

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: Haro 59 Event #: 2 Ship: Laurier UTC Date (dd mmm yyyy): 09 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	Nut-fr	Sal	CHL	HPLC	Phyto	DA				
1		1	Bot-5	✓ 224	x	x									
2		2	200	✓ 199	x	x									
3		3	100	✓ 105	x	x									
4		4	75	✓ 75	x	x									
5		5	50	✓ 50	x	xx									
6		6	40	✓ 40	xx	x									
7		7	30	✓ 30	x	x		x							
8		8	20	✓ 20	x	xx		x							
9		9	10	✓ 10	x	x		x							
10		10	5	✓ 5	xx	x		xx							
11		11	0	✓ 1	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): N2

Bottom Depth: 229 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	05:04	22:04
Bottom	05:09	
End	05:24	

Positional Information
Start
Lat: 48 ° 36 890 N
Lon: 123 ° 14 851 W

Bottom
Lat: 48 ° 36 934 N
Lon: 123 ° 14 849 W

End
Lat: 48 ° 37 238 N
Lon: 123 ° 14 903 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39

Station: JF2

Event #: 05

Ship: Laurier

UTC Date (dd mmm yyyy): 09 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-F	Chl	HPLC	DIC	DA	Phyto	UBC gases				
1	✓	12	Bot-5	✓ 184	x		x x										
2	✓	13	100	✓ 101	x		x										
3	✓	14	75	✓ 75	x		x										
4	✓	15	50	✓ 50	x x		x										
5	✓	16	40	✓ 41	x		x										
6	✓	17	30	✓ 30	x		x x	x									
7	✓	18	20	✓ 19	x		x	x x									
8	✓	19	10	✓ 11	x		x	x									
9	✓	20	5	✓ 5	x		x	x					x x				
10	✓	21	0	✓ 1	x x		x	x	x x		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): GC/Ky/M

Bottom Depth: 188 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1205	5:05
Bottom	1208	
End	1223	

Positional Information

Start	Lat: 49° 17.88	N
	Lon: 124° 00.35	W

Bottom

Lat: 49° 17.88	N
Lon: 124° 00.35	W

End

Lat: 49° 17.85	N
Lon: 124° 00.37	W

Extra comments:
Had to wait @ surface
while bridge reorientated ship

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LB01 Event #: 6 Ship: Laurier UTC Date (dd:mmm:yyyy): 09 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	DIC	UBC gases	Ions			
1	1	22	Bot-10	✓ 20	x		x		x			x		x			
2	2	23	20	✓ 20	x		x		xx		xx	x		x			
3	3	24	10	✓ 10	x		x		x		xx	x		xx			
4	4	25	5	✓ 5	x	x	x					xx	xx	x			
5	5	26	5	✓ 5					xx	xx	xx						
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): GC

Bottom Depth: 36 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1709	1009
Bottom	1711	
End	1715	

Positional Information
Start
Lat: 48 ° 40 40 N
Lon: 124 ° 59 84 W

Bottom
Lat: 48 ° 40 39 N
Lon: 124 ° 59 84 W

End
Lat: 48 ° 40 35 N
Lon: 124 ° 59 85 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LB02 Event #: 7 Ship: Laurier UTC Date (dd mmm yyyy): 09 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	Phyto	DA					
1	1	27	Bot-1C	✓	45	x		x		x			x x						
2	2	28	30	✓	30	x		x		x x			x x						
3	3	29	20	✓	20	x x		x		x			x x	x x					
4	4	30	10	✓	10	x		x		x			x x	x x					
5	5	31	5		5	x		x x		x			x x	x x	x x x	x			TOP cap didn't close, layard caught
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): GCBottom Depth: 56 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1755	1055
Bottom	1756	
End	1801	

Positional Information
Start
Lat: 48 ° 39.04 N
Lon: 125 ° 02.35 WBottom
Lat: 48 ° 39.04 N
Lon: 125 ° 02.35 WEnd
Lat: 48 ° 39.65 N
Lon: 125 ° 02.35 WExtra comments:
Missed HPLC samples
& already had damaged water. Sorry Minor

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LB03 Event #: 8 Ship: Laurier UTC Date (dd/mmm/yyyy): 09 May 2008

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓	Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC		
1	1	32	5	✓	5			x		xx	xx				Fluo:
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): GC

Bottom Depth: 95 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1836	1136
Bottom	1839	
End	1842	

Positional Information
Start
Lat: 48 ° 37.29 N
Lon: 125 ° 5.67 W

Bottom
Lat: 48 ° 37.29 N
Lon: 125 ° 5.68 W

End
Lat: 48 ° 37.29 N
Lon: 125 ° 5.70 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39

Station: LB04

Event #: 9

Ship: Laurier

UTC Date (dd mmm yyyy): 09 MAY 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4				
1		33	Bot-10	✓ 103	x										
2		34	75	✓ 75	x x										
3		35	50	✓ 50	x		x x		x						
4		36	30	✓ 30	x		x		x						
5		37	20	✓ 20	x		x		x		x x				
6		38	10	✓ 10	x		x		x x		x x				
7		39	5	✓ 5	x		x		x	x x	x x				Fluo:
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): N2

Bottom Depth: 113 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	20:37	13:37
Bottom	20:39	
End	20:48	

Positional Information

Lat:	48 ° 35 645 N
Lon:	125 ° 8 760 W

Start

▼

Lat:	48 ° 35 632 N
Lon:	125 ° 8 758 W

Bottom

▼

Lat:	48 ° 35 587 N
Lon:	125 ° 8 766 W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LB06 E1 Event #: 12 Ship: Laurier UTC Date (dd mmm yyyy): 09 MAY 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	UBC	DIC		
			Pressure	✓ Pressure	HR/W		HR		N ⁻	N ⁻		gases	TV/DO		
1		40	Bot-10	✓	112	x		x					x		
2		41	20	✓	20	x x		x					x		
3		42	10	✓	10	x		x x					x		
4		43	5	✓	5	x		x					xx		
5		44	0	✓	2	x		x		x x	xx		x		
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): N2

Bottom Depth: 115 m
Transmisso Cleaned: Y / N

Time	UTC	Local
2226	1526	
2229	1529	
2237		

Positional Information

Lat:	48 ° 31.724	N
Lon:	125 ° 3.913	W

Start

Bottom

End

Lat: 48 ° 31.733 N
Lon: 125 ° 3.932 W

Lat: 48 ° 31.801 N
Lon: 125 ° 4.009 W

Extra comments:
extra rosette for
Matt's DIC/humacino

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LB05 Event #: 13 Ship: Laurier UTC Date (dd mmm yyyy): 9 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	UBC			
1		4540	5	☒			X		XX	XX						Fluo: 13
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): NL

Bottom Depth: 102 m

Transmisso Cleaned: Y / ☒ N

Time	UTC	Local
Start	23:36	16:36
Bottom	23:38	
End	23:41	

Positional Information

Start

Lat: 48 ° 33.974 N

Lon: 125 ° 12.074 W

Bottom

Lat: 48 ° 33.970 N

Lon: 125 ° 12.106 W

End

Lat: 48 ° 33.97 N

Lon: 125 ° 12.14 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LB06 Event #: 14 Ship: Laurier UTC Date (dd mmm yyyy): 10 MAY 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	UBC					
				✓	TF/ML						MG	gases					
1		4146	Bot-1C	✓	103	x		x									
2		4247	100	✓	100	x x		x									
3		4348	75	✓	75	x		x x									
4		4449	50	✓	49	x		x	x								
5		4550	30	✓	30	x		x	x x								
6		4651	20	✓	20	x		x	x		x x						
7		4752	10	✓	10	x		x	x		x x						
8		4853	5	✓	5	x		x	x	x x	x x						Fluo: ~ 14
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): N2

Bottom Depth: 115 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0017	1717
Bottom	0019	
End	0029	

Positional Information
 Start
 Lat: 48 ° 32.246 N
 Lon: 125 ° 15.509 W

Bottom
 Lat: 48 ° 32.244 N
 Lon: 125 ° 15.530 W

End
 Lat: 48 ° 32.22 N
 Lon: 125 ° 15.65 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2018-39

Station:

LB07

Event #:

21

Ship:

Laurier

UTC Date (dd mmm yyyy):

10 MAY 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	UBC				
1		54	5	☒			x		xx	xx							Fluo: -2
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): N2

Bottom Depth: 157 m
 Transmisso Cleaned: Y N

Time	UTC	Local
Start	05:05	22:05
Bottom	05:08	22:08
End	05:12	22:12

Positional Information

Start	Lat: 48 ° 28.744 N	Lon: 125 ° 21.985 W
Bottom	Lat: 48 ° 28.746 N	Lon: 125 ° 22.007 W
End	Lat: 48 ° 28.758 N	Lon: 125 ° 22.007 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2018-39

Station:

LB08

Event #:

28

Ship:

Laurier

UTC Date (dd mmm yyyy):

10 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	DIC	Gases UBC	UVic	bugs	Ions		
1	1	55	Bot-10	✓ 129	x		x					x				x		
2	2	56	125	✓ 125	x x		x									x		
3	3	57	100	✓ 100							x							NH4 blank water 4L
4	4	58	100	✓ 100	x		x x					x		x		x		
5	5	59	75	✓ 75	x		x					x x		x		x		
6	6	60	50	✓ 50	x		x		x			x		x		x x		
7	7	61	30	✓ 30	x		x		x			x x				x		
8	8	62	20	✓ 20	x		x		x		x x	x		x		x		
9	9	63	10	✓ 10	x		x		x x		x x	x		x		x		
10	10	64	5	✓ 5	x	x	x					x	x x			x		
11	11	65	5	✓ 5					x	x x	x x			x				
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 139 m
Transmisso Cleaned: (P) N

Time	UTC	Local
Start	10:26	3:26
Bottom	10:30	
End	10:41	

Positional Information

Lat:	48 ° 25.26	N
Lon:	125 ° 28.66	W

Start

▼

Lat:	48 ° 25.28	N
Lon:	125 ° 28.64	W

Bottom

▼

Lat:	48 ° 25.32	N
Lon:	125 ° 28.62	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LB09

Event #: 29

Ship: Laurier

UTC Date (dd mmm yyyy): 10 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4				
1	1	66	Bot-10	✓ 140	x		x								
2	2	67	125	✓ 125	x		x x								
3	3	68	100	✓ 100	x		x								
4	4	69	75	✓ 75	x		x								
5	5	70	50	✓ 50	x		x		x						
6	6	71	30	✓ 30	x		x		x x						
7	7	72	20	✓ 20	x x		x		x		x x				
8	8	73	10	✓ 10	x		x		x		x x				
9	9	74	5	✓ 5	x		x		x	x x	x x				
10															Fluo:
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 150 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1141	0441
Bottom	1144	
End	1155	

Positional Information

Start	Lat: 48 ° 21.92 N
	Lon: 125 ° 34.85 W

Bottom

Lat: 48 ° 21.91 N
Lon: 125 ° 34.84 W

End

Lat: 48 ° 21.87 N
Lon: 125 ° 34.79 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LB10 Event #: 30 Ship: Laurier UTC Date (dd mmm yyyy): 10 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC			
1	1	75 20	5	✓ 5			x		x x	x x					Fluo: 5.5
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): GC

Bottom Depth: 153 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1250	550
Bottom	1253	
End	1257	

Positional Information

Start	Lat: 48 ° 18.52 N
	Lon: 125 ° 41.21 W
Bottom	Lat: 48 ° 18.52 N
	Lon: 125 ° 41.19 W
End	Lat: 48 ° 18.53 N
	Lon: 125 ° 41.17 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2018-39

Station:

LB11

Event #:

32

Ship:

Laurier

UTC Date (dd mmm yyyy):

10 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases			
1	1	76	Bot-10	✓ 196	x		x								
2	2	77	175	✓ 175	x		xx								
3	3	78	150	✓ 150	x		x								
4	4	79	125	✓ 125	x		x								
5	5	80	100	✓ 100	x		x								
6	6	81	75	✓ 75	x		x								
7	7	82	50	✓ 50	xx		x		x						
8	8	83	30	✓ 30	x		x		x						
9	9	84	20	✓ 20	x		x		xx		xx				
10	10	85	10	✓ 10	x		x		x		xx				
11	11	86	5	✓ 5	x	x	x		x	xx	xx				Fluo: 0.65
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

GC

Bottom Depth:

205 m

Transmisso Cleaned:

(Y) / N

Time

UTC

Local

Start

1414

715

Bottom

1418

End

1433

Positional Information

Lat:

48 ° 15.23

N

Lon:

125 ° 47.77

W

Start

Bottom

Lat:

48 ° 15.20

N

Lon:

125 ° 47.76

W

End

Lat:

48 ° 15.18

N

Lon:

125 ° 47.78

W

Extra comments:

+ LOOPS

CHL x2 SAL x1

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LB12 Event #: 33 Ship: Laurier UTC Date (dd mmm yyyy): 10 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	DA			
1		87	Bot-10	✓ 505	x		x	x								
2		88	400	✓ 400	x		xx	xx								
3		89	300	✓ 300	xx		x									
4		90	250	✓ 250	x		x									
5		91	250	✓ 250							xx					Ammonia water
6		92	200	✓ 200	x		x									
7		93	175	✓ 175	x		x									
8		94	150	✓ 150	x		x									
9		95	125	✓ 125	x		x									
10		96	100	✓ 100	x		x									
11		97	75	✓ 75	x		x									
12		98	50	✓ 50	x		xx		x							
13		99	30	✓ 29	x		x		xx							
14		100	20	✓ 20	x		x		x		xx					
15		101	10	✓ 10	xx		x		x		xx					
16		102	5	✓ 5	x		x		x	xx	xx	xxx	x			Fluo: 0.45
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 510.85 m
 Transmisso Cleaned: ① N

Time	UTC	Local
Start	1515	8:15
Bottom	1524	
End	1549	

Positional Information
 Start
 Lat: 48 ° 12.90 N
 Lon: 125 ° 51.88 W

Bottom
 Lat: 48 ° 12.88 N
 Lon: 125 ° 51.90 W

End
 Lat: 48 ° 12.91 N
 Lon: 125 ° 52.10 W

Extra comments:
~~Out-of-order~~
~~1 - 4; 16; 5 - 15~~

Water Properties Group

Sampling Log

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

Cruise ID:

2018-39

Station:

LB13

Event #:

34

Ship:

Laurier

UTC Date (dd mmm yyyy):

10 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4							
			Pressure	✓ Pressure														
1	1	103	5	✓ 5			x		x x	xx							Fluc: 1.2	
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): GC KY

Bottom Depth: 916 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	16:43	943
Bottom	17:01	10:01
End	17:17	10:17

Positional Information
 Start
 Lat: 48 ° 10.58 N
 Lon: 125 ° 56.04 W

Bottom
 Lat: 48 ° 10.62 N
 Lon: 125 ° 55.96 W

End
 Lat: 48 ° 10.67 N
 Lon: 125 ° 56.05 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LB14 Event #: 36 Ship: Laurier UTC Date (dd mmm yyyy): 10 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	UBC gases			
1	1	104	Bct 10	✓ 1163	x		x	x							
2	2	105	100	✓ 1000	xx	xx	x	x							
3	3	106	750	✓ 750	x	x	x	x							
4	4	107	500	✓ 501	x	x	xx	xx							
5	5	108	400	✓ 400	x		x	x							
6	6	109	300	✓ 300	x		x								
7	7	110	250	✓ 250	x		x								
8	8	111	200	✓ 201	x		x								
9	9	112	175	✓ 175	x		x								
10	10	113	150	✓	x		x								
11		114	125		xx		x								
12	12	115	100	✓ 100	x		x								Lensing, clipped niskin
13	13	116	75	✓	x		x								
14	14	117	50	✓ 50	x		x		x						
15	15	118	30	✓ 30	x		xx		x						
16	16	119	20	✓ 20	x		x		x		xx				
17	17	120	10	✓ 10	x		x		xx		xx				
18	18	121	5	✓ 5	x		x		x	xx	xx	xx			Fluo:
19	11	114	125	✓ 126	xx		x								
20															
21															
22															
23															
24															

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

Bottom Depth: 1173 m
Transmisso Cleaned: ☒ N

Time	UTC	Local
Start	1758	1058
Bottom	1818	
End	1855	

Positional Information
Start
Lat: 48 ° 08.54 N
Lon: 125 ° 59.86 W

Bottom
Lat: 48 ° 08.59 N
Lon: 125 ° 59.91 W

End
Lat: 48 ° 08.58 N
Lon: 125 ° 59.81 W

Extra comments:
1, 2, 3, 4, 5, 6, 7, 8, 9,
10, 11, 12, 13, 14, 15, 16,
17, 18

Water Properties Group

Sampling Log

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

Cruise ID:

2018-39

Station:

LB15

Event #: 37

Ship:

Laurier

UTC Date (dd:mmm:yyyy): 10 MAY 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4						
1	1	122	5	✓ 5			X			XX	XX						Fluo:
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):	N ²			

Bottom Depth:	1545	m
Transmisso Cleaned:	(Y) / N	

	UTC	Local
Start	20:09	13:09
Bottom	20:34	
End	21:00	

Positional Information		
Lat:	48 ° 4.301	N
Lon:	126 ° 8.440	W

Start

Lat:	48 ° 4.382	N
Lon:	126 ° 8.128	W

Bottom

Lat:	48 ° 4.375	N
Lon:	126 ° 7.882	W

End

Extra comments:
fixed bottles 11 + 24 to test integrity

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 **Station:** LB16

Event #: 40

Ship: Laurier

UTC Date (dd mmm yyyy): 10 MAY 2018

[illegible]

Profile type: ROS TRM X-Niskin other?
Watchkeeper(s): N2

Bottom Depth: 1824 m

Transmisso Cleaned: (Y) / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start	23:46	16:46
Bottom	00:15	17:15
End	0044	

Positional Information			
Start	Lat:	48 ° 00.500	N
	Lon:	126 ° 16.805	W

Bottom	Lat: 48 ° 00.550 N
	Lon: 126 ° 16.504 W

End	Lat: 48° 00.62	N
	Lon: 126° 16.28	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2018-39

Station:

LC11

Event #:

45

Ship:

Laurier

UTC Date (dd mmm/yyyy):

11 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments				
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases					
					GC				MA/RS	mm	mm	UBC	mm				
1	1	124	Bot-10	✓ 1470	x		x	x									
2	2	125	1250	✓ 1250	xx	x	x	x									
3	3	126	1000	✓ 998	x	xx	x	x									
4	4	127	750	✓ 748	x	x	xx	xx									
5	5	128	500	✓ 500	x	x	x	x									
6	6	129	400	✓ 400	x		x	x									
7	7	130	300	✓ 300	x		x										
8	8	131	250	✓ 250	x		x										
9	9	132	200	✓ 200	x		x										
10	10	133	175	✓ 175	x		x										
11	11	134	150	✓ 149	x		x										
12	12	135	125	✓ 125	xx		x										
13	13	136	100	✓ 100	x		x										
14	14	137	75	✓ 75	x		xx										
15	15	138	50	✓ 50	x		x		x								
16	16	139	30	✓ 30	x		x		x								
17	17	140	20	✓ 20	x		x		x		xx						
18	18	141	10	✓ 10	x		x		xx		xx						
19	19	142	5	✓ 5	x	x	x		x	xx	xx	xx					Loop 2 chl, Sal
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth:	1472 m
Transmissio Cleaned:	(Y) N

Time	UTC	Local
Start	7:03	00:03
Bottom	7:29	
End	8:18	

Positional Information	
Start	Lat: 48 ° 18.89 N
	Lon: 126 ° 26.61 W

Bottom	Lat: 48 ° 18.92 N
	Lon: 126 ° 26.60 W

End	Lat: 48 ° 18.97 N
	Lon: 126 ° 26.36 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LC09 Event #: 48 Ship: Laurier UTC Date (dd mmm yyyy): 11 May 2018

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials											Comments		
			Target	Confirmed	Pressure	Oxy	Ions	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	DIC	Uvic	phyto		DA	FA
			Pressure	✓		Pressure	GL	GL	GL	GL	R/60	MM	KN	UBC	MM	TV			MM
1	1	143	Bot-10	✓	607	x	x	x x	x x					x					
2	2	144	500	✓	500	x	x	x	x					x x					
3	3	145	400	✓	397	x	x	x	x					x					
4	4	146	300	✓	300	x	x	x						x x					
5	5	147	250	✓	250	x x	x	x						x	x				
6	6	148	200	✓	200	x	x	x						x					
7	7	149	175	✓	175	x	x x	x											
8	8	150	150	✓	151	x	x	x							x				
9	9	151	125	✓	125	x	x	x											
10	10	152	100	✓	100	x	x	x x						x					
11	11	153	75	✓	75	x	x	x											
12	12	154	50	✓	50	x	x	x		x				x	x				
13	13	155	30	✓	30	x x	x	x		x x				x					
14	14	156	20	✓	20	x	x	x		x		x x			x				
15	16	157	10	✓	10 13	x	x	x		x		x x		x	x				
16	17	158	5	✓	8 10	x	x					x x		x					
17	18	159	5	✓	5			x		x	x x	x x			x	x	x		
18	15	160	C Max	✓	13 5													x	
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 600 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	11:19	4:19
Bottom	11:30	
End	12:02	

Positional Information

Lat:	48 °	25.86	N
Lon:	126 °	13.72	W

Start

Positional Information

Lat:	48 °	25.90	N
Lon:	126 °	13.66	W

Bottom

Positional Information

Lat:	48 °	25.84	N
Lon:	126 °	13.74	W

End

Extra comments:
 OUT OF ORDER!
 Check for CHL MAX
 were not closed out
 of order.

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LC08 Event #: 52 Ship: Laurier UTC Date (dd mmm/yyyy): 10 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	DIC		
1	1	161	Bot-10	✓ 193	x		x						x		
2	2	162	175	✓ 174	x		x								
3	3	163	150	✓ 150	x		x								
4	4	164	125	✓ 126	x		x								
5	5	165	100	✓ 100	x		x						xx		
6	6	166	75	✓ 75	x		xx								
7	7	167	50	✓ 49	xx		x		x				x		
8	8	168	30	✓ 30	x		x		x				xx		
9	9	169	20	✓ 20	x		x		x		xx		x		
10	10	170	10	✓ 10	x		x		xx		xx		x		
11	11	171	5	✓ 4	x	x	x		x	xx	xx		x		
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): GC

Bottom Depth: 205 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1537	8:37
Bottom	1542	
End	1558	

Positional Information

Lat: 48 ° 29.41 N

Lon: 126 ° 07.19 W

Lat: 48 ° 29.40 N

Lon: 126 ° 07.20 W

Lat: 48 ° 29.48 N

Lon: 126 ° 07.15 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LC06 Event #: 56 Ship: Laurier UTC Date (dd mmm yyyy): 11 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	PIC	UBC	
1	1	172	Bot-10	✓	83	x		x					x		
2	2	173	75	✓	75	x		x					xx		
3	3	174	50	✓	50	xx		x		x			x		
4	4	175	30	✓	30	x		x		xx			xx		
5	5	176	20	✓	20	x		x		x	xx		x		
6	6	177	10	✓	10	x		xx		x	xx		x		
7	7	178	5	✓	5	x		x		x	xx	xx	x		Fluo: 0.8 0.5
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): GCBottom Depth: 95 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1816	1116
Bottom	1818	
End	1829	

Positional Information
Start
Lat: 48 ° 36.70 N
Lon: 125 ° 54.02 WBottom
Lat: 48 ° 36.71 N
Lon: 125 ° 53.99 WEnd
Lat: 48 ° 36.74 N
Lon: 125 ° 53.85 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2018-39

Station:

LC04

Event #:

59

Ship:

Laurier

UTC Date (dd mmm yyyy):

11 MAY 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	Uvic	FA		
1	1	179	Bot-10	✓ 157	x		x									
2	2	180	150	✓ 150	x		x						x			
3	3	181	125	✓ 124	x		x									
4	4	182	100	✓ 100	x		x						x			
5	5	183	75	✓ 75	x		x									
6	6	184	50	✓ 49	x		xx		x				x			
7	7	185	30	✓ 29	xx		x		xx							
8	8	186	20	✓ 20	x		x		x		xx		x			
9	10	187	10	✓ 10	x		x		x		xx		x			
10	11	188	5	✓ 4	x		x					xx	x			
11	12	189	5	✓ 4					x	xx	xx					Fluo:
12	9	190	C MAX	✓ 20										x		~ 20m
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s):
N2

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

Time	UTC	Local
Start	20:32	13:32
Bottom	20:35	
End	20:47	

Positional Information
Lat: 48 ° 43.45 N
Lon: 125 ° 40.43 W

Start

Bottom

End

Lat: 48 ° 43.46 N
Lon: 125 ° 40.43 W

Lat: 48 ° 43.44 N
Lon: 125 ° 40.20 W

Extra comments:
Out of order 1, 2, 3, 4, 5, 6, 7, 8, 12, 9, 10, 11

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LC02 Event #: 61 Ship: Laurier UTC Date (dd:mmm/yyyy): 11 MAY 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	DIC	phyto	DA		
1		191	Bot-10	✓ 100	x		x						x				
2		192	75	✓ 75	x		x						xx				
3		193	50	✓ 50	xx		x		x				x				
4		194	30	✓ 30	x		x		x				xx				
5		195	20	✓ 20	x		xx		x	xx	xx		x				CHL MAX ~ 5 µg/l
6		196	10	✓ 10	x		x		xx		xx		x				
7		197	5	✓ 5	x	x							x				
8		198	5	✓ 5			x		x	xx	xx			x	x		Fluo: 0.3
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): N2

Bottom Depth: 110 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	22:12	15:12
Bottom	22:14	
End	22:23	

Positional Information

Lat: 48	° 48.60	N
Lon: 125	° 30.90	W

Start

Lat: 48	° 48.59	N
Lon: 125	° 30.88	W

Bottom

Lat: 48	° 48.62	N
Lon: 125	° 30.85	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LC01 Event #: 62 Ship: Laurier UTC Date (dd mmm yyyy): 11 MAY 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	UVic		
1		199	Bot-10	✓ 85	x		x								
2		200	75	✓ 75	x		x x								
3		201	50	✓ 50	x x		x		x						
4		202	30	✓ 30	x		x		x x						
5		203	20	✓ 20	x		x		x		x x				
6		204	10	✓ 10	x		x		x x		x x				CHL Max ~ 10 µg/l
7		205	5	✓ 5	x		x		x	x x	x x	x x			Fluo: ~ 1 µg/l
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):

Bottom Depth: 95 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2258	1558
Bottom	2259	
End	23:07	

Positional Information

Start

Lat: 48 ° 50.34 N

Lon: 125 ° 27.64 W

Bottom

Lat: 48 ° 50.32 N

Lon: 125 ° 27.63 W

End

Lat: 48 ° 50.27 N

Lon: 125 ° 27.60 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LD02 Event #: 65 Ship: Laurier UTC Date (dd mmm yyyy): 12 MAY 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments	
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	phyto	DA					
1		206	Bct 10	✓	35	x		x		x									
2		207	30	✓	30	x		x		xx									
3		208	20	✓	20	xx		x		x		xx							
4		209	10	✓	10	x		xx		x		xx							
5		210	5	✓	5	x		x		x	xx	xx		x	x				Fluo:
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): N2

Bottom Depth: 44 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	01:55	18:55
Bottom	01:56	
End	02:01	

Positional Information

Lat: 48 ° 58.45	N
Lon: 125 ° 46.81	W

Start
Bottom
End

▼

Lat: 11 ° 11	N
Lon: 11 ° 11	W

▼

Lat: 48 ° 58.46	N
Lon: 125 ° 46.79	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LD04 Event #: 67

Ship: Laurier

UTC Date (dd mmm yyyy): 12 MAY 2018

Niskin #		Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Ship: <u>Laurier</u>				UTC Date (dd m)	
				Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases					Comments			
													UBC								
1			211	Bot 10	✓ 52	x x		x		x											
2			212	30	✓ 30	x		x x		x											
3			213	20	✓ 20	x		x		x			x x								
4			214	10	✓ 10	x		x		x x			x x								
5			215	5	✓ 5	x		x		x	x x		x x								
6																		Fluo:			
7																					
8																					
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22																					
23																					
24																					

Version: 25 Nov 2011

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

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): N2

Bottom Depth: 62 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	03:30	20:30
Bottom	03:31	
End	03:36	

Positional Information

	Lat	Lon
Start	48 ° 53.28 N	125 ° 56.83 W
Bottom	48 ° 53.27 N	125 ° 56.84 W
End	48 ° 53.28 N	125 ° 56.84 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LG01 Event #: 68 Ship: Laurier UTC Date (dd|mmm|yyyy): 12 May 2018

			Rosette Operation		Samples Taken / Sampler's Initials										Comments									
Niskin #	Firing #	Sample #	Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	gases												
			Pressure	✓ Pressure																				GC
1	1	216	Bot-10	✓	48	x		x		x		x x												
2	2	217	30	✓	30	x x		x		x		x x												
3	3	218	20	✓	20	x		x x		x x		x x												
4	4	219	10	✓	10	x		x		x		x x												
5	5	220	5	✓	5	x		x		x	x x	x x												Fluo: 0.80
6																								
7																								
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24																								

http://www.pac

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

Bottom Depth: 56 m
Transmissio Cleaned: Y / N

Time	UTC	Local
Start	0802	01:02
Bottom	0804	
End	0811	

Positional Information

Lat:	49 °	20.51	N
Lon:	126 °	34.98	W

▼

Lat:	49 °	20.49	N
Lon:	126 °	34.96	W

▼

Lat:	49 °	20.50	N
Lon:	126 °	34.96	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39

Station: LG02

Event #: 70

Ship: Laurier

UTC Date (dd mmm yyyy): 12 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments		
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	phyto	UVic	DA	FA			
				✓															
						GC		TV/MM		PS/TV	GC	MM	UBC	GC	TV	GC	GC		
1	1	221	Bot-10	✓	90	x		x							x				
2	2	222	75	✓	75	x x		x							x				
3	3	223	50	✓	50	x		x x		x					x				
4	4	224	30	✓	30	x		x		x									
5	5	225	20	✓	20	x		x		x x		x x			x				
6	6	226	10	✓	10	x		x		x		x x			x				
7	7	227	5	✓	5	x		x					x x		x				Fluo: 1.2
8	8	228	5	✓	5					x	x x	x x		x x x		x			
9	9	229	C MAX	✓	5												x		
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth:	100 m
Transmisso Cleaned:	☒ N

Time	UTC	Local
Start	9:06	2:06
Bottom	9:08	
End	9:18	

Positional Information		
Lat:	49 ° 18.69	N
Lon:	126 ° 38.06	W

Lat:	49 ° 18.67	N
Lon:	126 ° 38.04	W

Lat:	49 ° 18.67	N
Lon:	126 ° 37.99	W

Extra comments:
No real chlorophyll max