

Station	Lat	mn	Lon	mn	Bottom Depth (m)	Stn time (min)	Sampling	Comment	SAL bottom - 10m	CHLa - 0m	HPLC - 0m	Phyto - 0m	POM - SI (2L) 0m	POM - FA (10L) 0-5 m	Size-fraction zoop	SAL for DIC samples	Nuts for DIC samples	DIC - full (8 depths)	OXY, for DIC
59	48	36.96	-123	14.978	225	20	CTD, net, water	chandler ROS time permitting		1	1		1	1	1				
SC-04	48	43.5	-123	25	90	15	CTD, net, water		1	1	1	1			1				
CBE2	48	44.22	-123	34.45	65	10	CTD, net								1				
GI-01	48	45.86	-123	20.53	65	10	CTD, net												
56	48	46.4	-123	1.6	214	20	CTD, water	chandler ROS time permitting		1	1								
46	48	51.4	-123	10.8	176	90	CTD, net, water	chandler ROS		1	1		1		1	8	8	8	8
42	49	1.8	-123	26.2	326	30	CTD, water	chandler ROS		1	1	1							
41	49	3.3	-123	22.3	245	25	CTD, net, water + SAL						1	1	1				
108	49	4.4	-123	19.1	90	5	CTD	fills in S fraser. Low priority											
40	49	8.6	-123	36.8	146	25	CTD, net												
39	49	9.8	-123	33	388	25	CTD, water	chandler ROS		1	1								
38	49	12	-123	26.4	300	30	CTD, net, water + SAL		X				1		1				
✓ GEO1	49	15	-123	45	400	90	CTD, net, water + SAL			1	1		1	1	1	8	8	8	8
27	49	19.1	-123	48	347	30	CTD, water	chandler ROS		1	1	1							
28	49	24.1	-123	45.3	134	30	CTD, net, water			1			1		1				
CPF1	49	22	-124	5	245	25	CTD, net, water						1	1	1				
2	49	24.1	-124	9.3	289	25	CTD, water	chandler ROS		1	1	1							
3	49	26.6	-124	20.2	327	30	CTD, water	chandler ROS		1	1								
✓ BS-11	49	29	-124	46	58	10	CTD, net, water			1	1	1	1		1				
24	49	30.3	-124	6	425	45	CTD, net, water + SAL		X				1		1				
CPF2	49	28	-124	30	325	90	CTD, net, water + SAL						1	1	1	8	8	8	8
6	49	30.6	-124	27.8	192	20	CTD, water	chandler ROS		1	1								
9	49	35.5	-124	38.3	170	15	CTD, water	chandler ROS		1	1								
IS-2	49	38.2	-124	5	30	10	CTD, net												
22	49	40.2	-124	16.3	353	30	CTD, net, water + SAL	chandler ROS		1	1	1	1	1	1				
11	49	42.4	-124	43.4	290	30	CTD, net, water						1	1	1				
12	49	43.6	-124	40.8	357	35	CTD, water	chandler ROS		1	1	1							
20	49	47.2	-124	32.3	311	15	CTD	fills in N Malaspina. Low priority											
Dups?									200%	120%	200%					110%	110%	110%	110%
Total #									4	19	30	7	13	7	14	26	26	26	26

* half for size-fraction, half in ethanol

Water Properties Group

Sampling Log

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

Cruise ID: 2019-007 Station: GEO1 Event #: 3 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 4 | Mar | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments/Event number	
			Target Pressure	Confirmed ✓ Pressure	Sal	Chl	HPLC	Phyto	POM-SI	POM-FA	DIC	Oxy	Nuts			
1	✓	1	b-10	✓ 390	x						x	x	x			190 ✓ 190
2		2	200	✓	x						x	x	x			
3		3	100	✓	x						x	xx	x			290 ✓ 100
4		4	75	✓	xx						x	x	x			305 ✓ 25
5		5	50	✓	x						xx	x	x			340 ✓ 25
6		6	20	✓	x						x	x	xx			370 ✓ 25
7		7	5	✓	x						x	x	x			305 ✓ 15
8		8	0	✓	x						x	x	x			390 ✓ 5
9		9	0			x	xx									event 4 0
10		1	0						x							1 1 1 - No sample #
11		10	5-0							x						2-5L Niskins mixed, 1@5m, 1@0m
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:	ROS TRM X-Niskin <u>other?</u>
Watchkeeper(s):	KY

Bottom Depth:	400 m
Transmisso Cleaned:	Y / N

Time	UTC	Local
Start		
Bottom/MR	21:25	
End		

for this Pom-SI

Positional Information		
Lat:	°	N
Lon:	°	W

▼

Lat:	49 °	15.009 N
Lon:	123 °	45.414 W

▼

Lat:	°	N
Lon:	°	W

chl a 304ml HPLC - 1985 1460 ml

Extra comments:
1-8 = 5L Niskins chained together on wire
9 + 10 = 0+5m fired at one time
POM-SI - Niskin on pole.

Water Properties Group

Sampling Log

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

Cruise ID: 2019-007 Station: BS-11 Event #: 6+7 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 5 | Mar | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed Pressure	Sal	Chl	HPLC	Phyto	POM-SI	POM-FA							
1		11	0			x	xx	x									event 7
2		12	0						x								event 6
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):	KY

Bottom Depth:	63 m
Transmisso Cleaned:	Y / N

Time	UTC	Local
Start	15:32	#6
Bottom	15:34	#7
End		

Positional Information	
Lat:	49 ° 29.007 N
Lon:	124 ° 45.905 W

#6

Lat:	49 ° 29.010 N
Lon:	124 ° 45.907 W

#7

Lat:	° N
Lon:	° W

Extra comments:
chl - a 304 mL
HPLC - 1040 mL

Water Properties Group

Sampling Log

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

Cruise ID: 2019-007 Station: CPF2 Event #: 10, 12-13 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 5 | Mar | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments/	
			Target Pressure	Confirmed ✓ Pressure	Sal	Chl	HPLC	Phyto	POM-SI	POM-FA	DIC	Oxy	Nuts			Event number
1		13	b-10	✓	323	x					x	x	x			event 12
2		14	200	✓		xx					x	x	x			2-123
3		15	100	✓		x					x	xx	x			2-100
4		16	75	✓		x					x	x	xx			2-25
5		17	50	✓		x					x	x	x			2-25
6		18	20	✓		x					xx	x	x			2-30
7		19	5	✓		x					x	x	x			2-15
8		20	0	✓		x					x	x	x			2-5
9		21	0	✓					x							event 10
10		22	5-0	✓						x						2-5L Niskins mixed, 1@5m, 1@0m
11																event 13
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth:	333 m
Transmissometer Cleaned:	(Y) N

Time	UTC	Local
Start	17:45	#12
Bottom	18:10	#13
End		

Positional Information	#12
Lat:	49 ° 27.996 N
Lon:	124 ° 29.988 W

Lat:	° N
Lon:	° W

Lat:	° N
Lon:	° W

Extra comments:
0-20 m fired together msg. didn't go
fired last bottles @17:50
49 27.995
124 29.991

ch1 - on 304 mt

Water Properties Group

Sampling Log

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

Cruise ID: 2019-007 Station: 3 Event #: 15 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 5 | Mar | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓	Pressure	Sal	Chl	HPLC	Phyto	POM-SI	POM-FA					
1		23	0				x	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 TRM X-Niskin ~~other?~~

Watchkeeper(s): KY

Bottom Depth: 328 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	18:56	10:56
Bottom		
End		

Positional Information

Start

Lat: 49 ° 26.595 N

Lon: 124 ° 20.181 W

Bottom

Lat: ° N

Lon: ° W

End

Lat: ° N

Lon: ° W

Extra comments:

chl a 304mL HPLC 1040mL

Water Properties Group

Sampling Log

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

Cruise ID: 2019-007 Station: 6 Event #: 17 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 5 | Mar | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Sal	Chl	HPLC	Phyto	POM-SI	POM-FA					
1		24	0	☒		x	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 TRM X-Niskin other?

Watchkeeper(s): KY

Bottom Depth: 196 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	20:03	12:03
Bottom		
End		

Positional Information MR

Lat: 49 ° 30.601 N

Lon: 124 ° 27.781 W

Start

Lat: ° N

Lon: ° W

Bottom

Lat: ° N

Lon: ° W

End

Extra comments:

chl a - 304mL

HPLC - 1040mL

cl

Water Properties Group

Sampling Log

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

Cruise ID: 2019-007 Station: 9 Event #: 19 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 5 | Mar | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ☒ Pressure	Sal	Chl	HPLC	Phyto	POM-SI	POM-FA						
1		25	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:
ROS TRM X-Niskin other?

Watchkeeper(s): KY

Bottom Depth: 173 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	21:07	13:07
Bottom		
End		

Positional Information

Start

Lat: 49 ° 35.491 N

Lon: 124 ° 38.300 W

Bottom

Lat: ° N

Lon: ° W

End

Lat: ° N

Lon: ° W

Extra comments:

chl-a 304mL

HPLC 1040mL

Water Properties Group

Sampling Log

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

Cruise ID: 2019-007 Station: 11 Event #: 21-22 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 5 | Mar | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments				
			Target Pressure	Confirmed ✓ Pressure	Sal	Chl	HPLC	Phyto	POM-SI	POM-FA							
1		26	5-0	✓						x							2-5L Niskins mixed, 1@5m, 1@0m
2		27	0	✓					x								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 TRM X-Niskin other?

Watchkeeper(s): KY

Bottom Depth: 306 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start # 21	22:06	14:06
Bottom # 22	22:22	14:22
End		

Positional Information

Start

Lat: 49 ° 42.397 N # 21

Lon: 124 ° 43.402 W

Bottom

Lat: 49 ° 42.390 N # 22

Lon: 124 ° 43.416 W

End

Lat: ° N

Lon: ° W

Extra comments:

pom-si 2L

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒	Pressure	Sal	Chl	HPLC	Phyto	POM-SI	POM-FA					
1		28	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): KY

Bottom Depth: 361 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	23:05	15:05
Bottom		
End		

Positional Information

Start

Lat: 49 ° 43.595 N

Lon: 124 ° 40.815 W

Bottom

Lat: ° N

Lon: ° W

End

Lat: ° N

Lon: ° W

Extra comments:

HPLC - 1660 mL

chl-a - 304 mL

Water Properties Group

Sampling Log

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

Cruise ID: 2019-007 Station: 22 Event #: 28-30 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 6 | Mar | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Sal	Chl	HPLC	Phyto	POM-SI	POM-FA					
1		31	5-0	✓						x					2-5L Niskins mixed, 1@5m, 1@0m
2		29	0	✓					x						event 28
3		30	0	✓		x	xx	x							event 29
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): KY

Bottom Depth: 353 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start 28	16:41	
Bottom 29	16:41	
End 30	16:59	

Positional Information

Lat: 49 ° 40.197 N

Lon: 124 ° 16.288 W

Lat: ° N

Lon: ° W

Lat: 49 ° 40.190 N

Lon: 124 ° 16.290 W

Extra comments:

HPLC -

chl-a - 304 mL

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Sal	Chl	HPLC	Phyto	POM-SI	POM-FA					
1			b-10		xx										*only needed if no other SALs collected on the day
2		32	0	✓					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 TRM X-Niskin ~~other?~~

Watchkeeper(s): KY

Bottom Depth: 431 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	19:09	
Bottom		
End		

Positional Information

Start

Lat: 49 ° 30.291 N

Lon: 124 ° 5.988 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	POM-SI	POM-FA					
1		33	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): KY

Bottom Depth: 281 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	20:31	12:31
Bottom		
End		

Positional Information

Start

Lat: 49 ° 24.698 N

Lon: ° W

Bottom

Lat: ° N

Lon: ° W

End

Lat: ° N

Lon: ° W

Extra comments:

chl-a - 304 mL
HPLC - 1040 mL

Water Properties Group

Sampling Log

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

Cruise ID: 2019-007 Station: CPF1 Event #: 40-41 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 6 | Mar | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	Sal	Chl	HPLC	Phyto	POM-SI	POM-FA						
1		35	5-0	✓						x						2-5L Niskins mixed, 1@5m, 1@0m
2		34	0	✓					x							event 40
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): KY

Bottom Depth: 249 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start #40	21:07	
Bottom #41	21:20	
End		

Positional Information

Start

Lat: 49 ° 21.992 N

Lon: 124 ° 4.979 W

Bottom

Lat: 49 ° 22.001 N

Lon: 124 ° 4.985 W

End

Lat: ° N

Lon: ° W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2019-007 Station: 28 Event #: 44-45 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 6 | Mar | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure	Sal	Chl	HPLC	Phyto	POM-SI	POM-FA							
1		36	0	✓					x								event 44
2		37	0	✓			x x	xx									event 45
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): KY

Bottom Depth: 138 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	44 22:59	14:59
Bottom	45 23:01	15:01
End		

Positional Information

StartLat: 49 ° 24.103 N
Lon: 123 ° 45.289 W

BottomLat: 49 ° 24.102 N
Lon: 123 ° 45.291 W

EndLat: ° N
Lon: ° W

Extra comments:
chl-a = 304 mC

Water Properties Group

Sampling Log

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

Cruise ID: 2019-007 Station: 27 Event #: 48 Ship: Neocaligus UTC Date (dd/mmm/yyyy): 6 Mar 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓	Pressure	Sal	Chl	HPLC	Phyto	POM-SI	POM-FA					
1		38	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): KY

Bottom Depth: 351 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	23:54	15:54
Bottom		
End		

Positional Information

Start

Lat: 49 ° 19.102 N

Lon: 123 ° 48.022 W

Bottom

Lat: ° N

Lon: ° W

End

Lat: ° N

Lon: ° W

Extra comments:

chl-a 304mL

HPLC- 1040mL

Water Properties Group

Sampling Log

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

Cruise ID: 2019-007 Station: 39 Event #: 52 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 7 | Mar | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ☒ Pressure	Sal	Chl	HPLC	Phyto	POM-SI	POM-FA						
1		39	0	☒		x	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 TRM X-Niskin other?

Watchkeeper(s): KY

Bottom Depth: 382 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	17:15	9:15
Bottom		
End		

Positional Information

StartLat: 49 ° 9.804 N
Lon: 123 ° 33.018 W

BottomLat: ° N
Lon: ° W

EndLat: ° N
Lon: ° W

Extra comments:

chl-a 304 mL
HPLC - 1040 mL

Water Properties Group

Sampling Log

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

Cruise ID: 2019-007 Station: 38 Event #: 54 Ship: Neocaligus UTC Date (dd|mmm|yyyy): 7 | Mar | 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ☒ Pressure	Sal	Chl	HPLC	Phyto	POM-SI	POM-FA						
1		41	b-10		xx											*only needed if no other SALs collected on the day
2		40	0	☒					x							
3																
4																
5																
6																
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21																
22																
23																
24																

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): KY

Bottom Depth: 312 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	18:01	
Bottom		
End		

Positional Information

Lat: 49 ° 12.010 N

Lon: 123 ° 26.407W

Start

Bottom

Lat: ° N

Lon: ° W

End

Lat: ° N

Lon: ° W

Extra comments: