Water Properties Group **Sampling Log** Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2017-63 **Station:** SI **Event #:** 2 **Ship:** Vector **UTC Date (dd mmm yyyy):** 09 04 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	HPLC	PART							Comments
1		1	100	✓	100	x		x		X									
2		2	75	✓		x	xx	x x											
3		3	50	✓		x		x											
4		4	40	✓		x x		x											
5		5	30	✓		x		x											
6		6	20	✓		x		x	xx										
7		7	10	✓		x		x	xx										
8		8	5	✓		x		x											
9		9	0	✓		x		x	x x		xx								
10		10	0	✓								x							
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): SR

Bottom Depth: 182 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0346	2046
Bottom	0346	
End	0357	

Positional Information

Start	Lat: 48 ° 39.11	N
	Lon: 123 ° 30.00	W
Bottom	Lat: 48 ° 39.12	N
	Lon: 123 ° 30.02	W
End	Lat: 48 ° 39.11	N
	Lon: 123 ° 30.03	W

Extra comments:
NMEA Time was off by ≈ 15min

Water Properties Group **Sampling Log** **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2017-63 **Station:** 102 **Event #:** 4 **Ship:** Tully **UTC Date (dd|mmm|yyyy):** 09 | 04 | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	phyto	PART	HPLC						Comments
1		11	Bot-5	✓	252	x		x											
2		12	200	✓	203	x	xx	x											
3		13	175	✓	1[illegible]	x		x x											
4		14	150	✓	153	x x		x											
5		15	125	✓		x		x											
6		16	100	✓		x		x											
7		17	75	✓		x		x											
8		18	50	✓		x		x											
9		19	40	✓	39	x		x											
10		20	30	✓		x		x											
11		21	20	✓		x		x x	x x										
12		22	10	✓		x x		x	x x										
13		23	5	✓		x		x											
14		24	0	✓		x		x	x x		x		xx						
15		25	0	✓								xxx							
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): STR

Bottom Depth: 256 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1456	0856
Bottom	1501	
End		

Positional Information

Start — Lat: 48 ° 28.52 N; Lon: 124 ° 45.32 W

Bottom — Lat: 48 ° 29.67 N; Lon: 124 ° 45 87 W

End — Lat: 48 ° 29.97 N; Lon: 124 ° 44.05 W

Extra comments:

NMEA Time was off again

Water Properties Group **Sampling Log** **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2017-63 **Station:** 75 **Event #:** 08 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 09 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	√	Confirmed Pressure	Samples Taken / Sampler's Initials: Oxy	Sal	Nut-F	Chl	part	HPLC								Comments
1		26	Bot-5	/	219	x		x											
2		27	200	/	200	x x	x x	x											
3		28	175	/	175	x		x											
4		29	150	/	150	x		x											
5		30	125	/	125	x		x											
6		31	100	/	100	x		x											
7		32	75	/	75	x		x											
8		33	50	/	50	x x		x x											
9		34	40	/	40	x		x											
10		35	30	/	30	x		x											
11		36	20	/	20	x		x	x x										
12		37	10	/	10	x		x	x x										
13		38	5	/	5	x		x											
14		39	0	/	1	x		x x	x x		x x								
15		40	0	/	1					xxx									
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): [illegible]

Bottom Depth: 224 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1741	1141
Bottom	1745	
End	1823	

Positional Information

Start — Lat: 48 ° 31.36 N; Lon: 124 ° 29 89 W

▼

Bottom — Lat: 48 ° 29 33 N; Lon: 124 ° 32.16 W

▼

End — Lat: 48 ° 28.260 N; Lon: 124 ° 32.695 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: ~~2016-63~~ 2017-63 **Station:** 69 **Event #:** 15 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 10 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	Part	HPLC								Comments
1		55	Bot-5	/	174	x		x x											
2		56	150	/	150	x	xx	x											
3		57	125	/	124	x		x											
4		58	100	/	100	x x		x											
5		59	75	/	75	x		x											
6		60	50	/	50	x		x x											
7		61	40	/	40	x		x											
8		62	30	/	30	x		x											
9		63	20	/	20	x		x	x x										
10		64	10	/	10	x x		x	x x										
11		65	5	/	5	x		x											
12		66	0	/	1	x		x	x x		xx								
13		67	0	/	1					xxx									
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): SW/CS/KS

Bottom Depth: 178 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0244	1943
Bottom	0247	
End	0303	

Positional Information

Start	Lat:	48 ° 15.601	N
	Lon:	123 ° 43.290	W
Bottom	Lat:	48 ° 15.600	N
	Lon:	123 ° 43.300	W
End	Lat:	48 ° 15.600	N
	Lon:	123 ° 43.298	W

Extra comments:

Version: 25 Nov 2011

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Water Properties Group

Sampling Log

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

Cruise ID: 2017-63 **Station:** ADCP **Event #:** 18 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 10 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	PART	PHYTO	HPLC							Comments
1		68	Bot-5	✓	116	x		x x											
2		69	100	✓	100	x	xx	x											
3		70	75	✓	75	x		x											
4		71	50	✓	50	x x		x											
5		72	40	✓	40	x		x											
6		73	30	✓	30	x		x x											
7		74	20	✓	20	x		x	x x										
8		75	10	✓	10	x		x	x x										
9		76	5	✓	6	x		x											
10		77	0	✓	1	x x		x	x x		x	xx							
11		78	0	✓	1					xxx									
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): SA/CS/KS

Bottom Depth: 121 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0604	2304
Bottom	0609	
End	0622	

Positional Information

Start	Lat:	48 °	14.030	N
	Lon:	123 °	18.042	W
Bottom	Lat:	48 °	14.029	N
	Lon:	123 °	18.030	W
End	Lat:	48 °	14.036	N
	Lon:	123 °	17.999	W

Extra comments:

Version: 25 Nov 2011

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

1747

Water Properties Group

Sampling Log

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

Cruise ID: 2017-63 **Station:** 72 **Event #:** 12 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 9 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	Part	HPLC	PHYTO						Comments
1		41	Bot-5	/	182	x		x x		x									
2		42	175	/	175	x	xx	x											
3		43	150	/	150	x		x		xx									
4		44	125	/	125	x x		x											
5		45	100	/	100	x		x		x									
6		46	75	/	75	x		x x		x									
7		47	50	/	50	x		x		x									
8		48	40	/	40	x		x											
9		49	30	/	30	x		x		xx									
10		50	20	/	20	x x		x	x x	x									
11		51	10	/	10	x		x	xx	x									
12		52	5	/	5	x		x		x									
13		53	0	/	1	x		x	xx	x		xx	x						
14		54	0	/	1						xxx								
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): ST/CS/HS

Bottom Depth: 187 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2306	1606
Bottom	2311	
End	2327	

Positional Information

Start	Lat:	48 °	18.631	N
	Lon:	124 °	4.024	W
Bottom	Lat:	48 °	18.631	N
	Lon:	124 °	4.022	W
End	Lat:	48 °	18.624	N
	Lon:	124 °	4.014	W

Extra comments:

Version: 25 Nov 2011

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Water Properties Group **Sampling Log** **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2017-63 **Station:** 65 **Event #:** 22 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 10 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	PART	HPLC							Comments
1		79	Bot-5	✓	123	x		x											
2		80	100	✓		x x	xx	x											
3		81	75	✓		x		x											
4		82	50	✓	51	x		x x											
5		83	40	✓		x		x											
6		84	30	✓		x		x											
7		85	20	✓		x		x	x x										
8		86	10	✓		x x		x	x x										
9		87	5	✓		x		x x											
10		88	0	✓		x		x	x x			xx							
11		89	0	✓							xxx								
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): SR

Bottom Depth: 127 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1143	0443
Bottom	1146	
End	1159	

Positional Information

Start	Lat: 48° 15.92 N	
	Lon: 123° 9.75 W	
Bottom	Lat: 48° 15.91 N	
	Lon: 123° 9.75 W	
End	Lat: 48° 15.87 N	
	Lon: 123° 9.76 W	

Extra comments:

Water Properties Group — Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-63 Station: 63 Event #: 25 Vessel: Vector UTC Date (dd|mmm|yyyy): 10 | Apr | 2017

Bottles & Samples			Rosette Operation			Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPLC	Phyto								
1		90	20	✓			✓		✓										
2		91	10	✓			✓		✓										
3		92	0	✓			✓		✓	✓	✓								
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: 157 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	13:49	06:49
Bottom (BO)	13:52	:
End (EN)	13:59	:

Positional Information

Start	Lat: 48° 14.54	N
	Lon: 122° 58.58	W
Bottom	Lat: 48° 14.52	N
	Lon: 122° 58.60	W
Finish	Lat: 48° 14.49	N
	Lon: 122° 58.60	W

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

Version: 14 February 2013 Transmissometer and Fluorometer are to be cleaned before each cast -- do not use Ammonia products

Standards for Sample Collection: WaterProperties.ca/standards

Water Properties Group **Sampling Log** **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2017-63 **Station:** 62 **Event #:** 26 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 10 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	Part	hplc							Comments
1		93	Bot-5	✓	147	x		x											
2		94	125	✓	126	x	x	x											
3		95	100	✓		xx		x											
4		96	75	✓		x		x x											
5		97	50	✓		x		x											
6		98	40	✓		x		x											
7		99	30	✓		x		x											
8		100	20	✓		xx		x	x x										
9		101	10	✓		x		xx	x x										
10		102	5	✓		x x		x											Skipped the 30s wait time by accident. SR
11		103	0	✓		x		x	x x			xx							
12		104	0	✓							xxx								
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): SR

Bottom Depth: 149 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1510	0828
Bottom	1515	
End	1527	

Positional Information

Start	Lat:	48° 22.79	N
	Lon:	123° 2.59	W
Bottom	Lat:	48° 22.79	N
	Lon:	123° 2.60	W
End	Lat:	48° 22.78	N
	Lon:	123° 2.62	W

Extra comments:

Version: 25 Nov 2011 **Transmissometer to be cleaned before each cast, do not use Ammonia products** http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Water Properties Group **Sampling Log** **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2017-63 **Station:** 56 **Event #:** ~~32~~ 34 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 1 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	√	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	HPLC	PART	PHYTO							Comments
1		106	Bot-5	/	212	x		x											
2		107	200	/	200	x	xx	x											
3		108	175	/	175	x		x											
4		109	150	/	150	x x		x x											
5		110	125	/	125	x		x											
6		111	100	/	100	x		x											
7		112	75	/	75	x		x											
8		113	50	/	50	x		x											
9		114	40	/	40	x		x x											
10		115	30	/	30	x		x											
11		116	20	/	20	x		x	x x										
12		117	10	/	10	x		x	x x										
13		118	5	/	5	x		x											
14		119	0	/	1	x x		x	x x	xx		x							
15		120	0	/	1						xxx								
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): SM/CS/KS

Bottom Depth: 210 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0203	1903
Bottom	0208	
End	0226	

Positional Information

Start	Lat:	48	° 46.421	N
	Lon:	123	° 1.595	W
Bottom	Lat:	48	° 46.421	N
	Lon:	123	° 1.592	W
End	Lat:	48	° 46.422	N
	Lon:	123	° 1.603	W

Extra comments:

Version: 25 Nov 2011 **Transmissometer to be cleaned before each cast, do not use Ammonia products** http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Water Properties Group **Sampling Log** **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2017-63 **Station:** 46 **Event #:** 46 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 11 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	HPLC	PART								Comments
1		121	Bot-5	✓	173	x		x											
2		122	150	✓		x	xx	x x											
3		123	125	✓		x x		x											
4		124	100	✓		x		x											
5		125	75	✓		x		x											
6		126	50	✓		x		x											
7		127	40	✓		x x		x											
8		128	30	✓		x		x											
9		129	20	✓		x		x	x x										
10		130	10	✓		x		x	x x										
11		131	5	✓		x		x x											
12		132	0	✓		x		x	x x	xx									
13		133	0	✓							xxx								
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): SR

Bottom Depth: 178 m

Transmisso Cleaned: (Y) / N

Time	*UTC*	*Local*
Start	0758	0058
Bottom	0802	
End		

Positional Information

Start	Lat: 48° 51.41	N
	Lon: 123° 10.78	W
Bottom	Lat: 48° 51.40	N
	Lon: 123° 10.79	W
End	Lat: 48° 51.41	N
	Lon: 123° 10.82	W

Extra comments:

Water Properties Group **Sampling Log** **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2017-63 **Station:** 42 **Event #:** 57 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 11 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	HPLC	phyto	part						Comments
1		134	Bot-5	✓	317	x		x		x									
2		135	300	✓		x	xx	x x											
3		136	250	✓		xx		x		x									
4		137	200	✓		x		x		x									
5		138	175	✓		x		x											
6		139	150	✓		x		x		x									
7		140	125	✓		x		x		xx									
8		141	100	✓		x		x		x									
9		142	75	✓		x		x		x									
10		143	50	✓		x		x		x									
11		144	40	✓		x		x x		x									
12		145	30	✓		x		x		x									
13		146	20	✓		x		x	x x	x x									
14		147	10	✓		x		x	x x	x									
15		148	5	✓		xx		x		x									
16		149	0	✓		x		x	x x	x	xx	x							
17		150	0	✓									xxx						
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s):

Bottom Depth: 321 m

Transmisso Cleaned: Y / N

Time	*UTC*	*Local*
Start	1229	0529
Bottom	1235	
End	1256	

Positional Information

Start	Lat:	49° 1.81	N
	Lon:	123° 26.21	W
Bottom	Lat:	49° 1.80	N
	Lon:	123° 26.21	W
End	Lat:	49° 1.77	N
	Lon:	123° 26.24	W

Extra comments:

Water Properties Group **Sampling Log** **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2017-63 **Station:** 39 **Event #:** 63 **Ship:** ~~Tully~~ Vector **UTC Date (dd|mmm|yyyy):** 11 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	PART	HPLC							Comments
1	1	151	Bot-5	/	372	x		x											
3	3	152	350	/		x	xx	x											
4	4	153	300	/		x		x x											
5	9	154	250	/		x		x											
6	6	155	200	/		x		x											
7	7	156	175	/		x		x											
8	8	157	150	/		x		x											
9	9	158	125			x		x											
10	10	159	100			x		x											
11	12	160	75			x		x											
12	13	161	50			x x		x											
~~12~~	~~15~~	~~162~~	~~40~~			~~x~~		~~x x~~											
13	16	163	30			x		x											
14	17	164	20			x		x	x x										
15	19	165	10			x		x	x x										
16	20	166	5			x		x											
17	21	167	0			xx		x	x x			xx							
18	22	168	0								xxx								
19	2	169	b-5																
20	11	170	100																
21	14	171	50																
22	18	172	20																
23		162	40																
24																			

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

Watchkeeper(s): SR

Bottom Depth: 375 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1541	0841
Bottom	1551	0851
End		

Positional Information

Start	Lat:	49 ° 9.83	N
	Lon:	123 ° 32.97	W
Bottom	Lat:	49 °	N
	Lon:	123 °	W
End	Lat:	49 °	N
	Lon:	123 °	W

Extra comments:
1, 19, 3, 4, 5, 6, 7, 8, 9, 10, 20, 11, 12, 21 23, 13, 14, 22, 15,

Version: 25 Nov 2011 **Transmissometer to be cleaned before each cast, do not use Ammonia products** http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Water Properties Group **Sampling/Rosette Log** **Institute of Ocean Sciences, Ocean Sciences Division**

Cruise ID: 2017-63 **Station:** GEO1 **Event #:** 70 **Vessel:** VECTOR **UTC Date (dd|mmm|yyyy):** 11 | APR | 2017

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		173	20	✓	20		✓		✓✓										
2		174	10	✓	10		✓		✓✓										
3		175	0	✓	1		✓		✓✓	✓✓									
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): SW/CS/MS

Bottom Depth: 410 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	20:08	13:08
Bottom (BO)	20:17	:
End (EN)	20:28	:

Positional Information

Start	Lat: 49° 14.955 N	
	Lon: 123° 44.864 W	
Bottom	Lat: 49° 14.999 N	
	Lon: 123° 44.882 W	
Finish	Lat: 49° 14.998 N	
	Lon: 123° 44.948 W	

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

Version: 14 February 2013 **Transmissometer and Fluorometer are to be cleaned before each cast -- do not use Ammonia products** **Standards for Sample Collection: WaterProperties.ca/standards**

Water Properties Group **Sampling Log** **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2017-63 **Station:** 27 **Event #:** 76 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 11 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	HPLC	PHYTO	PART						Comments
1		176	Bot-5	/	346	x		x		x									
2		177	300	/	300	x	xx	x		x									
3		178	250	/	250	x		x x		xx									
4		179	200	/	200	x		x		x									
5		180	175	/	175	x		x		x									
6		181	150	/	150	x		x		xx									
7		182	125	/	125	x		x		x									
8		183	100	/	100	x		x		x									
9		184	75	/	75	x x		x		x									
10		185	50	/	50	x		x		x									
11		186	40	/	40	x		x x		x									
12		187	30	/	30	x		x		x									
13		188	20	/	20	x		x	x x	xx									
14		189	10	/	10	x		x	x x	x									
15		190	5	/	5	x x		x		x									
16		191	0	/	1	x		x	x x	x	xx	x							HPLC 625ml
17		192	0	/	1								xxx						
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): BK/CS/MS

Bottom Depth: 345 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2236	
Bottom	2244	
End	2306	

Positional Information

Start	Lat:	49 ° 19.118	N
	Lon:	123 ° 47.947	W
Bottom	Lat:	49 ° 19.133	N
	Lon:	123 ° 47.990	W
End	Lat:	49 ° 19.157	N
	Lon:	123 ° 48.007	W

Extra comments:

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-63 Station: 24 Event #: 83 Vessel: VELGUR UTC Date (dd|mmm|yyyy): 12 | Apr | 2017

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		193	20	/	20		✓		✓✓										
2		194	10	/	10		✓		✓✓										
3		195	0	/	1		✓		✓✓		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): SM|CS|NS|AM.

Bottom Depth: 427 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	03:03	20:03
Bottom (BO)	03:17	:
End (EN)	03:29	:

Positional Information

Start	Lat:	49° 30.294 N
	Lon:	124° 6.016 W
Bottom	Lat:	49° 30.298 N
	Lon:	124° 6.029 W
Finish	Lat:	49° 30.301 N
	Lon:	124° 6.014 W

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

Version: 14 February 2013 Transmissometer and Fluorometer are to be cleaned before each cast -- do not use Ammonia products

Standards for Sample Collection: WaterProperties.ca/standards

Water Properties Group

Sampling Log

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

Cruise ID: 2017-63 **Station:** 2 **Event #:** 85 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 12 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	HPLC	PART	PHYTO							Comments
1		196	Bot-5	/	274	x		x											
2		197	250	/	250	x x	xx	x											
3		198	200	/	200	x		x											
4		199	175	/	175	x		x											
5		200	150	/	150	x x		x											
6		201	125	/	125	x		x x											
7		202	100	/	100	x		x											
8		203	75	/	75	x		x											
9		204	50	/	50	x		x											
10		205	40	/	40	x		x											
11		206	30	/	30	x		x											
12		207	20	/	20	x		x	x x										
13		208	10	/	10	x		x	x x										
14		209	5	/	5	x		x x											
15		210	0	/	1	x		x	x x	xx		x							
16		211	0	/	1						xxx								
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s):

Bottom Depth: 278 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	0438	2138
Bottom	0444	
End	0504	

Positional Information

Start	Lat:	49 ° 24.115	N
	Lon:	124 ° 9.310	W
Bottom	Lat:	49 ° 24.116	N
	Lon:	124 ° 9.310	W
End	Lat:	49 ° 24.115	N
	Lon:	124 ° 9.317	W

Extra comments:

Version: 25 Nov 2011

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Water Properties Group

Sampling Log

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

Cruise ID: 2017-63 **Station:** 3 **Event #:** 92 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 12 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	PART	Sal	Nut-F	Chl	HPLC									Comments
1		215	Bot-5	✓	319			x											
2		216	300	✓			xx	x											
3		217	250	✓				xx											
4		218	200	✓				x											
5		219	175	✓				x											
6		220	150	✓				x											
7		221	125	✓				x											
8		222	100	✓				x											
9		223	75	✓				x											
10		224	50	✓				x											
11		225	40	✓				x											
12		226	30	✓				x											
13		227	20	✓				x	xx										
14		228	10	✓				xx	xx										
15		229	5	✓				x											
16		230	0	✓				x	xx	xx									
17		231	0	✓		xxx													
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s):

Bottom Depth: 323 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0836	0136
Bottom	0842	
End	0902	

Positional Information

Start	Lat:	49° 26.61 N
	Lon:	124° 20.28 W
Bottom	Lat:	49° 26.60 N
	Lon:	124° 20.28 W
End	Lat:	49° 26.58 N
	Lon:	124° 20.31 W

Extra comments:

Version: 25 Nov 2011

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Water Properties Group **Sampling Log** **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2017-63 **Station:** BS17 **Event #:** 94 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 12 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	PART	HPLC							Comments
1		232	Bot-5	✓	56.4	x		x		x									
2		233	50	✓		x x	xx	x		x									
3		234	40	✓		x		x		xx									
4		235	30	✓		x		x x		x									
5		236	20	✓		x		x	xx	x									
6		237	10	✓		x		x	xx	xx									
7		238	5	✓		xx		x		x									
8		239	0	✓		x		x	xx	x		xx							
9		240	0	✓							xxx								
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s):

Bottom Depth: 62 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1110	0410
Bottom	1112	
End	1120	

Positional Information

Start	Lat:	49 ° 28.98	N
	Lon:	124 ° 46.03	W
Bottom	Lat:	49 ° 28.98	N
	Lon:	124 ° 46.03	W
End	Lat:	49 ° 28.97	N
	Lon:	124 ° 46.04	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-63 **Station:** 6 **Event #:** 97 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 12 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	PART								Comments
1		241	Bot-5	✓	190	x		x											
2		242	175	✓		x	xx	x											
3		243	150	✓		x		x											
4		244	125	✓		x		x											
5		245	100	✓		x x		x											
6		246	75	✓		x		xx											
7		247	50	✓		x		x											
8		248	40	✓		x		x											
9		249	30	✓		x		x											
10		250	20	✓		x		x	x x										
11		251	10	✓		x		x	x x										
12		252	5	✓		x		xx											
13		253	0	✓		xx		x	x x										
14		254	0	✓							xxx								
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): SR

Bottom Depth: 194 m

Transmisso Cleaned: (Y) / N

Time	*UTC*	*Local*
Start	1347	0647
Bottom	1351	
End	1406	

Positional Information

Start	Lat:	49 ° 30.61	N
	Lon:	124 ° 27.80	W
Bottom	Lat:	49 ° 30.62	N
	Lon:	124 ° 27.80	W
End	Lat:	49 ° 30.63	N
	Lon:	124 ° 27.77	W

Extra comments:

Version: 25 Nov 2011

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Water Properties Group

Sampling Log

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

Cruise ID: 2017-63 **Station:** 9 **Event #:** 101 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 12 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	PART	HPLC							Comments
1		255	Bot-5	✓	165			x											
2		256	150	✓			XX	x											
3		257	125	✓			XX	x x											
4		258	100	✓			XX	x											
5		259	75	✓			xx	x											
6		260	50	✓				x											
7		261	40	✓				x											
8		262	30	✓				x											
9		263	20	✓				x x	x x										
10		264	10	✓				x	x x										
11		265	5	✓				x											
12		266	0	✓				x	x x			xx							
13		267	0	✓							xxx								
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): SR

Bottom Depth: 170 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1637	
Bottom	1642	
End	1655	

Positional Information

Start	Lat: 49 ° 35.52 N	
	Lon: 124 ° 38.27 W	
Bottom	Lat: 49 ° 35.52 N	
	Lon: 124 ° 38.28 W	
End	Lat: 49 ° 35.52 N	
	Lon: 124 ° 38.30 W	

Extra comments:

Version: 25 Nov 2011

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Water Properties Group

Sampling Log

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

Cruise ID: 2017-63 **Station:** 12 **Event #:** 107 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 12 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	Phyto	Part							Comments
1		268	Bot-5	/	349	x		x		x									
2	269	~~267~~	300	/	300	x	xx	x											
3	270	~~266~~	250	/	250	x	xx	x		x									
4	271	~~265~~	200	/	200	x	xx	x		x									
5	272	~~264~~	175	/	175	x	xx	x											
6	273	~~263~~	150	/	150	x x	xx	x		x x									
7	274	~~262~~	125	/	125	x	xx	x		x									
8	275	~~261~~	100	/	100	x	xx	x x		x									
9	276	~~260~~	75	/	75	x		x		x									
10	277	~~259~~	50	/	50	x		x		xx									
11	278	~~258~~	40	/	40	x		x		x									
12	279	~~257~~	30	/	30	x x		x		x									
13	280	~~256~~	20	/	20	x		x	x x	x									
14	281	~~255~~	10	/	10	x		x x	x x	x									
15	282	~~254~~	5	/	5	x		x		x									
16	283	~~253~~	0	/	1	x		x	x x	x	x								
17	284	~~254~~	0	/	1							xxx							
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Samples Taken / Sampler's Initials

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): SR/CS/NS/AM

Bottom Depth: 353 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1907	1203
Bottom	1916	
End	1939	

Positional Information

Start	Lat:	49 ° 43.532	N
	Lon:	124 ° 40.808	W
Bottom	Lat:	49 ° 43.580	N
	Lon:	124 ° 40.807	W
End	Lat:	49 ° 43.532	N
	Lon:	124 ° 40.807	W

Extra comments:

Version: 25 Nov 2011

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Water Properties Group

Sampling Log

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

Cruise ID: 2017-63 **Station:** 14 **Event #:** 110 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 12 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	√	Confirmed Pressure	Samples Taken / Sampler's Initials: Oxy	Sal	Nut-F	Chl	PART	PHYTO	HPLC							Comments
1		285	Bot-5	/	311	x		x											
2		286	250	/	250	x	xx	x											
3		287	200	/	200	x x		x											
4		288	175	/	175	x		x											
5		289	150	/	150	x		x											
6		290	125	/	125	x		x x											
7		291	100	/	100	x		x											
8		292	75	/	75	x		x											
9		293	50	/	50	x		x											
10		294	40	/	40	x x		x											
11		295	30	/	30	x		x x											
12		296	20	/	20	x		x	x x										
13		297	10	/	10	x		x	x x										
14		298	5	/	5	x		x											
15	16	299	0	/	1	x		x	x x		x	xx							
16	17	300	0	/	1					xxx									
17																			
18																			
19																			bottle 15
20																			chipped —
21																			NOT FIRED
22																			
23																			
24																			

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): SR/CS/KS/AM

Bottom Depth: 313 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2147	1447
Bottom	2154	
End	2213	

Positional Information

Start	Lat:	49 ° 53.028	N
	Lon:	124 ° 59.641	W
Bottom	Lat:	49 ° 53.014	N
	Lon:	124 ° 59.653	W
End	Lat:	49 ° 53.021	N
	Lon:	124 ° 59.647	W

Extra comments:

Version: 25 Nov 2011

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Water Properties Group **Sampling Log** **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2017-63 **Station:** 16 **Event #:** 116 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 13 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	HPLC	PART								Comments
1		302	Bot-5	/	151	x		x											
2		303	125	/	125	x	xx	x											
3		304	100	/	100	x x		x											
4		305	75	/	75	x		x											
5		306	50	/	50	x		x											
6		307	40	/	40	x		x x											
7		308	30	/	30	x		x											
8		309	20	/	20	x		x	x x										
9		310	10	/	10	x		x	x x										
10		311	5	/	5	x x		x											
11		312	0	/	1	x		x x	x x	xx									
12		313	0	/	1						xxx								
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): SM/CS/KS/AM

Bottom Depth: 154 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0130	1930
Bottom	0135	
End	0147	

Positional Information

Start	Lat:	49 ° 57.760	N
	Lon:	125 ° 9.834	W
Bottom	Lat:	49 ° 57.756	N
	Lon:	125 ° 9.837	W
End	Lat:	49 ° 57.745	N
	Lon:	125 ° 8.845	W

Extra comments:

Version: 25 Nov 2011

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Water Properties Group

Rosette Log

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

Cruise ID: 2017-63 Station: 22 Event #: 123 Ship: Vector UTC Date (dd|mmm|yyyy): 13 | Apr | 2017

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	Phyto	HPLC				Comments
1	314	20		20	✓	20		X		XX							
2	315	10		10	✓			XX		XX							
3	316	0		0	✓			X		XX		X	XX				
4																	
5																	
6																	
7																	
8																	
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16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): SR

Bottom Depth: 352 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0901	0201
Bottom	0908	
End	0917	

Positional Information

Start	Lat: 49 ° 40.20 N	
	Lon: 124 ° 16.30 W	
Bottom	Lat: 49 ° 40.20 N	
	Lon: 124 ° 16.29 W	
End	Lat: 49 ° 40.21 N	
	Lon: 124 ° 16.27 W	

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

*Date Run: ___|___|___

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Water Properties Group

Rosette Log

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

Cruise ID: 2017 Station: SC04 Event #: 128 Ship: Vector UTC Date (dd|mmm|yyyy): 13 | Apr | 2017

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	HPLC	Phyto				Comments
1	317			20	✓	20		✓		xx							
2	318			10	✓	10		✓		xx							
3	319			0	✓	0		✓		xx		xx	x				
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): SR

Bottom Depth: 97 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1630	0930
Bottom	1632	
End	1636	

Positional Information

Start	Lat:	48 ° 43.53 N
	Lon:	123 ° 25.01 W
Bottom	Lat:	48 ° 43.53 N
	Lon:	123 ° 25.01 W
End	Lat:	48 ° 43.52 N
	Lon:	123 ° 25.00 W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

*Date Run: ___ | ___ | ___

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Water Properties Group

Sampling Log

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

Cruise ID: 2017-63 **Station:** 59 **Event #:** 131 **Ship:** Vector **UTC Date (dd|mmm|yyyy):** 13 | Apr | 2017

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	Part	Phyto							Comments
1		320	Bot-5	✓	228	x		x		x									
2		321	200	✓		x	xx	x		x									
3		322	175	✓		x		x											
4		323	150		150	x x		x x		x									
5		324	125		125	x		x											
6		325	100		100	x		x		xx									
7		326	75		75	x		x		x									
8		327	50		50	x		x		x									
9		328	40		40	x		x x											
10		329	30		33	x		x		xx									
11		330	20		20	x		x	x x	x									
12		331	10		10	x		x	x x	x									
13		332	5		5	xx		x		x									
14		333	0		1	x		x	x x	x		x							
~~15~~	16	334	0		1						xxx								
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): SR/SR

Bottom Depth: 234 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1837	1137
Bottom	1843	
End	1902	

Positional Information

Start	Lat:	48 ° 37.778	N
	Lon:	123 ° 14.546	W
Bottom	Lat:	48 ° 37.772	N
	Lon:	123 ° 14.483	W
End	Lat:	48 ° 37.724	N
	Lon:	123 ° 14.470	W

Extra comments:

Version: 25 Nov 2011

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/