

2019-062

Station:

39

Event #:

52

Ship:

Vector

UTC Date (dd mmm/yyyy): 03 / 10 / 2019

UTC Date (dd mmm yyyy):

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): PAUL C.

Bottom Depth: 370 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	10:30	03:30
Bottom	10:37	
End	10:58	

Positional Information

Start	Lat:	49 ° 09.967	N
	Lon:	123 ° 33.076	W

Bottom	Lat: 49 ° 09.986 N
	Lon: 123 ° 33.092 W

End	Lat:	49	°	10.060	N
	Lon:	123	°	33.127	W

Extra comments:

Cruise ID:	Station:	Event #:	Ship:	Vector	Comments
Niskin #	Firing #	Sample #	Rosette Operation Target Pressure Confirmed ✓ Pressure	Samples Taken / Sampler's Initials OXY NUTS Sal Chl_a HPLC	
1		157	Bot-5 ✓ 369	x xx	
2		158	350 ✓	x x x	
3		159	300 ✓	x xx	
4		160	250 ✓	x x	
5		161	200 ✓	x x	
6		162	175 ✓	x x	
7		163	150 ✓	x x	
8		164	125 ✓	x x	
9		165	100 ✓	x x	
10		166	75 ✓	x x	
11		167	50 ✓	x x	
12		168	40 ✓	xx x	
13		169	30 ✓	x x	
14		170	20 ✓	x x	x
15		171	10 ✓	x x	x
16		172	5 ✓	x x	x
17		173	0 ✓ 2.4	xx x	xx xx
18					
19					
20					
21					
22					
23					
24					

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: 2019-062 Station: GEO1 Event #: 56 Ship: Vector UTC Date (dd|mmm|yyyy): 3|10|19

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	NUTS	Chl_a	HPLC								
1		174	20	✓ 20	xx	x									
2		175	10	✓	x	x									
3		176	5	✓	x	x									
4		177	0	✓	x	xx	xx								
5															
6															
7															
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24															

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

Bottom Depth: 405 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1409	0709
Bottom	1417	
End	1427	

Positional Information

Lat:	49	°	15	026	N
Lon:	123	°	44	942	W

▼

Lat:	49	°	15	037	N
Lon:	123	°	44	959	W

▼

Lat:	49	°	15	047	N
Lon:	123	°	44	960	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2019-062

Station:

27

Event #: 59

Ship:

Vector

UTC Date (dd mmm yyyy): 31 10 19

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		178	Bot-5	✓	343	x	x		x								
2		179	300	✓		x	x	x	x								
3		180	250	✓		x	xx		xx								
4		181	200	✓		x	x		x								
5		182	175	✓		xx	x										
6		183	150	✓		xx	x										
7		184	125	✓		x	x										
8		185	100	✓		x	x										
9		186	75	✓		x	x										
10		187	50	✓		x	x										
11		188	40	✓		x	x										
12		189	30	✓		x	x										
13		190	20	✓		x	x		x								
14		191	10	✓		x	x		xx								
15		192	5	✓		x	xx		x								
16		193	0	✓	1.9-2.2	x											
17		194	0	✓	"	x	x		x	xx	x	x					
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): J.M.

Bottom Depth: 345 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1637	0937
Bottom	1643	
End	1705	

Positional Information

Start
Lat: 49 ° 19 127 N
Lon: 123 ° 48 028 WBottom
Lat: 49 ° 19 133 N
Lon: 123 ° 48 024 WEnd
Lat: 49 ° 19 151 N
Lon: 123 ° 48 036 W

Extra comments:

193
NUTS
27
2019-062
Bot 16

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062

Station: 22

Event #: 65

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	NUTS	Chl a	HPLC	DA	PHYTO							
1		199	20	✓ 20	x	xx										
2		200	10	✓ 10	xx	x										
3		201	5	✓ 5	x	x										
4		202	0	✓ 2.0	x	x	xx	x	x							
5																
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Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): pe

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

Time	UTC	Local
Start	2235	1535
Bottom	2240	1540
End	2249	1549

Positional Information

Lat:	49 ° 40.195	N
Lon:	124 ° 16.314	W

▼

Lat:	49 ° 40.193	N
Lon:	124 ° 16.308	W

▼

Lat:	49 ° 40.196	N
Lon:	124 ° 16.302	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062

Station: 24

Event #: 64

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	NUTS	Chl_a	HPLC								
1		195	20	✓ 20	x	x									
2		196	10	✓ 10	x	xx									
3		197	5	✓ 5	xx	x									
4		198	0	✓ 2.4	x	x	xx								
5															
6															
7															
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24															

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

Bottom Depth: 417 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	20 49	13 49
Bottom	20 58	13 58
End	21 09	14 09

Positional Information

Start
Lat: 49 ° 30.203 N
Lon: 124 ° 05.665 W

Bottom
Lat: 49 ° 30.248 N
Lon: 124 ° 05.558 W

End
Lat: 49 ° 30.225 N
Lon: 124 ° 05.486 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: QU39 Event #: 71 Ship: Vector UTC Date (dd mmm yyyy): 04 Oct 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	NUTS	Chl_a	HPLC								
1		214	20	✓ 20	x	x									
2		215	10	✓ 10	x	x									
3		216	5	✓ 5	xx	xx									
4		217	0	✓ 2.5	x	x	xx								
5															
6															
7															
8															
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23															
24															

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

Bottom Depth: 274 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0440	2140
Bottom	0445	2145
End	0452	2152

Positional Information

Lat:	50 ° 1.842	N
Lon:	125 ° 5.990	W

Start

▼

Lat:	50 ° 1.829	N
Lon:	125 ° 5.012	W

Bottom

▼

Lat:	50 ° 1.844	N
Lon:	125 ° 5.008	W

End

Extra comments:
sample # out of order

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 16

Event #: 73

Ship: Vector

UTC Date (dd mmm yyyy): 04 Oct 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	OXY	NUTS	Sal	Chl_a	HPLC						
1		203	Bot-5	✓ 150	x	x									
2		204	125	✓ 125	x	x	x								
3		205	100	✓ 100	x	xx									
4		206	75	✓ 75	x	x									
5		207	50	✓ 50	x	x									
6		208	40	✓ 40	xx	x									
7		209	30	✓ 30	x	x									
8		210	20	✓ 20	x	x		x							
9		211	10	✓ 10	x	x		x							
10		212	5	✓ 5	x	xx		xx							
11		213	0	✓ 2.5	xx	x		x	xx						
12															
13															
14															
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17															
18															
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23															
24															

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

Bottom Depth: 156 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0600	2300
Bottom	0603	2303
End	0614	2314

Positional Information

Lat:	49 ° 57.732	N
Lon:	125 ° 08.738	W

Start

Lat:	49 ° 57.726	N
Lon:	125 ° 08.706	W

Bottom

Lat:	49 ° 57.718	N
Lon:	125 ° 08.664	W

End

Extra comments:
sample #s out of order

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 14 Event #: 76 Ship: Vector UTC Date (dd mmm yyyy): 04 Oct 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		218	Bot-5	✓ 310	x	x											
2		219	250	✓	x	x	x										
3		220	200	✓	x	x											
4		221	175	✓	x	x											
5		222	150	✓	x	x											
6		223	125	✓	x	x											
7		224	100	✓	x	xx											
8		225	75	✓	x	xx											
9		226	50	✓	x	x											
10		227	40	✓	xx	x											
11		228	30	✓	x	x											
12		229	20	✓	x	x		x									
13		230	10	✓	x	x		x									
14		231	5	✓	x	x		xx									
15		232	0	✓ 2.4	xx	x		x	xx	x	x						
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 313 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0812	0912
Bottom	0818	
End	0838	

Positional Information

Start	Lat: 49 ° 53.026 N
	Lon: 124 ° 59.646 W
Bottom	Lat: 49 ° 53.026 N
	Lon: 124 ° 59.678 W
End	Lat: 49 ° 53.026 N
	Lon: 124 ° 59.683 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 12 Event #: 79 Ship: Vector UTC Date (dd mmm yyyy): 4 10 19

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	OXY	NUTS	Sal	DIC	Chi_a	HPLC	DA	PHYTO			
1		233	Bot-5	✓ 349	xx	x		x							Nutrient on deck until 13:33.
2		234	300	✓	xx	x	x								
3		235	250	✓	x	x		x							
4		236	200	✓	x	x		xx							
5		237	175	✓	x	x									
6		238	150	✓	x	x		x							
7		239	125	✓	x	x		x							
8		240	100	✓	x	xx		x							
9		241	75	✓	x	x		x							
10		242	50	✓	x	x		x							
11		243	40	✓	x	x		xx							
12		244	30	✓	x	x		x							
13		245	20	✓	x	x		x	x						
14		246	10	✓	x	x		x	xx						
15		247	5	✓	x	xx		x	x						
16		248	0	✓	x	x		x	x	xx	x	x			
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 352 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1145	0445
Bottom	1151	
End	1211	

Positional Information
Start
Lat: 49 ° 43 676 N
Lon: 124 ° 40 798 W

Bottom
Lat: 49 ° 43 687 N
Lon: 124 ° 40 805 W

End
Lat: 49 ° 43 686 N
Lon: 124 ° 40 800 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 9 Event #: 82 Ship: Vector UTC Date (dd mmm/yyyy): 4 10 19

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	NUTS	Sal	Chl_a	HPLC						
1		249	Bot-5	✓ 163	x	xx									
2		250	150	✓	x	x	x								
3		251	125	✓	x	x									
4		252	100	✓	x	xx									
5		253	75	✓	x	x									
6		254	50	✓	xx	x									
7		255	40	✓	xx	x									
8		256	30	✓	x	x									
9		257	20	✓	x	x		xx							
10		258	10	✓	x	x		x							
11		259	5	✓	x	x		x							
12		260	0	✓	x	x		x	xx						
13															
14															
15															
16															
17															
18															
19															
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21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): 4.7

Bottom Depth: 168 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1450	0750
Bottom	1453	
End	1508	

Positional Information
Start
Lat: 49 ° 35 489 N
Lon: 124 ° 38 312 W

Bottom
Lat: 49 ° 35 507 N
Lon: 124 ° 38 320 W

End
Lat: 49 ° 35 519 N
Lon: 124 ° 38 369 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 6 Event #: 85 Ship: Vector UTC Date (dd mmm yyyy): 4 10 19

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	NUTS	Sal	Chl_a	HPLC						
1		261	Bot-5	✓ 190	x	x									
2		262	175	✓	x	x	x								
3		263	150	✓	xx	x									
4		264	125	✓	x	x									
5		265	100	✓	x	x									
6		266	75	✓	x	x									
7		267	50	✓	x	xx									
8		268	40	✓	x	x									
9		269	30	✓	x	x									
10		270	20	✓	x	xx		x							
11		271	10	✓	xx	x		xx							
12		272	5	✓	x	x		x							
13		273	0	✓	x	x		x	xx						
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 193 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1750	1010
Bottom	1754	
End	1810	

Positional Information

Lat:	49 ° 30 605	N
Lon:	124 ° 27 784	W

Start

Lat:	49 ° 30 616	N
Lon:	124 ° 27 761	W

Bottom

Lat:	49 ° 30 606	N
Lon:	124 ° 27 804	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2019-062

Station:

BS-17

Event #:

89

Ship:

Vector

UTC Date (dd mmm/yyyy):

04 OCT 2019

Cruise ID: 2019-062			Station: BS-17		Event #: 87													Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

R

Bottom Depth:

55 m

Transmisso Cleaned:

Y / N

Time

UTC

Local

Start

2036

1336

Bottom

2037

1337

End

2044

1344

Positional Information

Lat:

49 ° 28.866 N

Lon:

124 ° 46.042 W

Start

Lat:

49 ° 28.872 N

Bottom

Lon:

124 ° 46.040 W

End

Lat:

49 ° 28.888 N

Lon:

124 ° 46.040 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-062 Station: 3 Event #: 91 Ship: Vector UTC Date (dd mmm yyyy): 04 OCT 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	OXY	NUTS	Sal	Chl_a	HPLC						
1		282	Bot-5	✓ 319	x	x									
2		283	300	✓ 300	x	x	x								
3		284	250	✓ 250	x	x									
4		285	200	✓ 200	x	x									
5		286	175	✓ 175	x	x									
6		287	150	✓ 150	xx	x									
7		288	125	✓ 125	x	x									
8		289	100	✓ 100	x	x									
9		290	75	✓ 75	x	xx									
10		291	50	✓ 50	xx	xx									
11		292	40	✓ 40	x	x									
12		293	30	✓ 30	x	x									
13		294	20	✓ 20	x	x		x							
14		295	10	✓ 10	x	x		xx							
15		296	5	✓ 5	x	x		x							
16		297	0	✓ 2.2	x	x		x	xx						
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 320 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2318	1618
Bottom	2323	1623
End	2340	1640

Positional Information

Start	Lat: 49 ° 26.606 N
	Lon: 124 ° 20.218 W

Bottom

	Lat: 49 ° 26.581 N
	Lon: 124 ° 20.234 W

End

	Lat: 49 ° 26.585 N
	Lon: 124 ° 20.238 W

Extra comments: