

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: S1 Event #: 1 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 22|Nov|2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC									
1		1	100	✓ 100	X	X												
2		2	75	✓			X											
3		3	50	✓														
4		4	40	✓		XX												
5		5	30	✓	XX													
6		6	20	✓				X										
7		7	10	✓				XX										
8		8	5	✓														
9		9	sf	✓	X	X		X	XX									
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetIRos | X-Niskin
Watchkeeper(s):
ZR/PC

Bottom Depth: 181 m
Transmisso Cleaned: (Y) N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	02:53	18:53
Bottom (BO)	02:56	:
End (EN)	03:07	:

Positional Information
Start
Lat: 48° 39.072 N
Lon: 123° 29.987 W

Bottom
Lat: 48° 39.071 N
Lon: 123° 29.982 W

Finish
Lat: 48° 39.062 N
Lon: 123° 29.972 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 59 Event #: 4 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 22 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC	DIC	PHOTO	DA	HAB					
1		10	6-5	✓ 237	X	X				X								
2		11	200	✓ 200	1	1	X			X								
3		12	175	✓ 175	XX	1												
4		13	150	✓ 150	1	1				X								
5		14	125	✓ 125	1	XX												
6		15	100	✓ 100	1	1				XX								
7		16	75	✓ 75	1	XX				X								
8		17	50	✓ 50	XX	1				X								
9		18	40	✓ 40	1	1												
10		19	30	✓ 30	1	1				XX								
11		20	20	✓ 20	1	1		XX		X								
12		21	10	✓ 10	1	1		X		X								
13		22	5	✓ 5	1	1				X								
14		23	sta	✓ 2.0	X	X		X	XX	X	X	X	X					
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
R. S. M. R.

Bottom Depth: 239 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 07:31 23:31
Bottom (BO) 07:35 23:35
End (EN) : :

Positional Information
Start
Lat: 48° 37.868 N
Lon: 123° 14.417 W
Bottom
Lat: 48° 37.873 N
Lon: 123° 14.430 W
Finish
Lat: 48° 32.021 N
Lon: 123° 14.449 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 102 Event #: 8 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 22 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC	AMTO	DA	HAB						
1		24	6-	✓	254	X	X											
2		25	200	✓			X											
3		26	175	✓														
4		27	150	✓		XX												
5		28	125	✓			XX											
6		29	100	✓														
7		30	75	✓														
8		31	50	✓														
9		32	40	✓			XX											
10		33	30	✓														
11		34	20	✓		XX		X										
12		35	10	✓				XX										
13		36	5	✓														
14		37	SFC	✓		X	X	X	XX	X	X	X						
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
802

Bottom Depth: 259 m
Transmisso Cleaned: (Y) N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	18:39	10:39
Bottom (BO)	18:46	:
End (EN)	19:05	:

Positional Information
Start
Lat: 48° 30.042 N
Lon: 124° 43.925 W

Bottom
Lat: 48° 30.083 N
Lon: 124° 43.861 W

Finish
Lat: 48° 30.100 N
Lon: 124° 43.688 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 75 Event #: 11 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 22 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPAC									
1		38	5 -	✓ 204	X	X												
2		39	200	✓ 200	XX	1	X											
3		40	175	✓ 175	1													
4		41	150	✓ 150		XX												
5		42	125	✓ 125		1												
6		43	100	✓ 100		1												
7		44	75	✓ 75		1												
8		45	50	✓ 50		1												
9		46	40	✓ 40		1												
10		47	30	✓ 30		1												
11		48	20	✓ 20		XX		X										
12		49	10	✓ 10		1		X										
13		50	5	✓ 5	XX	1												
14		51	Sfc	✓ 1.7	X	X		XX	XX									
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
HR RS

Bottom Depth: 220 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	22 : 23	14 : 23
Bottom (BO)	22 : 27	14 : 27
End (EN)	22 : 40	14 : 40

Positional Information

Lat:	48 ° 28 . 294	N
Lon:	124 ° 32 . 653	W

Start

▼

Lat:	48 ° 28 . 316	N
Lon:	124 ° 32 . 590	W

Bottom

▼

Lat:	48 ° 28 . 358	N
Lon:	124 ° 32 . 402	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 72 Event #: Vessel: VECTOR UTC Date (dd|mmm|yyyy): 23 | Jul | 2018

Bottles & Samples			Rosette Operation			Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC	DIC	PAR	DA	WAB						
1		52	6-	✓ 182	X	X				X									
2		53	175	✓ 175			X												
3		54	150	✓ 150		XX				XX									
4		55	125	✓ 125	XX														
5		56	100	✓ 100						X									
6		57	75	✓ 75						X									
7		58	50	✓ 50	XX					X									
8		59	40	✓ 40		XX													
9		60	30	✓ 30						XX									
10		61	20	✓ 20				XX		X									
11		62	10	✓ 10				X		X									
12		63	5	✓ 5						X									
13		64	sfc	✓ 1.8	○	X		X	XX		X	X	X						
14		65	sfc	✓ 1.8	X					X									
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
Ros (default) | TrMetIRos | X-Niskin
Watchkeeper(s):
RHR KS

Bottom Depth: 185 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	03 :24	19 :24
Bottom (BO)	03 :28	19 :28
End (EN)	03 :40	19 :40

Positional Information

Lat:	48 ° 18 .674	N
Lon:	124 ° 04 .271	W

Start

▼

Lat:	48 ° 18 .748	N
Lon:	124 ° 04 .397	W

Bottom

▼

Lat:	48 ° 18 .997	N
Lon:	124 ° 04 .801	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-037 Station: 69 Event #: 18 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 23 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	MP2									
1		66	6-	✓ 177	X	X												
2		67	150	✓ 150		1	X											
3		68	125	✓ 125		XX												
4		69	100	✓ 100														
5		70	75	✓ 75														
6		71	50	✓ 50	XX													
7		72	40	✓ 40														
8		73	30	✓ 30														
9		74	20	✓ 20		XX		X										
10		75	10	✓ 10	XX			XX										
11		76	5	✓ 5														
12		77	Sfc	✓ 1.8	X	X		X	XX									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
RKS NR

Bottom Depth: _____ m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	07:15	23:15
Bottom (BO)	07:18	23:18
End (EN)	:	:

Positional Information
Start
Lat: 48 ° 15 . 725 N
Lon: 123 ° 43 . 428 W

Bottom
Lat: 48 ° 15 . 787 N
Lon: 123 ° 43 . 477 W

Finish
Lat: 48 ° 15 . 966 N
Lon: 123 ° 43 . 592 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: ADCP Event #: 21 Vessel: Vector UTC Date (dd|mmm|yyyy): 23 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC	Phyto	DA	HAB						
1		78	B-10	✓ 119	↓	↓												
2		79	100	✓	↓	↓	X											
3		80	75	✓	XX	XX												
4		81	50		↓	↓												
5		82	40		↓	↓												
6		83	30		↓	↓												
7		84	20		↓	↓		X										
8		85	10		XX	XX		XX										
9		86	5		↓	↓												
10		87	surf		↓	↓												
11		88	surf					XX	XX	X	X	X						
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
☒ Ros (default) ☐ TrMetlRos ☐ X-Niskin
Watchkeeper(s):


Bottom Depth: 122 m
Transmisso Cleaned: ☒ Y / ☐ N
Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	10:38	02:58
Bottom (BO)	10:41	:
End (EN)	10:52	:

Positional Information

Lat:	48° 13.997	N
Lon:	123° 17.945	W

▼

Lat:	48° 14.004	N
Lon:	123° 17.909	W

▼

Lat:	48° 14.027	N
Lon:	123° 17.780	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 65 Event #: 25 Vessel: Vector UTC Date (dd|mmm|yyyy): 23 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	TPC									
1		89	B-5	✓	124	↓	↓											
2		90	100	✓			X											
3		91	75	✓		XX												
4		92	50	✓		↓												
5		93	40	✓		XX												
6		94	30	✓		↓												
7		95	20	✓		↓		XX										
8		96	10	✓		↓		X										
9		97	5	✓		↓												
10		98	Surf	✓		↓		X	XX									Flu=0.35 mg/L
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
☒ Ros (default) ☐ TrMetIRos ☐ X-Niskin
Watchkeeper(s):
JR

Bottom Depth: 12 m
Transmisso Cleaned: ☒ Y / ☐ N
Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	13 :26	05:26
Bottom (BO)	13 :30	:
End (EN)	13 :41	:

Positional Information

Start	Lat:	48° 15.930	N
	Lon:	123° 9.880	W
Bottom	Lat:	48° 15.936	N
	Lon:	123° 9.944	W
Finish	Lat:	48° 15.905	N
	Lon:	123° 10.127	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 63 Event #: 28 Vessel: Vector UTC Date (dd|mmm|yyyy): 23 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	phyto	HAB	HPLC	DA					
1		99	6-5	✓ 150	✓	✓											
2		100	125	✓	✓	✓	✓										
3		101	100	✓	✓	✓											
4		102	75	✓	✓	✓											
5		103	50	✓	✓	✓											
6		104	40	✓	✓	✓											
7		105	30	✓	✓	✓											
8		106	20	✓	✓	✓		XX									
9		107	10	✓	✓	✓		X									
10		108	5	✓	✓	✓											
11		109	0	✓	✓	✓											
12		110	0	✓				X	X	XX	X						
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
802

Bottom Depth: 154 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	15:49	07:49
Bottom (BO)	15:53	:
End (EN)	16:05	:

Positional Information

Lat:	48° 14.591	N
Lon:	122° 58.400	W

▼

Lat:	48° 14.566	N
Lon:	122° 58.414	W

▼

Lat:	48° 14.479	N
Lon:	122° 58.444	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 62 Event #: 29 Vessel: Vector UTC Date (dd|mmm|yyyy): 23 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a									
1		111	6-5	✓ 146	✓	✓											
2		112	125	✓	✓	✓	✓										
3		113	100	✓	✓	✓											
4		114	75	✓	✓✓	✓											
5		115	50	✓	✓	✓											
6		116	40	✓	✓	✓											
7		117	30	✓	✓	✓											
8		118	20	✓	✓	✓		✓									
9		119	10	✓	✓✓	✓		✓									
10		120	5	✓	✓	✓											
11		121	0	✓	✓	✓		✓✓	✓✓								
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 151 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	17:25	09:25
Bottom (BO)	17:28	:
End (EN)	17:40	:

Positional Information

Lat:	48° 22.808	N
Lon:	123° 2.543	W

Start

▼

Lat:	48° 22.813	N
Lon:	123° 2.728	W

Bottom

▼

Lat:	48° 22.951	N
Lon:	123° 2.941	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 56 Event #: 35 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 24 | JUN | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPGC	PAR	DA	WAS					
1		122	6-	✓ 225	X	X											
2		123	200	✓ 200	XX		X										
3		124	175	✓ 175													
4		125	150	✓ 150													
5		126	125	✓ 125													
6		127	100	✓ 100		XX											
7		128	75	✓ 75													
8		129	50	✓ 50													
9		130	40	✓ 40	XX												
10		131	30	✓ 30													
11		132	20	✓ 20				XX									
12		133	10	✓ 10				X									
13		134	5	✓ 5		XX											
14		135	stc	✓ 2.1	X	X		X	XX	X	X	X					
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):

Bottom Depth: 230 m
Transmisso Cleaned: (Y) / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	01 : 54	17 : 59
Bottom (BO)	01 : 59	17 : 59
End (EN)	02 : 12	18 : 12

Positional Information

Lat:	48 ° 46 . 224	N
Lon:	123 ° 01 . 850	W

Start

▼

Lat:	48 ° 46 . 085	N
Lon:	123 ° 01 . 986	W

Bottom

▼

Lat:	48 ° 45 . 756	N
Lon:	123 ° 02 . 297	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 46 Event #: 42 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 24 | Jul | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC									
1		136	6-4		172	XX	X											
2		137	150					X										
3		138	125															
4		139	100															
5		140	75															
6		141	50			XX												
7		142	40															
8		143	30				XX											
9		144	20					X										
10		145	10					XX										
11		146	5															
12		147	SFE			X	XX	X	XX									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 176 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	08:13	00:13
Bottom (BO)	08:18	:
End (EN)	08:31	:

Positional Information
Start
Lat: 48° 51.430 N
Lon: 123° 10.829 W

Bottom
Lat: 48° 51.451 N
Lon: 123° 10.802 W

Finish
Lat: 48° 51.499 N
Lon: 123° 10.837 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 42 Event #: 46 Vessel: Vector UTC Date (dd|mmm|yyyy): 24 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC	DA	HAB	DIC	ph	ph ₂ O		
1		148	6-5	✓ 316	✓	✓						✓				
2		149	300	✓	✓	✓										
3		150	250	✓	✓							✓				
4		151	200	✓	✓							✓				
5		152	175	✓	✓											
6		153	150	✓	✓							✓				
7		154	125	✓	✓							✓				
8		155	100	✓	✓							✓				
9		156	75	✓	✓							✓				
10		157	50	✓	✓							✓				
11		158	40	✓	✓							✓				
12		159	30	✓	✓							✓				
13		160	20	✓	✓			✓				✓				
14		161	10	✓	✓			✓				✓				
15		162	5	✓	✓							✓				
16		163	sfe	✓	✓							✓				
17		164	sfe	✓				✓	✓	✓	✓		✓		Flu	0.8
18																
19																
20																
21																
22																
23																
24																

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 321 m
Transmisso Cleaned: (Y) N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	11:36	03:36
Bottom (BO)	11:44	:
End (EN)	12:04	:

Positional Information
Start
Lat: 49° 01.777 N
Lon: 123° 26.108 W

Bottom
Lat: 49° 01.775 N
Lon: 123° 26.125 W

Finish
Lat: 49° 01.757 N
Lon: 123° 26.159 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 39 Event #: 53 Vessel: Vector UTC Date (dd|mmm|yyyy): 24 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC									
1		165	B-5	✓ 373			X											
2		166	350	✓														
3		167	300	✓														
4		168	250	✓														
5		169	200	✓		XX												
6		170	175	✓	XX													
7		171	150	✓														
8		172	125	✓ 126														
9		173	100	✓ 101														
10		174	75	✓														
11		175	50	✓		XX												
12		176	40	✓	XX													
13		177	30	✓														
14		178	20	✓				X										
15		179	10	✓				XX										
16		180	5	✓														
17		181	0	✓	✓	✓		X	XX									
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 378 m
Transmisso Cleaned: (Y) N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	16:43	08:43
Bottom (BO)	16:50	:
End (EN)	17:13	:

Positional Information

Lat:	49° 09.822	N
Lon:	123° 32.917	W

▼

Lat:	49° 09.784	N
Lon:	123° 32.854	W

▼

Lat:	49° 10.030	N
Lon:	123° 32.639	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 27 Event #: 59 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 24 | Jul | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HLR	DIC	PARTO	DA	LAB					
1		185	6-	✓ 343	X	X				X								
2		186	300	✓ 300			X			XX								
3		187	250	✓ 250		XX				X								
4		188	200	✓ 200						X								
5		189	175	✓ 175	XX					X								
6		190	150	✓ 150														
7		191	125	✓ 125														
8		192	100	✓ 100														
9		193	75	✓ 75														
10		194	50	✓ 50	XX													
11		195	40	✓ 40														
12		196	30	✓ 30		XX												
13		197	20	✓ 20				X		X								
14		198	10	✓ 10				XX		X								
15		199	5	✓ 5	X					X								
16		200	sfc	✓ 2.2		X		X	XX		X	X	X					
17		201	sfc	✓ 2.3	X					X								
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
JES WR

Bottom Depth: 345 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	21 :52	13 :52
Bottom (BO)	21 :59	13 :59
End (EN)	22 :16	14 :15

Positional Information

Lat:	49 ° 19 . 064	N
Lon:	123 ° 47 . 954	W

Start

Lat:	49 ° 19 . 064	N
Lon:	123 ° 47 . 954	W

Bottom

Lat:	49 ° 19 . 105	N
Lon:	123 ° 47 . 879	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032

Station: 24

Event #: _____

Vessel: VECTOR

UTC Date (dd|mmm|yyyy): 25 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC									
1		202	20	✓ 20		X		XX										
2		203	10	✓ 10		XX		X										
3		204	8pc	✓ 2.2		X		X	XX									
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
P. KSWR

Bottom Depth: 425 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N
 Time UTC Local
 Start (BE) 01 : 30 17 : 30
 Bottom (BO) 01 : 38 17 : 38
 End (EN) 01 : 48 17 : 48

Positional Information
 Start
 Lat: 49 ° 30 . 296 N
 Lon: 124 ° 05 . 892 W
 Bottom
 Lat: 49 ° 30 . 280 N
 Lon: 124 ° 05 . 800 W
 Finish
 Lat: 49 ° 30 . 245 N
 Lon: 124 ° 05 . 657 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-032 Station: GE01 Event #: 57 Vessel: Vector UTC Date (dd|mmm|yyyy): 24 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	MP									
1		182	20	✓ 20		XX		X										
2		183	10	✓ 10		X		XX										
3		184	0	✓ 2.1		X		X	XX									
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 400 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	19 : 56	11 : 56
Bottom (BO)	20 : 04	12 : 04
End (EN)	20 : 15	12 : 15

Positional Information

Start	Lat: 49 ° 14 . 970 N
	Lon: 123 ° 44 . 855 W

Bottom

Lat: 49 ° 14 . 970 N
Lon: 123 ° 44 . 883 W

Finish

Lat: 49 ° 14 . 924 N
Lon: 123 ° 44 . 716 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: CFE1 Event #: 66 Vessel: NECTOP UTC Date (dd|mmm|yyyy): 25 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)														Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HR										
1		221	20	✓ 20		XX		X											
2		222	10	✓ 10		X		XX											
3		223	sf	✓ 2.3		X		X	XX										
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
HR KS

Bottom Depth: 245 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	04:25	20:25
Bottom (BO)	04:30	20:30
End (EN)	04:37	20:37

Positional Information

Lat:	49° 22.187	N
Lon:	124° 04.948	W

▼

Lat:	49° 22.268	N
Lon:	124° 04.835	W

▼

Lat:	49° 22.436	N
Lon:	124° 04.728	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 2 Event #: 65 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 25 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments		
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC	PHOTO	DA	HAB					
1		205	6-	✓ 282	X	X											
2		206	250	✓ 250			X										
3		207	200	✓ 200													
4		208	175	✓ 175	XX			.									
5		209	150	✓ 150													
6		210	125	✓ 125	XX												
7		211	100	✓ 100													
8		212	75	✓ 75													
9		213	50	✓ 50		XX											
10		214	40	✓ 40													
11		215	30	✓ 30													
12		216	20	✓ 20				XX									
13		217	10	✓ 10				X									
14		218	5	✓ 5		XX											
15		219	sfc	✓ 2.2	X	X		.									
16		220	sfc	✓ 2.2				X	XX	X	X	X					
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
Ros (default) | TrMetlRos | X-Niskin

Watchkeeper(s):
RHR KS

Bottom Depth: 280 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	03 : 05	19 : 05
Bottom (BO)	03 : 10	19 : 10
End (EN)	03 : 26	19 : 26

Positional Information

Start

Lat: 49 ° 24 . 132 N

Lon: 124 ° 09 . 102 W

Bottom

Lat: 49 ° 24 . 163 N

Lon: 124 ° 09 . 012 W

Finish

Lat: 49 ° 24 . 202 N

Lon: 124 ° 08 . 683 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 3 Event #: 69 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 25 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC									
1		224	6-	✓ 317	X	X												
2		225	300	✓ 300			X											
3		226	250	✓ 250														
4		227	200	✓ 200														
5		228	175	✓ 175	XX													
6		229	150	✓ 150														
7		230	125	✓ 125		XX												
8		231	100	✓ 100														
9		232	75	✓ 75		XX												
10		233	50	✓ 50														
11		234	40	✓ 40	XX													
12		235	30	✓ 30														
13		236	20	✓ 20				X										
14		237	10	✓ 10				X										
15		238	5	✓ 5														
16		239	sfc	sfc	X	X		XX	XX									
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetIRos | X-Niskin
Watchkeeper(s):
PR KS MR

Bottom Depth: 321 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	07:36	23:36
Bottom (BO)	07:42	23:42
End (EN)	:	:

Positional Information

Lat:	49 ° 26 . 636	N
Lon:	124 ° 20 . 414	W

▼

Lat:	49 ° 26 . 642	N
Lon:	124 ° 20 . 342	W

▼

Lat:	49 ° 26 . 618	N
Lon:	124 ° 20 . 062	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 6 Event #: 72 Vessel: Vector UTC Date (dd|mmm|yyyy): 25 | Nov | 2012

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC									
1		240	B-5	✓	186													
2		241	175	✓		XX		X										
3		242	150	✓														
4		243	125	✓		XX												
5		244	100	✓														
6		245	75	✓		XX												
7		246	50	✓						This bottle snapped @ 75 m								using #14 for 50m bot
8		247	40	✓		XX												
9		248	30	✓														
10		249	20	✓				X										
11		250	10	✓				X										
12		251	5	✓														
13		252	0	✓		✓	✓	XX	XX									
14	50m	246	50m	✓		X	X											
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
☒ Ros (default) ☐ TrMetlRos ☐ X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 191 m
Transmisso Cleaned: ☒ Y / ☐ N
Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	09:51	01:51
Bottom (BO)	09:55	:
End (EN)	10:12	:

Positional Information
Start
Lat: 49° 30.568 N
Lon: 124° 28.122 W

Bottom
Lat: 49° 30.595 N
Lon: 124° 28.066 W

Finish
Lat: 49° 30.661 N
Lon: 124° 27.739 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 9 Event #: 75 Vessel: Vector UTC Date (dd|mmm|yyyy): 25 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a									
1		253	125		✓	✓											
2		254	150		✓	✓	✓										
3		255	125		✓	✓											
4		256	100		✓	✓											
5		257	75		✓	✓											
6		258	50		✓✓	✓											
7		259	40		✓	✓											
8		260	30		✓	✓											
9		261	20		✓	✓		✓									
10		262	10		✓	✓		✓✓									
11		263	5		✓	✓											
12		264	0		✓	✓		✓	✓✓								
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 169 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	12:46	04:46
Bottom (BO)	12:50	:
End (EN)	13:03	:

Positional Information

Lat:	49° 35.486	N
Lon:	124° 38.534	W

Start

Bottom

Lat:	49° 35.468	N
Lon:	124° 38.472	W

Finish

Lat:	49° 35.425	N
Lon:	124° 38.360	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 12 Event #: 79 Vessel: Vector UTC Date (dd|mmm|yyyy): 25 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	DIC	HPLC	Phyb	DA	Hab					
1		265	B-5	✓353					X									
2		266	300				X											
3		267	250						X									
4		268	200			XX			X									
5		269	175															
6		270	150						XX									
7		271	125		XX				X									
8		272	100						X									
9		273	75						X									
10		274	50						XX									
11		275	40		XX				X									
12		276	30						X									
13		277	20			XX		XX	X									
14		278	10					X	X									
15		279	5						X									
16		280	0		↓	↓			X									
17		281	0					X		XX	X	X	X					
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
CJR

Bottom Depth: 358 m
Transmisso Cleaned: (Y) N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	16:04	08:04
Bottom (BO)	16:09	:
End (EN)	16:34	:

Positional Information
Start
Lat: 49° 43.615 N
Lon: 124° 40.925 W

Bottom
Lat: 49° 43.576 N
Lon: 124° 40.840 W

Finish
Lat: 49° 43.559 N
Lon: 124° 40.690 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 14 Event #: 82 Vessel: Vector UTC Date (dd|mmm|yyyy): 25 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	WRC	Oylo	DA	HAB						
1		282	13-5	✓ 312	↓	↓												
2		283	300	✓	↓		X											
3		284	250	✓														
4		285	200	✓	XX	↓												
5		286	175	✓	↓													
6		287	150	✓		XX												
7		288	125	✓	↓													
8		289	100	✓	↓													
9		290	75	✓	↓													
10		291	50	✓	↓													
11		292	40	✓	XX	↓												
12		293	30	✓	↓			X										
13		294	20	✓		XX		XX										
14		295	10	✓		↓												
15		296	5	✓	✓	✓												
16		297	0	✓	✓			X	XX	X	X	X						
17																		Extra bottle tripped
18																		for surface sample
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
☒ Ros (default) ☐ TrMetlRos ☐ X-Niskin
Watchkeeper(s):
SR

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

Time	UTC	Local
Start (BE)	18:55	10:55
Bottom (BO)	19:02	:
End (EN)	19:23	:

Positional Information
Start
Lat: 49° 52.933 N
Lon: 124° 59.401 W
▼
Bottom
Lat: 49° 52.930 N
Lon: 124° 59.376 W
▼
Finish
Lat: 49° 52.892 N
Lon: 124° 59.341 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 16 Event #: 83 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 25 | Jul | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPLC	DIC								
1		298	6-	✓ 147	X	X				X								
2		299	125	✓ 125	1	XX	X			X								
3		300	100	✓ 100	XX	1				XX								
4		301	75	✓ 75	1	1				X								
5		302	50	✓ 50	1	1				X								
6		303	40	✓ 40	1	1												
7		304	30	✓ 30	XX	1												
8		305	20	✓ 20	1	XX		X		X								
9		306	10	✓ 10	1	1		XX										
10		307	5	✓ 5	1	1												
11		308	ste	✓ 2.5	X	X		X	XX	X								
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin

Watchkeeper(s):
RB HR MS

Bottom Depth: 155 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	20 : 23	12 : 23
Bottom (BO)	20 : 26	12 : 26
End (EN)	20 : 35	12 : 35

Positional Information

Start

Lat: 49 ° 57 . 760 N

Lon: 125 ° 08 . 588 W

Bottom

Lat: 49 ° 57 . 788 N

Lon: 125 ° 08 . 584 W

Finish

Lat: 49 ° 57 . 838 N

Lon: 125 ° 08 . 426 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-032 Station: 22 Event #: 84 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 26 | Nov | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a										
1		309	20	✓ 20		X		X										
2		310	10	✓ 10		XX		X										
3		311	8fc	✓ 2.5		X		XX	XX									
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
R K H R

Bottom Depth: 354 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	01 : 31	17 : 31
Bottom (BO)	01 : 38	17 : 38
End (EN)	01 : 47	17 : 47

Positional Information

Lat:	49 ° 40 . 312	N
Lon:	124 ° 16 . 303	W

Bottom

Lat:	49 ° 40 . 262	N
Lon:	124 ° 16 . 372	W

Finish

Lat:	49 ° 40 . 201	N
Lon:	124 ° 16 . 298	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)