-2024 22:46:04	15-10-2024 22:44:17	48 39.312 N	123 29.418 W	103					David Spear	yes	yes	yes	
1	SITest	ROS	N/A	BO	15-10-2024 22:48:27	15-10-2024 22:46:41	48 39.326 N	123 29.428 W		90				David Spear				
1	SITest	ROS	N/A	EN	15-10-2024 22:51:38	15-10-2024 22:49:52	48 39.336 N	123 29.429 W						David Spear				
2	Hoeya 1-1	MOR		RE														missed, see mooring log
3	Hoeya1-2	MOR		DE	17-10-2024 01:36:01	17-10-2024 01:34:13	50 40.684 N	125 56.214 W	431	431				David Spear				
4	Kn4	ROS	US	BE	17-10-2024 01:53:25	17-10-2024 01:51:36	50 40.761 N	125 55.881 W	450		1	18	18	Cindy Wright	yes	no	yes	surface soak
4	Kn4	ROS	US	BO	17-10-2024 02:03:15	17-10-2024 02:01:29	50 40.764 N	125 55.872 W		445	1	18	18	Cindy Wright				
4	Kn4	ROS	US	EN	17-10-2024 02:28:00	17-10-2024 02:26:11	50 40.774 N	125 55.832 W	448		1	18	18	Cindy Wright				
5	CPEI	ROS	US	BE	06-09-1900 00:00:00	17-10-2024 14:03:07	50 59.999 N	127 49.927 W	153		19	26	8	Cindy Wright	yes	no	yes	
5	CPEI	ROS	US	BO	06-09-1900 00:00:00	17-10-2024 14:07:09	51 0.019 N	127 49.97 W		137.5	19	26	8	Cindy Wright				
5	CPEI	ROS	US	EN	06-09-1900 00:00:00	17-10-2024 14:20:48	51 0.133 N	127 50.105 W		137.5	19	26	8	Cindy Wright				
6	CPEI	NET	US	BE	19-02-1900 02:24:00	17-10-2024 14:31:25	51 0.139 N	127 49.901 W	140						NA	NA		
6	CPEI	NET	US	BO	19-02-1900 02:24:00	17-10-2024 14:34:44	51 0.173 N	127 49.927 W		130				Cindy Wright				
6	CPEI	NET	US	EN	19-02-1900 02:24:00	17-10-2024 14:37:27	51 0.189 N	127 49.936 W		130				Cindy Wright				
7	NS0	NET		BE	17-10-2024 17:11:48	17-10-2024 17:10:00	51 5.585 N	127 28.777 W	71	61				Cindy Wright	NA	NA		
7	NS0	NET		BO	17-10-2024 17:12:46	17-10-2024 17:11:00	51 5.59 N	127 28.785 W		61				Cindy Wright				
7	NS0	NET		EN	17-10-2024 17:14:08	17-10-2024 17:12:20	51 5.59 N	127 28.789 W		61				Cindy Wright				
8	NS0	ROS	US	BE	17-10-2024 17:21:12	17-10-2024 17:19:25	51 5.571 N	127 28.764 W	87		27	37	11	Cindy Wright	yes	no	yes	
8	NS0	ROS	US	BO	17-10-2024 17:24:10	17-10-2024 17:22:22	51 5.57 N	127 28.764 W		82.4	27	37	11	Cindy Wright				
8	NS0	ROS	US	EN	17-10-2024 17:33:55	17-10-2024 17:32:08	51 5.562 N	127 28.75 W	87		27	37	11	Cindy Wright				
9	SE1	ROS	N/A	BE	17-10-2024 17:58:55	17-10-2024 17:57:09	51 4.506 N	127 26.435 W	103					Cindy Wright	yes	no	yes	
9	SE1	ROS	N/A	BO	17-10-2024 18:02:24	17-10-2024 18:00:36	51 4.506 N	127 26.431 W		96.3				Cindy Wright				
9	SE1	ROS	N/A	EN	17-10-2024 18:04:43	17-10-2024 18:02:54	51 4.498 N	127 26.431 W						Cindy Wright				
10	SE2	ROS	US	BE	17-10-2024 18:27:33	17-10-2024 18:25:43	51 3.489 N	127 23.468 W	97		38	49	12	Cindy Wright	yes	no	yes	Deck pressure=0.0 to 0.1db
10	SE2	ROS	US	BO	17-10-2024 18:30:48	17-10-2024 18:29:01	51 3.488 N	127 23.469 W		91.9	38	49	12	Cindy Wright				
10	SE2	ROS	US	EN	17-10-2024 18:41:49	17-10-2024 18:40:00	51 3.491 N	127 23.451 W		91.9	38	49	12	Cindy Wright				
11	SE2A	ROS	N/A	BE	17-10-2024 19:17:54	17-10-2024 19:16:06	51 2.292 N	127 19.998 W	72					David Spear	yes	no	yes	auto archiving turned off
11	SE2A	ROS	N/A	BO	17-10-2024 19:19:43	17-10-2024 19:17:54	51 2.29 N	127 20 W	70	68				David Spear				
11	SE2A	ROS	N/A	EN	17-10-2024 19:21:09	17-10-2024 19:19:22	51 2.291 N	127 19.998 W		68				David Spear				
12	SE3	ROS	N/A	BE	17-10-2024 19:50:48	17-10-2024 19:49:01	51 2.881 N	127 15.481 W	446					Cindy Wright	yes	no	yes	
12	SE3	ROS	N/A	BO	17-10-2024 19:59:22	17-10-2024 19:57:33	51 2.87 N	127 15.46 W		440				Cindy Wright				
12	SE3	ROS	N/A	EN	17-10-2024 20:08:02	17-10-2024 20:06:12	51 2.868 N	127 15.428 W						Cindy Wright				
13	SE4	ROS	US	BE	17-10-2024 20:48:03	17-10-2024 20:46:13	51 3.178 N	127 8.032 W	545		50	68	19	Cindy Wright	yes	yes	no	
13	SE4	ROS	US	BO	17-10-2024 20:59:45	17-10-2024 20:57:58	51 3.19 N	127 7.971 W		543	50	68	19	Cindy Wright				
13	SE4	ROS	US	EN	17-10-2024 21:28:06	17-10-2024 21:26:18	51 3.202 N	127 7.951 W	548		50	68	19	Cindy Wright				
14	SE5	NET		BE	17-10-2024 22:06:48	17-10-2024 22:04:57	51 4.265 N	127 0.768 W	614					Cindy Wright	NA	NA		

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Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number: 2024-066

Vessel: Vector

Launch Daily Science Log

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Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) Computer ("dd-mm-yyyy hh:mm:ss")	Date Time (UTC) GPS ("dd-mm-yyyy hh:mm:ss")	Positional Information (DDD MM.MMM)		Sounder Depth (m)	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	CTD/Rosette Status			Comments
							Latitute	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
14	SE5	NET		BO	17-10-2024 22:16:42	17-10-2024 22:14:53	51 4.271 N	127 0.758 W		604				Cindy Wright				
14	SE5	NET		EN	17-10-2024 22:27:21	17-10-2024 22:25:32	51 4.271 N	127 0.72 W		604				Cindy Wright				
15	SE5	ROS	N/A	BE	17-10-2024 22:35:38	17-10-2024 22:33:50	51 4.271 N	127 0.702 W	614					David Spear	yes	no	no	
15	SE5	ROS	N/A	BO	17-10-2024 22:47:49	17-10-2024 22:45:59	51 4.275 N	127 0.699 W		610				David Spear				
15	SE5	ROS	N/A	EN	17-10-2024 22:59:25	17-10-2024 22:57:39	51 4.29 N	127 0.704 W		610				David Spear				
16	FRS1	ROS	N/A	BE	18-10-2024 00:13:23	18-10-2024 00:11:37	51 2.27 N	126 43.043 W	243					David Spear	yes	yes	no	
16	FRS1	ROS	N/A	BO	18-10-2024 00:18:35	18-10-2024 00:16:47	51 2.271 N	126 43.024 W		236				David Spear				
16	FRS1	ROS	N/A	EN	18-10-2024 00:23:44	18-10-2024 00:21:55	51 2.269 N	126 43.01 W						David Spear				
17	SE6	ROS	US	BE	18-10-2024 01:08:17	18-10-2024 01:06:30	51 4.323 N	126 52.242 W	534		69	87	19	Cindy Wright	yes	yes	no	
17	SE6	ROS	US	BO	18-10-2024 01:20:02	18-10-2024 01:18:15	51 4.329 N	126 52.295 W		530	69	87	19	Cindy Wright				
17	SE6	ROS	US	EN	18-10-2024 01:47:35	18-10-2024 01:45:47	51 4.327 N	126 52.352 W	536		69	87	19	Cindy Wright				
18	SE7	ROS	N/A	BE	18-10-2024 02:29:22	18-10-2024 02:27:33	51 5.98 N	126 45.07 W	294					Cindy Wright	yes	yes	no	
18	SE7	ROS	N/A	BO	18-10-2024 02:35:53	18-10-2024 02:34:03	51 6.005 N	126 45.059 W		286				Cindy Wright				
18	SE7	ROS	N/A	EN	18-10-2024 02:41:31	18-10-2024 02:39:43	51 6.024 N	126 45.052 W						Cindy Wright				
19	SE7_5	ROS	US	BE	18-10-2024 03:06:08	18-10-2024 03:04:19	51 8.145 N	126 41.532 W	371		88	104	17		yes	yes	no	
19	SE7_5	ROS	US	BO	18-10-2024 03:14:07	18-10-2024 03:12:18	51 8.152 N	126 41.506 W		366	88	104	17					went past 75 to 70...then back
19	SE7_5	ROS	US	EN	18-10-2024 03:36:31	18-10-2024 03:34:44	51 8.218 N	126 41.388 W	372		88	104	17					
20	SE8	ROS	N/A	BE	18-10-2024 04:03:14	18-10-2024 04:01:26	51 10.963 N	126 39.518 W	137					Cindy Wright	yes	yes	no	
20	SE8	ROS	N/A	BO	18-10-2024 04:07:45	18-10-2024 04:05:56	51 10.968 N	126 39.514 W		133.5				Cindy Wright				
20	SE8	ROS	N/A	EN	18-10-2024 04:10:48	18-10-2024 04:09:00	51 10.976 N	126 39.505 W						Cindy Wright				
21	BE7	ROS	N/A	BE	18-10-2024 14:03:48	18-10-2024 14:01:57	51 6.304 N	126 55.837 W	258					Cindy Wright	yes	yes	no	
21	BE7	ROS	N/A	BO	18-10-2024 14:09:57	18-10-2024 14:08:07	51 6.299 N	126 55.84 W		261				Cindy Wright				
21	BE7	ROS	N/A	EN	18-10-2024 14:15:12	18-10-2024 14:13:24	51 6.304 N	126 55.834 W						Cindy Wright				
22	BE6	ROS	US	BE	18-10-2024 14:54:38	18-10-2024 14:52:50	51 6.552 N	127 2.148 W	331		105	121	17	Cindy Wright	yes	yes	no	
22	BE6	ROS	US	BO	18-10-2024 15:02:12	18-10-2024 15:00:23	51 6.548 N	127 2.122 W		326	105	121	17	Cindy Wright				
22	BE6	ROS	US	EN	18-10-2024 15:23:02	18-10-2024 15:21:15	51 6.542 N	127 2.126 W	331		105	121	17	Cindy Wright				
23	BE5	ROS	N/A	BE	18-10-2024 16:00:26	18-10-2024 15:58:37	51 7.16 N	127 8.921 W	294					Cindy Wright	yes	yes	no	
23	BE5	ROS	N/A	BO	18-10-2024 16:07:28	18-10-2024 16:05:39	51 7.151 N	127 8.951 W		294				Cindy Wright				
23	BE5	ROS	N/A	EN	18-10-2024 16:13:50	18-10-2024 16:12:04	51 7.157 N	127 8.935 W		294				Cindy Wright				
24	BE4	ROS	US	BE	18-10-2024 16:46:41	18-10-2024 16:44:54	51 7.815 N	127 15.278 W	374		122	138	17	Cindy Wright	yes	yes	no	deck pressure = -0.2 (windy/stormy) 35kts gusting to 40
24	BE4	ROS	US	BO	18-10-2024 16:54:56	18-10-2024 16:53:07	51 7.784 N	127 15.275 W		370	122	138	17	Cindy Wright				
24	BE4	ROS	US	EN	18-10-2024 17:11:43	18-10-2024 17:09:55	51 7.791 N	127 15.25 W	376		122	138	17	Cindy Wright				bottle stops flush times shortened
25	ALS1	ROS	US	BE	18-10-2024 18:10:04	18-10-2024 18:08:16	51 10.166 N	127 5.916 W	151		139	151	13		yes	yes	no	

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Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number: 2024-066

Vessel: Vector

Launch Daily Science Log

Print Daily Science Log WorkBook

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							Latitute	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
25	ALS1	ROS	US	BO	18-10-2024 18:14:13	18-10-2024 18:12:24	51 10.167 N	127 5.912 W		146	139	151	13	Cindy Wright				
25	ALS1	ROS	US	EN	18-10-2024 18:27:41	18-10-2024 18:25:52	51 10.171 N	127 5.904 W	151		139	151	13	Cindy Wright				
26	ALS2	ROS	N/A	BE	18-10-2024 19:06:07	18-10-2024 19:04:20	51 10.21 N	127 2.554 W	108					Cindy Wright	yes	yes	no	
26	ALS2	ROS	N/A	BO	18-10-2024 19:09:23	18-10-2024 19:07:36	51 10.21 N	127 2.545 W		102				Cindy Wright				
26	ALS2	ROS	N/A	EN	18-10-2024 19:11:46	18-10-2024 19:09:56	51 10.205 N	127 2.538 W						Cindy Wright				
27	ALS3	NET		BE	18-10-2024 19:46:53	18-10-2024 19:45:02	51 9.992 N	126 56.836 W	135					Cindy Wright	NA	NA		
27	ALS3	NET		BO	18-10-2024 19:49:26	18-10-2024 19:47:37	51 9.984 N	126 56.807 W		125				Cindy Wright				
27	ALS3	NET		EN	18-10-2024 19:51:28	18-10-2024 19:49:37	51 9.99 N	126 56.789 W						Cindy Wright				
28	ALS3	ROS	US	BE	18-10-2024 20:00:10	18-10-2024 19:58:22	51 10.014 N	126 56.783 W	134		152	164	13	David Spear	yes	yes	no	
28	ALS3	ROS	US	BO	18-10-2024 20:03:03	18-10-2024 20:01:15	51 10.009 N	126 56.789 W		129	152	164	13	David Spear				
28	ALS3	ROS	US	EN	18-10-2024 20:17:14	18-10-2024 20:15:27	51 10.019 N	126 56.795 W		129	152	164	13	David Spear				
29	ALS4	ROS	N/A	BE	18-10-2024 20:34:54	18-10-2024 20:33:06	51 10.829 N	126 55.47 W	73					Cindy Wright	yes	yes	no	raining heavily, lots of FW on surface
29	ALS4	ROS	N/A	BO	18-10-2024 20:37:40	18-10-2024 20:35:51	51 10.84 N	126 55.469 W		67.8				Cindy Wright				
29	ALS4	ROS	N/A	EN	18-10-2024 20:39:22	18-10-2024 20:37:34	51 10.84 N	126 55.469 W						Cindy Wright				
30	BE3	ROS	N/A	BE	19-10-2024 00:37:40	19-10-2024 00:35:52	51 7.885 N	127 22.193 W	285					Cindy Wright	yes	yes	no	
30	BE3	ROS	N/A	BO	19-10-2024 00:44:10	19-10-2024 00:42:21	51 7.877 N	127 22.174 W		279				Cindy Wright				
30	BE3	ROS	N/A	EN	19-10-2024 00:50:14	19-10-2024 00:48:24	51 7.858 N	127 22.158 W		279				Cindy Wright				
31	MES2	ROS	N/A	BE	19-10-2024 01:22:47	19-10-2024 01:21:00	51 9.947 N	127 25.109 W	89					Cindy Wright	yes	yes	no	
31	MES2	ROS	N/A	BO	19-10-2024 01:25:56	19-10-2024 01:24:07	51 9.946 N	127 25.118 W		80.3				Cindy Wright				bouncy altimter
31	MES2	ROS	N/A	EN	19-10-2024 01:27:41	19-10-2024 01:25:52	51 9.945 N	127 25.118 W						Cindy Wright				
32	MES3	ROS	N/A	BE	19-10-2024 01:48:05	19-10-2024 01:46:16	51 11.66 N	127 24.659 W	93					Cindy Wright	yes	yes	no	
32	MES3	ROS	N/A	BO	19-10-2024 01:49:35	19-10-2024 01:47:48	51 11.665 N	127 24.656 W		87				Cindy Wright				
32	MES3	ROS	N/A	EN	19-10-2024 01:51:37	19-10-2024 01:49:50	51 11.668 N	127 24.647 W						Cindy Wright				
33	MES4	NET		BE	19-10-2024 02:17:59	19-10-2024 02:16:12	51 11.845 N	127 21.29 W	163					Cindy Wright	NA	NA		
33	MES4	NET		BO	19-10-2024 02:20:53	19-10-2024 02:19:03	51 11.845 N	127 21.27 W						Cindy Wright				
33	MES4	NET		EN	19-10-2024 02:23:34	19-10-2024 02:21:46	51 11.845 N	127 21.257 W		154				Cindy Wright				
34	MES4	ROS	US	BE	19-10-2024 02:32:57	19-10-2024 02:31:07	51 11.845 N	127 21.272 W	165		165	177	13	David Spear	yes	yes	no	
34	MES4	ROS	US	BO	19-10-2024 02:36:33	19-10-2024 02:34:45	51 11.842 N	127 21.268 W		159	165	177	13	David Spear				
34	MES4	ROS	US	EN	19-10-2024 02:51:31	19-10-2024 02:49:45	51 11.829 N	127 21.22 W			165	177	13	David Spear				
35	MES5	ROS	N/A	BE	19-10-2024 03:18:33	19-10-2024 03:16:46	51 11.586 N	127 16.336 W	131					Cindy Wright	yes	yes	no	
35	MES5	ROS	N/A	BO	19-10-2024 03:21:00	19-10-2024 03:19:12	51 11.59 N	127 16.332 W		126				Cindy Wright				
35	MES5	ROS	N/A	EN	19-10-2024 03:23:51	19-10-2024 03:22:02	51 11.593 N	127 16.333 W		126				Cindy Wright				
36	MES1	ROS	N/A	BE	19-10-2024 14:12:14	19-10-2024 14:10:24	51 8.846 N	127 24.737 W	83					Cindy Wright	yes	yes	no	
36	MES1	ROS	N/A	BO	19-10-2024 14:15:08	19-10-2024 14:13:20	51 8.853 N	127 24.729 W		78				Cindy Wright				
36	MES1	ROS	N/A	EN	19-10-2024 14:17:07	19-10-2024 14:15:17	51 8.848 N	127 24.732 W						Cindy Wright				

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number: 2024-066

Vessel: Vector

Launch Daily Science Log

Print Daily Science Log WorkBook

Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) Computer ("dd-mm-yyyy hh:mm:ss")	Date Time (UTC) GPS ("dd-mm-yyyy hh:mm:ss")	Positional Information (DDD MM.MMM)		Sounder Depth (m)	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	CTD/Rosette Status			Comments
							Latitute	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
37	MES0	ROS	US	BE	19-10-2024 14:32:43	19-10-2024 14:30:54	51 7.781 N	127 25.205 W	209		178	191	14	Cindy Wright	yes	yes	no	Deck pressure=-0.1db, still a bit
37	MES0	ROS	US	BO	19-10-2024 14:37:42	19-10-2024 14:35:55	51 7.799 N	127 25.214 W		203	178	191	14	Cindy Wright				
37	MES0	ROS	US	EN	19-10-2024 14:54:26	19-10-2024 14:52:36	51 7.791 N	127 25.233 W	208		178	191	14	Cindy Wright				
38	BE2	ROS	N/A	BE	19-10-2024 15:24:20	19-10-2024 15:22:30	51 7.867 N	127 30.511 W	194					Cindy Wright	yes	yes	no	BE started late at 107m
38	BE2	ROS	N/A	BO	19-10-2024 15:26:18	19-10-2024 15:24:29	51 7.865 N	127 30.511 W		189				Cindy Wright				
38	BE2	ROS	N/A	EN	19-10-2024 15:31:23	19-10-2024 15:29:33	51 7.87 N	127 30.516 W		189				Cindy Wright				
39	BE1	ROS	US	BE	19-10-2024 15:53:22	19-10-2024 15:51:32	51 7.703 N	127 34.359 W	225		192	206	15	Cindy Wright	yes	yes	no	
39	BE1	ROS	US	BO	19-10-2024 15:58:49	19-10-2024 15:57:02	51 7.701 N	127 34.353 W		220	192	206	15	Cindy Wright				
39	BE1	ROS	US	EN	19-10-2024 16:17:55	19-10-2024 16:16:06	51 7.702 N	127 34.357 W	224		192	206	15	Cindy Wright				
40	NS1	ROS	N/A	BE	19-10-2024 17:05:46	19-10-2024 17:03:56	51 5.442 N	127 25.779 W	75					Cindy Wright	yes	yes	no	
40	NS1	ROS	N/A	BO	19-10-2024 17:08:21	19-10-2024 17:06:31	51 5.44 N	127 25.774 W		71				Cindy Wright				
40	NS1	ROS	N/A	EN	19-10-2024 17:10:26	19-10-2024 17:08:39	51 5.441 N	127 25.762 W						Cindy Wright				
41	SC01	ROS	N/A	BE	19-10-2024 18:15:26	19-10-2024 18:13:39	51 5.51 N	127 31.454 W	80					David Spear	yes	yes	no	
41	SC01	ROS	N/A	BO	19-10-2024 18:17:16	19-10-2024 18:15:26	51 5.506 N	127 31.448 W		73				David Spear				
41	SC01	ROS	N/A	EN	19-10-2024 18:19:05	19-10-2024 18:17:18	51 5.513 N	127 31.446 W		73				David Spear				
42	BUR1	ROS	US	BE	20-10-2024 01:43:27	20-10-2024 01:41:32	51 54.216 N	127 56.898 W	355		207	223	17	Cindy Wright	yes	yes	no	
42	BUR1	ROS	US	BO	20-10-2024 01:51:43	20-10-2024 01:49:50	51 54.184 N	127 56.86 W		341.2	207	223	17	Cindy Wright				
42	BUR1	ROS	US	EN	20-10-2024 02:14:45	20-10-2024 02:12:50	51 54.05 N	127 56.784 W	357		207	223	17	Cindy Wright				
43	BUR2	ROS	N/A	BE	20-10-2024 13:57:59	20-10-2024 13:56:02	51 58.641 N	127 40.872 W	244					David Spear	yes	yes	no	
43	BUR2	ROS	N/A	BO	20-10-2024 14:02:59	20-10-2024 14:01:05	51 58.646 N	127 40.864 W		238				David Spear				
43	BUR2	ROS	N/A	EN	20-10-2024 14:07:41	20-10-2024 14:05:47	51 58.647 N	127 40.862 W		238				David Spear				
44	BUR4	ROS	N/A	BE	20-10-2024 15:28:52	20-10-2024 15:26:58	52 8.186 N	127 35.199 W	438					David Spear	yes	yes	no	
44	BUR4	ROS	N/A	BO	20-10-2024 15:37:16	20-10-2024 15:35:21	52 8.188 N	127 35.193 W		434				David Spear				
44	BUR4	ROS	N/A	EN	20-10-2024 15:45:32	20-10-2024 15:43:36	52 8.181 N	127 35.185 W		434				David Spear				
45	KW1	ROS	N/A	BE	20-10-2024 16:49:51	20-10-2024 16:47:57	52 5.806 N	127 27.826 W	438					Cindy Wright	yes	yes	no	
45	KW1	ROS	N/A	BO	20-10-2024 16:59:11	20-10-2024 16:57:14	52 5.817 N	127 27.83 W		433				Cindy Wright				Spikes showing up rather regular in the FL today. Will check connector
45	KW1	ROS	N/A	EN	20-10-2024 17:07:47	20-10-2024 17:05:51	52 5.804 N	127 27.81 W						David Spear				cleaned and silicon lubed both ends of the fluorometer cable
46	Bur6	NET		BE	20-10-2024 18:22:26	20-10-2024 18:20:30	52 14.302 N	127 22.655 W	593	583				Cindy Wright	NA	NA		
46	Bur6	NET		BO	20-10-2024 18:32:38	20-10-2024 18:30:43	52 14.312 N	127 22.655 W		583				Cindy Wright				
46	Bur6	NET		EN	20-10-2024 18:42:44	20-10-2024 18:40:50	52 14.303 N	127 22.662 W		583				Cindy Wright				
47	BUR 6	ROS	N/A	BE	20-10-2024 18:50:55	20-10-2024 18:48:59	52 14.292 N	127 22.671 W	594					Cindy Wright	yes	yes	no	
47	BUR 6	ROS	N/A	BO	20-10-2024 19:03:27	20-10-2024 19:01:32	52 14.3 N	127 22.676 W		589				Cindy Wright				
47	BUR 6	ROS	N/A	EN	20-10-2024 19:14:46	20-10-2024 19:12:51	52 14.305 N	127 22.66 W						Cindy Wright				

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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							Latitute	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
48	BUR8	ROS	N/A	BE	20-10-2024 20:22:08	20-10-2024 20:20:11	52 19.75 N	127 10.92 W	566					David Spear	yes	yes	no	
48	BUR8	ROS	N/A	BO	20-10-2024 20:32:56	20-10-2024 20:31:00	52 19.766 N	127 10.886 W		563				David Spear				
48	BUR8	ROS	US	EN	20-10-2024 21:03:40	20-10-2024 21:01:45	52 19.722 N	127 10.776 W		563	224	242	19	David Spear				Lots of woody debris in water: fir needles, sticks, leaves, logs. Closed surface bottle ~ 6" below surface, so probably no debris in surface samples. Debris got into open bottles and all over rosette on recovery. Should float off during next deployment.
49	BUR10	ROS	N/A	BE	20-10-2024 22:32:45	20-10-2024 22:30:49	52 22.785 N	126 49.981 W	266					Cindy Wright	yes	yes	no	
49	BUR10	ROS	N/A	BO	20-10-2024 22:38:54	20-10-2024 22:36:57	52 22.807 N	126 49.957 W		262				Cindy Wright				
49	BUR10	ROS	N/A	EN	20-10-2024 22:44:11	20-10-2024 22:42:15	52 22.811 N	126 49.934 W						Cindy Wright				
50	BUR12	ROS	N/A	BE	20-10-2024 23:46:56	20-10-2024 23:45:02	52 17.181 N	126 58.098 W	457					David Spear	yes	yes	no	
50	BUR12	ROS	N/A	BO	20-10-2024 23:55:44	20-10-2024 23:53:48	52 17.19 N	126 58.072 W		452				David Spear				
50	BUR12	ROS	N/A	EN	21-10-2024 00:04:10	21-10-2024 00:02:16	52 17.196 N	126 58.089 W		452				David Spear				
51	BUR13	ROS	N/A	BE	21-10-2024 00:47:30	21-10-2024 00:45:34	52 11.481 N	126 54.407 W	280					Cindy Wright	yes	yes	no	
51	BUR13	ROS	N/A	BO	21-10-2024 00:53:53	21-10-2024 00:51:59	52 11.471 N	126 54.383 W		275				Cindy Wright				
52	BUR14	ROS	US	BE	21-10-2024 01:44:15	21-10-2024 01:42:20	52 7.416 N	126 47.148 W	293		243	255	13	David Spear	yes	yes	no	
52	BUR14	ROS	US	BO	21-10-2024 01:49:45	21-10-2024 01:47:51	52 7.409 N	126 47.132 W		287	243	255	13	David Spear				
52	BUR14	ROS	US	EN	21-10-2024 02:09:00	21-10-2024 02:07:02	52 7.414 N	126 47.125 W		287	243	255	13	David Spear				
53	BUR15	ROS	N/A	BE	21-10-2024 02:49:46	21-10-2024 02:47:50	52 3.154 N	126 42.308 W	218					David Spear	yes	yes	no	
53	BUR15	ROS	N/A	BO	21-10-2024 02:54:13	21-10-2024 02:52:17	52 3.145 N	126 42.311 W		212				David Spear				
53	BUR15	ROS	N/A	EN	21-10-2024 02:58:31	21-10-2024 02:56:36	52 3.149 N	126 42.312 W		212				David Spear				
54	DE10	ROS	N/A	BE	21-10-2024 14:03:08	21-10-2024 14:01:13	52 49.907 N	126 59.636 W	166					Cindy Wright	yes	yes	no	
54	DE10	ROS	N/A	BO	21-10-2024 14:08:06	21-10-2024 14:06:10	52 49.914 N	126 59.642 W		160				Cindy Wright				
54	DE10	ROS	N/A	EN	21-10-2024 14:11:26	21-10-2024 14:09:28	52 49.917 N	126 59.63 W		160				Cindy Wright				
55	DE09	NET		BE	21-10-2024 15:05:18	21-10-2024 15:03:23	52 44.036 N	126 57.316 W	454					Cindy Wright	NA	NA		
55	DE09	NET		BO	21-10-2024 15:12:54	21-10-2024 15:10:58	52 44.024 N	126 57.326 W		445				Cindy Wright				
55	DE09	NET		EN	21-10-2024 15:21:21	21-10-2024 15:19:25	52 44.041 N	126 57.323 W						Cindy Wright				Final TSK reading lower than start???
56	DE09	ROS	US	BE	21-10-2024 15:39:01	21-10-2024 15:37:05	52 44.036 N	126 57.328 W	454		256	273	18	David Spear	yes	yes	no	
56	DE09	ROS	US	BO	21-10-2024 15:47:43	21-10-2024 15:45:49	52 44.046 N	126 57.317 W		448	256	273	18	David Spear				
56	DE09	ROS	US	EN	21-10-2024 16:13:07	21-10-2024 16:11:10	52 44.03 N	126 57.337 W		448	256	273	18	David Spear				
57	DE08	ROS	N/A	BE	21-10-2024 17:01:57	21-10-2024 17:00:02	52 38.305 N	127 0.563 W	484					Cindy Wright	yes	yes	no	

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							Latitute	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
57	DE08	ROS	N/A	BO	21-10-2024 17:12:34	21-10-2024 17:10:37	52 38.293 N	127 0.539 W		479				Cindy Wright				
57	DE08	ROS	N/A	EN	21-10-2024 17:21:49	21-10-2024 17:19:52	52 38.307 N	127 0.526 W						Cindy Wright				
58	DE07	ROS	N/A	BE	21-10-2024 18:15:20	21-10-2024 18:13:24	52 34.964 N	127 8.338 W	433					Cindy Wright	yes	yes	no	
58	DE07	ROS	N/A	BO	21-10-2024 18:24:47	21-10-2024 18:22:52	52 34.959 N	127 8.342 W		438.5				Cindy Wright				
58	DE07	ROS	N/A	EN	21-10-2024 18:33:01	21-10-2024 18:31:03	52 34.961 N	127 8.334 W		438.5				Cindy Wright				
59	DE06	ROS	N/A	BE	21-10-2024 19:28:56	21-10-2024 19:26:59	52 29.259 N	127 14.719 W	498					Cindy Wright	yes	yes	no	deck pressures 0.0 to -0.1 db
59	DE06	ROS	N/A	BO	21-10-2024 19:39:35	21-10-2024 19:37:37	52 29.276 N	127 14.705 W		493				Cindy Wright				
59	DE06	ROS	N/A	EN	21-10-2024 19:49:10	21-10-2024 19:47:14	52 29.287 N	127 14.702 W		493				Cindy Wright				
60	DE05	ROS	N/A	BE	21-10-2024 20:34:30	21-10-2024 20:32:34	52 24.663 N	127 20.99 W	498					Cindy Wright	yes	yes	no	
60	DE05	ROS	N/A	EN	21-10-2024 20:44:09	21-10-2024 20:42:13	52 24.662 N	127 20.99 W		494				Cindy Wright				
60	DE05	ROS	N/A	BO	21-10-2024 20:53:41	21-10-2024 20:51:45	52 24.657 N	127 20.967 W										
61	Cas1	ROS	N/A	BE	21-10-2024 22:35:12	21-10-2024 22:33:17	52 27.149 N	127 27.988 W	292					David Spear	yes	yes	no	
61	Cas1	ROS	N/A	BO	21-10-2024 22:40:44	21-10-2024 22:38:47	52 27.147 N	127 27.999 W		287				David Spear				
61	Cas1	ROS	N/A	EN	21-10-2024 22:46:03	21-10-2024 22:44:07	52 27.151 N	127 27.997 W		287				David Spear				
62	CaS2	ROS	US	BE	21-10-2024 23:23:28	21-10-2024 23:21:34	52 31.495 N	127 32.993 W	304		274	289	16	Cindy Wright	yes	yes	no	
62	CaS2	ROS	US	BO	21-10-2024 23:30:29	21-10-2024 23:28:32	52 31.505 N	127 33.011 W		299	274	289	16	Cindy Wright				
62	CaS2	ROS	US	EN	21-10-2024 23:51:11	21-10-2024 23:49:12	52 31.512 N	127 33.013 W		299	274	289	16	Cindy Wright				
63	Cas3	ROS	N/A	BE	22-10-2024 00:33:49	22-10-2024 00:31:51	52 34.992 N	127 36.683 W	213					David Spear	yes	yes	no	
63	Cas3	ROS	N/A	BO	22-10-2024 00:37:53	22-10-2024 00:35:57	52 34.996 N	127 36.69 W		207				David Spear				
63	Cas3	ROS	N/A	EN	22-10-2024 00:41:36	22-10-2024 00:39:39	52 34.995 N	127 36.691 W		207				David Spear				
64	DE04	ROS	US	BE	22-10-2024 02:38:57	22-10-2024 02:37:02	52 20.513 N	127 28.365 W	520		290	308	19	Cindy Wright	yes	yes	no	
64	DE04	ROS	US	BO	22-10-2024 02:50:05	22-10-2024 02:48:10	52 20.519 N	127 28.355 W		515.5	290	308	19	Cindy Wright				
64	DE04	ROS	US	EN	22-10-2024 03:16:05	22-10-2024 03:14:10	52 20.558 N	127 28.324 W	520		290	308	19	Cindy Wright				
65	DE02	ROS	N/A	BE	22-10-2024 04:09:48	22-10-2024 04:07:52	52 16.9 N	127 39.5 W	360					Cindy Wright	yes	yes	no	stopped at 71db to adjust gears on winch and then proceeded
65	DE02	ROS	N/A	BO	22-10-2024 04:17:04	22-10-2024 04:15:06	52 16.903 N	127 39.486 W		356				Cindy Wright				
65	DE02	ROS	N/A	EN	22-10-2024 04:24:12	22-10-2024 04:22:17	52 16.9 N	127 39.465 W		356				Cindy Wright				
66	DE01	ROS	N/A	BE	22-10-2024 04:57:54	22-10-2024 04:55:57	52 14.923 N	127 46.96 W	425					David Spear	yes	yes	no	
66	DE01	ROS	N/A	BO	22-10-2024 05:06:10	22-10-2024 05:04:15	52 14.935 N	127 46.926 W		421				David Spear				
66	DE01	ROS	N/A	EN	22-10-2024 05:15:11	22-10-2024 05:13:13	52 14.954 N	127 46.895 W		421				David Spear				
67	RO5	ROS	N/A	BE	22-10-2024 14:02:11	22-10-2024 14:00:16	52 27.997 N	127 44.795 W	99					Cindy Wright	yes	yes	no	
67	RO5	ROS	N/A	BO	22-10-2024 14:05:24	22-10-2024 14:03:26	52 27.994 N	127 44.789 W		95				Cindy Wright				
67	RO5	ROS	N/A	EN	22-10-2024 14:07:33	22-10-2024 14:05:38	52 27.989 N	127 44.785 W		95				Cindy Wright				
68	RO4	ROS	US	BE	22-10-2024 14:57:13	22-10-2024 14:55:18	52 29.911 N	127 50.831 W	142		309	321	13	Cindy Wright	yes	yes	no	
68	RO4	ROS	US	BO	22-10-2024 15:01:06	22-10-2024 14:59:10	52 29.925 N	127 50.83 W		138	309	321	13	Cindy Wright				

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							Latitute	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
68	RO4	ROS	US	EN	22-10-2024 15:14:31	22-10-2024 15:12:33	52 29.928 N	127 50.834 W	142		309	321	13	Cindy Wright				
69	RO3	NET		BE	22-10-2024 15:50:31	22-10-2024 15:48:33	52 27.094 N	127 54.941 W	169	159				Cindy Wright	NA	NA		
69	RO3	NET		BO	22-10-2024 15:53:06	22-10-2024 15:51:11	52 27.093 N	127 54.942 W		159				Cindy Wright				
69	RO3	NET		EN	22-10-2024 15:58:22	22-10-2024 15:56:27	52 27.092 N	127 54.938 W		159				Cindy Wright				
70	RO3	ROS	N/A	BE	22-10-2024 16:07:42	22-10-2024 16:05:47	52 27.092 N	127 54.943 W	169					Sophia Johanr	yes	yes	no	
70	RO3	ROS	N/A	BO	22-10-2024 16:11:58	22-10-2024 16:10:02	52 27.094 N	127 54.941 W		163				Sophia Johannessen				
70	RO3	ROS	N/A	EN	22-10-2024 16:14:50	22-10-2024 16:12:54	52 27.095 N	127 54.95 W		163				Sophia Johannessen				
71	RO2	ROS	US	BE	22-10-2024 16:50:59	22-10-2024 16:49:02	52 22.746 N	127 52.464 W	132		322	334	13	Cindy Wright	yes	yes	no	
71	RO2	ROS	US	BO	22-10-2024 16:54:36	22-10-2024 16:52:41	52 22.725 N	127 52.46 W		127	322	334	13	Cindy Wright				
71	RO2	ROS	US	EN	22-10-2024 17:08:10	22-10-2024 17:06:16	52 22.716 N	127 52.44 W	134		322	334	13	Cindy Wright				
72	RO1	ROS	N/A	BE	22-10-2024 17:35:02	22-10-2024 17:33:07	52 19.753 N	127 56.049 W	217					Cindy Wright	yes	yes	no	
72	RO1	ROS	N/A	BO	22-10-2024 17:40:40	22-10-2024 17:38:43	52 19.745 N	127 56.052 W		213				Cindy Wright				
72	RO1	ROS	N/A	EN	22-10-2024 17:44:48	22-10-2024 17:42:54	52 19.751 N	127 56.048 W		213				Cindy Wright				
73	BR1	NET		BE	22-10-2024 18:58:46	22-10-2024 18:56:51	52 25.879 N	127 59.496 W	72					Cindy Wright	NA	NA		
73	BR1	NET		BO	22-10-2024 19:00:45	22-10-2024 18:58:50	52 25.884 N	127 59.489 W						Cindy Wright				
73	BR1	NET		EN	22-10-2024 19:02:04	22-10-2024 19:00:07	52 25.885 N	127 59.472 W		62				Cindy Wright				
74	BR1	ROS	US	BE	22-10-2024 19:10:57	22-10-2024 19:09:00	52 25.866 N	127 59.48 W	72		335	345	11	David Spear	yes	yes	no	
74	BR1	ROS	US	BO	22-10-2024 19:12:24	22-10-2024 19:10:29	52 25.862 N	127 59.478 W		66.6	335	345	11	David Spear				
74	BR1	ROS	US	EN	22-10-2024 19:22:41	22-10-2024 19:20:44	52 25.863 N	127 59.511 W		66.6	335	345	11	David Spear				
75	BR0	ROS	N/A	BE	22-10-2024 20:04:06	22-10-2024 20:02:11	52 20.876 N	128 0.475 W	48					Cindy Wright	yes	yes	no	
75	BR0	ROS	N/A	BO	22-10-2024 20:06:11	22-10-2024 20:04:13	52 20.866 N	128 0.477 W		43.8				Cindy Wright				
75	BR0	ROS	N/A	EN	22-10-2024 20:07:28	22-10-2024 20:05:34	52 20.861 N	128 0.48 W	48.7					Cindy Wright				
76	RC1	ROS	N/A	BE	22-10-2024 20:38:30	22-10-2024 20:36:34	52 18.902 N	128 2.115 W	195					Cindy Wright	yes	yes	no	
76	RC1	ROS	N/A	BO	22-10-2024 20:43:42	22-10-2024 20:41:47	52 18.889 N	128 2.087 W		191				Cindy Wright				
76	RC1	ROS	N/A	EN	22-10-2024 20:47:34	22-10-2024 20:45:37	52 18.891 N	128 2.059 W		191				Cindy Wright				
77	SP1	ROS	N/A	BE	22-10-2024 21:57:54	22-10-2024 21:55:59	52 19.079 N	128 12.705 W	3987					Cindy Wright	yes	yes	no	
77	SP1	ROS	N/A	BO	22-10-2024 22:06:19	22-10-2024 22:04:25	52 19.092 N	128 12.692 W		383				Cindy Wright				
77	SP1	ROS	N/A	EN	22-10-2024 22:13:38	22-10-2024 22:11:42	52 19.098 N	128 12.689 W						Cindy Wright				
78	SP2	ROS	US	BE	22-10-2024 22:51:33	22-10-2024 22:49:37	52 23.408 N	128 8.885 W	471		346	363	18	David Spear	yes	yes	no	
78	SP2	ROS	US	BO	22-10-2024 23:00:29	22-10-2024 22:58:32	52 23.409 N	128 8.868 W		480	346	363	18	David Spear				
78	SP2	ROS	US	EN	22-10-2024 23:26:22	22-10-2024 23:24:25	52 23.413 N	128 8.871 W		480	346	363	18	David Spear				
79	SP3	ROS	N/A	BE	23-10-2024 00:32:55	23-10-2024 00:30:59	52 27.699 N	128 5.24 W	499					Cindy Wright	yes	yes	no	one spike at depth in T and S and Tr. No drop out
79	SP3	ROS	N/A	BO	23-10-2024 00:43:46	23-10-2024 00:41:51	52 27.701 N	128 5.234 W		496				Cindy Wright				
79	SP3	ROS	N/A	EN	23-10-2024 00:53:17	23-10-2024 00:51:19	52 27.71 N	128 5.231 W		496				Cindy Wright				
80	SP4	ROS	US	BE	23-10-2024 01:37:20	23-10-2024 01:35:22	52 33.56 N	128 6.176 W	228		364	377	14	Cindy Wright	yes	yes	no	

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number: 2024-066

Vessel: Vector

Launch Daily Science Log

Print Daily Science Log WorkBook

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							Latitute	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
80	SP4	ROS	US	BO	23-10-2024 01:43:08	23-10-2024 01:41:12	52 33.566 N	128 6.156 W		223	364	377	14	Cindy Wright				
80	SP4	ROS	US	EN	23-10-2024 01:59:17	23-10-2024 01:57:19	52 33.582 N	128 6.16 W	229		364	377	14	Cindy Wright				
81	SP5	NET		BE	23-10-2024 02:29:03	23-10-2024 02:27:09	52 36.497 N	128 4.09 W	225					Cindy Wright	NA	NA		
81	SP5	NET		BO	23-10-2024 02:32:21	23-10-2024 02:30:24	52 36.498 N	128 4.089 W		216				Cindy Wright				
81	SP5	NET		EN	23-10-2024 02:35:42	23-10-2024 02:33:46	52 36.502 N	128 4.081 W		216				Cindy Wright				
82	SP5	ROS	N/A	BE	23-10-2024 02:44:01	23-10-2024 02:42:04	52 36.5 N	128 4.076 W	225					David Spear	yes	yes	no	
82	SP5	ROS	N/A	BO	23-10-2024 02:48:19	23-10-2024 02:46:25	52 36.5 N	128 4.074 W		221				David Spear				
82	SP5	ROS	N/A	EN	23-10-2024 02:52:24	23-10-2024 02:50:28	52 36.508 N	128 4.075 W						David Spear				
83	MC1	ROS	US	BE	23-10-2024 14:00:19	23-10-2024 13:58:22	52 22.164 N	128 21.292 W	261		378	392	15	Cindy Wright	yes	yes	no	
83	MC1	ROS	US	BO	23-10-2024 14:07:05	23-10-2024 14:05:09	52 22.168 N	128 21.289 W		255	378	392	15	Cindy Wright				
83	MC1	ROS	US	EN	23-10-2024 14:25:04	23-10-2024 14:23:07	52 22.169 N	128 21.282 W	261		378	392	15	Cindy Wright				
84	MC2	NET		BE	23-10-2024 15:27:02	23-10-2024 15:25:04	52 29.079 N	128 14.758 W	421					Sophia Johanr	NA	NA		
84	MC2	NET		BO	23-10-2024 15:35:25	23-10-2024 15:33:27	52 29.077 N	128 14.752 W	421					Sophia Johannessen				
84	MC2	NET		EN	23-10-2024 15:43:24	23-10-2024 15:41:28	52 29.079 N	128 14.74 W						Sophia Johannessen				
85	MC2	CTD		BE	23-10-2024 15:54:39	23-10-2024 15:52:43	52 29.075 N	128 14.739 W	422					Sophia Johanr	yes	yes		
85	MC2	CTD		BO	23-10-2024 16:03:54	23-10-2024 16:01:56	52 29.067 N	128 14.75 W	421	432				Sophia Johannessen				
85	MC2	CTD		EN	23-10-2024 16:12:18	23-10-2024 16:10:21	52 29.077 N	128 14.74 W		432				Sophia Johannessen				Sounder depth kept changing. 421 m was the minimum depth that it reported. Rosette went down to 5 m off the bottom, according to the altimeter.
86	OP	CTD		BE	23-10-2024 16:39:42	23-10-2024 16:37:47	52 28.746 N	128 18.558 W	299					Sophia Johanr	yes	yes		
86	OP	CTD		BO	23-10-2024 16:47:04	23-10-2024 16:45:09	52 28.749 N	128 18.544 W		295				Sophia Johannessen				
86	OP	CTD		EN	23-10-2024 16:52:14	23-10-2024 16:50:19	52 28.753 N	128 18.533 W		295				Sophia Johannessen				
87	MC3	ROS	US	BE	23-10-2024 17:47:41	23-10-2024 17:45:44	52 35.137 N	128 14.794 W	410		393	409	17	David Spear	yes	yes	no	
87	MC3	ROS	US	BO	23-10-2024 17:55:36	23-10-2024 17:53:38	52 35.136 N	128 14.798 W		406	393	409	17	David Spear				
87	MC3	ROS	US	EN	23-10-2024 18:19:41	23-10-2024 18:17:45	52 35.145 N	128 14.792 W		406	393	409	17	David Spear				
88	MC4	ROS	N/A	BE	23-10-2024 19:13:05	23-10-2024 19:11:07	52 42.437 N	128 10.021 W	618					Cindy Wright	yes	yes	no	
88	MC4	ROS	N/A	BO	23-10-2024 19:25:52	23-10-2024 19:23:53	52 42.444 N	128 10.004 W		614				Cindy Wright				
88	MC4	ROS	N/A	EN	23-10-2024 19:37:47	23-10-2024 19:35:48	52 42.455 N	128 10.006 W		614				Cindy Wright				
89	KY1	ROS	US	BE	23-10-2024 20:39:44	23-10-2024 20:37:49	52 45.052 N	127 59.519 W			410	424	15	Cindy Wright	yes	yes	no	
89	KY1	ROS	US	BO	23-10-2024 20:48:33	23-10-2024 20:46:35	52 45.06 N	127 59.493 W		401.4	410	424	15	Cindy Wright				
89	KY1	ROS	US	EN	23-10-2024 21:09:07	23-10-2024 21:07:09	52 45.059 N	127 59.487 W	406		410	424	15	Cindy Wright				
90	MU1	ROS	US	BE	23-10-2024 22:31:36	23-10-2024 22:29:38	52 52.509 N	128 8.676 W	337		427	443	17	Cindy Wright	yes	yes	no	
90	MU1	ROS	US	BO	23-10-2024 22:39:03	23-10-2024 22:37:07	52 52.514 N	128 8.666 W		331	427	443	17	Cindy Wright				
90	MU1	ROS	US	EN	23-10-2024 23:00:12	23-10-2024 22:58:17	52 52.512 N	128 8.682 W		331	427	443	17	Cindy Wright				

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							Latitute	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
91	MU2	NET		BE	23-10-2024 23:26:49	23-10-2024 23:24:53	52 54.194 N	128 5.078 W	236					Cindy Wright	NA	NA		
91	MU2	NET		BO	23-10-2024 23:31:05	23-10-2024 23:29:09	52 54.19 N	128 5.024 W						Cindy Wright				
91	MU2	NET		EN	23-10-2024 23:35:00	23-10-2024 23:33:05	52 54.194 N	128 5.011 W						Cindy Wright				
92	MU2	ROS	N/A	BE	23-10-2024 23:41:39	23-10-2024 23:39:43	52 54.182 N	128 5.014 W	236					Sophia Johanr	yes	yes	no	
92	MU2	ROS	N/A	BO	23-10-2024 23:47:29	23-10-2024 23:45:34	52 54.178 N	128 5.029 W		233				Sophia Johannessen				
92	MU2	ROS	N/A	EN	23-10-2024 23:52:04	23-10-2024 23:50:09	52 54.184 N	128 5.042 W		233				Sophia Johannessen				
93	SP	ROS	US	BE	24-10-2024 01:00:49	24-10-2024 00:58:54	52 47.444 N	128 16.056 W	342		444	460	17	David Spear	yes	yes	no	
93	SP	ROS	US	BO	24-10-2024 01:07:36	24-10-2024 01:05:38	52 47.441 N	128 16.102 W		339	444	460	17	David Spear				
93	SP	ROS	US	EN	24-10-2024 01:30:28	24-10-2024 01:28:31	52 47.455 N	128 16.104 W		339	444	460	17	David Spear				See rosette log for firing mistake
94	FC3	NET		BE	24-10-2024 02:15:32	24-10-2024 02:13:33	52 47.888 N	128 25.734 W	559					Cindy Wright	NA	NA		
94	FC3	NET		BO	24-10-2024 02:25:13	24-10-2024 02:23:17	52 47.895 N	128 25.747 W		549				Cindy Wright				
94	FC3	NET		EN	24-10-2024 02:34:14	24-10-2024 02:32:18	52 47.91 N	128 25.733 W		549				Cindy Wright				
95	FC3	ROS	N/A	BE	24-10-2024 02:45:34	24-10-2024 02:43:38	52 47.9 N	128 25.748 W	557					David Spear	yes	yes	no	late BE
95	FC3	ROS	N/A	BO	24-10-2024 02:53:42	24-10-2024 02:51:44	52 47.906 N	128 25.752 W		552				David Spear				
95	FC3	ROS	N/A	EN	24-10-2024 03:04:01	24-10-2024 03:02:06	52 47.919 N	128 25.757 W		552				David Spear				
96	GR1	ROS	US	BE	24-10-2024 14:10:26	24-10-2024 14:08:29	52 55.544 N	128 30.711 W	433		461	468	8	Cindy Wright	yes	yes	no	**late BE**
96	GR1	ROS	US	BO	24-10-2024 14:10:58	24-10-2024 14:09:03	52 55.545 N	128 30.711 W		428	461	468	8	Cindy Wright				
96	GR1	ROS	US	EN	24-10-2024 14:27:21	24-10-2024 14:25:22	52 55.551 N	128 30.714 W	433	428	461	468	8	Cindy Wright				
97	GRI1	ROS	N/A	BE	24-10-2024 15:01:00	24-10-2024 14:59:02	52 55.728 N	128 26.202 W	154					Cindy Wright	yes	yes	no	
97	GRI1	ROS	N/A	BO	24-10-2024 15:05:05	24-10-2024 15:03:09	52 55.73 N	128 26.201 W		149				Cindy Wright				wicked temperature swings then equally wicked DO swings
97	GRI1	ROS	N/A	EN	24-10-2024 15:08:04	24-10-2024 15:06:06	52 55.73 N	128 26.202 W		149				Cindy Wright				
98	TOL1	NET		BE	24-10-2024 16:27:53	24-10-2024 16:25:57	52 47.195 N	128 32.52 W	325					Cindy Wright	NA	NA		
98	TOL1	NET		BO	24-10-2024 16:33:37	24-10-2024 16:31:38	52 47.191 N	128 32.508 W						Cindy Wright				
98	TOL1	NET		EN	24-10-2024 16:38:54	24-10-2024 16:36:59	52 47.189 N	128 32.5 W						Cindy Wright				
99	TOL1	ROS	US	BE	24-10-2024 16:47:12	24-10-2024 16:45:13	52 47.189 N	128 32.502 W	319		489	504	16	Sophia Johanr	yes	yes	no	
99	TOL1	ROS	US	BO	24-10-2024 16:55:02	24-10-2024 16:53:03	52 47.179 N	128 32.513 W		314	489	504	16	Sophia Johannessen				
99	TOL1	ROS	US	EN	24-10-2024 17:16:19	24-10-2024 17:14:20	52 47.1 N	128 32.606 W		314	489	504	16	Sophia Johannessen				Replaced main o-rings in bottle 9 which had a slow leak
100	FC2	ROS	US	BE	24-10-2024 18:29:26	24-10-2024 18:27:29	52 39.214 N	128 28.529 W	602		469	488	20	Cindy Wright	yes	yes	no	
100	FC2	ROS	US	BO	24-10-2024 18:41:34	24-10-2024 18:39:35	52 39.206 N	128 28.518 W		605	469	488	20	Cindy Wright				
100	FC2	ROS	US	EN	24-10-2024 19:18:56	24-10-2024 19:16:57	52 39.161 N	128 28.522 W	600	605	469	488	20	Cindy Wright				

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							Latitute	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
101	FC1	ROS	N/A	BE	24-10-2024 20:15:32	24-10-2024 20:13:37	52 31.072 N	128 27.849 W	769					Cindy Wright	yes	yes	no	pumps didn't quite get turned on. Stopeed at 50m, came back and restarted the cast, overwrote the file
101	FC1	ROS	N/A	BO	24-10-2024 20:34:09	24-10-2024 20:32:12	52 31.076 N	128 27.867 W		765				Cindy Wright				
101	FC1	ROS	N/A	EN	24-10-2024 20:48:51	24-10-2024 20:46:55	52 31.08 N	128 27.901 W		765				Cindy Wright				
102	MS	NET		BE	24-10-2024 21:58:17	24-10-2024 21:56:19	52 22.986 N	128 33.387 W	246	236				Cindy Wright	NA	NA		
102	MS	NET		BO	24-10-2024 22:02:37	24-10-2024 22:00:39	52 22.968 N	128 33.405 W		236				Cindy Wright				
102	MS	NET		EN	24-10-2024 22:06:38	24-10-2024 22:04:42	52 22.956 N	128 33.403 W		236				Cindy Wright				
103	MS	ROS	N/A	BE	24-10-2024 22:13:47	24-10-2024 22:11:49	52 22.941 N	128 33.413 W	245					Sophia Johanr	yes	yes	no	Whole rosette in water to start because of swell.
103	MS	ROS	N/A	BO	24-10-2024 22:19:44	24-10-2024 22:17:45	52 22.927 N	128 33.425 W		240				Sophia Johannessen				
103	MS	ROS	N/A	EN	24-10-2024 22:24:11	24-10-2024 22:22:14	52 22.92 N	128 33.442 W		235				Sophia Johannessen				
104	GK10	ROS	N/A	BE	24-10-2024 23:11:35	24-10-2024 23:09:37	52 16.864 N	128 34.941 W	254					Cindy Wright	yes	yes	no	
104	GK10	ROS	N/A	BO	24-10-2024 23:18:12	24-10-2024 23:16:15	52 16.84 N	128 35.009 W		247.5				Cindy Wright				
105	BU04	ROS	US	BE	25-10-2024 22:05:56	25-10-2024 22:03:58	50 35.274 N	124 53.808 W	637		505	511	7	Cindy Wright	yes	yes	no	
105	BU04	ROS	US	BO	25-10-2024 22:20:13	25-10-2024 22:18:15	50 35.3 N	124 53.778 W		634	505	511	7	Cindy Wright				
105	BU04	ROS	US	EN	25-10-2024 22:38:31	25-10-2024 22:36:34	50 35.3 N	124 53.774 W	637		505	511	7	Cindy Wright				
106	BU05	ROS	N/A	BE	25-10-2024 23:24:14	25-10-2024 23:22:18	50 40.532 N	124 53.237 W	570					David Spear	yes	yes	no	
106	BU05	ROS	N/A	BO	25-10-2024 23:35:06	25-10-2024 23:33:08	50 40.555 N	124 53.235 W		566				David Spear				
106	BU05	ROS	N/A	EN	25-10-2024 23:46:23	25-10-2024 23:44:24	50 40.573 N	124 53.236 W		566				David Spear				
107	BU06	NET		BE	26-10-2024 00:34:49	26-10-2024 00:32:51	50 45.207 N	124 53.95 W	480					Cindy Wright	NA	NA		
107	BU06	NET		BO	26-10-2024 00:43:15	26-10-2024 00:41:19	50 45.237 N	124 53.965 W						Cindy Wright				
107	BU06	NET		EN	26-10-2024 00:51:19	26-10-2024 00:49:22	50 45.249 N	124 53.955 W						Cindy Wright				
108	BU06	ROS	N/A	BE	26-10-2024 00:59:55	26-10-2024 00:57:57	50 45.253 N	124 53.96 W	478					Sophia Johanr	yes	yes		
108	BU06	ROS	N/A	BO	26-10-2024 01:10:08	26-10-2024 01:08:09	50 45.248 N	124 53.962 W	478	473				Sophia Johannessen				
108	BU06	ROS	N/A	EN	26-10-2024 01:19:27	26-10-2024 01:17:30	50 45.248 N	124 53.964 W		473				Sophia Johannessen				
109	BU07	ROS	US	BE	26-10-2024 02:01:29	26-10-2024 01:59:29	50 49.728 N	124 53.518 W	357		512	518	7	David Spear	yes	yes	no	
109	BU07	ROS	US	BO	26-10-2024 02:08:16	26-10-2024 02:06:21	50 49.749 N	124 53.452 W		353	512	518	7	David Spear				
109	BU07	ROS	US	EN	26-10-2024 02:21:24	26-10-2024 02:19:26	50 49.755 N	124 53.468 W		353	512	518	7	David Spear				
110	BU08	ROS	N/A	BE	26-10-2024 02:57:28	26-10-2024 02:55:29	50 53.266 N	124 50.503 W	224					David Spear	yes	yes	no	
110	BU08	ROS	N/A	BO	26-10-2024 03:01:51	26-10-2024 02:59:56	50 53.28 N	124 50.501 W		219				David Spear				
110	BU08	ROS	N/A	EN	26-10-2024 03:06:21	26-10-2024 03:04:26	50 53.291 N	124 50.496 W		219				David Spear				
111	BU03	ROS	N/A	BE	26-10-2024 14:03:32	26-10-2024 14:01:36	50 31.661 N	124 57.992 W	649					David Spear	yes	yes	no	
111	BU03	ROS	N/A	BO	26-10-2024 14:15:53	26-10-2024 14:13:54	50 31.67 N	124 58.025 W		645				David Spear				
111	BU03	ROS	N/A	EN	26-10-2024 14:28:01	26-10-2024 14:26:02	50 31.695 N	124 58.004 W		645				David Spear				

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							Latitute	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
112	BU2	ROS	N/A	BE	26-10-2024 15:09:33	26-10-2024 15:07:34	50 28.084 N	125 4.59 W	652					David Spear	yes	yes	no	
112	BU2	ROS	N/A	BO	26-10-2024 15:22:24	26-10-2024 15:20:27	50 28.089 N	125 4.594 W		648				David Spear				
112	BU2	ROS	N/A	EN	26-10-2024 15:34:30	26-10-2024 15:32:33	50 28.092 N	125 4.584 W		648				David Spear				
113	BU01	ROS	US	BE	26-10-2024 16:18:22	26-10-2024 16:16:24	50 22.126 N	125 5.075 W	600		519	525	7	David Spear	yes	yes	no	
113	BU01	ROS	US	BO	26-10-2024 16:29:55	26-10-2024 16:27:57	50 22.155 N	125 5.05 W		599	519	525	7	David Spear				
113	BU01	ROS	US	EN	26-10-2024 16:48:41	26-10-2024 16:46:44	50 22.151 N	125 5.04 W		599	519	525	7	David Spear				
114	CALM1	ROS	N/A	BE	26-10-2024 17:36:47	26-10-2024 17:34:51	50 16.508 N	125 1.805 W	446					Cindy Wright	yes	yes	no	
114	CALM1	ROS	N/A	BO	26-10-2024 17:46:32	26-10-2024 17:44:34	50 16.53 N	125 1.786 W		443				Cindy Wright				
114	CALM1	ROS	N/A	EN	26-10-2024 17:55:16	26-10-2024 17:53:21	50 16.498 N	125 1.797 W		443				Cindy Wright				
115	DP1	ROS	N/A	BE	26-10-2024 18:23:46	26-10-2024 18:21:50	50 17.326 N	124 57.783 W	512					David Spear	yes	yes	no	
115	DP1	ROS	N/A	BO	26-10-2024 18:33:38	26-10-2024 18:31:39	50 17.322 N	124 57.773 W		509				David Spear				
115	DP1	ROS	N/A	EN	26-10-2024 18:43:12	26-10-2024 18:41:15	50 17.313 N	124 57.787 W		509				David Spear				
116	TO1	ROS	N/A	BE	26-10-2024 19:44:39	26-10-2024 19:42:39	50 18.104 N	124 46.239 W	500					David Spear	yes	yes	no	
116	TO1	ROS	N/A	BO	26-10-2024 19:54:37	26-10-2024 19:52:40	50 18.107 N	124 46.238 W		495				David Spear				
116	TO1	ROS	N/A	EN	26-10-2024 20:03:43	26-10-2024 20:01:46	50 18.109 N	124 46.244 W		495				David Spear				
117	TO2A	ROS	US	BE	26-10-2024 20:40:37	26-10-2024 20:38:39	50 21.689 N	124 42.469 W	504		526	532	7	Cindy Wright	yes	yes	no	
117	TO2A	ROS	US	BO	26-10-2024 20:52:41	26-10-2024 20:50:46	50 21.712 N	124 42.44 W		500	526	532	7	Cindy Wright				
117	TO2A	ROS	US	EN	26-10-2024 21:08:25	26-10-2024 21:06:29	50 21.724 N	124 42.414 W	504		526	532	7	Cindy Wright				
118	TO3A	NET		BE	26-10-2024 21:45:45	26-10-2024 21:43:49	50 24.614 N	124 37.966 W	478					Cindy Wright	NA	NA		
118	TO3A	NET		BO	26-10-2024 21:54:40	26-10-2024 21:52:44	50 24.606 N	124 37.933 W		468				Cindy Wright				
118	TO3A	NET		EN	26-10-2024 22:02:13	26-10-2024 22:00:15	50 24.608 N	124 37.926 W		468				Cindy Wright				
119	TO3A	ROS	N/A	BE	26-10-2024 22:10:06	26-10-2024 22:08:08	50 24.61 N	124 37.913 W	478					David Spear	yes	yes	no	
119	TO3A	ROS	N/A	BO	26-10-2024 22:19:24	26-10-2024 22:17:27	50 24.612 N	124 37.898 W		474				David Spear				
119	TO3A	ROS	N/A	EN	26-10-2024 22:28:05	26-10-2024 22:26:09	50 24.613 N	124 37.9 W		474				David Spear				
120	TO4A	ROS	US	BE	26-10-2024 23:04:32	26-10-2024 23:02:34	50 25.695 N	124 30.907 W	376		533	539	7	Cindy Wright	yes	yes	no	
120	TO4A	ROS	US	BO	26-10-2024 23:12:58	26-10-2024 23:11:01	50 25.69 N	124 30.894 W		372	533	539	7	Cindy Wright				
120	TO4A	ROS	US	EN	26-10-2024 23:26:26	26-10-2024 23:24:29	50 25.689 N	124 30.89 W	375		533	539	7	Cindy Wright				
121	TO5	ROS	N/A	BE	27-10-2024 00:02:40	27-10-2024 00:00:44	50 27.702 N	124 23.993 W	194					Cindy Wright	yes	yes	no	
121	TO5	ROS	N/A	BO	27-10-2024 00:07:25	27-10-2024 00:05:29	50 27.707 N	124 23.988 W		189				Cindy Wright				
121	TO5	ROS	N/A	EN	27-10-2024 00:11:02	27-10-2024 00:09:07	50 27.706 N	124 23.971 W		189				Cindy Wright				
122	HC2	ROS	US	BE	27-10-2024 02:13:25	27-10-2024 02:11:26	50 17.75 N	124 40.17 W	716		540	546	7	Cindy Wright	yes	yes	no	lots of small level "noise" in T after 375db. Not sure if real.
122	HC2	ROS	US	BO	27-10-2024 02:28:41	27-10-2024 02:26:44	50 17.738 N	124 40.145 W		711	540	546	7	Cindy Wright				
122	HC2	ROS	US	EN	27-10-2024 02:48:29	27-10-2024 02:46:32	50 17.732 N	124 40.132 W	715		540	546	7	Cindy Wright				
123	JE10	ROS	N/A	BE	27-10-2024 13:53:59	27-10-2024 13:52:03	50 11.361 N	123 57.414 W	263					David Spear	yes	yes	no	
123	JE10	ROS	N/A	BO	27-10-2024 13:59:14	27-10-2024 13:57:18	50 11.361 N	123 57.415 W		259				David Spear				

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number: 2024-066

Vessel: Vector

Launch Daily Science Log

Print Daily Science Log WorkBook

Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) Computer ("dd-mm-yyyy hh:mm:ss")	Date Time (UTC) GPS ("dd-mm-yyyy hh:mm:ss")	Positional Information (DDD MM.MMM)		Sounder Depth (m)	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	CTD/Rosette Status			Comments
							Latitude	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
123	JE10	ROS	N/A	EN	27-10-2024 14:04:00	27-10-2024 14:02:02	50 11.362 N	123 57.412 W		259				David Spear				
124	JE09	ROS	US	BE	27-10-2024 14:45:34	27-10-2024 14:43:37	50 8.301 N	123 50.088 W	357		547	553	7	Cindy Wright	yes	yes	no	
124	JE09	ROS	US	BO	27-10-2024 14:53:28	27-10-2024 14:51:29	50 8.286 N	123 50.086 W		351.6	547	553	7	Cindy Wright				
124	JE09	ROS	US	EN	27-10-2024 15:06:30	27-10-2024 15:04:32	50 8.31 N	123 50.101 W		351.6	547	553	7	Cindy Wright				
125	JE08	ROS	N/A	BE	27-10-2024 15:37:40	27-10-2024 15:35:41	50 5.271 N	123 46.704 W	470					Sophia Johanr	yes	yes	no	
125	JE08	ROS	N/A	BO	27-10-2024 15:47:50	27-10-2024 15:45:51	50 5.276 N	123 46.733 W		470				Sophia Johannessen				max depth was 5 m off bottom according to altimeter
125	JE08	ROS	N/A	EN	27-10-2024 15:57:05	27-10-2024 15:55:09	50 5.275 N	123 46.717 W		470				Sophia Johannessen				
126	JE07	NET		BE	27-10-2024 16:29:26	27-10-2024 16:27:30	50 2.502 N	123 51.2 W	540					Cindy Wright	NA	NA		
126	JE07	NET		BO	27-10-2024 16:39:22	27-10-2024 16:37:24	50 2.503 N	123 51.18 W		530				Cindy Wright				
126	JE07	NET		EN	27-10-2024 16:48:37	27-10-2024 16:46:41	50 2.511 N	123 51.17 W		530				Cindy Wright				
127	JE07	ROS	N/A	BE	27-10-2024 16:56:25	27-10-2024 16:54:27	50 2.513 N	123 51.167 W	540					David Spear	yes	yes	no	
127	JE07	ROS	N/A	BO	27-10-2024 17:07:09	27-10-2024 17:05:13	50 2.505 N	123 51.158 W		535				David Spear				
127	JE07	ROS	N/A	EN	27-10-2024 17:17:00	27-10-2024 17:15:03	50 2.503 N	123 51.166 W		535				David Spear				
128	JE06	ROS	N/A	BE	27-10-2024 18:03:27	27-10-2024 18:01:29	49 59.098 N	123 59.288 W	547					Cindy Wright	yes	yes	no	
128	JE06	ROS	N/A	BO	27-10-2024 18:15:04	27-10-2024 18:13:07	49 59.12 N	123 59.285 W		544				Cindy Wright				
128	JE06	ROS	N/A	EN	27-10-2024 18:25:40	27-10-2024 18:23:42	49 59.112 N	123 59.304 W		544				Cindy Wright				
129	JE05	ROS	N/A	BE	27-10-2024 19:10:35	27-10-2024 19:08:39	49 54.27 N	123 55.489 W	656					David Spear	yes	yes	no	
129	JE05	ROS	N/A	BO	27-10-2024 19:23:14	27-10-2024 19:21:17	49 54.272 N	123 55.481 W		653				David Spear				
129	JE05	ROS	N/A	EN	27-10-2024 19:36:03	27-10-2024 19:34:06	49 54.258 N	123 55.482 W		653				David Spear				
130	JE04	ROS	N/A	BE	27-10-2024 20:14:30	27-10-2024 20:12:34	49 49.535 N	123 54.252 W	672					Cindy Wright	yes	yes	no	
130	JE04	ROS	N/A	BO	27-10-2024 20:28:29	27-10-2024 20:26:29	49 49.514 N	123 54.241 W		669				Cindy Wright				
130	JE04	ROS	N/A	EN	27-10-2024 20:41:20	27-10-2024 20:39:24	49 49.489 N	123 54.243 W		669				Cindy Wright				
131	JE03	ROS	US	BE	27-10-2024 21:24:37	27-10-2024 21:22:40	49 48.032 N	124 2.442 W			554	560	7	Cindy Wright	yes	yes	no	
131	JE03	ROS	US	BO	27-10-2024 21:38:56	27-10-2024 21:37:00	49 48.033 N	124 2.472 W		678.9	554	560	7	Cindy Wright				
131	JE03	ROS	US	EN	27-10-2024 21:58:23	27-10-2024 21:56:27	49 48.026 N	124 2.477 W	672		554	560	7	Cindy Wright				
132	JE02	ROS	N/A	BE	27-10-2024 22:34:14	27-10-2024 22:32:16	49 46.287 N	124 9.225 W	602					Cindy Wright	yes	yes	no	
132	JE02	ROS	N/A	BO	27-10-2024 22:46:53	27-10-2024 22:44:57	49 46.295 N	124 9.204 W		598				Cindy Wright				
132	JE02	ROS	N/A	EN	27-10-2024 22:58:24	27-10-2024 22:56:27	49 46.298 N	124 9.178 W						Cindy Wright				
133	JE01	ROS	N/A	BE	27-10-2024 23:47:26	27-10-2024 23:45:30	49 42.34 N	124 14.494 W	263					David Spear	yes	yes	no	
133	JE01	ROS	N/A	BO	27-10-2024 23:52:48	27-10-2024 23:50:49	49 42.328 N	124 14.482 W		258				David Spear				
133	JE01	ROS	N/A	EN	27-10-2024 23:57:56	27-10-2024 23:55:57	49 42.314 N	124 14.484 W		258				David Spear				

Zooplankton Net Tow Log

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number:	2024-066	Contact:	Cindy Wright
Vessel:	Vector	Equipment Description/Serial Number (ex. Bongo #1)	spectacle
Project:	Inlets	Additional Notes	

Zooplankton Default Parameters

Current TSK Serial Number	Current RBR Serial Number	Net Type	Tow Type	Mesh Size (µM)	Sampling Processing: Formalin	Sampling Processing: Freezing	Sampling Processing: Ethanol
7129	Silver	BONGO	VNH	250	YES	NO	NO

Print Zooplankton Labels - Under Construction

Date Time (UTC) GPS	Station	Net Event	CTD Event	Positional Information: Latitute	Positional Information: Longitude	Wire Out	Wire Angle	Sounder Depth BE (m)	Net Type	Mesh Size (µm)	Tow Type	Flow Start	Flow End	TSK Serial #	RBR Serial #	Equipment #	Sampling Processing	Comments
17-10-2024 14:34:2	CPEI	6	5	51 0.173 N	127 49.927 W	130	5	140	BONGO	250	VNH	15471	16445	7129	Silver	spectacle	Formalin Frozen	2.5" MIOCE removed
17-10-2024 17:11:0	NS0	7	8	51 5.59 N	127 28.785 W	61	0	71	BONGO	250	VNH	16647	16848	7129	Silver	spectacle	Formalin	
17-10-2024 22:14:5	SE5	14	15	51 4.271 N	127 0.758 W	604	0	614	BONGO	250	VNH	16848	20610	7129	Silver	spectacle	Formalin Ethanol	1 Primno pulled from ETOH and a few chaetos.
18-10-2024 19:47:3	ALS3	27	28	51 9.984 N	126 56.807 W	125	10	135	BONGO	250	VNH	20160	21418	7129	Silver	spectacle	Formalin Ethanol	3 chaetos pulled from etoh sample
19-10-2024 02:19:0	MES4	33	34	51 11.845 N	127 21.27 W	154	5	164	BONGO	250	VNH	21420	22370	7129	Silver	spectacle	Formalin Frozen	
20-10-2024 18:30:4	Bur6	46	47	52 14.312 N	127 22.655 W	583	0	593	BONGO	250	VNH	22380	29548	7129	Silver	spectacle	Formalin Frozen	Removed from formalin: 5 Primno (but honestly, not convinced these are Primno), 5 Chaeto, 9 Siphonophores (various sp).
21-10-2024 15:10:5	DE09	55	56	52 44.024 N	126 57.326 W	444	0	454	BONGO	250	VNH	29548	28662	7129	Silver	spectacle	Formalin Ethanol	The final TSK number is clearly incorrect. From ETOH sample: 12 siphonophores, 4 chaetos and 1 Primno
22-10-2024 15:51:1	RO3	69	70	52 27.093 N	127 54.942 W	159	0	169	BONGO	250	VNH	29900	30878	7129	Silver	spectacle	Formalin Frozen	Removed from frozen: 4 chaetos, 2 Primno and 2 siphonop
22-10-2024 18:58:5	BR1	73	74	52 25.884 N	127 59.489 W	62	0	72	BONGO	250	VNH	30878	30268	7129	Silver	spectacle	Formalin	Flowmeter fault. Even with the 0.5m/s descent. From frozen sample pulled 2 siphonos and 4 chaetos
23-10-2024 02:30:5	SP5	81	82	52 36.501 N	128 4.087 W	216	0	226	BONGO	250	VNH	30268	31598	7129	Silver	spectacle	Formalin	lots of larvaceans. From frozen sample: 2 chaetos, 1 siphono2
23-10-2024 15:33:2	MC2	84	85	52 29.077 N	128 14.752 W	411		421	BONGO	250	VNH	31598	34098	7129	Silver	spectacle	Formalin Frozen	from frozen sample: 5 Primno, 5 chaeto, 7 siphono
23-10-2024 23:29:0	MU2	91	92	52 54.19 N	128 5.024 W	225	5	235	BONGO	250	VNH	34095	35521	7129	Silver	spectacle	Formalin Ethanol	Removed from ethanol: 8 Primno, 8 siphono, 6 chaeto. Massive Tomtoperid in this sample

Zooplankton Net Tow Log

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number:	2024-066	Contact:	Cindy Wright
Vessel:	Vector	Equipment Description/Serial Number (ex. Bongo #1)	spectacle
Project:	Inlets	Additional Notes	

Zooplankton Default Parameters

Current TSK Serial Number	Current RBR Serial Number	Net Type	Tow Type	Mesh Size (µM)	Sampling Processing: Formalin	Sampling Processing: Freezing	Sampling Processing: Ethanol
7129	Silver	BONGO	VNH	250	YES	NO	NO

Print Zooplankton Labels - Under Construction

Date Time (UTC) GPS	Station	Net Event	CTD Event	Positional Information: Latitute	Positional Information: Longitude	Wire Out	Wire Angle	Sounder Depth BE (m)	Net Type	Mesh Size (µm)	Tow Type	Flow Start	Flow End	TSK Serial #	RBR Serial #	Equipment #	Sampling Processing	Comments
24-10-2024 02:23:1	FC3	94	95	52 47.895 N	128 25.747 W	549	0	559	BONGO	250	VNH	35521	38895	7129	Silver	spectacle	Formalin Frozen	Removed from frozen: 5 chaeto, 10 siphono, 3 Primno. From Formalin: removed 1x5cm and 1x4cm Beroe, 1x5cm and 1x4cm Proboscidactyla (there are similar specimens in Frozen you can check against my taxonomy). Labels are incorrect for FM, labels have a 48895 while it should be 38895
24-10-2024 16:31:3	TOL1	98	99	52 47.191 N	128 32.508 W	310	0	320	BONGO	250	VNH	38895	40809	7129	Silver	spectacle	Formalin	NOTE: label is incorrect for FM, the label will say that 38895 is 48895.
24-10-2024 22:00:3	MS	102	103	52 22.968 N	128 33.405 W	236	0	246	BONGO	250	VNH	40809	42005	7129	Silver	spectacle	Formalin Ethanol	Didn't look for specific organisms
26-10-2024 00:41:1	BU06	107	108	50 45.237 N	124 53.965 W	470	0	480	BONGO	250	VNH	42005	42195				alin en	From frozen removed 4 chaetos and 17 siphono. What was weird is that I only found 1 Themisto and no Primno
26-10-2024 21:52:4	TO3A	118	119	50 24.606 N	124 37.933 W	468	0	478	BONGO	250	VNH	42195	44955	7129	Silver	spectacle	Formalin Frozen	From formalin removed: 1x Beroe (8cm H x 7cm and 1x 4cm H x 5cm W. From frozen removed: 7 Primno, 4 Chaeto, 20 siphono. Again, interesting in that Themisto numbers low.
27-10-2024 17:05:1	JE07	126	127	50 2.505 N	123 51.158 W	530	0	540	BONGO	250	VNH	44955	48285	7129	Silver	spectacle	Formalin Frozen	From formalin, removed 7 Beroe. From Frozen: removed 4 Chaeto, 6 Primno, 12 Siphonophores

Bit dubious about this number. Could be 41195

Labels for this one will say 45955

Siphonophores collected are primarily floats when they are species like Nanomia. Unfortunately, many also have copepods encapsulated in them.
Primno's in various stages of development
Chaetos of various sizes

Zooplankton Net Tow Log Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number:	2024-066	Contact:	Cindy Wright
Vessel:	Vector	Equipment Description/Serial Number (ex. Bongo #1)	spectacle
Project:	Inlets	Additional Notes	

Zooplankton Default Parameters

Current TSK Serial Number	Current RBR Serial Number	Net Type	Tow Type	Mesh Size (µM)	Sampling Processing: Formalin	Sampling Processing: Freezing	Sampling Processing: Ethanol
7129	Silver	BONGO	VNH	250	YES	NO	NO

Print Zooplankton Labels - Under Construction

Date Time (UTC) GPS	Station	Net Event	CTD Event	Positional Information		Wire Out	Wire Angle	Sounder Depth BE (m)	Net Type	Mesh Size (µm)	Tow Type	Flow Start	Flow End	TSK Serial #	RBR Serial #	Equipment #	Sampling Processing	Comments
				Latitute	Longitude													

Watch Keepers	Stations	Ship
David Spear	ALS1	JP Tully
Cindy Wright	ALS2	Vector
Sophia Johannessen	ALS3	Neocaligus
	ALS4	Franklin
	BE1	
	BE2	
	BE3	
	BE4	
	BE5	
	BE6	
	BE7	
	BR0	
	BR1	
	BUR 4	
	BUR 6	
	BUR 8	
	BUR1	
	BUR10	
	BUR12	
	BUR13	
	BUR14	
	BUR15	
	BUR2	
	Cas1	
	Cas2	
	Cas3	

Rosette/CTD	
Par Status	Fluorometer Status
OFF	ON

CHP1

CPEI

DE04

DE05

DE06

DE07

DE08

DE09

DE10

DI01

DI02

FC1

FC1

FC2

FC3

FRS0

FRS1

FRS2

FRS3

GI-01

GR1

GRI1

HOEYA-1

IOS

JS05

JS1

JS8.5

KIN0

KIN1

KIN1.5

KIN2

KIN3

Kn0

Kn1

KN1.5

Kn10

Kn11

Kn2

Kn3

Kn4

Kn5

Kn6

Kn7

Kn8

Kn9

KW1

KY1

LA1

LA2

LA3

LA4

LS1

MC1

MC2

MC3

MC4

MES0

MES1

MES2

MES3

MES4

MES5

MS

MU1

MU2

NS0

NS1

NS2

NS3

O10

O5

OP

RC1

Ripple Rock

RO1

RO2

RO3

RO4

RO5

S5

S6

S8

S8

SC

SC01
SE1
SE2
SE2A
SE3
SE4
SE5
SE6
SE7
SE7.5
SE8
SP
SP1
SP2
SP3
SP4
SP5
SU1
SU2
SU3
SWL
TOL1
TRC1
TRC2
WP
WP0.5
WS0.5
WS1
PP1
TRC2.5
TRC3
DE01
DE02
166
GK10
QCS2
BO1
BO2
HA1
RI1
RI2

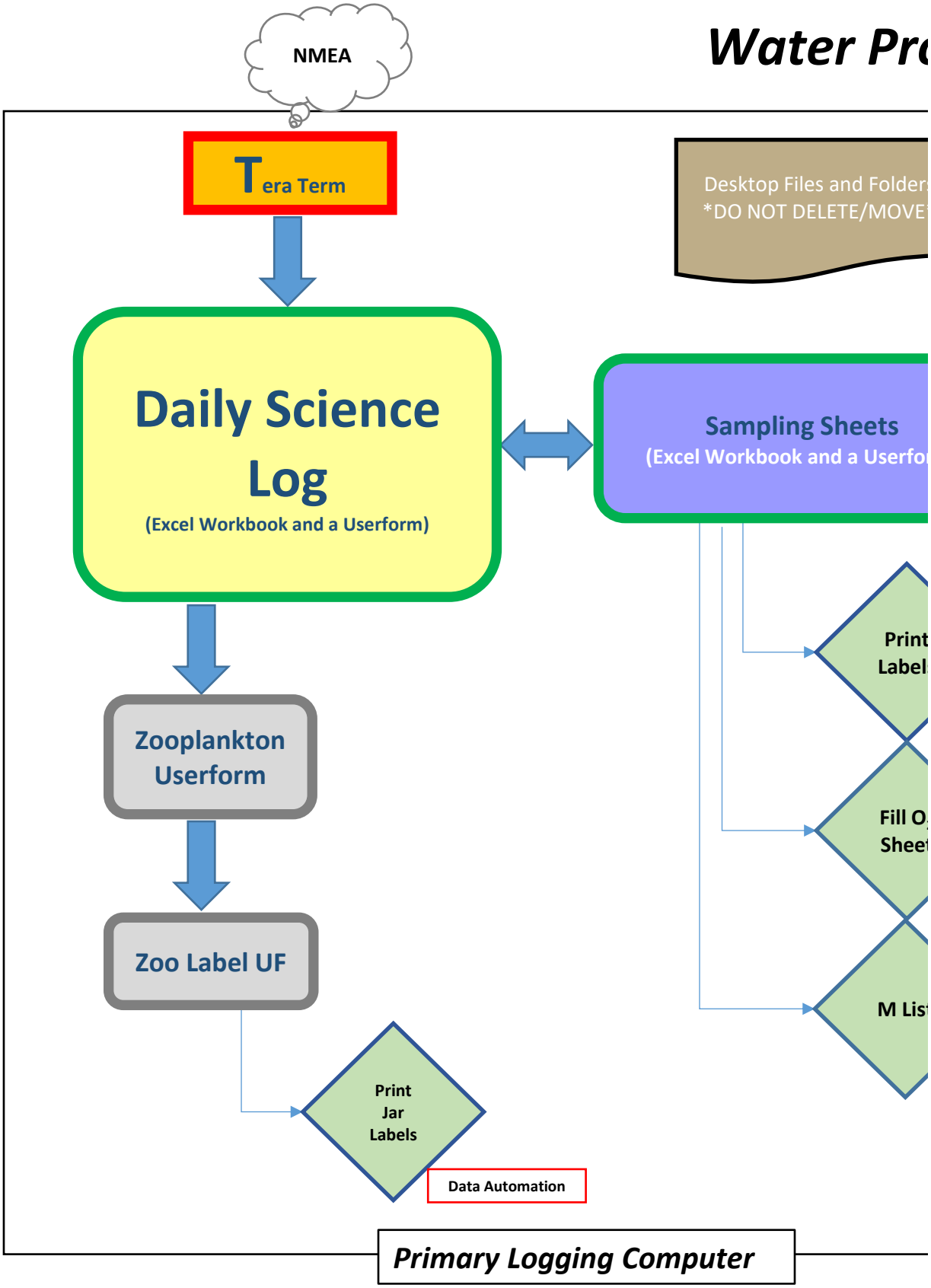
RI3
RI4
RI5
RI6
RI7
RI8
SM 2
SM 5
SM1
SM3
SM4
Dr3
Dr2
Dr1
Dr4
Dr5
SS7
SS7
192
GK04

Default Parameters			Bottle Default Parameters		
Transmissometer Status	**Instrument Soak**		**Bottle Soak**		**Rosette Bottle Firing Method**
ON	Instrument Flush (sec)	60	Threshold Depth (m)	150	US
			Above (sec)	60	
			Below(sec)	30	

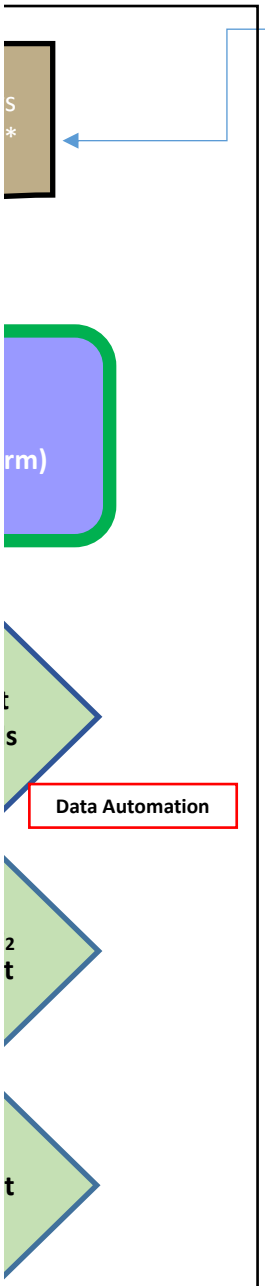
Sampling /Rosette Sheet File	Default Location for NMEA Feed File	Local Time Adjustment
Browse for Sampling Sheet Location	Browse NMEA Feed File Location	
\\LAPTOP-6VLA5O8P\Users\info\Desktop\Sharefolder\2024-066_RosetteTemplate__Validation_V.DEC2022.xlsx	\\LAPTOP-6VLA5O8P\Users\info\Desktop\Sharefolder\NMEAfeed.txt	Standard Time

Daily Science Log File to Backup (this file)
Browse for Daily Science Log File to Backup
\\LAPTOP-6VLA5O8P\Users\info\Desktop\Sharefolder\2024-066_Daily Science Log_V.FEB2023.xlsx

Water Pr


NMEA
Tera Term
Desktop Files and Folder
*DO NOT DELETE/MOVE
Daily Science Log
(Excel Workbook and a Userform)
Sampling Sheets
(Excel Workbook and a Userfo
Print Label
Fill O Shee
M Lis
Zooplankton Userform
Zoo Label UF
Print Jar Labels
Data Automation
Primary Logging Computer

operties E-Log Quick Guide



Tera Term:

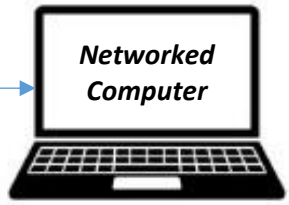
Function
Application running in the background to capture the NMEA feed.

How-to-use
Tera Term setup is saved to automatically shuffle data periodically to a log file in the *Sha* the correct com port is already set, logging will begin immediately. Sometimes com port if the GPS puck is plugged into a different com port the user will have to change the setti correct one.

In Tera Term -> Setup -> Serial Port -> choose the com port with the GPS feed; for the GP device name will have 'Prolific'. If the feed is from another source; point to that com por New Setting and the NMEA strings will be displayed.

You can save the new setup as follows; Setup -> Save Setup -> Press Save and overright t .ini file with your new setup. If you close and relaunch Tera Term the feed should initiate automatically.

Additional Notes
*Please note, at present the code is written to interpret the NMEA feed from the GPS pu feeds from the ships may have some different string structure.
**If the NMEA feed is poor the use will observe alot of empty strings; for example: $GPI The user may have to wait a few minutes or adjust the signal capture device (puck)



ırefolder. If
:s switch or
ing to the

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rt. Press

:he existing
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Chief Scientist CheckList

Cruise

Dates

Pre Cruise	Status	Comments
Submit Cruise Plan	NO	
Submit request to access US waters	NO	
Consult collaboraters on sampling regime	NO	
Review last cruise report/data support meeting	NO	
Ensure participants WHMIS trained	NO	
Submit participants preference time/pay to Division Manager	NO	
Complete and submit Equipment Requests	NO	
Prepare/Submit Hazardous Materials List to Ship	NO	
Prepare Sampling Sheet Workbook as needed	NO	
Submit Science log to CTD shop to fill out relevant serial numbers etc.	NO	
Fill out relevant Daily Science Log fields/defaults	NO	

Chief Scientist CheckList

Cruise

Dates

Science Meeting/Safety Meeting	NO	

During Cruise

Post relevant documents in lab (Sampling Plan, Watches, etc.)		NO	
Perform a Test Cast		NO	
Check Data Quality - submit test cast to IOS for review		NO	
Get core monitoring equipment online and running	*GPS tracking*	NO	
	Sounder	NO	
	ADCP	NO	
	TSG	NO	

Chief Scientist CheckList

Cruise

Dates

Post Cruise

Complete Daily Science Log		NO	
Scan All Paper Documents (ie. O2 Logs, HPLC Logs, Zooplankton etc.)		NO	
Copy Files to OSDCommon Cruise Folder	*CTD Data*	NO	
	CTD Configuration File	NO	
	TSG Data	NO	
	TSG Configuration File	NO	
	GPS Tracks	NO	
	Sounder Data	NO	
	Daily Science Log	NO	
	Excel Sampling/Rosette Sheets	NO	
	At-sea O2 analysis files	NO	

Chief Scientist CheckList

Cruise

Dates

Ensure samples collected are stored properly	NO	
Pass on revelavent issues to next Chief Scientist	NO	
Complete Cruise Report	NO	

Additional Comments and/or Bugs

Comment	*Date*	*Participant*

Daily Science e-Log Detailed Instructions - Under Cor

Software

Microsoft Excel
BradyWorkstation with Data Automation Suite
Tera Term

Files and Folders on Desktop

Sharefolder
Folders

Daily Science Log Templates	Contains a copy of the Daily Science Log Template for us
DailyLogMacros	Containis all macros that work to drive the Daily Science
O2_Generated_BoxFiles	Folder to collect files to start oxygen box files the user c
Rosette Templates	Contains a copy of the Daily Science Log Template for us
Files	
NEAfeed.txt	TeraTerm set to output NMEA feed to this file
20xx-xxx_Daily Science Log...	The users cruise specific copy - place here
20xx-xxx_RosetteTemplate…	The users cruise specific copy - place here

Brady
Folders

Additional_Files	Contains a print number log, sample files for using Data
Brady_Label_Templates	Has different user made template that can be pointed to
BradyExcel_ImportFiles	Folder where .csv files are shuffled from the label printi
BradyExcel_ImportFiles_Zooplankton	Folder where .csv files for zooplankton labels are shuffle
BradyInstructions	Various manuals for the Brady Software
BradyMacros	Copy of the BradyDirectPrint macro
Drivers	Drivers for the two Brady printers in use

Box File Templates	Folder with current years organization of oxygen flasks t

nstruction

ser to make a copy of
e e-log
can access
ser to make a copy of

Automation
o in Data Automation
ng macro to automate printing
ed from the Brady macro to automate printing

to be referenced by the O2 filling tool