

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-71 Station: SI Event #: 1 Vessel: Vector UTC Date (dd|mmm|yyyy): 31 | OCT | 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	PART							
1	1	1	100	✓ 100.2	x	x												max depth ~150m
2	2	2	75	✓ 75.2	x	x	x			x								
3	3	3	50	✓ 50.1	x	x												
4	4	4	40	✓ 39.9	x	x												
5	5	5	30	✓ 30.0	xx	x												
6	6	6	20	✓ 20.0	x	xx		xx										
7	7	7	10	✓ 9.9	x	x		xx										
8	8	8	5	✓ 5.2	x	x												
9	9	9	sfc	✓ 1.6	x	x		xx	xx									
10	10	10	sfc	✓ 1.6							xxx							
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
TF, SG, KS, JW, SP, DW

Bottom Depth: 187 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: -Y / -N

Time	UTC	Local
Start (BE)	<u>00:49</u>	<u>17:49</u>
Bottom (BO)	<u>00:51</u>	<u>17:51</u>
End (EN)	<u>01:05</u>	<u>18:05</u>

Positional Information

Lat:	<u>48° 39' .109</u>	N
Lon:	<u>123° 30' .599</u>	W

Start

Lat:	<u>48° 39' .104</u>	N
Lon:	<u>123° 30' .596</u>	W

Bottom

Lat:	<u>48° 39' .109</u>	N
Lon:	<u>123° 30' .607</u>	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: 2016-71 Station: 59 Event #: 4 Vessel: Vector UTC Date (dd|mmm|yyyy): 31 Oct 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	particles	phyto	DIC						
1	1	11	6-5	✓ 208.0	X	X						X						
2	2	12	200	✓ 202.1	XX	X	X					X						
3	3	13	175	✓ 179.8	X	X												
4	4	14	150	✓ 150.5	X	X						X						
5	5	15	125	✓ 124.9	X	XX												
6	6	16	100	✓ 99.6	X	X						XX						
7	7	17	75	✓ 75.2	X	X						X						
8	8	18	50	✓ 50.3	XX	X						X						
9	9	19	40	✓ 40.6	X	X												
10	10	20	30	✓ 30.6	X	X						XX						
11	11	21	20	✓ 20.7	X	XX		XX				X						
12	12	22	10	✓ 10.6	X	X		XX				X						
13	13	23	5	✓ 5.7	X	X						X						
14	14	24	sfc	✓ 2.1	X	X		XX	XX		X	X						
15	15	25	sfc	✓ 1.9						XXX								
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

bottom depth 345m

Profile type:
 Ros (default) | TrMet/Ros | X-Niskin
 Watchkeeper(s):
TF, KS, DU

Bottom Depth: 214 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N
 Time UTC Local
 Start (BE) 04:19 21:19
 Bottom (BO) 04:24 21:24
 End (EN) 04:40 21:40

Positional Information
 Start
 Lat: 48° 37' .746 N
 Lon: 123° 14' .788 W
 Bottom
 Lat: 48° 37' .682 N
 Lon: 123° 14' .770 W
 Finish
 Lat: 48° 37' .411 N
 Lon: 123° 14' .683 W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-71

Station: 102

Event #: 8

Vessel: Vector

UTC Date (dd|mmm|yyyy): 31 | Oct | 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	HPLE	PAR							
1		26	B-5	✓ 255	x	x											
2		27	200	✓	x	x	x										
3		28	175	✓	x	x											
4		29	150	✓	x	x											
5		30	125	✓	x	x											
6		31	100	✓	xx	x											
7		32	75		x	xx											
8		33	50		x	x											
9		34	40		x	x											
10		35	30		x	x											
11		36	20		xx	x		xx									
12		37	10		x	xx		xx									
13		38	5		x	x											
14		39	SURF		x	x		xx	xx								bottle tripped in
15		40	SURF						xxx								air, 39+40 taken
16		39	Surf		x	x		xx	xx								from cast #9
17		40	Surf						xxx								
18																	Cast #9 was
19																	just to drip bot
20																	16+17.
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) 15:52 08:52
 Bottom (BO) 15:59 :
 End (EN) : :

Positional Information
 Start
 Lat: 48° 29.99 N
 Lon: 124° 43.99 W
 Bottom
 Lat: 48° 30.02 N
 Lon: 124° 44.01 W
 Finish
 Lat: 48° . N
 Lon: 124° . 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: 2016-71 Station: 75 Event #: 12 Vessel: Vector UTC Date (dd|mmm|yyyy): 31 | Oct | 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	Part								
1	1	41	B-5															
2	2	42	200	198.5			X											
3	3	43	175	173.7														
4	4	44	150	150.2	XX													
5	5	45	125	125.3		XX												
6	6	46	100	100.3														
7	7	47	75	75.4														
8	8	48	50	49.6														
9	9	49	40	40.1														
10	10	50	30	29.6		XX												
11	11	51	20					XX										
12	12	52	10	9.6				XX										
13	13	53	5	5.3	XX													
14	14	54	Surf	1.9	↓	↓		XX	XX									
15	15	55	Surf	1.8						XXX								forget to fire: no sample
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 225 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N
 Time UTC Local
 Start (BE) 18:42 11:42
 Bottom (BO) 18:48 :
 End (EN) 19:04 :

Positional Information
 Start
 Lat: 48° 28.19 N
 Lon: 124° 32.78 W
 ▼
 Bottom
 Lat: 48° 28.18 N
 Lon: 124° 32.83 W
 ▼
 Finish
 Lat: 48° 28.248 N
 Lon: 124° 33.112 W

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

Water Properties Group

Sampling/Rosette Log

~190m

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-71 Station: 72 Event #: 14 Vessel: Vector UTC Date (dd|mmm|yyyy): 31 | OCT | 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	HP/LC	part	DIC	phs							
1	1	55	6-5		185.3	X	XX					X							
2	2	56	175		175	X	X	X											
3	3	57	150		149.3	X	X					XX							
4	4	58	125		124.5	XX	X												
5	5	59	100		101.0	X	X					X							
6	6	60	75		75.4	X	X					X							
7	7	61	50		50.2	X	XX					X							
8	8	62	40		39.5	X	X												
9	9	63	30		30.5	X	X					XX							
10	10	64	20	✓		XX	X		XX			X							
11	11	65	10		9.2	X	X		XX			X							
12	12	66	5	✓		X	X					X							
13	13	67	SFC		2.2	X	X		XX	XX		X	X					no chl sa taken	
14	14	68	SFC		2.1					XXX									
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s):

TF, DW, KS

Bottom Depth: 188 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: -Y / N

Time	UTC	Local
Start (BE)	21 : 46	14 : 46
Bottom (BO)	21 : 50	14 : 50
End (EN)	22 : 04	15 : 04

Positional Information

Lat:	48 ° 18 . 875	N
Lon:	124 ° 03 . 822	W

▼

Lat:	48 ° 18 . 881	N
Lon:	124 ° 03 . 810	W

▼

Lat:	48 ° 18 . 882	N
Lon:	124 ° 03 . 824	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: 2016-71 Station: 69 Event #: 17 Vessel: Vector UTC Date (dd|mmm|yyyy): 31 | Oct | 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	Part								
1	1	69	6-5		176.3	X	X											
2	2	70	150		150.8	X	X	X										
3	3	71	125		125.3	XX	X											
4	4	72	100		100.9	X	X											
5	5	73	75		75.7	X	XX											
6	6	74	50		50.1	X	X											
7	7	75	40		40.2	X	X											
8	8	76	30		30.1	XX	X											
9	9	77	20		20.1	X	X		XX									
10	10	78	10		9.9	X	XX		XX									
11	11	79	5		4.9	X	X											
12	12	80	sfc		1.8	X	X		XX	XX								
13	13	81	sfc		1.6					XXX								
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Watchkeeper(s):

TF, KS, DW

Bottom Depth: 180 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time

UTC

Local

Start (BE)

00 : 40

17 : 40

Bottom (BO)

00 : 45

17 : 45

End (EN)

00 :

17 :

Positional Information

Start

Lat: 48 ° 15 . 599 N

Lon: 123 ° 43 . 198 W

Bottom

Lat: 48 ° 15 . 608 N

Lon: 123 ° 43 . 193 W

Finish

Lat: 48 ° 15 . 612 N

Lon: 123 ° 43 . 242 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: 2016-71 Station: 66 Event #: 18 Vessel: Vector UTC Date (dd|mmm|yyyy): 01 | Nov | 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	HLCC	Phyto	Part							
1		82	6-5		99.8	X	X											
2		83	75		78.1	XX	X	X										
3		84	50		51.2	X	X											
4		85	40		40.8	X	XX											
5		86	30		30.6	X	X											
6		87	20		20.3	X	X		XX									
7		88	10		10.7	X	X		XX									
8		89	5		4.9	X	X											
9		90	sfc		1.9	X	X		XX	XX	X							
10		91	sfc		1.8							XXX						
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

TF, DW, KS

Bottom Depth: 102 m
Transmisso Cleaned: Y | N
Fluorometer Cleaned: Y | N

Time	UTC	Local
Start (BE)	03:24	20:24
Bottom (BO)	03:26	20:26
End (EN)	03:34	20:34

Positional Information

Start	Lat: 48° 19.308 N
	Lon: 123° 14.114 W

Bottom

Lat: 48° 19.312 N
Lon: 123° 14.130 W

Finish

Lat: 48° 19.274 N
Lon: 123° 14.369 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: 2016-71 Station: 56 Event #: 24 Vessel: Vector UTC Date (dd|mmm|yyyy): 01|Nov|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	part.								
1	1	92	6-5	/	209	X	X												
2	2	93	200	/		X	X	X											
3	3	94	175	/		XX	X												
4	4	95	150	/		X	X												
5	5	96	125	/		X	X												
6	6	97	100	/		X	XX												
7	7	98	75	/		X	X												
8	8	99	50	/		X	XX												
9	9	100	40	/		XX	X												
10	10	101	30	/		X	X												
11	11	102	20	/		X	X		XX										
12	12	103	10	/		X	X		XX										
13	13	104	5	/		X	X												
14	14	105	sfc	/		x	X		XX	XX	X								
15	15	106	sfc	/								XXX							
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 209 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N
 Time UTC Local
 Start (BE) 09:41 02:41
 Bottom (BO) 09:46 :
 End (EN) 10:02 :

Positional Information
 Start
 Lat: 48° 46.43 N
 Lon: 123° 1.62 W
 Bottom
 Lat: 48° 46.43 N
 Lon: 123° 1.62 W
 Finish
 Lat: 48° 46.41 N
 Lon: 123° 1.59 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: 2016-71 Station: 46 Event #: 29 Vessel: Vector UTC Date (dd|mmm|yyyy): 01 | NOV | 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	Part								
1		107	B-5	✓	175													
2		108	150	✓			X											
3		109	125	✓		XX												
4		110	100	✓		XX												
5		111	75	✓														
6		112	50	✓														
7		113	40	✓		XX												
8		114	30	✓		XX												
9		115	20	✓				XX										
10		116	10	✓				XX										
11		117	5	✓														
12		118	Surf	✓		↓		XX	XX									
13		119	Surf	✓					XXX									
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 179 m
Transmisso Cleaned: (Y) / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>13:56</u>	<u>06:56</u>
Bottom (BO)	<u>14:06</u>	:
End (EN)	<u>14:13</u>	:

Positional Information
Start
Lat: 48° 51.42 N
Lon: 123° 10.78 W

Bottom
Lat: 48° 51.40 N
Lon: 123° 10.79 W

Finish
Lat: 48° 51.38 N
Lon: 123° 10.80 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: 2016-71 Station: 42 Event #: 36 Vessel: Vector UTC Date (dd|mmm|yyyy): 01 | Nov | 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	Part	DIC							
1		120	B-5	✓	317						X							
2		121	300	✓			X											
3		122	250	✓							X							
4		123	200	✓							X							
5		124	175	✓														
6		125	150	✓							X							
7		126	125	✓		XX					XX							
8		127	100	✓		XX					X							
9		128	75	✓							X							
10		129	50	✓							X							
11		130	40	✓		XX					X							
12		131	30	✓		XX					X							
13		132	20	✓				XX			XX							
14		133	10	✓				XX			X							
15		134	5	✓		↓	↓				X							
16		135	Surf	✓		↓	↓	XX	XX		X							
17		136	Surf	✓						XXX								
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 322 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N
 Time UTC Local
 Start (BE) 18:07 11:07
 Bottom (BO) 18:13 :
 End (EN) 18:34 :

Positional Information
 Start
 Lat: 49° 1.79 N
 Lon: 123° 26.20 W
 Bottom
 Lat: 49° 1.80 N
 Lon: 123° 26.23 W
 Finish
 Lat: 49° 1.82 N
 Lon: 123° 26.24 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: 2016-71 Station: 39 Event #: 40 Vessel: Vector UTC Date (dd|mmm|yyyy): 01 | NOV | 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	PAR								
1	1	137	B-5		373.2	X	X											
2	2	138	B-5		373.2					XXX								
3	3	139	350		349.8	X	X	X										
4	4	140	300		299.5	XX	X											
5	5	141	250		249.5	X	X											
6	6	142	200		201.3	X	X											
7	7	143	175		175.1	X	X											
8	8	144	150		150.9	X	XX											
9	9	145	125		126.0	X	X											
10	10	146	100		100.9	X	X											
11	11	147	100		101.0					XXX								
12	12	148	75		75.3	X	X											
13	13	149	50		50.5	X	X											
14	14	150	50		50.6					XXX								
15	15	151	40		39.8	X	XX											
16	16	152	30		29.9	X	X											
17	17	153	20		19.7	XX	X	XX										
18	18	154	20		19.7					XXX								
19	19	155	10		10.7	X	X	XX										
20	20	156	5		4.8	X	X											
21	21	157	SURF		1.7	X	X	XX	XX									
22	22	158	SURF		1.7					XXX								
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
TF, KS, DW

Bottom Depth: 377 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>21 : 38</u>	<u>14 : 38</u>
Bottom (BO)	<u>21 : 46</u>	<u>14 : 46</u>
End (EN)	<u>22 : 10</u>	<u>14 : 10</u>

Positional Information

Start	Lat: <u>49 ° 09 . 850</u> N
	Lon: <u>123 ° 32 . 992</u> W

Bottom

	Lat: <u>49 ° 09 . 842</u> N
	Lon: <u>123 ° 33 . 013</u> W

Finish

	Lat: <u>49 ° 09 . 832</u> N
	Lon: <u>123 ° 33 . 005</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: 2016-71 Station: IA2 Event #: 46 Vessel: Vector UTC Date (dd|mmm|yyyy): 02 | NOV | 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	NPLC	PART								
1	1	159	B-3	215.4														
2	2	160	200	199.8			X											
3	3	161	175	175.1	XX													
4	4	162	150	149.8		XX												
5	5	163	125	124.7														
6	6	164	100	99.3														
7	7	165	75	74.0														
8	8	166	50	49.1														
9	9	167	40	39.6														
10	10	168	30	29.7	X	XX												
11	11	169	20	19.2				XX										
12	12	170	10	9.9				XX										
13	13	171	5	4.2	XX													
14	14	172	swrf	1.9	↓	↓		XX	XX									
15	15	173	swrf	1.9						XX								
16		174																no sample (174) and not used anywhere in the universe!!! → DW/TF
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Watchkeeper(s):
SR + TF + DW + KS

Bottom Depth: 219 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	18:51	11:51
Bottom (BO)	18:56	11:56
End (EN)	19:11	12:11

Positional Information

Start	Lat: <u>49° 23.78</u> N
	Lon: <u>122° 52.69</u> W
	▼
Bottom	Lat: <u>49° 23.789</u> N
	Lon: <u>122° 52.693</u> W
	▼
Finish	Lat: <u>49° 23.797</u> N
	Lon: <u>122° 52.692</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: 2016-71 Station: IA3 Event #: 47 Vessel: Vector UTC Date (dd|mmm|yyyy): 02 | Nov | 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	1	175	b-5					XX									
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 (default) | TrMetlRos | X-Niskin
Watchkeeper(s):

TF, DW, KS

Bottom Depth: 77 m
Transmisso Cleaned: (Y) / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	19 : 51	12 : 51
Bottom (BO)	19 : 53	12 : 53
End (EN)	19 : 55	12 : 55

Positional Information

Start	Lat: 49° 19' . 634 N
	Lon: 122° 55' . 717 W

Bottom

Lat: 49° 19' . 633 N
Lon: 122° 55' . 730 W

Finish

Lat: 49° 19' . 631 N
Lon: 122° 55' . 735 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: 2016-71 Station: 1A6 Event #: 51 Vessel: Vector UTC Date (dd|mmm|yyyy): 02 | Nov | 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	WPC	PART								
1	1	5-5	176	50.4	X	X												
2	2	20	177	19.7	X	X		XX										
3	3	10	178	9.5	XX	X		XX										
4	4	5	179	4.4	X	XX												
5	5	surf	180	2.1	X	X		XX XX										
6	6	surf	181	2.1						XX								
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):

TF, KS, DW

Bottom Depth: 56 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	21:51	14:51
Bottom (BO)	21:54	14:54
End (EN)	21:57	14:57

Positional Information

Start

Lat: 49° 17' .989 N

Lon: 123° 05' .425 W

Bottom

Lat: 49° 17' .987 N

Lon: 123° 05' .443 W

Finish

Lat: 49° 17' .982 N

Lon: 123° 05' .447 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: 2016-71 Station: BI2 Event #: 53 Vessel: Vector UTC Date (dd|mmm|yyyy): 02 | NOV | 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	1	182	6-5	144.2	X	X												
2	2	183	125	125.1	X X	X	X											
3	3	184	100	99.3	X	X												
4	4	185	75	74.8	X	XX												
5	5	186	50	49.5	X	X												
6	6	187	40	40.0	X	X												
7	7	188	30	30.1	XX	X												
8	8	189	20	19.9	X	X		XX										
9	9	190	10	10.4	X	XX		XX										
10	10	191	5	4.7	X	X												
11	11	192	surf	2.6	X	X		XX	XX									
12	12	193	surf	2.6						XX								
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
TF, KS, DW.

Bottom Depth: 149 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: -Y / N

Time	UTC	Local
Start (BE)	<u>23:20</u>	<u>16:20</u>
Bottom (BO)	<u>23:24</u>	<u>16:24</u>
End (EN)	<u>23:34</u>	<u>16:34</u>

Positional Information

Start	Lat: <u>49° 17.706</u> N
	Lon: <u>123° 20.582</u> W

Bottom

	Lat: <u>49° 17.708</u> N
	Lon: <u>123° 20.588</u> W

Finish

	Lat: <u>49° 17.711</u> N
	Lon: <u>123° 20.584</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: 2016-71 Station: 12 Event #: 57 Vessel: Vector UTC Date (dd|mmm|yyyy): 03 | Nov | 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	PART	DIC	Phyts						
1		194	B-5	✓	350							X						
2		195	300	✓				X										
3		196	250	✓								X						
4		197	200	✓		XX						X						
5		198	175	✓			XX											
6		199	150	✓								XX						
7		200	125	✓								X						
8		201	100	✓								X						
9		202	75	✓								X						
10		203	50	✓								XX						
11		204	40	✓								X						
12		205	30	✓			XX					X						
13		206	20	✓					XX			X						
14		207	10	✓		XX			XX			X						
15		208	5	✓		↓	↓					X						
16		209	surf	✓		↓	↓		XX	XX		X	X					
17		210	surf	✓							XXX							
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 355 m
 Transmissio Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	08:25	01:25
Bottom (BO)	08:33	01:33
End (EN)	08:52	01:52

Positional Information

Start	Lat: <u>49° 43.61</u>	<u>N</u>
	Lon: <u>124° 40.84</u>	<u>W</u>

Bottom

	Lat: <u>49° 43.53</u>	<u>N</u>
	Lon: <u>124° 40.76</u>	<u>W</u>

Finish

	Lat: <u>49° 43.36</u>	<u>N</u>
	Lon: <u>124° 40.56</u>	<u>W</u>

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: 2016-71 Station: 16 Event #: 63 Vessel: Vector UTC Date (dd|mmm|yyyy): 04 | NOV | 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	1	211	6-10	142.4		X												
2	2	212	125	125.9		X	X											
3	3	213	100	103.2		XX												
4	4	214	75	80.7		X												
5	5	215	50	52.6		X												
6	6	216	40	40.7		X												
7	7	217	30	25.5		X												
8	8	218	20	18.9		XX		XX										
9	9	219	10	9.8		X		XX										
10	10	220	5	4.7		X												
11	11	221	sfz	2.0		X		XX	XX									
12	12	222	sfz	1.4					XXX									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

TF DW

Bottom Depth: 156 m
Transmisso Cleaned: (Y) / N
Fluorometer Cleaned: Y / N

Time

UTC

Local

Start (BE)

03 : 19

20 : 19

Bottom (BO)

03 : 23

20 : 23

End (EN)

03 : 34

20 : 34

Positional Information

Start

Lat: 49 ° 57 . 726 N

Lon: 125 ° 08 . 675 W

▼

Bottom

Lat: 49 ° 57 . 671 N

Lon: 125 ° 08 . 544 W

▼

Finish

Lat: 49 ° 57 . 622 N

Lon: 125 ° 08 . 209 W

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

no oxygens -
Kenny not feeling
well

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-71 Station: 14 Event #: 66 Vessel: Vector UTC Date (dd|mmm|yyyy): 04 | NOV | 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										
									HALL	PAR								
1		223	6-10	✓ 310	X	X												
2		224	250	✓	X	XX	X											
3		225	200	✓	X	X												
4		226	175	✓	XX	X												
5		227	150	✓	X	X												
6		228	125	✓	X	X												
7		229	100	✓	X	XX												
8		230	75	✓	X	X												
9		231	50	✓	XX	X												
10		232	40	✓	X	X												
11		233	20	✓	X	X												
12		234	20	✓	X	X		XX										
13		235	10	✓	X	X		XX										
14		236	5	✓	X	X												
15		237	sfc	✓	X	X		XX	XX									
16		238	sfc	✓						XX	XXX							
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Watchkeeper(s):

SR

Bottom Depth: 315 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time

UTC

Local

Start (BE)

06:55

23:55

Bottom (BO)

07:02

:

End (EN)

07:20

:

Positional Information

Start

Lat: 49° 53.00 N

Lon: 124° 59.52 W

Bottom

Lat: 49° 52.98 N

Lon: 124° 59.51 W

Finish

Lat: 49° 52.86 N

Lon: 124° 59.43 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: 2016-71 Station: 9 Event #: 67 Vessel: Vector UTC Date (dd|mmm|yyyy): 04 | Nov | 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	PLC	PART								
1		239	B-5	✓ 164														
2		240	150	✓			X											
3		241	125	✓														
4		242	100	✓		XX												
5		243	75	✓														
6		244	50	✓														
7		245	40	✓														
8		246	30	✓														
9		247	20	✓		XX		XX										
10		248	10	✓				XX										
11		249	5	✓														
12		250	SWF	✓		↓		XX	XX									
13		251	SWF	✓						XXX								
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Watchkeeper(s):

SR

Bottom Depth: 167 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time

UTC

Local

Start (BE)

09 : 51

02 : 51

Bottom (BO)

09 : 54

:

End (EN)

10 : 07

:

Positional Information

Start

Lat: 49 ° 35 . 50 N

Lon: 124 ° 38 . 32 W

Bottom

Lat: 49 ° 35 . 47 N

Lon: 124 ° 38 . 30 W

Finish

Lat: 49 ° 35 . 44 N

Lon: 124 ° 38 . 18 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: 2016-71 Station: 6 Event #: 68 Vessel: Vector UTC Date (dd|mmm|yyyy): 04 | Nov | 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	PHC	PART								
1		252	B-5	✓ 148														
2		253	175	✓			X											
3		254	150	✓														
4		255	125	✓														
5		256	100	✓		XX												
6		257	75	✓														
7		258	50	✓														
8		259	40	✓	XX													
9		260	30	✓														
10		261	20	✓		XX		XX										
11		262	10	✓				XX										
12		263	5	✓	XX													
13		264	surf	✓	✓	✓		XX	XX									
14		265	surf	✓						XXX								
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 193 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	11:08	04:08
Bottom (BO)	11:11	:
End (EN)	:	:

Positional Information

Start	Lat: 49° 30.61 N
	Lon: 124° 27.82 W

Bottom

Lat: 49° 30.60 N
Lon: 124° 27.77 W

Finish

Lat: 49° 30.58 N
Lon: 124° 27.59 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: 2016-71 Station: 3 Event #: 71 Vessel: Vector

UTC Date (dd|mmm|yyyy): 04 | Nov | 2016

[illegible]

Profile type:

Ros (default)	TrMetlRos	X-Niskin
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Watchkeeper(s):

Bottom Depth: 328 m

Transmisso Cleaned: ☒ Y / ☐ N

Fluorometer Cleaned: Y / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
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Start (BE)	13:47	06:47
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Bottom (BO)	13:54	:
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End (EN)	14:13	:
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Positional Information

Lat: 49° 26.60 N

Lon: 124° 20.25 W

Start

Bottom

Lat: 49° 26' . 60 N

Lon: 124° 20.23 W

Finish

Lat: 49° 26.60 N

Lon: 124° 20.11 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: 2016-71 Station: 2 Event #: 74 Vessel: Vector UTC Date (dd|mmm|yyyy): 04 | Nov | 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	HLL	PART								
1		283	B-5	✓	276													
2		284	250	✓			X											
3		285	200	✓														
4		286	175	✓														
5		287	150	✓														
6		288	125	✓		XX												
7		289	100	✓			XX											
8		290	75	✓														
9		291	50	✓														
10		292	40	✓														
11		293	30	✓														
12		294	20	✓		XX	XX		XX									
13		295	10	✓		↓	↓		XX									
14		296	5	✓		↓	↓											
15		297	surf	✓					XX	XX								
16		298	surf	✓							XXX							
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:

☒ Ros (default) ☐ TrMetlRos ☐ X-Niskin

Watchkeeper(s):

SR

Bottom Depth: 281 m

Transmisso Cleaned: ☒ Y ☐ N

Fluorometer Cleaned: ☐ Y ☐ N

Time

UTC

Local

Start (BE)

16:34

09:34

Bottom (BO)

16:40

:

End (EN)

16:58

:

Positional Information

Start

Lat: 49° 24.10 N

Lon: 124° 9.32 W

Bottom

Lat: 49° 24.09 N

Lon: 124° 9.30 W

Finish

Lat: 49° 24.07 N

Lon: 124° 9.20 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: 2016-71 Station: 27 Event #: 77 Vessel: Vector UTC Date (dd|mmm|yyyy): 04 | NOV | 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	1	299	B-5	346.2	X	X						X					
2	2	300	300	299.8	X	X	X					X					
3	3	301	250	249.8	X	X						XX					
4	4	302	200	200.1	X	X						X					
5	5	303	175	175.1	X	X						X					
6	6	304	150	150.5	X	X						XX					
7	7	305	125	124.5	XX	X						X					
8	8	306	100	99.9	X	XX						X					
9	9	307	75	75.4	X	X						X					
10	10	308	50	✓	X	X						X					
11	11	309	40	39.8	X	X						X					
12	12	310	30	29.9	X	X						X					
13	13	311	20	✓	XX	XX		XX				XX					
14	14	312	10	9.6	X	X		XX				X					
15	15	313	5	4.8	X	X						X					
16	16	314	Surf	1.9	X	X		XX XX				X					
17	17	315	Surf	2.0							XXX						
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 350 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N
 Time UTC Local
 Start (BE) 20:11 13:11
 Bottom (BO) 20:18 13:18
 End (EN) 20:35 13:

Positional Information
 Start
 Lat: 49° 19' .108 N
 Lon: 123° 47' .994 W
 Bottom
 Lat: 49° 19' .084 N
 Lon: 123° 47' .989 W
 Finish
 Lat: 49° 19' .094 N
 Lon: 123° 47' .994 W

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