

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-05 Station: SL Event #: 1 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 21 | Apr | 2016

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	IRLC	DC								
1		1	100	✓ 100	X	X				X								
2		2	75	✓ 75			X											
3		3	50	✓ 50														
4		4	40	✓ 40														
5		5	30	✓ 30	X													
6		6	20	✓ 20		X		XX										
7		7	10	✓ 10				XX										
8		8	5	✓ 5														
9		9	stc	✓ 1.5	X	X		XX	XX									
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 182 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	23 : 44	16 : 41
Bottom (BO)	23 : 47	16 : 44
End (EN)	23 : 58	16 : 58

Positional Information

Lat:	48 ° 39 . 13	N
Lon:	123 ° 30 . 61	W

Start

▼

Lat:	48 ° 39 . 13	N
Lon:	123 ° 30 . 60	W

Bottom

▼

Lat:	48 ° 39 . 13	N
Lon:	123 ° 30 . 55	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: 2016-05 Station: 59 Event #: 3 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 22 | APR | 2016

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	DOC	Phyto							
1		10	6.5	✓ 229	X	X			X									
2		11	200	✓ 200			X		X									
3		12	175	✓ 175														
4		13	150	✓ 150	XX				X									
5		14	125	✓ 125		XX												
6		15	100	✓ 100					XX									
7		16	75	✓ 75					X									
8		17	50	✓ 50					X									
9		18	40	✓ 40	XX													
10		19	30	✓ 30		XX			XX									
11		20	20	✓ 20				XX	X									
12		21	10	✓ 10				XX	X									
13		22	5	✓ 5					X									
14		23	sfz	✓ 1.2	X	X		XX	X	XX	X							
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 233 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>02:33</u>	<u>19:33</u>
Bottom (BO)	<u>02:39</u>	<u>19:39</u>
End (EN)	<u>02:53</u>	<u>19:53</u>

Positional Information

Lat:	<u>48° 37.78</u>	N
Lon:	<u>123° 14.58</u>	W

▼

Lat:	<u>48° 37.80</u>	N
Lon:	<u>123° 14.57</u>	W

▼

Lat:	<u>48° 37.80</u>	N
Lon:	<u>123° 14.60</u>	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: 2016-05

Station: 102

Event #: 9

Vessel: VECTOR

UTC Date (dd|mmm|yyyy): 22 | Apr | 2016

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	NPIC	phyto	FLT	NUT					
1		24	6-5	✓	250	X	XX					XX					0.45um nylon filtered replicat nutrients
2		25	200	✓				X									
3		26	175	✓													
4		27	150	✓			XX					XX					
5		28	125	✓		XX											
6		29	100	✓													
7		30	75	✓													
8		31	50	✓													
9		32	40	✓													
10		33	30	✓		XX											
11		34	20	✓			XX	XX				XX					
12		35	10	✓			Ⓟ	XX									- forgot to take nut sample
13		36	5														
14		37	stk			X	X	XX	XX	X							
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

35

NUT

Sta 102

2016-05

Bot 12

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

Bottom Depth: 235 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	14 :43	07 :43
Bottom (BO)	14 :49	:
End (EN)	15 :04	:

Positional Information

Start	Lat: <u>48 ° 30 .04</u>	N
	Lon: <u>124 ° 44 .18</u>	W

Bottom

Lat: <u>48 ° 30 .08</u>	N
Lon: <u>124 ° 44 .28</u>	W

Finish

Lat: <u>48 ° 30 .20</u>	N
Lon: <u>124 ° 44 .50</u>	W

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

35
 NUT
 Stn 102
 2016-05
 Bot 12

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-05 Station: 72 Event #: 15 Vessel: VECTOR UTC Date (dd|mmm|yyyy): | |

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	WPC	Phyto							
1		52	6-5	✓ 190	X	X			X									
2		53	175	✓ 175		1	X											
3		54	150	✓ 150		XY			XX									
4		55	125	✓ 125														
5		56	100	✓ 100	XX				X									
6		57	75	✓ 75					X									
7		58	50	✓ 50					X									
8		59	40	✓ 40														
9		60	30	✓ 30		XY			XX									
10		61	20	✓ 20	XX			XX	X									
11		62	10	✓ 10				XX	X									
12		63	5	✓ 5					X									
13		64	SLC	✓ 2.0	X	X		XX	X	XX	X							
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 190 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	20 :56	13 :56
Bottom (BO)	21 :00	14 :00
End (EN)	21 :13	14 :13

Positional Information

Lat:	48 ° 18 . 60	N
Lon:	124 ° 4 . 00	W

Start

Bottom

Finish

Lat: 48 ° 18 . 60 N
 Lon: 124 ° 3 . 99 W

Lat: 48 ° 18 . 60 N
 Lon: 124 ° 4 . 00 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: 2016-05

Station: 75

Event #: 12

Vessel: Vector

UTC Date (dd|mmm|yyyy): 22 | Apr | 2016

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		38	0-5	✓ 219														
2		39	200	✓			X											
3		40	175	✓		XX												
4		41	150	✓	XX													
5		42	125	✓														
6		43	100	✓														
7		44	75	✓														
8		45	50	✓														
9		46	40	✓	XX													
10		47	30	✓		XX												
11		48	20	✓				XX										
12		49	10	✓				XX										
13		50	5															
14		51	surf		↓	↓		XX	XX									
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
☒ Ros (default) | ☐ TrMet/Ros | ☐ X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 222 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	17:21	10:21
Bottom (BO)	17:24	:
End (EN)	17:41	:

Positional Information

Lat:	48° 28.33	N
Lon:	124° 32.97	W

▼

Lat:	48° 28.33	N
Lon:	124° 33.07	W

▼

Lat:	48° 28.37	N
Lon:	124° 33.32	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: 2016-05 Station: 69 Event #: 19 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 23 | APR | 2016

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		65	6-5	✓ 175	X	X												
2		66	150	✓ 150			X											
3		67	125	✓ 125		XX												
4		68	100	✓ 100	XX													
5		69	75	✓ 75														
6		70	50	✓ 50														
7		71	40	✓ 40														
8		72	30	✓ 30		XX												
9		73	20	✓ 20	XX			XX										
10		74	10	✓ 10				XX										
11		75	5	✓ 5														
12		76	stc	✓ 2.2	X	X		XX	XX									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 180 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N
 Time UTC Local
 Start (BE) 00 :26 17 :26
 Bottom (BO) 00 :31 17 :31
 End (EN) 00 :42 17 :42

Positional Information
 Start
 Lat: 48 ° 15 . 60 N
 Lon: 123 ° 43 . 18 W
 Bottom
 Lat: 48 ° 15 . 60 N
 Lon: 123 ° 43 . 19 W
 Finish
 Lat: 48 ° 15 . 61 N
 Lon: 123 ° 43 . 20 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: 2016-05 Station: ADCP Event #: 22 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 23 | APR | 2016

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		77	6.5	✓ 117	X	X											
2		78	100	✓ 100		X	X										
3		79	75	✓ 75													
4		80	50	✓ 50													
5		81	40	✓ 40	XX												
6		82	30	✓ 30													
7		83	20	✓ 20				XX									
8		84	10	✓ 10				XX									
9		85	5	✓ 5													
10		86	sfc	✓ 1.8	X	X		XX	XX	X							
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 123 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	03 :08	20 :08
Bottom (BO)	03 :11	20 :11
End (EN)	03 :20	20 :20

Positional Information

Lat:	<u>48 ° 13 . 99</u>	N
Lon:	<u>123 ° 18 . 02</u>	W

Start

Bottom

Finish

Lat: 48 ° 13 . 99 N
 Lon: 123 ° 18 . 01 W

Lat: 48 ° 14 . 01 N
 Lon: 123 ° 18 . 03 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 05 Station: 65 Event #: 26 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 23 | APR | 2016

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		87	5-5	✓ 122		X												
2		88	100	✓ 100			X											
3		89	75	✓ 75														
4		90	50	✓ 50		XX												
5		91	40	✓ 40														
6		92	30	✓ 30														
7		93	20	✓ 20				XX										
8		94	10	✓ 10				XX										
9		95	5	✓ 5														
10		96	etc	✓ 2.2		X		XX	XX									
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 128 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	05 : 36	22 : 36
Bottom (BO)	05 : 38	22 : 38
End (EN)	05 : 46	22 : 46

Positional Information

Lat:	<u>48</u> ° <u>15</u> . <u>91</u>	N
Lon:	<u>123</u> ° <u>9</u> . <u>77</u>	W

Bottom

Lat:	<u>48</u> ° <u>15</u> . <u>91</u>	N
Lon:	<u>123</u> ° <u>9</u> . <u>78</u>	W

Finish

Lat:	<u>48</u> ° <u>15</u> . <u>92</u>	N
Lon:	<u>123</u> ° <u>9</u> . <u>78</u>	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: 2016-05 Station: 63 Event #: 28 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 23 | Apr | 2016

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							
1		108	20	✓		X		XX									
2		109	10	✓		XX		XX									
3		110	5	✓		X											
4		111	sfc	✓		X		XX	XX	X							
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: 157 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	06:59	23:59
Bottom (BO)	07:02	00:02
End (EN)	07:09	:

Positional Information

Lat:	48° 14.57	N
Lon:	122° 58.59	W

Start

▼

Lat:	48° 14.56	N
Lon:	122° 58.61	W

Bottom

▼

Lat:	48° 14.64	N
Lon:	122° 58.63	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: 2016 05 Station: 62 Event #: 30 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 23 | APR | 2016

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		nut							
1		97	6-5	✓	144	X	X											0.45 µm nylon filtered nuts replicates
2		98	125	✓				X										
3		99	100	✓			XX					XX						
4		100	75	✓		XX												
5		101	50	✓														
6		102	40	✓														
7		103	30	✓			XX					XY						
8		104	20	✓					XX									
9		105	10	✓		XY			XX									
10		106	5	✓														
11		107	sfc	✓		X	XX		XX	XX		XY						
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: 150 m
 Transmissio Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	08 :29	01 :29
Bottom (BO)	08 :32	:
End (EN)	:	:

Positional Information

Start	Lat: <u>48° 22.85</u>	N
	Lon: <u>123° 2.58</u>	W
	▼	
Bottom	Lat: <u>48° 22.87</u>	N
	Lon: <u>123° 2.55</u>	W
	▼	
Finish	Lat: <u>48° 22.</u>	N
	Lon: <u>123° 2.</u>	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: 2016-05 Station: 56

Event #: 35

Vessel: Vector

UTC Date (dd|mmm|yyyy): 23 | Apr | 2016

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	HPIC	PhyK							
1		112	6-5	✓	212	X	X										
2		113	200	✓		XX		X									
3		114	175	✓		X											
4		115	150	✓													
5		116	125	✓													
6		117	100	✓													
7		118	75	✓													
8		119	50	✓													
9		120	40	✓													
10		121	30	✓													
11		122	20					XX									
12		123	10			XX		XX									
13		124	5			X											
14		125	Surf			XX	1	XX	XX	X							
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 216 m
 Transmisso Cleaned: ☒ Y ☐ N
 Fluorometer Cleaned: ☐ Y ☐ N

Time	UTC	Local
Start (BE)	13:34	06:34
Bottom (BO)	13:37	:
End (EN)	:	:

Positional Information

Lat:	48° 46.39	N
Lon:	123° 1.59	W

Start

Lat:	48° 46.39	N
Lon:	123° 1.61	W

Bottom

Lat:	48° 46.39	N
Lon:	123° 1.61	W

Finish

Lat:	48° 46.39	N
Lon:	123° 1.61	W

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

122
 NUT
 56
 2016-05
 Bot 11

25 ✓ 30
xx ✓ x

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-05 Station: 46 Event #: 43 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 23 | Apr | 2016

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	HAC									
1		126	B-5	✓	175	X	X											
2		127	150	✓	150		1	X										
3		128	125	✓	125		XX											
4		129	100	✓	100		1											
5		130	75	✓	75													
6		131	50	✓	50													
7		132	40	✓	40													
8		133	30	✓	30													
9		134	20	✓	20			XX										
10		135	10	✓	10			XX										
11		136	5	✓	5	XX												
12		137	st	✓	2.5	X	X	XX	XX									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 178 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 19:27 12:27
Bottom (BO) 19:30 12:30
End (EN) 19:41 12:41

Positional Information
Start Lat: 48° 51.42 N
Lon: 123° 10.81 W
Bottom Lat: 48° 51.41 N
Lon: 123° 10.81 W
Finish Lat: 48° 51.40 N
Lon: 123° 10.81 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: 2016-05 Station: 42 Event #: 47 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 23 | APR | 2016

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	H ₄ SiO ₄	ph _{8.2}	nut	Alk					
1		138	6-5	✓ 313	X	X			X									
2		139	300	✓ 300			X											X
3		140	250	✓ 250					X									
4		141	200	✓ 200					X									
5		142	175	✓ 176		XX						XX						
6		143	150	✓ 150	XX				X									
7		144	125	✓ 125					XX									
8		145	100	✓ 100					X									X
9		146	75	✓ 75					X									
10		147	50	✓ 50	XX				X									
11		148	40	✓ 40					X									
12		149	30	✓ 30		XX			X			XX						X
13		150	20	✓ 20				XX	XX									
14		151	10	✓ 10				XX	X									
15		152	5	✓ 5					X									
16		153	ste	✓ 2.0	X	XX		XX	X	XX	X	XX						
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

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

Time	UTC	Local
Start (BE)	22:37	15:37
Bottom (BO)	22:43	15:43
End (EN)	23:00	16:00

Positional Information

Lat:	49° 1.84	N
Lon:	123° 26.21	W

Start

Bottom

Lat:	49° 1.86	N
Lon:	123° 26.19	W

Bottom

Finish

Lat:	49° 1.84	N
Lon:	123° 26.13	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: 2016-05 Station: 39 Event #: 54 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 24 | APR | 2016

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	APDC	Aut nut								
1		154	6-5	✓	376	X	X											
2		155	350	✓	350			X										
3		156	300	✓	300													
4		157	250	✓	250		XX			XX								
5		158	200	✓	200	XX												
6		159	175	✓	175													
7		160	150	✓	150		XX			XX								
8		161	125	✓	125													
9		162	100	✓	100													
10		163	75	✓	75													
11		164	50	✓	50	XX												
12		165	40	✓	40													
13		166	30	✓	30		XX			XX								
14		167	20	✓	20			XX										
15		168	10	✓	10			XX										
16		169	5	✓	5													
17		170	spc	✓	2.0	X	X	XX	XX									
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 380 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>03:49</u>	<u>20:49</u>
Bottom (BO)	<u>03:57</u>	<u>20:57</u>
End (EN)	<u>04:17</u>	<u>21:17</u>

Positional Information

Lat:	<u>49° 9.79</u>	N
Lon:	<u>123° 32.98</u>	W

▼

Lat:	<u>49° 9.77</u>	N
Lon:	<u>123° 32.76</u>	W

▼

Lat:	<u>49° 9.88</u>	N
Lon:	<u>123° 32.60</u>	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: 2016-05

Station: 27

Event #: 61

Vessel: VECTOR

UTC Date (dd|mmm|yyyy): 24 | APR | 2016

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	NO ₃	ph ₀							
1		171	6-5	✓	346	X	X			X								
2		172	300	✓				X		X								
3		173	250	✓						XX								
4		174	200	✓						X								
5		175	175	✓		XX				X								
6		176	150				XX											
7		177	125															
8		178	100															
9		179	75															
10		180	50			XX				XX								
11		181	40															
12		182	30				XX											
13		183	20							XX								
14		184	10							XX								
15		185	5															
16		186	5fe			X	X			XX	X							
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 350 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	08:14	01:14
Bottom (BO)	08:21	:
End (EN)	08:39	:

Positional Information

Lat:	49° 19.08	N
Lon:	123° 48.04	W

Start

Bottom

Finish

Lat: 49° 19.07 N
 Lon: 123° 48.06 W

Lat: 49° 19.07 N
 Lon: 123° 48.08 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: 2016-05

Station: CPF1

Event #: 69

Vessel: Vector

UTC Date (dd|mmm|yyyy): 24 | APR | 2016

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	HPCC									
1		202	20	✓		X		XX										
2		203	10	✓		X		XX										
3		204	5	✓		X												
4		205	surf	✓		X		XX	XX									
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):
SR2

Bottom Depth: 250 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	14:34	07:34
Bottom (BO)	14:39	:
End (EN)	14:46	:

Positional Information

Lat:	49° 22.00	N
Lon:	124° 5.11	W

▼

Lat:	49° 22.00	N
Lon:	124° 5.11	W

▼

Lat:	49° 22.01	N
Lon:	124° 5.11	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: 2016-05 Station: 2 Event #: 68 Vessel: Vector UTC Date (dd|mmm|yyyy): 24 | Apr | 2016

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							
1		187	6-5	✓ 273													
2		188	250	✓			X										
3		189	200	✓													
4		190	175	✓	XX												
5		191	150	✓		XX											
6		192	125	✓													
7		193	100	✓													
8		194	75	✓													
9		195	50														
10		196	40														
11		197	30														
12		198	20			XX		XX									
13		199	10		XX			XX									
14		200	5		↓	↓											
15		201	surf		↓	↓		XX	XX	X							
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
☒ Ros (default) | ☐ TrMetlRos | ☐ X-Niskin
 Watchkeeper(s):
SP2

Bottom Depth: 284 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	13:36	06:36
Bottom (BO)	13:41	:
End (EN)	:	:

Positional Information

Lat:	49° 24.08	N
Lon:	124° 9.32	W

Start

Bottom

Finish

▼

Lat:	49° 24.10	N
Lon:	124° 9.29	W

▼

Lat:	49°	N
Lon:	124° 9.	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: 2016-05 Station: 3 Event #: 73 Vessel: Vector UTC Date (dd|mmm|yyyy): 24 | Apr | 2016

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	FIL NUTS								
1		206	b-5	✓	320													
2		207	300	✓				X										
3		208	250	✓														
4		209	200															
5		210	175				XX				XX							
6		211	150															
7		212	125															
8		213	100															
9		214	75															
10		215	50				XX				XX							
11		216	40															
12		217	30															
13		218	20				XX		XX		XX							
14		219	10						XX									
15		220	5															
16		221	surf				↓		XX	XX								
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 328 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	17:11	10:11
Bottom (BO)	17:18	:
End (EN)	17:36	:

Positional Information

Start	Lat: <u>49° 24.58</u> N
	Lon: <u>124° 22.27</u> W
Bottom	Lat: <u>49° 24.59</u> N
	Lon: <u>124° 22.30</u> W
Finish	Lat: <u>49° 24.61</u> N
	Lon: <u>124° 22.36</u> 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: 2016-05 Station: BS-11 Event #: 74 Vessel: Vector UTC Date (dd|mmm|yyyy): 24 | Apr | 2016

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		222	b-5	✓	55					X								
2		223	50	✓	50			X		X								
3		224	40	✓	40					XX								
4		225	30	✓	30					X								
5		226	20	✓	20		XX		XX	X								
6		227	10	✓	10	XX			XX	XX								
7		228	5	✓	5	↓	↓			X								
8		229	surf	✓	2.2	↓	↓		XX	XX	X							
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):
10 2 TF

Bottom Depth: 61 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	19 : 16	12 : 16
Bottom (BO)	19 : 18	12 : 18
End (EN)	19 : 24	12 : 24

Positional Information

Lat:	<u>49 ° 29 . 00</u>	N
Lon:	<u>124 ° 45 . 99</u>	W

Start

Bottom

Finish

Lat: 49 ° 29 . 00 N
 Lon: 124 ° 45 . 99 W

Lat: 49 ° 29 . 00 N
 Lon: 124 ° 46 . 00 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 08 Station: 6 Event #: 78 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 24 | APR | 2016

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		230	6-5	✓ 185	X	X													
2		231	175	✓ 175		1	X												
3		232	150	✓ 150		xx													
4		233	125	✓ 125	xx														
5		234	100	✓ 100															
6		235	75	✓ 75															
7		236	50	✓ 50															
8		237	40	✓ 40		xx													
9		238	30	✓ 30															
10		239	20	✓ 20	xx			xx											
11		240	10	✓ 10				xx											
12		241	5	✓ 5															
13		242	sfc	✓ 2.2	x	x		xx xx											
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 195 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>22:03</u>	<u>15:03</u>
Bottom (BO)	<u>22:07</u>	<u>15:07</u>
End (EN)	<u>22:19</u>	<u>15:19</u>

Positional Information

Lat:	<u>49° 30' 59"</u>	N
Lon:	<u>124° 27' 80"</u>	W

Bottom

Lat:	<u>49° 30' 59"</u>	N
Lon:	<u>124° 27' 81"</u>	W

Finish

Lat:	<u>49° 30' 60"</u>	N
Lon:	<u>124° 27' 83"</u>	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: 2016-05 Station: 9 Event #: 81 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 25 | APR | 2016

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		243	6-5	✓ 165	X	X												
2		244	150	✓ 150			X											
3		245	125	✓ 125		XX												
4		246	100	✓ 100	XX													
5		247	75	✓ 75														
6		248	50	✓ 50														
7		249	40	✓ 40														
8		250	30	✓ 30		XX												
9		251	20	✓ 20	XX			XX										
10		252	10	✓ 10				XX										
11		253	5	✓ 5														
12		254	sfc	✓ 2.3	X	X		XX	XX									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 172 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	00 : 36	17 : 36
Bottom (BO)	00 : 39	17 : 39
End (EN)	00 : 49	17 : 49

Positional Information

Lat:	<u>49° 35.50</u>	N
Lon:	<u>124° 38.27</u>	W

Start

Bottom

Finish

Lat:	<u>49° 35.51</u>	N
Lon:	<u>124° 38.27</u>	W

Lat:	<u>49° 35.50</u>	N
Lon:	<u>124° 38.28</u>	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: 2016-05 Station: 12 Event #: 85 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 25 | Apr | 2016

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	H ₂ O ₂	ph ₂ O							
1		255	6.5	✓ 352	X	X			X									
2		256	300	✓ 300			X											
3		257	250	✓ 250					X									
4		258	200	✓ 200					X									
5		259	175	✓ 175	XX													
6		260	150	✓ 150		XX			XX									
7		261	125	✓ 125					X									
8		262	100	✓ 100					X									
9		263	75	✓ 75					X									
10		264	50	✓ 50					XX									
11		265	40	✓ 40					X									
12		266	30	✓ 30	XX				X									
13		267	20	✓ 20		XX		XX	X									
14		268	10	✓ 10				XX	X									
15		269	5	✓ 5					X									
16		270	SPC	✓ 2.2	X	X		XX	X	XX	X							
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 360 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>02:58</u>	<u>19:58</u>
Bottom (BO)	<u>03:05</u>	<u>20:05</u>
End (EN)	<u>03:22</u>	<u>20:27</u>

Positional Information

Lat:	<u>49° 42.60</u>	N
Lon:	<u>124° 40.76</u>	W

Start

Bottom

Finish

Lat: 49° 42.60 N
 Lon: 124° 40.79 W

Lat: 49° 43.60 N
 Lon: 124° 40.79 W

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