

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03

Station: 56

Event #: 6

Ship: Vector

UTC Date (dd/mmm/yyyy): 22 | JAN | 2019

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	1	B-5	✓ 221	x	x												
2	2	2	200	✓ 200	x	x	x											
3	3	3	175	✓ 175	xx	x												
4	4	4	150	✓ 150	x	x												
5	5	5	125	✓ 125	x	x												
6	6	6	100	✓ 100	x	x												
7	7	7	75	✓ 75	x	x												
8	8	8	50	✓ 50	x	x												
9	9	9	40	✓ 40	x	x												
10	10	10	30	✓ 30	x	xx												
11	11	11	20	✓ 20	x	x		x										
12	12	12	10	✓ 11	xx	x		x										
13	13	13	5	✓ 5.2	xx	xx												
14	14	14	SFC	✓ 27	x	x												
15	15	15	SFC	✓ 27				xx	xx	x	x	x				FLUOR: < 2.0		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth:	215	m
Transmisso Cleaned:	✓	N

Time	UTC	Local
Start	0555	2155
Bottom	0600	
End	0618	

Positional Information
Lat: 48 ° 46 319 N
Lon: 123 ° 1 652 W

Start

Bottom

End

Lat: 49 ° 46 273 N
Lon: 123 ° 1 705 W

Lat: 48 ° 46 064 N
Lon: 123 ° 2 054 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2019-03

Station:

16

Event #:

14

Ship:

Vector

UTC Date (dd/mm/yyyy):

22 / 01 / 2019

Cruise ID: 2019-03			Station: 40		Event: 1														Comments
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials														
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC										
1	✓	29	B-5	✓	137.9	x	x												
2	✓	30	125	✓	124.9	x	x	x											
3	✓	31	100	✓	101.4	x	x												
4	✓	32	75	✓	74.9	x	x												
5	✓	33	50	✓	50.7	x	x												
6	✓	34	40	✓	40.1	x	x												
7	✓	35	30	✓	30.1	xx	xx												
8	✓	36	20	✓	20.1	x	x		xx										
9	✓	37	10	✓	10.3	x	x		x										
10	✓	38	5	✓	5.1	x	xx												
11	✓	39	SFC	✓	2.3	xx	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):

CC

Bottom Depth:

147

m

Transmisso Cleaned:

(Y) / N

Time

UTC

Local

Start

23:41

15:41

Bottom

23:45

15:45

End

23:56

15:56

Positional Information

Lat:

49

° 57.905

N

Lon:

125

° 08.497

W

Start

Bottom

Lat:

49

° 58.020

N

Lon:

125

° 08.435

W

End

Lat:

49

° 58.280

N

Lon:

125

° 08.251

W

Extra comments:

Cruise ID: 2019-03 Station: SOG23 Event #: 16 Ship: Vector UTC Date (dd mmm yyyy): 23 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC	Phyto				HABS				
1	1	90	SFC	✓ 2.2				x		x				x				
2																		
3																		
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: 237 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0321	1921
Bottom	0325	
End	0331	

Positional Information

Start	Lat:	50 ° 15 016 N
	Lon:	125 ° 23 002 W
Bottom	Lat:	50 ° 15 066 N
	Lon:	125 ° 23 044 W
End	Lat:	50 ° 15 151 N
	Lon:	125 ° 23 114 W

Extra comments:

Cruise ID: 2019-03 Station: CHP1 Event #: 17 Ship: Vector UTC Date (dd|mmm|yyyy): 23 JAN 2019

iskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments					
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a										
1	1	40	B-5	✓ 341	x	x												
2	2	41	300	✓ 300	x	x	x											
3	3	42	250	✓ 250	x	x												
4	4	43	200	✓ 200	x	x												
5	5	44	175	✓ 175	x	x												
6	6	45	150	✓ 150	xx	x												
7	7	46	125	✓ 125	x	xx												
8	8	47	100	✓ 100	xx	x												
9	9	48	75	✓ 75	x	x												
10	10	49	50	✓ 50	x	xx												
11	11	50	40	✓ 40	x	x												
12	12	51	30	✓ 30	x	x												
13	13	52	20	✓ 20	x	x		x										
14	14	53	10	✓ 10	x	x		xx										
15	15	54	5	✓ 5	x	x												
16	16	55	SFC	✓ 2.2	x	x		x										
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): MBBottom Depth: 317 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0416	2016
Bottom	0422	
End	0438	

Positional Information
Start
Lat: 50 ° 20 752 N
Lon: 125 ° 26 030 WBottom
Lat: 50 ° 20 759 N
Lon: 125 ° 26 108 WEnd
Lat: 50 ° 20 783 N
Lon: 125 ° 26 260 WExtra comments:
depth ~332m

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: JS 09 Event #: 20 Ship: Vector UTC Date (dd mmm yyyy): 23 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC		HABS							
1	1	56	B-5	✓	216	x	x											
2	2	57	400 200	✓	200	x	x	x										
3	3	58	300 175	✓	175	xx	x	x										
4	4	59	250 150	✓	150	x	xx											
5	5	60	200 125	✓	125	xx	x											
6	6	61	175 100	✓	100	x	x											
7	7	62	150 75	✓	75	x	x											
8	8	63	125 50	✓	50	x	x											
9	9	64	100 40	✓	40	x	x											
10	10	65	75 30	✓	30	x	x											
11	11	66	50 20	✓	20	x	x		x									
12	12	67	40 10	✓	10	x	xx		xx									
13	13	68	30 5	✓	5	x	x											
14	14	69	20 SFC	✓	2.0	x	x		x			x						
15		70	10			x	x		xx									
16		71	5			x	x											FLUOR:
17		72	SFC			x	x		x			x						
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 220 m
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0645	2245
Bottom	0649	
End	0703	

Positional Information

Start
 Lat: 50 ° 22 154 N
 Lon: 125 ° 42 304 W

Bottom
 Lat: 50 ° 22 141 N
 Lon: 125 ° 42 367 W

End
 Lat: 50 ° 22 146 N
 Lon: 125 ° 42 437 W

Extra comments:
 ~depth

Cruise ID: 2019-03 Station: JS 05 Event #: 25 Ship: Vector UTC Date (dd mmm yyyy): 23 JAN 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC		DIC		HABS					
1		73	B-5	✓ 371	x	x												
2		74	300	✓	x	x	x											
3		75	250	✓	x	x												
4		76	200	✓	x	xx					x							
5		77	175	✓	x	x												
6		78	150	✓	x	x					x							
7		79	125	✓	xx	x												
8		80	100	✓	x	x					x							
9		81	75	✓	x	x					x							
10		82	50	✓	x	xx					x							
11		83	40	✓	xx	x												
12		84	30	✓	x	x					x							
13		85	20	✓	x	x		x			xx							
14		86	10	✓	x	x		x			x							
15		87	5	✓	x	x					x							
16		88	SFC	✓	x	x					xx						FLUOR:	
17		89	SFC	✓				x	xx				x					
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 375 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	11:47	03:47
Bottom	11 55	
End	12:17	

Positional Information
Start
Lat: 50 ° 29.448 N
Lon: 126 ° 22.352 W

Bottom
Lat: 50 ° 29.450 N
Lon: 126 ° 22.321 W

End
Lat: 50 ° 29.464 N
Lon: 126 ° 22.315 W

Extra comments:
depth ~375m

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: CPE1 Event #: 36 Ship: Vector UTC Date (dd mmm yyyy): 23 JAN 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC		DIC			HABS	DA	Phyto		
1	1	91	B-5	✓ 142	x	x						x						
2	2	92	125	✓ 125	x	x	x					x						
3	3	93	100	✓ 100	x	xx						xx						
4	4	94	75	✓ 75	x	x						x						
5	5	95	50	✓ 50	x	x						x						
6	6	96	40	✓ 40	xx	x						x						
7	7	97	30	✓ 30	x	x						x						
8	8	98	20	✓ 20	x	x		x				xx						
9	9	99	10	✓ 10	x	xx		x				x						
10	10	100	5	✓ 5	x	x						x						
11	11	101	SFC	✓ 2.3	xx	x						x						
12	12	102	SFC	✓ 23				xx						x		x		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth:	142	m
Transmisso Cleaned:	(Y) / N	

Time	UTC	Local
Start	0023	1623
Bottom	0026	
End	0036	

Positional Information
Start
Lat: 51 ° 0 137 N
Lon: 127 ° 50 08 W

Bottom
Lat: 51 ° 0 118 N
Lon: 127 ° 50 153 W

End
Lat: 51 ° 0 222 N
Lon: 127 ° 50 34 W

Extra comments:
depth

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: QCS4 Event #: 44 Ship: Vector UTC Date (dd mmm yyyy): 24 01 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC		DIC			HABS	Phyto	DA	
1	1	103	B-5	✓	410	x	x				x						
2	2	104	400	✓	400	x	x	x			x						
3	3	105	400	✓	400	x	x	x			x						
4	4	106	300	✓	300	x	x				x						
5	5	107	250	✓	250	x	xx				x						
6	6	108	200	✓	200	x	x				x						
7	7	109	175	✓	175	x	x				x						
8	8	110	150	✓	150	x	x				xx						
9	9	111	125	✓	125	xx	x				x						
10	10	112	100	✓	100	x	x				x						
11	11	113	75	✓	75	x	x				x						
12	12	114	50	✓	50	x	xx				x						
13	13	115	40	✓	40	x	x				x						
14	14	116	30	✓	30	x	x				x						
15	15	117	20	✓	20	x	x		x		x						
16	16	118	10	✓	10	xx	x		xx		x						FLUOR:
17	17	119	5	✓	5	x	x				x						
18	18	120	SFC	✓	2.3	x	x				x						
19	19	121	SFC	✓	2.3				x					x	x		
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 397 m

Transmissio Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	7:21	23:21
Bottom	7:30	23:30
End	7:52	23:52

Positional Information

Start
Lat: 50 ° 46.675 N
Lon: 127 ° 24.331 WBottom
Lat: 50 ° 46.662 N
Lon: 127 ° 24.295 WEnd
Lat: 50 ° 46.544 N
Lon: 127 ° 24.235 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a							
1		122	B-5		x	x									
2		123	400		x	x	x								
3		124	300		x	x	x								
4		125	250		x	x									
5		126	200		x	xx									
6		127	175		x	x									
7		128	B-5 150	142.5	x	x									
8		129	125		x	xx	x								
9		130	100		x	x	x								
10		131	75		x	x									
11		132	50		x	x									
12		133	40		x	x									
13		134	30		xx	x									
14		135	20		x	x		x							
15		136	10		x	x		xx							
16		137	5		xx	x									
17		138	SFC		x	x		x							
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): SR

Bottom Depth: 148 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	12:16	0416
Bottom	12:19	
End	12:33	

Positional Information

Lat: 50° 44.492 N

Lon: 127° 02.328 W

Lat: 50° 44.496 N

Lon: 127° 02.338 W

Lat: 50° 44.483 N

Lon: 127° 02.333 W

Extra comments:

Cruise ID: 2019-03 Station: QCS1 Event #: 54 Ship: Vector UTC Date (dd mmm yyyy): 24 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC	Phyto	DA		HABS					
1		139	SFC	2.4				x		x			x					Flu ≈ 0.15
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		FLUOR:
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Watchkeeper(s): SR

Bottom Depth: _____ m

Transmissio Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1457	0657
Bottom	1501	
End	1505	

Positional Information

Start Lat: 50 ° 40.009 N

Start Lon: 126 ° 46.340W

Bottom Lat: 50 ° 40.094 N

Bottom Lon: 126 ° 46.326 W

End Lat: 50 ° 40.146 N

End Lon: 126 ° 46.286 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2019-03

Station:

JS 0

Event #:

57

Ship:

Vector

UTC Date (dd mmm yyyy):

24 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a			HABS		Phyto					
1		140	B-5	✓ 455	x	x												
2		141	400	✓ 401	x	x	x											
3		142	300	✓	x	x												
4		143	250	✓	x	x												
5		144	200	✓	x	x												
6		145	175	✓	x	xx												
7		146	150	✓	xx	x												
8		147	125	✓	x	x												
9		148	100	✓	x	xx												
10		149	75	✓	x	x												
11		150	50	✓	x	x												
12		151	40	✓	x	x												
13		152	30	✓	x	x												
14		153	20	✓	x	x		xx										
15		154	10	✓	x	x												
16		155	5	✓	xx	x		x										
17		156	SFC	✓	x	x		x			x		x					
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:

☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s):

SR

Bottom Depth: 460 m

Transmisso Cleaned: ☒ Y ☐ N

Time UTC Local

Start 1705 0905

Bottom 1715

End 1738

Positional Information

Start Lat: 50 ° 33.006 N

Lon: 126 ° 46.028 W

Bottom Lat: 50 ° 33.005 N

Lon: 126 ° 46.014 W

End Lat: 50 ° 32.962 N

Lon: 126 ° 46.008 W

Extra comments:

~depth 470m

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: 14 Event #: 64 Ship: Vector UTC Date (dd mmm yyyy): 25 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a		Phyto		HAB					
1		157	B-5	☒ 310	x	x											
2		158	250	☒	x	x	x										
3		159	200	☒	x	x											
4		160	175	☒	x	xx											
5		161	150	☒	x	x											
6		162	125	☒	x	x											
7		163	100	☒	x	x											
8		164	75	☒	xx	x											
9		165	50	☒	x	x											
10		166	40	☒	x	x											
11		167	30	☒	xx	x											
12		168	20	☒	x	x		xx									
13		169	10	☒	x	xx		x									
14		170	5	☒	x	x											
15		171	SFC	☒	x	x		x		x		x					
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 315 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0755	
Bottom	0802	
End	0823	

Positional Information

Lat:	49 ° 52.964	N
Lon:	124 ° 59.605	W

▼

Lat:	49 ° 52.962	N
Lon:	124 ° 59.610	W

▼

Lat:	49 ° 52.974	N
Lon:	124 ° 59.624	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03

Station: 12

Event #: 69

Ship: Vector

UTC Date (dd|mmm|yyyy): 25 Jan 2019

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		172	B-5	349	x	x							x		
2		173	300		x	x	x						x		
3		174	250		x	xx							x		
4		175	200		x	x							x		
5		176	175		x	x							x		
6		177	150		xx	xx							x		
7		178	125		x	x							x		
8		179	100		xx	x							x		
9		180	75		x	x							x		
10		181	50		x	x							xx		
11		182	40		x	x							x		
12		183	30		x	x							x		
13		184	20		x	x		xx					x		
14		185	10		x	x		x					x		
15		186	5		x	x							x		
16		187	SFC		x	x							NA		
17		188	SFC					x	NA	x	NA	x	x		FLUOR:
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 354 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1215	0415
Bottom	1222	
End	1245	

Positional Information
Start
Lat: 49 ° 43.542 N
Lon: 124 ° 40.870 W

Bottom
Lat: 49 ° 43.529 N
Lon: 124 ° 40.890 W

End
Lat: 49 ° 43.447 N
Lon: 124 ° 40.909 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: 9 Event #: 73 Ship: Vector UTC Date (dd|mmm|yyyy): 25 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC						
1		189	B-5	✓ 167	x	x									
2		190	150		x	x	x								
3		191	125		xx	x									
4		192	100		x	xx									
5		193	75		x	x									
6		194	50		x	x									
7		195	40		x	x									
8		196	30		x	x									
9		197	20		x	x		xx							
10		198	10		xx	x		x							
11		199	5		x	x									
12		200	SFC		x	xx		x						FLUOR: 0.71	
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): SRBottom Depth: 172 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1538	0738
Bottom	1542	
End	1555	

Positional Information
Start
Lat: 49 ° 35.520 N
Lon: 124 ° 38.324 WBottom
Lat: 49 ° 35.494 N
Lon: 124 ° 38.346 WEnd
Lat: 49 ° 35.531 N
Lon: 124 ° 38.384 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: 6 Event #: 77 Ship: Vector UTC Date (dd mmm yyyy): 25 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a							
1		201	B-5	✓ 191	x	x									
2		202	175		x	x	x								
3		203	150		x	x									
4		204	125		x	x									
5		205	100		x	x									
6		206	75		x	x									
7		207	50		x	x									
8		208	40		x	xx									
9		209	30		xx	xx									
10		210	20		x	x		x							
11		211	10		xx	x		x							
12		212	5		x	x									
13		213	SFC		x	x		xx							
14															Flu ≈ 0.74
15															on event 78
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): SR

Bottom Depth: 195 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1845	1045
Bottom	1850	
End	1903	

Positional Information

Start Lat: 49 ° 30.596 N

Start Lon: 124 ° 27.822 W

Bottom Lat: 49 ° 30.601 N

Bottom Lon: 124 ° 27.876 W

End Lat: 49 ° 30.635 N

End Lon: 124 ° 27.840 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: BS-17 Event #: 82 Ship: Vector UTC Date (dd mmm yyyy): 25 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a									
1	1	214	B-5	✓ 58	x	x											
2	2	215	40	✓ 40	x	x	x										
3	3	216	30	✓ 30	x	xx											
4	4	217	20	✓ 20	x	x		x									
5	5	218	10	✓ 10	x	x		x									
6	6	219	5	✓ 5	xx	x											
7	7	220	SFC	✓ 2.7	x	x		xx									
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/cc

Bottom Depth: 61 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2211	1411
Bottom	2212	
End	2218	

Positional Information

Lat:	49 ° 29 004 N
Lon:	124 ° 46 009 W

Start

▼

Lat:	49 ° 29 002 N
Lon:	124 ° 46 000 W

Bottom

▼

Lat:	49 ° 28 988 N
Lon:	124 ° 45 976 W

End

Extra comments:
depth ~ 55m

Cruise ID: 2019-03 Station: 3 Event #: 84 Ship: Vector UTC Date (dd mmm yyyy): 25 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a								
1	1	221	B-5	✓ 320	x	x										
2	2	222	300	✓ 300	x	x	x									
3	3	223	250	✓ 250	x	x										
4	4	224	200	✓ 200	x	x										
5	5	225	175	✓ 175	x	x										
6	6	226	150	✓ 150	xx	xx										
7	7	227	125	✓ 125	x	x										
8	8	228	100	✓ 100	x	x										
9	9	229	75	✓ 75	x	x										
10	10	230	50	✓ 50	x	x										
11	11	231	40	✓ 40	x	x										
12	12	232	30	✓ 30	xx	x										
13	13	233	20	✓ 20	x	x		x								
14	14	234	10	✓ 10	x	xx		xx								
15	15	235	5	✓ 5	x	x										
16	16	236	SFC	✓ 25	x	x		x								
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 325 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0042	1642
Bottom	0049	
End	0106	

Positional Information

Lat:	49 ° 26 572 N
Lon:	124 ° 20 222 W

Start

Lat:	49 ° 26 576 N
Lon:	124 ° 20 203 W

Bottom

Lat:	49 ° 26 582 N
Lon:	124 ° 20 248 W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: 2 Event #: 88 Ship: Vector UTC Date (dd mmm yyyy): 26 01 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a		PHYTO		HAB					
1	1	237	B-5	✓	273	x	x										
2	2	238	250	✓	250	x	x	x									
3	3	239	200	✓	200	x	x	x									
4	4	240	200	✓	200	xx	x	x									
5	5	241	175	✓	175	x	x										
6	6	242	150	✓	150	x	x										
7	7	243	125	✓	125	x	x										
8	8	244	100	✓	100	x	x										
9	9	245	75	✓	75	x	x										
10	10	246	50	✓	50	x	xx										
11	11	247	40	✓	40	x	x										
12	12	248	30	✓	30	x	x		xx								
13	13	249	20	✓	20	xx	xx		x								
14	14	250	10	✓	10	x	x										
15	15	251	5	✓	5	x	x										
16	16	252	SFC	✓	2.5	x	x		x	x		x					
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 275 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	03:54	19:54
Bottom	04:00	20:00
End	04:15	20:15

Positional Information

Lat:	49 °	24.144	N
Lon:	124 °	09.380	W

Start

Lat:	49 °	24.163	N
Lon:	124 °	09.376	W

Bottom

Lat:	49 °	24.064	N
Lon:	124 °	09.449	W

End

Extra comments:

Cruise ID: 2019-03

Station: 27

Event #: 95

Ship: Vector

UTC Date (dd mmm yyyy): 26 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a		PHYTO		HAB	DIC				
1		253	B-5	✓ 341	x	x							x				
2		254	300	✓	x	x	x						x				
3		255	300	✓	x	x	x										
4		256	250	✓	x	x							xx				
5		257	200	✓	xx	x							xx				
6		258	175	✓	x	x											
7		259	150	✓	x	xx											
8		260	125	✓	x	x											
9		261	100	✓	x	x											
10		262	75	✓	x	x											
11		263	50	✓	x	x											
12		264	40	✓	x	xx											
13		265	30	✓	x	x											
14		266	20	✓	x x	x		x									
15		267	10	✓	x	x		xx									
16		268	5	✓	x	x											
17		269	SFC	✓	x	x		x		x		x					FLU ≈ 0.72
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Watchkeeper(s): STR

Bottom Depth: 346 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0916	0116
Bottom	0923	
End	0946	

Positional Information

Start

Lat: 49 ° 19.126 N

Lon: 123 ° 48.053 W

Bottom

Lat: 49 ° 19.162 N

Lon: 123 ° 48.078 W

End

Lat: 49 ° 19.106 N

Lon: 123 ° 48.012 W

Extra comments:

Cruise ID: 2019-03 Station: VAN4 Event #: 103 Ship: Vector UTC Date (dd mmm yyyy): 26 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a		Phyto	HAB		DIC				
1		298	B-5	✓ 60	x	x							x				
2		299	50	✓	x	x	x						xx				
3		300	40	✓	x	xx							x				
4		301	30	✓	x	x							x				
5		302	20	✓	x	x		xx					xx				
6		303	10	✓	x	x		x					x				
7		304	5	✓	xx	x							x				
8		305	SFC	✓	x	x							x				
9		306	SFC	✓				x		x	x					Flu ≈ 0.35	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																FLUOR:	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): 802

Bottom Depth: 65 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	1705	0905
Bottom	1707	
End	1714	

Positional Information
Start
Lat: 49 ° 17.882 N
Lon: 123 ° 5.827 W

Bottom
Lat: 49 ° 17.879 N
Lon: 123 ° 5.832 W

End
Lat: 49 ° 17.888 N
Lon: 123 ° 5.844 W

Extra comments:
depth ~57m

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: VAN5 Event #: 104 Ship: Vector UTC Date (dd mmm yyyy): 26 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a		Phyto	HAB		DIC						
1		307	B-5	☒	31	x	x							x					
2		308	30	☒	30	x	x	x						xx					
3		309	20	☒		xx	x		xx					x					
4		310	10	☒		x	xx		x					x					
5		311	5	☒		x	x							xx					
6		312	SFC	☒		x	x		x					x					Flu ≈ 0.44
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: 37 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1739	0939
Bottom	1740	
End	1745	

Positional Information
Start
Lat: 49 ° 17.693 N
Lon: 123 ° 3.287 W

Bottom
Lat: 49 ° 17.689 N
Lon: 123 ° 3.288 W

End
Lat: 49 ° 17.675 N
Lon: 123 ° 3.313 W

Extra comments:
depth ~39m

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: BUW02 Event #: 105 Ship: Vector UTC Date (dd|mmm|yyyy): 26 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	HPLC		DA		HABS		
1		376	SFC	3				Xx	xx		x		x		bottle fired in event 105
2															Flu ≈ 0.45
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															FLUOR:
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 43 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1839	1039
Bottom	1841	
End	1842	

Positional Information
Start Lat: 49 ° 17.706 N
Lon: 123 ° 01.962 W

Bottom Lat: 49 ° 17.707 N
Lon: 123 ° 01.966 W

End Lat: 49 ° 17.708 N
Lon: 123 ° 01.978 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: INDO Event #: 108 Ship: Vector UTC Date (dd mmm yyyy): 26 JAN 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		Phyto	HAB		DIC			
1	1	326	B-5	✓ 35	x	x							x			
2	2	327	30	✓ 30	x	x	x						xx			
3	3	328	20	✓ 20	x	x		x					xx	ALL DICS MISSED NOT SAMPLED	see event # for the Recast at stn INDO later in the day	
4	4	329	10	✓ 10	x	x		x					x			
5	5	330	5	✓ 5	xx	x							x			
6	6	331	SFC	✓ 2.3	x	xx							x			
7	7	332	SFC	✓ 2.3				xx		x	x					
8																
9																
10																
11																
12																
13																
14																
15																
16																
17															FLUOR:	
18																
19																
20																
21																
22																
23																
24																

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MBBottom Depth: 40 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	20 31	12
Bottom	20 32	
End	20 37	

Positional Information
Start Lat: 49 ° 18 324 N
Lon: 122 ° 56 408 WBottom Lat: 49 ° 18 320 N
Lon: 122 ° 56 411 WEnd Lat: 49 ° 18 299 N
Lon: 122 ° 56 387 WExtra comments:
depth ~39m

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: IND2 Event #: 111 Ship: Vector UTC Date (dd mmm yyyy): 26 JAN 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a			DIC		HABS			Phyto		
1	1	333	B-5	✓ 153	x	x						x						
2	2	334	150	✓ 150	x	x	x					xx						
3	3	335	125	✓ 125	x	x						x						
4	4	336	100	✓ 100	x	x						x						
5	5	337	75	✓ 75	x	x						x						
6	6	338	50	✓ 50	x	x						x						
7	7	339	40	✓ 40	x	x						x						
8	8	340	30	✓ 30	x	x						x						
9	9	341	20	✓ 20	x	xx			x			xx						
10	10	342	10	✓ 10	x	x			xx			x						
11	11	343	5	✓ 5	xx	x						x						
12	12	344	SFC	✓ 2.5	x	x						x						
13	13	345	SFC	✓ 2.5					x					x		x		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 158 mTransmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	22 35	14 35
Bottom	22 39	
End	22 50	

Positional Information

Lat:	49 ° 20 996 N
Lon:	127 ° 54 092 W

Start

Bottom

End

Lat: 49 ° 26 996 N
Lon: 122 ° 54 094 W

Lat: 49 ° 20 968 N
Lon: 122 ° 54 055 W

Extra comments:

depth ~158m

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: IND4 Event #: 113 Ship: Vector UTC Date (dd mmm yyyy): 26 01 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed	Oxy	Nut	Sal	Chl a			DIC			HABS				
				✓	Pressure													
1	1	346	B-5	✓	215	x	x					x						
2	2	347	200	✓	200	x	x	x				xx						
3	3	348	175	✓	175	x	x					x						
4	4	349	150	✓	150	x	xx					x						
5	5	350	125	✓	125	xx	x					x						
6	6	351	100	✓	100	x	x					x						
7	7	352	75	✓	75	x	x					x						
8	8	353	50	✓	50	x	x					x						
9	9	354	40	✓	40	x	x					x						
10	10	355	30	✓	30	x	xx					x						
11	11	356	20	✓	20	x	x		x			xx						
12	12	357	10	✓	10	x	x		x			x						
13	13	358	5	✓	5	xx	x					x						
14	14	359	SFC	✓	2.2	x	x					x						
15	15	360	SFC	✓	2.2				xx					x		x		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 220 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2341	1541
Bottom	2346	1546
End	0000	1600

Positional Information
Start
Lat: 49 ° 23.360 N
Lon: 122 ° 52.514 WBottom
Lat: 49 ° 23.369 N
Lon: 122 ° 52.523 WEnd
Lat: 49 ° 23.387 N
Lon: 122 ° 52.489 W

Extra comments:

depth ~221m

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: IND7 Event #: 116 Ship: Vector UTC Date (dd mmm yyyy): 27 JAN 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a		Phyto	HAB		DIC					
1	1	361	B-5	✓ 67	x	x							x					
2	2	362	50	✓ 50	x	x	x						xx					
3	3	363	40	✓ 40	x	x							x					
4	4	364	30	✓ 30	x	xx							x					
5	5	365	20	✓ 20	x	x		x					x					
6	6	366	10	✓ 10	x	x		x					xx					
7	7	367	5	✓ 5	xx	x							x					
8	8	368	SFC	✓ 25	x	x							x					
9	9	369	SFC	✓ 25				xx		x	x							
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																FLUOR:		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 72 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0143	1743
Bottom	0144	
End	0151	

Positional Information

Lat:	49 °	27	410	N
Lon:	122 °	52	745	W

▼ 27 412

Bottom

Lat:	49 °	27	412	N
Lon:	122 °	52	767	W

▼

End

Lat:	49 °	27	428	N
Lon:	122 °	52	764	W

Extra comments:
depth ~75m

Cruise ID: 2019-03 Station: IND8 Event #: 117 Ship: Vector UTC Date (dd mmm yyyy): 27 01 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a			DIC				
1	1	370	B-5	✓ 33	x	x					x				
2	2	371	30	✓ 30	x	x	x				xx				
3	3	372	20	✓ 20	x	x		x			x				
4	4	373	10	✓ 10	x	x		xx			x				
5	5	374	5	✓ 5	xx	xx					xx				
6	6	375	SFC	✓ 2.2	x	x		x			x				
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															FLUOR:
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 38 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0230	1830
Bottom	0232	1832
End	0236	1836

Positional Information
Start Lat: 49 ° 26.502 N
Lon: 122 ° 52.615 W

Bottom Lat: 49 ° 26.501 N
Lon: 122 ° 52.614 W

End Lat: 49 ° 26.491 N
Lon: 122 ° 52.608 W

Extra comments:
depth ~39m

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: VAN7 Event #: 119 Ship: Vector UTC Date (dd mmm yyyy): 27 01 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a		Phyto	HAB		DIC		
1	1	321	B-5	✓ 14	x	xx							x		
2	2	322	10	✓ 10	x	x	x	x					xx		
3	3	323	5	✓ 5	xx	x							xx		
4	4	324	SFC	✓ 2.2	x	x							x		
5	5	325	SFC	✓ 2.2				x		x	x				
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): CC

Bottom Depth: 18 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0428	2028
Bottom	0429	2029
End	0432	2032

Positional Information
Start
Lat: 49 ° 17.407 N
Lon: 122 ° 54.336 W

Bottom
Lat: 49 ° 17.408 N
Lon: 122 ° 54.331 W

End
Lat: 49 ° 17.412 N
Lon: 122 ° 54.318 W

Extra comments:
depth ~18m

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: IND0 Event #: 118 Ship: Vector UTC Date (dd mmm yyyy): 27 01 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		Phyto	HAB		DIC		
1	1	377	B-5	✓ 32	x	x							x		
2	2	378	30	✓ 30	x	x	x						xx		
3	3	379	20	✓ 20	x	x		x					xx		
4	4	380	10	✓ 10	x	x		x					x		
5	5	381	5	✓ 5	xx	x							x		
6	6	382	SFC	✓ 2.2	x	xx		xx					x		
7		383	SFC					xx							
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															FLUOR:
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 36 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0357	1957
Bottom	0358	1958
End	0403	2003

Positional Information

Lat:	49 ° 18.248	N
Lon:	122 ° 56.372	W

Start

Lat:	49 ° 18.235	N
Lon:	122 ° 56.370	W

Bottom

Lat:	49 ° 18.212	N
Lon:	122 ° 56.375	W

End

FLUOR:

Extra comments:
depth ~39m

Cruise ID: 2019-03 Station: VAN6 Event #: 120 Ship: Vector UTC Date (dd mmm yyyy): 27 01 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a						DIC					
1	1	313	B-5	✓	61.2	x	x							x					
2	2	314	50	✓	51.9	x	x	x						xx					
3	3	315	40	✓	40.9	xx	x							x					
4	4	316	30	✓	31.2	x	x							x					
5	5	317	20	✓	20.7	x	x		xx					x					
6	6	318	10	✓	10.2	x	xx		x					xx					
7	7	319	5	✓	5.2	x	x							x					
8	8	320	SFC	✓	2.2	x	x		x					x					
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): CC

Bottom Depth: 65 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	05 08	21 08
Bottom	05 10	21 10
End	05	

Positional Information
Start
Lat: 49 ° 17.905 N
Lon: 122 ° 58.978 W

Bottom
Lat: 49 ° 17.898 N
Lon: 122 ° 58.999 W

End
Lat: 49 ° 17.893 N
Lon: 122 ° 59.014 W

Extra comments:
depth ~56m

Cruise ID: 2019-03

Station: VAN3

Event #: 121

Ship: Vector

UTC Date (dd mmm yyyy): 27 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓	Pressure	Oxy	Nut	Sal	Chl a		DIC			HABS		Phyto		
1	1	297	SFC	✓	2.1		x	x	xx					x		x		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		FLUOR:
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:

☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): MB

Bottom Depth: MB m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	06 12	22 12
Bottom	06 13	
End	06 15	

Positional Information

Start

Lat: 49 ° 18 913 N

Lon: 123 ° 9 943 W

Bottom

Lat: 49 ° 18 922 N

Lon: 123 ° 9 966 W

End

Lat: 49 ° 18 928 N

Lon: 123 ° 9 977 W

Extra comments:
depth ~115m

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: VAN1 Event #: 124 Ship: Vector UTC Date (dd mmm yyyy): 26 JAN 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	DIC	HABS	DA	Phyto			
1	1	287	B-5	✓ 113	x	x			x						
2	2	288	100	✓ 100	x	x	x		xx						
3	3	289	75	✓ 75	x	x			x						
4	4	290	50	✓ 50	x	x			x						
5	5	291	40	✓ 40	x	xx			x						
6	6	292	30	✓ 40	x	x			x						MIS-FIRE
7	8	293	20	✓ 20	xx	x		x	x						
8	9	294	10	✓ 10	x	x		xx	xx						
9	10	295	5	✓ 5	x	x			x						
10	11	296	SFC		x	x		x	x	x		x			MIS-FIRE
11	7	297	30	✓ 30	x	x			x						
12	12	296	SFC	✓ 25	x	x		x	x	x		x			
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 116 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	07 22	23
Bottom	07 25	
End	07 34	

Positional Information

Lat:	49 ° 18 863	N
Lon:	123 ° 15 962	W

▼

Lat:	49 ° 18 828	N
Lon:	123 ° 15 990	W

▼

Lat:	49 ° 18 734	N
Lon:	123 ° 15 967	W

Extra comments:
depth ~115m ~

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: 39 Event #: 125 Ship: Vector UTC Date (dd mmm yyyy): 27 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a							
1		270	B-5	✓ 371	x	x									
2		271	350	✓	x	x	x								
3		272	300	✓	x	x									
4		273	250	✓	x	x									
5		274	200	✓	x	xx									
6		275	175	✓	x	x									
7		276	150	✓	x	x									
8		277	125	✓	x	x									
9		278	100	✓	x	x									
10		279	75	✓	xx	xx									
11		280	50	✓	x	x									
12		281	40	✓	xx	x									
13		282	30	✓	x	x									
14		283	20	✓	x	x		x							
15		284	10	✓	x	x		x							
16		285	5	✓	x	x									
17		286	SFC	✓	x	x		xx							FLU ≈ 0.79
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 376 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0912	0112
Bottom	0920	
End	0941	

Positional Information

Lat:	49 ° 09.790	N
Lon:	123 ° 32.959	W

▼

Lat:	49 ° 09.840	N
Lon:	123 ° 32.825	W

▼

Lat:	49 ° 09.833	N
Lon:	123 ° 33.001	W

Extra comments:

Cruise ID: 2019-03 Station: 46 Event #: 135 Ship: Vector UTC Date (dd mmm yyyy): 27 Jan 2014

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a									
1		383	B-5	✓ 175	x	x											
2		384	150	✓	xx	xx	x										
3		385	125	✓	x	x											
4		386	100	✓	x	x											
5		387	75	✓	x	x											
6		388	50	✓	x	x											
7		389	40	✓	x	x											
8		390	30	✓	x	xx											
9		391	20	✓	x	x		x									
10		392	10	✓	x	x		xx									
11		393	5	✓	xx	x											
12		394	SFC	✓	x	x		x									Flu ≈ 0.85
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 180 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1648	0848
Bottom	1652	
End	1705	

Positional Information
Start
Lat: 48 ° 51.370 N
Lon: 123 ° 10.679 W

Bottom
Lat: 48 ° 51.388 N
Lon: 123 ° 10.728 W

End
Lat: 48 ° 51.383 N
Lon: 123 ° 10.778 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: 59 Event #: 139 Ship: Vector UTC Date (dd mmm yyyy): 27 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a		PHYTO		HAB	DIC		
1	1	395	B-5	✓ 225	x	x							x		
2	2	396	200	✓ 200	x	x	x						xx		
3	3	397	175	✓ 175	x	x									
4	4	398	150	✓ 150	xx	x							x		
5	5	399	125	✓ 125	x	x	xx								
6	6	400	100	✓ 100	x	x							x		
7	7	401	75	✓ 75	x	x							x		
8	8	402	50	✓ 50	x	x							x		
9	9	403	40	✓ 40	x	x									
10	10	404	30	✓ 30	x	x							x		
11	11	405	20	✓ 20	xx	x		x					xx		
12	12	406	10	✓ 10	x	xx		x					x		
13	13	407	5	✓ 5	x	x							x		
14	14	408	SFC	✓ 2.5	x	xx							x		
15	15	409	SFC	✓ 2.5				xx		x		x			
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth:	225	m
Transmisso Cleaned:	(Y) / N	

Time	UTC	Local
Start	2049	1209
Bottom	2054	1254
End	2108	1308

Positional Information
Lat: 48 ° 37.752 N
Lon: 123 ° 14.626 W

Start

Bottom

Lat: 48 ° 37.698 N
Lon: 123 ° 14.611 W

End

Lat: 48 ° 37.476 N
Lon: 123 ° 14.554 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: 69 Event #: 143 Ship: Vector UTC Date (dd mmm yyyy): 28 01 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a								
1	1	410	B-5	✓ 175	x	x										
2	2	411	150	✓ 150	x	x	xx									
3	3	412	125	✓ 125	xx	x										
4	4	413	100	✓ 100	x	xx										
5	5	414	75	✓ 75	x	x										
6	6	415	50	✓ 50	x	x										
7	7	416	40	✓ 40	x	x										
8	8	417	30	✓ 30	x	x										
9	9	418	20	✓ 20	x	xx		xx								
10	10	419	10	✓ 10	xx	x		x								
11	11	420	5	✓ 5	x	x										
12	12	421	SFC	✓ 25	x	x		x		x	x					
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Watchkeeper(s): CC

Bottom Depth: 177 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 0205 1805

Bottom 0209 1809

End 0221 1821

Positional Information

Start Lat: 48 ° 15.607 N

Lon: 123 ° 43.380 W

Bottom Lat: 48 ° 15.580 N

Lon: 123 ° 43.500 W

End Lat: 48 ° 15.612 N

Lon: 123 ° 43.650 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-03 Station: 72 Event #: 147 Ship: Vector UTC Date (dd mmm yyyy): 28 Jan 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a			phyto		HABS		
1	1	422	B-5	✓ 183	x	x									
2	2	423	175	✓ 175	x	xx	x								
3	3	424	150	✓ 150	x	x									
4	4	425	125	✓ 125	xx	x									
5	5	426	100	✓ 100	x	x									
6	6	427	75	✓ 75	x	xx									
7	7	428	50	✓ 50	x	x									
8	8	429	40	✓ 40	x	x									
9	9	430	30	✓ 30	x	x									
10	10	431	20	✓ 20	x	x		x							
11	11	432	10	✓ 10	xx	x		xx							
12	12	433	5	✓ 5	x	x									
13	13	434	SFC	✓ 2.3	x	x		x		x		x			
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 187 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0539	2139
Bottom	0542	
End	0553	

Positional Information
Start
Lat: 48 ° 18 811 N
Lon: 124 ° 3 612 W

Bottom
Lat: 48 ° 18 811 N
Lon: 124 ° 3 557 W

End
Lat: 48 ° 18 926 N
Lon: 124 ° 3 418 W

Extra comments: