

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: SI Event #: 1 Ship: Vector UTC Date (dd:mmm/yyyy): 30/09/2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	OXY	NUTS	Sal	Chl_a	HPLC						
1		1	100	✓ 100	x	x	x								
2		2	75	✓ 75	x	x									
3		3	50	✓ 50	x	x									
4		4	40	✓ 40	xx	x									
5		5	30	✓ 30	x	x									
6		6	20	✓ 20	x	xx		xx							
7		7	10	✓ 10	x	x		x							
8		8	5	✓ 5	x	xx		x							
9		9	0	✓ 2.1	x	x		x	xx						FLUOR:
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2354	1654
Bottom	2357	1657
End	0009	1709

Positional Information
Start
Lat: 48 39.982 N
Lon: 123 29.971 WBottom
Lat: 48 38 984 N
Lon: 123 29 980 WEnd
Lat: 48 38 990 N
Lon: 123 29 984 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 59 Event #: 3 Ship: Vector UTC Date (dd/mm/yyyy): 1 OCT 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	OXY	NUTS	Sal	DIC	Chl_a	HPLC	DA	PHYTO			
1		10	Bot-5	✓ 225	x	xx		x							
2		11	200	✓ 200	x	x	x	x							
3		12	175	✓ 175	x	x									
4		13	150	✓ 150	x	x		xx							
5		14	125	✓ 125	x	x									
6		15	100	✓ 100	x	x		x							
7		16	75	✓ 75	xx	x		x							
8		17	50	✓ 50	x	x		xx							
9		18	40	✓ 40	xx	xx									
10		19	30	✓ 30	x	x		x							
11		20	20	✓ 20	x	x		x	x						
12		21	10	✓ 10	x	x		x	xx						
13		22	5	✓ 5	x	x		x	x						
14		23	0	✓ 2.0	x	x		x							
15		24	0	✓ 2.0		x			x	xx	x	x			
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): R/KY/HB

Bottom Depth: 232 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0229	1929
Bottom	0235	1935
End	0252	1952

Positional Information

Lat:	48 ° 37.853	N
Lon:	123 ° 14.624	W

Start

Lat:	48 ° 37.856	N
Lon:	123 ° 14.629	W

Bottom

Lat:	48 ° 37.877	N
Lon:	123 ° 14.606	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 102 Event #: 7 Ship: Vector UTC Date (dd:mmm/yyyy): 1 10 19

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	NUTS	Sal	Chl_a	HPLC	DA	PHYTO					
1		25	Bot-5	✓ 252	x	x										
2		26	200	✓	x	x	x									
3		27	175	✓	xx	x										
4		28	150	✓	x	xx										
5		29	125	✓	x	xx										
6		30	100	✓	x	x										
7		31	75	✓	x	x										
8		32	50	✓	x	x										
9		33	40	✓	x	x										
10		34	30	✓	x	x										
11		35	20	✓	x	x		xx								
12		36	10	✓	x	x		x								
13		37	5	✓	xx	x		x								
14		38	0	✓	x	x		x	xx	x	x					
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth:	255	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	1511	0911
Bottom	1518	
End	1535	

Positional Information		
Start	Lat: 48 ° 29 976	N
	Lon: 124 ° 44 001	W

Bottom	Lat: 48 ° 29 988	N
	Lon: 124 ° 44 148	W

End	Lat: 48 ° 29 978	N
	Lon: 124 ° 44 260	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 75 Event #: 10 Ship: Vector UTC Date (dd|mmm|yyyy): 1 10 19

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	NUTS	Sal	Chl_a	HPLC									
1		39	Bot-5	✓	218	x	xx											
2		40	200	✓		xx	x	x										
3		41	175	✓		x	x											
4		42	150	✓		x	xx											
5		43	125	✓		x	x											
6		44	100	✓		x	x											
7		45	75	✓		x	x											
8		46	50	✓		x	x											
9		47	40	✓		x	x											
10		48	30	✓		xx	x											
11		49	20	✓		x	x		x									
12		50	10	✓		x	x		x									
13		51	5	✓		x	x		x									
14		52	0	✓		x	x		xx	xx								
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
(ROS) TRM X-Niskin other?
Watchkeeper(s): H. M.

Bottom Depth: 219 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	18 19	11 19
Bottom	18 23	
End	18 40	

Positional Information

Start
Lat: 48 ° 28 321 N
Lon: 124 ° 32 886 W

Bottom
Lat: 48 ° 28 338 N
Lon: 124 ° 32 940 W

End
Lat: 48 ° 28 423 N
Lon: 124 ° 33 223 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 72 Event #: 14 Ship: Vector UTC Date (dd mmm yyyy): 01 OCT 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	OXY	NUTS	Sal	DIC	Chl_a	HPLC	DA	PHYTO					
1		53	Bot-5	✓ 185	xx	xx		x									
2		54	175	✓ 175	x	x	x										
3		55	150	✓ 150	x	x		x									
4		56	125	✓ 125	xx	x											
5		57	100	✓ 100	x	x		xx									
6		58	75	✓ 75	x	x		x									
7		59	50	✓ 50	x	x		x									
8		60	40	✓ 40	x	x											
9		61	30	✓ 30	x	xx		x									
10		62	20	✓ 20	x	x		xx	x								
11		63	10	✓ 10	x	x		x	x								
12		64	5	✓ 5	x	x		x	x								
13		65	0	✓ 2.1	x	x		x									
14		66	0	✓ 2.1		x			xx	xx	x	x					
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 189 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	23 02	16 02
Bottom	23 05	16 05
End	23 19	16 19

Positional Information
Start
Lat: 48 ° 18.599 N
Lon: 124 ° 03.960 W

Bottom
Lat: 48 ° 18.582 N
Lon: 124 ° 03.942 W

End
Lat: 48 ° 18.571 N
Lon: 124 ° 03.904 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 69 Event #: 17 Ship: Vector UTC Date (dd|mmm|yyyy): 02|Oct|2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	NUTS	Sal	Chl_a	HPLC						
1		67	Bot-5	✓ 175	x	x									
2		68	150	✓ 150	x	x	x								
3		69	125	✓ 125	xx	x									
4		70	100	✓ 100	xx	x									
5		71	75	✓ 75	x	x									
6		72	50	✓ 50	x	x									
7		73	40	✓ 40	x	x									
8		74	30	✓ 30	x	x									
9		75	20	✓ 20	x	xx		x							
10		76	10	✓ 10	x	xx		xx							
11		77	5	✓ 5	x	x		x							
12		78	0	✓ 2.1	x	x		x	xx						
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): 

Bottom Depth: 178 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0156	1856
Bottom	0159	1859
End	0211	1911

Positional Information

Start

Lat: 48 ° 15.601 N

Lon: 123 ° 43.280 W

Bottom

Lat: 48 ° 15.566 N

Lon: 123 ° 43.318 W

End

Lat: 48 ° 15.434 N

Lon: 123 ° 43.391 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062

Station: ADCP

Event #: 20

Ship: Vector

UTC Date (dd/mm/yyyy): 02 OCT 2019

			Rosette Operation		Samples Taken / Sampler's Initials												Comments	
Niskin #	Firing #	Sample #	Target	Confirmed	OXY	NUTS	Sal	Chl_a	HPLC	DA	PHYTO							
			Pressure	✓ Pressure														
1		79	Bot-5	✓	115	x	x											
2		80	100	✓	100	x	x	x										
3		81	75	✓	75	x	x											
4		82	50	✓	50	x	x											
5		83	40	✓	40	x	x											
6		84	30	✓	30	x	xx											
7		85	20	✓	20	xx	x		xx									
8		86	10	✓	10	x	x		x									
9		87	5	✓	5	x	x		x									
10		88	0	✓	2.1	x	x		x	xx	x	x						
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 120 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0523	2223
Bottom	0525	2225
End	0535	2235

Positional Information

Start
Lat: 48 ° 13.973 N
Lon: 123 ° 18.103 W

Bottom
Lat: 48 ° 13.940 N
Lon: 123 ° 18.089 W

End
Lat: 48 ° 13.966 N
Lon: 123 ° 18.122 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 65 Event #: 24 Ship: Vector UTC Date (dd mmm yyyy): 21 10 19

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	OXY	NUTS	Sal	Chl_a	HPLC						
1		89	Bot-5	✓ 122	xx	x									
2		90	100	✓	x	x	x								
3		91	75	✓	x	x									
4		92	50	✓	x	x									
5		93	40	✓	x	x									
6		94	30	✓	x	xx									
7		95	20	✓	x	x		x							
8		96	10	✓	x	x		xx							
9		97	5	✓	x	x		x							
10		98	0	✓	x	x		x	xx						
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 125 m
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0856	0156
Bottom	0859	
End	0910	

Positional Information

Lat:	48 ° 15 ' 908	N
Lon:	123 ° 09 ' 828	W

▼

Lat:	48 ° 15 ' 918	N
Lon:	123 ° 09 ' 869	W

▼

Lat:	48 ° 15 ' 950	N
Lon:	123 ° 09 ' 938	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 63 Event #: 27 Ship: Vector UTC Date (dd mmm yyyy): 2 10 19

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	NUTS	Chl_a	HPLC	DA	PHYTO						
1		99	20	✓	x	x									
2		100	10	✓	x	x									
3		101	5	✓	x	x									
4		102	0	✓	xx	xx	xx	x	x						
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): 11.1

Bottom Depth: 160 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	11 09	04 09
Bottom	11 13	
End	11 19	

Positional Information

Start

Lat: 48 ° 14 638 N

Lon: 122 ° 58 544 W

▼

Bottom

Lat: 48 ° 14 651 N

Lon: 122 ° 58 554 W

▼

End

Lat: 48 ° 14 666 N

Lon: 122 ° 58 618 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 62 Event #: 28 Ship: Vector UTC Date (dd mmm/yyyy): 2 10 19

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	NUTS	Sal	Chl_a	HPLC						
1		103	Bot-5	✓ 144	x	xx									
2		104	125	✓	xx	x	x								
3		105	100	✓	x	x									
4		106	75	✓	x	x									
5		107	50	✓	x	x									
6		108	40	✓	x	x									
7		109	30	✓	x	xx									
8		110	20	✓	xx	x		xx							
9		111	10	✓	x	x		x							
10		112	5	✓	x	x		x							
11		113	0	✓	x	x		x	xx						
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth:	148	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	12 27	0527
Bottom	12 30	
End	12 42	

Positional Information		
Start	Lat: 48 ° 22 625	N
	Lon: 123 ° 02 551	W

Bottom	Lat: 48 ° 22 944	N
	Lon: 123 ° 02 539	W

End	Lat: 48 ° 22 898	N
	Lon: 123 ° 02 532	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 56 Event #: 33 Ship: Vector UTC Date (dd mmm yyyy): 02 / 10 / 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed Pressure	OXY	NUTS	Sal	Chl_a	HPLC	DA	PHYTO					
1		114	Bot-5	✓ 211	x	x										
2		115	200	✓	x	x	x									
3		116	175	✓	xx	xx										
4		117	150	✓	x	x										
5		118	125	✓	x	x										
6		119	100	✓	x	x										
7		120	75	✓	x	x										
8		121	50	✓	x	x										
9		122	40	✓	xx	xx										
10		123	30	✓	x	x										
11		124	20	✓	x	x		x								
12		125	10	✓ 10.3	x	x		x								
13		126	5	✓	x	x		xx								
14		127	0	✓ 2.2	x	x		x	xx	x	x					
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type: ROS TRM X-Niskin other?
Watchkeeper(s): Paul C.Bottom Depth: 212 mTransmisso Cleaned: Y / N

Time	UTC	Local
Start	18:17	11:17
Bottom	18:22	
End	18:39	

Positional Information
Start
Lat: 48 ° 46.396 N
Lon: 123 ° 01.592 WBottom
Lat: 48 ° 46.396 N
Lon: 123 ° 01.598 WEnd
Lat: 48 ° 46.373 N
Lon: 123 ° 01.600 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 46

Event #: 42

Ship: Vector

UTC Date (dd mmm/yyyy): 03 OCT 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	OXY	NUTS	Sal	Chl_a	HPLC						
1		128	Bot-5	✓ 174.3	x	xx									
2		129	150	✓ 150.2	x	x	x								
3		130	125	✓ 125.1	xx	x									
4		131	100	✓ 100.1	x	x									
5		132	75	✓ 74.9	x	x									
6		133	50	✓ 50.0	xx	x									
7		134	40	✓ 40.1	x	x									
8		135	30	✓ 30.1	x	x									
9		136	20	✓ 20.2	x	x		x							
10		137	10	✓ 10.0	x	xx		x							
11		138	5	✓ 5.0	x	x		x							
12		139	0	✓ 2.4	x	x		xx	xx						
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 176 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0152	1852
Bottom	0155	1855
End	0207	1907

Positional Information

Start	Lat: 48 ° 51.437 N
Start	Lon: 123 ° 10.811 W

Bottom

Bottom	Lat: 48 ° 51.424 N
Bottom	Lon: 123 ° 10.817 W

End

End	Lat: 48 ° 51.428 N
End	Lon: 123 ° 10.817 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 42 Event #: 46 Ship: Vector UTC Date (dd|mm|yyyy): 03 | Oct | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	OXY	NUTS	Sal	DIC	Chl_a	HPLC	DA	PHYTO						
1		140	Bot-5	✓ 315	x	x		x										
2		141	300	✓ 300	xx	x	x											
3		142	250	✓ 250	x	x		x										
4		143	200	✓ 200	xx	x		x										
5		144	175	✓ 175	x	x												
6		145	150	✓ 150	x	x		x										
7		146	125	✓ 125	x	xx		xx										
8		147	100	✓ 100	x	x		x										
9		148	75	✓ 75	x	x		x										
10		149	50	✓ 50	x	x		x										
11		150	40	✓ 40	x	x		x										
12		151	30	✓ 30	x	x		x										
13		152	20	✓ 20	x	xx		x	x									
14		153	10	✓ 10	x	x		xx	xx									
15		154	5	✓ 5	x	x		x	x									
16		155	0	✓ 2.3	x	x		x										
17		156	0	✓ 2.3		x			x	xx	x	x						
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 318 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	05 03	22 03
Bottom	05 09	22 09
End	05 27	22 27

Positional Information
Start
Lat: 49 ° 01.810 N
Lon: 123 ° 26.158 WBottom
Lat: 49 ° 01.788 N
Lon: 123 ° 26.146 WEnd
Lat: 49 ° 01.798 N
Lon: 123 ° 26.186 W

Extra comments: