

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID:

2018-31

Station:

SI

Event #:

1

Ship:

Vector

UTC Date (dd mmm yyyy):

27 Sep 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC	DIC									
1	1	1	B-5	✓	181	xx	x												
2	2	2	100	✓	100	x	xx	x				x							
3	3	3	75	✓	75	xx	x												
4	4	4	50	✓	50	x	x												
5	5	5	40	✓	40	x	xx												
6	6	6	30	✓	30	x	x												
7	7	7	20	✓	20	x	x		x										
8	8	8	10	✓	10	x	x		xx										
9	9	9	5	✓	5	x	x												
10	10	10	SFC	✓	1.0	x	x		x	xx									FLUOR: UNKNOWN FLUOROMETER NOT LOADING CORRECTOR
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): MB

Bottom Depth: 188 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0428	2128
Bottom	0433	
End	0450	

Positional Information

Start	Lat: 48 ° 39 091 N
	Lon: 123 ° 30 590 W

Bottom

Lat: 48 ° 39 095 N
Lon: 123 ° 30 598 W

End

Lat: 48 ° 39 109 N
Lon: 13 ° 30 581 W

Extra comments:
TRIPPED ALL
BOTTLES FOR
INTEGRITY TEST

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: 59 Event #: 2 Ship: Vector UTC Date (dd/mmm/yyyy): 27 SEP 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC	PHYTO	DA	HAB	DIC				
1	1	11	B-5	✓ 230	x	x							x				
2	2	12	200	✓ 195	x	x	x						x				
3	3	13	175	✓ 175	x	x											
4	4	14	150	✓ 150	xx	x							x				
5	5	15	125	✓ 125	x	x											
6	6	16	100	✓ 100	x	x							x				
7	7	17	75	✓ 78	x	x							x				
8	8	18	50	✓ 50	x	x							x				
9	9	19	40	✓ 40	x	x											
10	10	20	30	✓ 30	x	x							xx				
11	11	21	20	✓ 20	xx	x		x					x				
12	12	22	10	✓ 10	x	xx		xx					x				
13	13	23	5	✓ 5	x	x							x				
14	14	24	SFC	1.6 ✓	x	xx							xx				
15	15	25	SFC	1.6 ✓				x	xx	x	x	x				FLUOR: <2	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): MB

Bottom Depth: 233 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	07 08	00 08
Bottom	07 13	
End	07	

Positional Information
Start
Lat: 48 ° 37 788 N
Lon: 123 ° 14 563 W

Bottom
Lat: 48 ° 37 776 N
Lon: 123 ° 14 540 W

End
Lat: 48 ° 37 831 N
Lon: 123 ° 14 287 W

Extra comments:
TRIP ALL REMAINING
BOTTLES @ SFC FOR
INTEGRITY TEST

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31

Station: 102

Event #: 7

Ship: Vector

UTC Date (dd|mmm|yyyy): 27 | SEP | 2008

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC	PHYTO	DA	HAB					
1	1	26	B-5	✓ 252	xx	xx											
2	2	27	200	✓ 200	x	x	x										
3	3	28	175	✓ 175	x	x											
4	4	29	150	✓ 150	x	x											
5	5	30	125	✓ 125	x	x											
6	6	31	100	✓ 100	x	x											
7	7	32	75	✓ 75	x	x											
8	8	33	50	✓ 50	x	x											
9	9	34	40	✓ 40	x	x											
10	10	35	30	✓ 30	x	x											
11	11	36	20	✓ 20	x	x		x									
12	12	37	10	✓ 10	x	xx		xx									
13	13	38	5	✓ 5	x	x											
14	14	39	SFC	✓ 2.4	xx	x											
15	15	40	SFC	✓ 2.5				x	xx	x	x	x					
16																	FLUOR: 22
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): mb

Bottom Depth: 260 m

Transmisso Cleaned: ☒ Y / ☐ N

Time UTC Local

Start 1901 1201

Bottom 1906

End 1922

Positional Information

Start Lat: 48 ° 30 029 N

Lon: 124 ° 43 969 W

Bottom Lat: 48 ° 30 091 N

Lon: 124 ° 44 003 W

End Lat: 48 ° 30 182 N

Lon: 124 ° 43 976 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID:

2018-31

Station:

75

Event #:

11

Ship:

Vector

UTC Date (dd|mmm|yyyy): 27 | SEP | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC						
1	1	41	B-5	✓ 218	x	x									
2	2	42	200	✓ 201	x	x	x								
3	3	43	175	✓ 176	xx	x									
4	4	44	150	✓ 150	x	x									
5	5	45	125	✓ 125	xx	x									
6	6	46	100	✓ 101	x	xx									
7	7	47	75	✓ 75	x	xx									
8	8	48	50	✓ 50	x	x									
9	9	49	40	✓ 40	x	x									
10	10	50	30	✓ 30	x	x									
11	11	51	20	✓ 20	x	x		xx							
12	12	52	10	✓ 10	x	x		x							
13	13	53	5	✓ 5	x	x									
14	14	54	SFC	✓ 1.7	x	x		x	xx						FLUOR: < 2
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): MB

Bottom Depth: 226 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2346	1640
Bottom	2344	
End	2358	

Positional Information

Lat:	48 ° 28	214	N
Lon:	124 ° 32	807	W

Start

Lat:	48 ° 28	216	N
Lon:	124 ° 32	778	W

Bottom

Lat:	48 ° 28	208	N
Lon:	124 ° 32	502	W

End

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: 72 Event #: 14 Ship: Vector UTC Date (dd/mm/yyyy): 28 Sep 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC	PHYTO	DA	DIC	HAB				
1	1	55	B-5	✓ 181	xx	x						x					
2	2	56	175	✓ 175	x	xx	x										
3	3	57	150	✓ 150	x	x						x					
4	4	58	125	✓ 125	xx	x											
5	5	59	100	✓ 100	x	x						x					
6	6	60	75	✓ 75	x	xx						x					
7	7	61	50	✓ 50	x	x						xx					
8	8	62	40	✓ 40	x	x											
9	9	63	30	✓ 30	x	x						x					
10	10	64	20	✓ 20	x	x		xx				x					
11	11	65	10	✓ 10	x	x		x				x					
12	12	66	5	✓ 5	x	x						x					
13	13	67	SFC	✓ 1.5	x	x						xx					
14	14	68	SFC	✓ 1.4				x	xx	x	x		x				FLUOR: 2
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): MB/KY/KS

Bottom Depth: 190 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	04:33	21:33
Bottom	04:37	21:37
End	04:51	21:51

Positional Information

Start Lat: 48 ° 18.673 N

Start Lon: 124 ° 4.099 W

Bottom Lat: 48 ° 18.745 N

Bottom Lon: 124 ° 4.240 W

End Lat: 48 ° 18.961 N

End Lon: 124 ° 4.596 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: 69 Event #: 18 Ship: Vector UTC Date (dd|mmm|yyyy): 28|Sept|2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC						
1		69	B-5	✓ 175	x	x									
2		70	150	✓	x	x	x								
3		71	125	✓	xx	x									
4		72	100	✓	x	xx									
5		73	75	✓	xx	x									
6		74	50	✓	x	x									
7		75	40	✓ 42	x	x									
8		76	30		x	x									
9		77	20		x	xx		xx							
10		78	10		x	x		x							
11		79	5		x	x									
12		80	SFC		x	x		x	xx						FLUOR:
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): KAR

Bottom Depth: 182 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	08:40	01:40
Bottom	08:44	01:44
End	09:01	02:01

Positional Information
Start
Lat: 48 ° 15.653 N
Lon: 123 ° 43.644 W

Bottom
Lat: 48 ° 15.644 N
Lon: 123 ° 43.205 W

End
Lat: 48 ° 15.631 N
Lon: 123 ° 43.212 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: ADCP Event #: 21 Ship: Vector UTC Date (dd|mmm|yyyy): 28|Sept|2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	HPLC	PHYTO	DA	HAB					
1		81	B-5	☒	x	x											
2		82	100	☒	xx	x	x										
3		83	75	☒	x	x											
4		84	50	☒	x	x											
5		85	40	☒	x	x											
6		86	30	☒	x	x											
7		87	20	☒	xx	x		x									
8		88	10	☒	x	x		xx									
9		89	5	☒	x	xx											
10		90	SFC	☒	x	xx											
11		91	SFC	☒				x	xx	x	x	x					FLUOR.
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin other?
 Watchkeeper(s): SR

Bottom Depth: 125 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1250	0550
Bottom	1254	
End	1304	

Positional Information

Start	Lat: 48° 14.010 N
	Lon: 123° 17.939 W

Bottom

Lat: 48° 14.005 N
Lon: 123° 17.910 W

End

Lat: 48° 13.919 N
Lon: 123° 17.735 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: 65 Event #: 25 Ship: Vector UTC Date (dd|mmm|yyyy): 28 Sept 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC						
1		92	B-5	✓ 125	xx	x									
2		93	100	✓ 98	x	x	x								
3		94	75		x	x									
4		95	50		x	xx									
5		96	40		x	x									
6		97	30		x	x									
7		98	20		x	x		x							
8		99	10		xx	x		xx							
9		100	5		x	x									
10		101	SFC		x	xx		x	xx						
11															FLUOR:
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): SR

Bottom Depth: 132 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1541	0941
Bottom	1544	
End	1556	

Positional Information
 Start
 Lat: 48° 15.884 N
 Lon: 123° 9.882 W

Bottom
 Lat: 48° 15.853 N
 Lon: 123° 9.943 W

End
 Lat: 48° 15.709 N
 Lon: 123° 10.163 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31

Station: 63

Event #: 28

Ship: Vector

UTC Date (dd/mmm/yyyy): 28 Sept 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	HPLC	PHYTO	DA	HAB			
1		102	20			x		x							
2		103	10			x		x							
3		104	SFC			x		xx	xx	x	x	x			
4															FLUOR:
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): SR

Bottom Depth: _____ m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1713	1013
Bottom	1717	
End	1722	

Positional Information

Start	Lat: 48° 14.597 N
Start	Lon: 122° 58.525 W

Bottom

Bottom	Lat: 48° 14.596 N
Bottom	Lon: 122° 58.523 W

End

End	Lat: 48° 14.596 N
End	Lon: 122° 58.512 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: 62 Event #: 29 Ship: Vector UTC Date (dd|mmm|yyyy): 28 | Sep | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC								
1	1	105	B-5	✓ 145	x	x											
2	2	106	125	✓ 125	x	x	x										
3	3	107	100	✓ 100	x	x											
4	4	108	75	✓ 75	x	x											
5	5	109	50	✓ 50	x	x											
6	6	110	40	✓ 40	x	x											
7	7	111	30	✓ 30	xx	x											
8	8	112	20	✓ 20	x	x		x									
9	9	113	10	✓ 10	x	xx		xx									
10	10	114	5	✓ 5	x	xx											
11	11	115	SFC	✓ 1.1	xx	x		x	xx								FLUOR: < 2.0
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): MB

Bottom Depth: 152 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	1508	1208
Bottom	1911	
End	1922	

Positional Information
Start
Lat: 48 ° 22 801 N
Lon: 123 ° 2 78 W

Bottom
Lat: 48 ° 22 780 N
Lon: 123 ° 2 744 W

End
Lat: 48 ° 22 666 N
Lon: 123 ° 2 814 W

Extra comments:
Chg'd FLUOROMETER

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: 56 Event #: 36 Ship: Vector UTC Date (dd|mmm|yyyy): 23|Sep|2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC	PHYTO	DA	HAB					
1	1	116	B-5	✓ 203	x	x											
2	2	117	200	✓ 200	x	x	x										
3	3	118	175	✓ 175	x	x											
4	4	119	150	✓ 150	x	x											
5	5	120	125	✓ 125	x	x											
6	6	121	100	✓ 100	x	x											
7	7	122	75	✓ 75	xx	x											
8+9	8+9	123	50	✓ 50	x	x											
10	10	124	40	✓ 40	x	x											
11	11	125	30	✓ 30	x	xx											
12	12	126	20	✓ 20	x	x		x									
13	13	127	10	✓ 10	xx	x		x									
14	14	128	5	✓ 5	x	xx											
15	15	129	SFC	✓ 1.1	x	x											
16	16	130	SFC	✓ 1.1				xx	xx	x	x	x				FLUOR: 2-5	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): MB

Bottom Depth: 228 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0620	1120
Bottom	0624	
End	0638	

Positional Information

Lat:	48 ° 46 39 N
Lon:	123 ° 01 829 W

Start

Bottom

End

Lat:	48 ° 46 243 N
Lon:	123 ° 01 034 W

Lat:	48 ° 46 246 N
Lon:	123 ° 01 656 W

Extra comments:
 8+9
 Tripped together
 Bump everything up a nish after 8.

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID:

2018-31

Station:

46

Event #:

44

Ship:

Vector

UTC Date (dd|mmm|yyyy): 29 Sept 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC						
1		131	B-5	✓ 173	xx	x									
2		132	150	✓	x	xx	x								
3		133	125	✓	x	x									
4		134	100	✓	x	x									
5		135	75	✓	xx	x									
6		136	50	✓	x	x									
7		137	40	✓	x	x									
8		138	30	✓	x	x									
9		139	20	✓	x	x		x							
10		140	10	✓	x	x		xx							
11		141	5	✓	x	xx									
12		142	SFC	✓	x	x		x	xx					FLUOR: 1.2	
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): SR

Bottom Depth: 178 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1201	0501
Bottom	1205	
End		

Positional Information
 Start
 Lat: 48 ° 51.384 N
 Lon: 123 ° 10.763 W

Bottom
 Lat: 48 ° 51.410 N
 Lon: 123 ° 10.799 W

End
 Lat: 48 ° 51.481 N
 Lon: 123 ° 11.030 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31

Station: 42

Event #: 47

Ship: Vector

UTC Date (dd/mm/yyyy): 29/09/2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC	PHYTO	DA	HAB	DIC				
1		143	B-5	✓ 319	x	x											
2		144	300	✓ 300	x	x	x						x				
3		145	250	✓	x	x											
4		146	200	✓	xx	x							x				
5		147	175	✓	x	xx							x				
6		148	150	✓	x	x											
7		149	125	✓	xx	xx							x				
8		150	100	✓	x	x							x				
9		151	75	✓	x	x							x				
10		152	50	✓	x	x							xx				
11		153	40	✓	x	x							x				
12		154	30	✓	x	x							x				
13		155	20	✓	x	x		x					x				
14		156	10	✓	x	x		xx					xx				
15		157	5	✓	x	x							x				
16		158	SFC	✓	x	x							x				
17		159	SFC	✓				x	xx	x	x	x					
18																	FLUOR:
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): SR

Bottom Depth: 322 m
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1613	0913
Bottom	1621	
End	1640	

Positional Information

Lat: 49 ° 1.834	N
Lon: 123 ° 26.494	W

Bottom

Lat: 49 ° 1.880	N
Lon: 123 ° 26.557	W

End

Lat: 49 ° 1.908	N
Lon: 123 ° 26.636	W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: 39 Event #: 56 Ship: Vector UTC Date (dd/mm/yyyy): 29/SEP/2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC						
1	1	160	B-5	✓ 370	x	x									
2	2	161	350	✓ 350	x	x	x								
3	3	162	300	✓ 300	x	x									
4	4	163	250	✓ 250	x	xx									
5	5	164	200	✓ 200	x	x									
6	6	165	175	✓ 175	x	x									
7	7	166	150	✓ 150	xx	x									
8	8	167	125	✓ 125	x	x									
9	9	168	100	✓ 100	x	x									
10	10	169	75	✓ 75	xx	xx									
11	11	170	50	✓ 50	x	x									
12	12	171	40	✓ 40	x	x									
13	13	172	30	✓ 30	x	x									
14	14	173	20	✓ 20	x	x		x							
15	15	174	10	✓ 10	x	x		x							
16	16	175	5	✓ 5	x	x									
17	17	176	SFC	✓ 1.1	x	x		xx	xx						FLUOR: < 2.0
18															
19															
20															
21															
22															
23															
24															

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): MB

Bottom Depth: 573 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2154	1454
Bottom	2201	
End	2219	

Positional Information
 Start
 Lat: 49° 9' 850" N
 Lon: 123° 32' 925" W

Bottom
 Lat: 49° 9' 856" N
 Lon: 123° 32' 935" W

End
 Lat: 49° 9' 865" N
 Lon: 123° 32' 860" W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: GEO1 Event #: 61 Ship: Vector UTC Date (dd|mmm|yyyy): 30 | Sep | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC						
1	1	177	20	✓ 20		x		x							
2	2	178	10	✓ 10		xx		x							
3	3	179	SFC	✓ 123		x		xx	xx						FLUOR: 2.5
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): MB

Bottom Depth: 4101 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0110	1810
Bottom	0119	
End	0129	

Positional Information

Lat:	49 °	14 996 N
Lon:	123 °	44 946 W

▼

Lat:	49 °	14 996 N
Lon:	123 °	45 026 W

▼

Lat:	49 °	14 985 N
Lon:	123 °	45 123 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: 27 Event #: 63 Ship: Vector UTC Date (dd|mmm|yyyy): 30 | Sep | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC	PHYTO	DA	HAB	DIC					
1	1	180	B-5	✓ 342	x	x							x					
2	2	181	300	✓ 300	x	x	x						xx					
3	3	182	250	✓ 250	x	x							x					
4	4	183	200	✓ 200	x	x							x					
5	5	184	175	✓ 175	xx	x							x					
6	6	185	150	✓ 150	x	x							x					
7	7	186	125	✓ 125	x	xx							x					
8	8	187	100	✓ 100	x	x							x					
9	9	188	75	✓ 75	x	x							x					
10	10	189	50	✓ 50	xx	x							xx					
11	11	190	40	✓ 40	x	x							x					
12	12	191	30	✓ 30	x	xx							xx					
13	13	192	20	✓ 20	x	x		xx					x					
14	14	193	10	✓ 10	x	x		x					x					
15	15	194	5	✓ 5	x	x							x					
16	16	195	SFC	1	x	x							x					
17	17	196	SFC	1				x	xx	x	x	x					FLUOR:	
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): MB

Bottom Depth: 345 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	02:58	19:58
Bottom	03:05	20:05
End	03:23	

Positional Information

Lat:	49 ° 19.148	N
Lon:	123 ° 47.975	W

Start

Lat:	49 ° 19.105	N
Lon:	123 ° 47.965	W

Bottom

Lat:	49 ° 18.977	N
Lon:	123 ° 47.848	W

End

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: CPF1 Event #: 67 Ship: Vector UTC Date (dd|mmm|yyyy): 30 | SEP | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC						
1	1	197	20	✓ 20		x		x							
2	2	198	10	✓ 10		x		xx							
3	3	199	SFC	✓ 1.2		x		x	xx						FLUOR: 2-5
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): MB

Bottom Depth: 244 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0636	2336
Bottom	0640	
End	0647	

Positional Information

Lat: 49 ° 21 972 N

Lon: 124 ° 4 973 W

Lat: 49 ° 21 985 N

Lon: 124 ° 4 915 W

Lat: 49 ° 22 002 N

Lon: 124 ° 4 813 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: 2 Event #: 68 Ship: Vector UTC Date (dd|mmm|yyyy): 30 Sept 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC	PHYTO	DA	HAB					
1		200	B-5	✓ 274	x	x											
2		201	250	✓	x	x	x										
3		202	200	✓	x	x											
4		203	175	✓	x	x											
5		204	150	✓	x	x											
6		205	125	✓	x	x											
7		206	100	✓	x	x											
8		207	75	✓	x	x											
9		208	50	✓	xx	xx											
10		209	40		x	x											
11		210	30		x	x											
12		211	20		x	xx		x									
13		212	10		x	x		x									
14		213	5		xx	x											
15		214	SFC		x	x											
16		215	SFC					xx	xx	x	x	x					FLUOR: 1.25
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): SL

Bottom Depth: 278 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0720	0020
Bottom	0726	
End	0744	

Positional Information

Start Lat: 49 ° 24.126 N

Lon: 124 ° 9.299 W

Bottom Lat: 49 ° 24.144 N

Lon: 124 ° 9.288 W

End Lat: 49 ° 24.158 N

Lon: 124 ° 9.259 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: 3 Event #: 71 Ship: Vector UTC Date (dd|mmm|yyyy): 30 | Sept | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC									
1		216	B-5		315	x	x											
2		217	300			x	x	x										
3		218	250			x	x											
4		219	200			xx	x											
5		220	175			x	xx											
6		221	150			x	x											
7		222	125			x	x											
8		223	100			x	x											
9		224	75			x	x											
10		225	50			x	x											
11		226	40			x	x											
12		227	30			x	x											
13		228	20			x	x		x									
14		229	10			x	x		xx									
15		230	5			x	x											
16		231	SFC			x	xx		x	xx								FLUOR:
17						N												
18						O												
19																		
20						O												
21						X												
22						Y												
23						S												
24																		

Profile type:
 ROS TRM X-Niskin other?
 Watchkeeper(s): SR

Bottom Depth: m
 Transmisso Cleaned: Y/N

Time	UTC	Local
Start	10:05	0305
Bottom	1013	
End	1032	

Positional Information

Lat:	49 ° 26.620 N
Lon:	124 ° 20.186 W

Start

Lat:	49 ° 26.579 N
Lon:	124 ° 20.104 W

Bottom

Lat:	49 ° 26.554 N
Lon:	124 ° 19.946 W

End

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: 6 Event #: 74 Ship: Vector UTC Date (dd|mmm|yyyy): 30 | Sept | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC						
1		232	B-5	✓ 187	x	x									
2		233	175	✓	x	x	x								
3		234	150	✓	x	x									
4		235	125	✓	x	x									
5		236	100	✓	x	x									
6		237	75	✓	xx	x									
7		238	50	✓	x	x									
8		239	40	✓	x	xx									
9		240	30	✓	x	x									
10		241	20	✓	x	x		x							
11		242	10	✓	xx	x		x							
12		243	5	✓	x	x									
13		244	SFC	✓	x	xx		xx	xx						FLUOR: 0.7
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
 ROS TRM X-Niskin other?
 Watchkeeper(s): SR

Bottom Depth: 192 m
 Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	12:27	0527
Bottom	1231	
End	1246	

Positional Information

Lat:	49 ° 30.601 N
Lon:	124 ° 27.893 W

Start
Bottom
End

Lat: 49 ° 30.614 N
 Lon: 124 ° 27.845 W

Lat: 49 ° 30.572 N
 Lon: 124 ° 27.649 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: 9 Event #: 77 Ship: Vector UTC Date (dd/mm/yyyy): 30 Sept 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC						
1		245	B-5	✓ 165	x	x									
2		246	150		xx	x	x								
3		247	125		x	xx									
4		248	100		x	x									
5		249	75		x	x									
6		250	50		x	x									
7		251	40		xx	x									
8		252	30		x	x									
9		253	20		x	xx		xx							
10		254	10		x	x		x							
11		255	5		x	x									
12		256	SFC		x	x		x	xx						FLUOR:
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
 ROS TRM X-Niskin other?
 Watchkeeper(s):

Bottom Depth: m
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1535	0835
Bottom	1539	
End		

Positional Information

Lat:	49 ° 35.503 N
Lon:	124 ° 38.292 W

Bottom

Lat:	49 ° 35.495 N
Lon:	124 ° 38.272 W

End

Lat:	49 ° 35.408 N
Lon:	124 ° 38.209 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: 12 Event #: 82 Ship: Vector UTC Date (dd|mmm|yyyy): 30 | Sep | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC	Phyto	DA	HAB	DIC				
1	1	257	B-5	✓ 353	x	x							x				
2	2	258	300	✓ 300	x	x	x										
3	3	259	250	✓ 250	x	xx							x				
4	4	260	200	✓ 200	x	x							x				
5	5	261	175	✓ 175	x	x											
6	6	262	150	✓ 150	xx	xx							x				
7	7	263	125	✓ 125	x	x							xx				
8	8	264	100	✓ 100	xx	x							xx				
9	9	265	75	✓ 75	x	x							x				
10	10	266	50	✓ 50	x	x							x				
11	11	267	40	✓ 40	x	x							x				
12	12	268	30	✓ 30	x	x							x				
13	13	269	20	✓ 20	x	x		xx					x				
14	14	270	10	✓ 10	x	x		x					x				
15	15	271	5	✓ 5	x	x							x				
16	16	272	SFC	✓ 1.1	x	x							x				
17	17	273	SFC	✓ 1.1				x	xx	x	x	x					FLUOR: <2
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type: (ROS) TRM X-Niskin other?
Watchkeeper(s): MB

Bottom Depth: 356 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1846	1146
Bottom	1853	
End	1911	

Positional Information
Start
Lat: 49 ° 43 600 N
Lon: 124 ° 40 744 W

Bottom
Lat: 49 ° 43 584 N
Lon: 124 ° 40 676 W

End
Lat: 49 ° 43 595 N
Lon: 124 ° 40 547 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: 14 Event #: 86 Ship: Vector UTC Date (dd|mmm|yyyy): 30|Sep|2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC	Phyto	DA	HAB						
1	1	274	B-5	306	x	x												
2	2	275	250	250	x	x	x											
3	3	276	200	200	x	x												
4	4	277	175	175	x	xx												
5	5	278	150	150	x	x												
6	6	279	125	125	x	x												
7	7	280	100	100	xx	x												
8	8	281	75	75	xx	x												
9	9	282	50	50	x	x												
10	10	283	40	40	x	x												
11	11	284	30	30	x	x												
12	12	285	20	20	x	x		xx										
13	13	286	10	10	x	xx		x										
14	14	287	5	5	x	x												
15	15	288	SFC	1.1	x	x												
16	16	289	SFC	1.1				x	xx	x	x	x				FLUOR: 2-5		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): MB

Bottom Depth: 308 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2227	1527
Bottom	2232	
End	2252	

Positional Information

Lat:	49 ° 52 620 N
Lon:	124 ° 59 218 W

Bottom

Lat:	49 ° 52 586 N
Lon:	124 ° 59 180 W

End

Lat:	49 ° 52 428 N
Lon:	124 ° 59 026 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: 16 Event #: 88 Ship: Vector UTC Date (dd|mmm|yyyy): 1 | OCT | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC	DIC					
1	1	290	B-5	✓ 152	x	x				x					
2	2	291	125	✓ 125	x	x	x			xx					
3	3	292	100	✓ 100	x	x				x					
4	4	293	75	✓ 75	x	x				x					
5	5	294	50	✓ 50	x	x				x					
6	6	295	40	✓ 41	x	x				x					
7	7	296	30	✓ 30	xx	xx				x					
8	8	297	20	✓ 20	xx	xx		xx		x					
9	9	298	10	✓ 10	x	x		x		x					
10	10	299	5	✓ 5	x	x				x					
11	11	300	SFC	✓ 1.0	x	x				xx					
12	12	301	SFC	✓ 1.0				x	xx						FLUOR: 2-5
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR

Bottom Depth: 155 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0039	1739
Bottom	0042	
End	0054	

Positional Information
Start
Lat: 49 ° 57 715 N
Lon: 125 ° 8 934 W

Bottom
Lat: 49 ° 57 742 N
Lon: 125 ° 8 981 W

End
Lat: 49 ° 57 646 N
Lon: 125 ° 9 322 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: QU39 Event #: 90 Ship: Vector UTC Date (dd|mmm|yyyy): 1 | OCT | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC						
1	1	302	20	✓ 70		x		x							
2	2	303	10	✓ 10		x		xx							
3	3	304	SFC	✓ 1.1		x		x	xx						FLUOR: 2-5
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): MB

Bottom Depth: 274 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0208	1908
Bottom	0214	
End	0221	

Positional Information

Start Lat: 50 ° 1 804 N
Lon: 125 ° 5 387 W

Bottom Lat: 50 ° 1 805 N
Lon: 125 ° 5 478 W

End Lat: 50 ° 1 961 N
Lon: 125 ° 5 576 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: PEN1 Event #: 94 Ship: Vector UTC Date (dd|mmm|yyyy): 01|Oct|2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments												
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC	DIC	IONS																
1		305	B-5	✓	160	x	xx				x	x															
2		306	150			x	x	X			x	xx															
3		307	125			xx	x				x	x															
4		308	100			x	x				xx	x															
5		309	75			x	x				x	x															
6		310	50			x	x				x	x															
7		311	40			x	xx				x	x															
8		312	30			x	x				xx	x															
9		313	20			xx	x		x		x	xx															
10		314	10			x	x		xx		x	x															
11		315	5			x	x				x	x															
12		316	3.5								x	x															
13		317	2								x	x															
14		318	SFC			x	x				x	x															
15		319	SFC						x	xx																	
16																											
17																											
18																		FLUOR:									
19																											
20																											
21			Transmissometer to be cleaned before each cast, do not use Ammonia products																								
22																											
23																											
24																											

Transmissometer to be cleaned before each cast, do not use Ammonia products

Profile type: ROS TRM X-Niskin other?
Watchkeeper(s): SCL

Bottom Depth: 165 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1337	0637
Bottom	1340	
End	1357	

Positional Information
Start
Lat: 50 ° 17.044 N
Lon: 124 ° 42.5 W

Bottom
Lat: 50 ° 17.051 N
Lon: 124 ° 42.596 W

End
Lat: 50 ° 17.040 N
Lon: 124 ° 42.811 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: PEN2 Event #: 96 Ship: Vector UTC Date (dd|mmm|yyyy): 01 Oct 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC	Phyto	HAB	DA	DIC	IONS			
1		320	B-5	284	x	x							x	x			
2		321	250		xx	x	x						x	x			
3		322	200		x	x							x	xx			
4		323	175		xx	x							xx	x			
5		324	150		x	x							x	x			
6		325	125		x	xx							x	x			
7		326	100		x	x							x	x			
8		327	75		x	x							x	xx			
9		328	50		x	x							x	x			
10		329	40		x	xx							x	x			
11		330	30		x	x							x	x			
12		331	20		x	x		xx					xx	x			
13		332	10		x	x		x					x	x			
14		333	5		x	x							x	x			
15		334	3.5										x	x			
16		335	2										x	x			
17		336	SFC		x	x							x	x			FLUOR:
18		337	SFC					x	xx	x	x	x					
19																	
20																	
21																	
22																	
23																	
24																	

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): SR

Bottom Depth: 287 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1504	0804
Bottom	1510	
End	1536	

Positional Information
 Start
 Lat: 50° 14.758 N
 Lon: 124° 44.029 W

Bottom
 Lat: 50° 14.788 N
 Lon: 124° 43.996 W

End
 Lat: 50° 14.934 N
 Lon: 124° 43.750 W

Extra comments:

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2018-31 Station: PEN3 Event #: 97 Ship: Vector UTC Date (dd|mmm|yyyy): 11 OCT 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed	Oxy	Nut	Sal	Chl a	HPLC									
				✓ Pressure														
1		338	B-5	✓ 417	x	x												
2		339	300		x	x	x											
3		340	250		x	xx												
4		341	200		x	xx												
5		342	175		x	x												
6		343	150		x	x												
7		344	125		x	x												
8		345	100		x	x												
9		346	75		x	x												
10		347	50		xx	x												
11		348	40		x	x												
12		349	30		x	x												
13		350	20		x	x		x										
14		351	10		x	x		xx										
15		352	5		x	x												
16		353	SFC		xx	x		x	xx								FLUOR:	
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): SR2

Bottom Depth: 421 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	<u>1624</u>	<u>0924</u>
Bottom	<u>1632</u>	
End	<u>1658</u>	

Positional Information
 Start
 Lat: 50 ° 12.400 N
 Lon: 124 ° 45.119 W

Bottom
 Lat: 50 ° 12.404 N
 Lon: 124 ° 45.122 W

End
 Lat: 50 ° 12.445 N
 Lon: 124 ° 45.134 W

Extra comments:

Cruise ID: 2018-31 Station: 22 Event #: 99-100 Ship: Vector UTC Date (dd|mmm|yyyy): 1 | OCT | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC	Phyto	DA	HAB				
1	1	353	354 20	✓ 20		x		xx								
2	2	354	355 10	✓ 10		x		x								
3	3	355	356 SFC	✓ †		x		x	xx	x	x	x			FLUOR: 0.8	
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MS KYKS

Bottom Depth: 353 m
Transmisso Cleaned: ☒ Y ☐ N

	UTC	Local
Start	22:12	15:12
Bottom	22:19	15:19
End	22:27	15:27

Positional Information
Start
Lat: 49 ° 40.258 N
Lon: 124 ° 16.320 W

Bottom
Lat: 49 ° 40.342 N
Lon: 124 ° 16.405 W

End
Lat: 49 ° 40.451 N
Lon: 124 ° 16.511 W

Extra comments:
Bottle #3 from Event 100 - didn't fire on #99, so redeployed

Cruise ID: 2018-31 Station: 24 Event #: 104 Ship: Vector UTC Date (dd|mmm|yyyy): 2 | OCT | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC						
1	1	356	357 20	✓ 20		x		xx							
2	2	357	358 10	✓ 10		x		x							
3	3	358	359 SFC	✓ 1.1		x		x	xx						FLUOR: 42
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MB

Bottom Depth: 425 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0126	1826
Bottom	0135	
End	0145	

Positional Information
Start
Lat: 49 ° 30 730 N
Lon: 124 ° 6 178 W

Bottom
Lat: 49 ° 30 730 N
Lon: 124 ° 6 196 W

End
Lat: 49 ° 31 008 N
Lon: 124 ° 6 204 W

Extra comments: