

Water Properties Group

Sampling Log

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

Cruise ID: 2019-045 Station: GEO1 Event #: 142 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 2 | JUL | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments/	
			Target Pressure	Confirmed ✓ Pressure	Sal	Chl	HPLC	Phyto	Nuts							Event number
1		1	b-10		xx				x							* distance (m): EVENT # 1 57"
2		2	0			x	xx		x							EVENT # 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 ☐ TRM ☒ X-Niskin ☐ other?

Watchkeeper(s): MB

Bottom Depth: 404 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2207	1507
Bottom	2217	
End	2225	

Positional Information

Start

Lat: 49 ° 14 991 N

Lon: 123 ° 45 346 W

Bottom

Lat: 49 ° 15 010 N

Lon: 123 ° 45 379 W

End

Lat: 49 ° 15 019 N

Lon: 123 ° 45 377 W

Extra comments:

* measure and record distance of niskin from SAL sensor on CTD (in m) - can be attached immediately above CTD before cast starts

Water Properties Group

Sampling Log

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

Cruise ID: 2019-045 Station: 3 Event #: 45 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 3 | Jul | 2019

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed √	Pressure	Sal	Chl	HPLC	Phyto	Nuts								
1		3	0				x	xx		xx								
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
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14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 325 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	14 33	07 33
Bottom	14	
End	14	

Positional Information
Start
Lat: 49 ° 26 600 N
Lon: 124 ° 20 281 W

Bottom
Lat: 49 ° 26 N
Lon: 124 ° 20 W

End
Lat: 49 ° 26 N
Lon: 124 ° 20 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-045 Station: 6 Event #: 7 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 3 | Jul | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Sal	Chl	HPLC	Phyto	Nuts									
1		41	0				x	xx		x								
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
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14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Watchkeeper(s): MB

Bottom Depth: 192 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1526	0826
Bottom		
End		

Positional Information

Start

Lat: 49 ° 30 631 N

Lon: 124 ° 27 817W

Bottom

Lat: 49 ° N

Lon: 124 ° W

End

Lat: 49 ° N

Lon: 124 ° W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-045 Station: BS-11 Event #: 11 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 3 | Jul | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓	Pressure	Sal	Chl	HPLC	Phyto	Nuts								
1		5	0				x	xx	x	xx								
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
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16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: (507)
ROS TRM X-Niskin other?
Watchkeeper(s): MB

Bottom Depth: 58 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1752	1052
Bottom		
End		

Positional Information
Start
Lat: 49 ° 29 011 N
Lon: 124 ° 45 990 W

Bottom
Lat: 49 ° N
Lon: 124 ° W

End
Lat: 49 ° N
Lon: 121 ° W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-045 Station: 9 Event #: 14 Ship: Neocaligus UTC Date (dd mmm yyyy): 3 JUL 2019

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓	Pressure	Sal	Chl	HPLC	Phyto	Nuts						
1		6	0				xx	xx		xx						
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
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20																
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22																
23																
24																

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

Bottom Depth: 166 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1938	1238
Bottom		
End		

Positional Information
Start
Lat: 49 ° 35 49.7 N
Lon: 124 ° 38 30.4 W

Bottom
Lat: ° N
Lon: ° W

End
Lat: ° N
Lon: ° W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure	Sal	Chl	HPLC	Phyto	Nuts								
1		7	b-10			xx				x						EVENT # 17	* distance (m): 117cm
2		8	0				xx	xx	x	x						EVENT # 18	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Watchkeeper(s): MB

Bottom Depth: 355 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2141	
Bottom		
End		

Positional Information

Lat: 49 ° 43 629 N

Lon: 124 ° 40 851 W

Lat: 49 ° 43 N

Lon: 124 ° 4 W

Lat: 49 ° 43 N

Lon: ° W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-045 Station: 22 Event #: 20 + 21 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 4 | JUL | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure	Sal	Chl	HPLC	Phyto	Nuts								
1		9	b-10			xx				x						EVENT # 20	* distance (m): 136cm
2		10	0				x	xx	x	xx						EVENT # 21	
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
ROS TRM X-Niskin other?
Watchkeeper(s): MB

Bottom Depth: 136 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1457	0757
Bottom		
End		

Positional Information
Start
Lat: 49° 40' 22.3" N
Lon: 124° 16' 34.3" W

Bottom
Lat: ° N
Lon: ° W

End
Lat: ° N
Lon: ° W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-045 Station: 2 Event #: 28 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 4 | Jul | 2019

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed		Sal	Chl	HPLC	Phyto	Nuts									
				✓	Pressure														
1		11	0				xx	xx	x	x									
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
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14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 275 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1924	1224
Bottom		
End		

Positional Information
Start
Lat: 49° 24' 105" N
Lon: 124° 9' 325" W

Bottom
Lat: ° N
Lon: ° W

End
Lat: ° N
Lon: ° W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-045 Station: 28 Event #: 32 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 4 | JUL | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Sal	Chl	HPLC	Phyto	Nuts						
1		12	0			xx			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: 301
ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 132 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2208	1508
Bottom		
End		

Positional Information

Start

Lat: 49 ° 24 125 N
Lon: 123 ° 45 464W

Bottom

Lat: ° N
Lon: ° W

End

Lat: ° N
Lon: ° W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-045 Station: 27 Event #: 35 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 4 | Jul | 2019

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed		Sal	Chl	HPLC	Phyto	Nuts									
				✓	Pressure														
1		13	0				xx	xx	x	x									
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
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15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 347 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2257	
Bottom		
End		

Positional Information

StartLat: 49 ° 19 131 N
Lon: 123 ° 48 139 W

Start

BottomLat: ° N
Lon: ° W

Bottom

EndLat: ° N
Lon: ° W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-045 Station: 39 Event #: 38 + 39 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 5 | Jul | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Sal	Chl	HPLC	Phyto	Nuts						
1		14	b-10		xx				x						* distance (m): 125cm
2		15	0			x	xx		x						
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
ROS TRM X-Niskin other?
Watchkeeper(s): MB

Bottom Depth: 377 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	<u>1627</u>	
Bottom		
End		

Positional Information
Lat: 49 ° 9 832 N
Lon: 123 ° 33 990 W

Start

Bottom

End

Lat: ° N
Lon: ° W

Lat: ° N
Lon: ° W

Extra comments:
MEASURE SAL.
BOT ABOVE CTD

Water Properties Group

Sampling Log

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

Cruise ID: 2019-045 Station: 42 Event #: 46 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 5 | Jul | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Sal	Chl	HPLC	Phyto	Nuts						
1		16	b-10		xx				xx						* distance (m): 142cm
2		17	0			x	xx	x	x						
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): MB

Bottom Depth: 318 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2017	
Bottom		
End		

Positional Information

Start

Lat: 49 ° 1 79 N

Lon: 123 ° 26 30 W

Bottom

Lat: ° N

Lon: ° W

End

Lat: ° N

Lon: ° W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-045 Station: 46 Event #: 48 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 5 | JUL | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments/ Event number
			Target Pressure	Confirmed ✓ Pressure	Sal	Chl	HPLC	Phyto	Nuts						
1		18	0			xx	xx		x						
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 TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 2213 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Lat: 48 ° 51 47 N

Lon: 123 ° 10 53 W

Start
Bottom
End

Lat: ° N

Lon: ° W

Lat: ° N

Lon: ° W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-045 Station: 56 Event #: 51 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 5 | JUL | 2019

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed		Sal	Chl	HPLC	Phyto	Nuts									
				✓	Pressure														
1		19	0				xx	xx		x									
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: (Bot) ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 208 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2338	
Bottom		
End		

Positional Information

StartLat: 48 ° 46 479 N

StartLon: 123 ° 1 524 W

BottomLat: ° N

BottomLon: ° W

EndLat: ° N

EndLon: ° W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-045 Station: 59 Event #: S3 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 6 | Jul | 2019

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments			
			Target	Confirmed	Pressure	Sal	Chl	HPLC	Phyto	Nuts									
			Pressure	√		Pressure													
1		20	0				x	xx		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
ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 234 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1524	
Bottom		
End		

Positional Information

Start

Lat: 48 ° 36 931 N

Lon: 123 ° 14 910 W

Bottom

Lat: ° N

Lon: ° W

End

Lat: ° N

Lon: ° W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-045 Station: SC-04 Event #: 58 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 6 | JUL | 2019

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed ✓	Pressure	Sal	Chl	HPLC	Phyto	Nuts									
1		21	0				x	xx	X	x									
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
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16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: Bot
ROS TRM X-Niskin other?

Watchkeeper(s): MB MB

Bottom Depth: 84 m

Transmisso Cleaned: Y + N

Time	UTC	Local
Start	1757	
Bottom		
End		

Positional Information

Lat: 48° 43' 509" N

Lon: 123° 25' 815" W

Start

Lat: ° N

Lon: ° W

Bottom

Lat: ° N

Lon: ° W

End

Extra comments: