

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LG04 Event #: 73 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			
					GC		MM		RS	GC	KY	UBC			
1	1	230	Bot-10	✓ 133	x		x								
2	2	231	125	✓ 125	x		x								
3	3	232	100	✓ 100	x		x								
4	4	233	75	✓ 75	x		xx								
5	5	234	50	✓ 50	x		x		x						
6	6	235	30	✓ 30	xx		x		x						
7	7	236	20	✓ 20	x		x		x		xx				
8	8	237	10	✓ 10	x		x		x		xx				
9	9	238	5	✓ 6	x		x		xx	xx	xx			Fluo: 1.1	
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: 143 m
Transmisso Cleaned: ☒ N

Time	UTC	Local
Start	1134	434
Bottom	1137	
End	1152	

Positional Information
Start
Lat: 49 ° 11.24 N
Lon: 126 ° 49.22 W

Bottom
Lat: 49 ° 11.25 N
Lon: 126 ° 49.23 W

End
Lat: 49 ° 11.20 N
Lon: 126 ° 49.17 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2018-39

Station:

LG06

Event #:

75

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 GC	Sal KY	Nut-Fr GC	Nut-C MM	CHL KY	HPLC KY	NH4 MM	Phyto KY	DA KY	gases MM			
1	1	239	Bot-10	✓	1020	x		x	x								
2	2	240	750	✓	750	x	x	xx	xx								
3	3	241	500	✓	500	xx		x	x								
4	4	242	400	✓	400	x		x	x								
5	5	243	300	✓	299	x		x									
6	6	244	250	✓	250	x		x									
7	7	245	200	✓	200	x		x									
8	8	246	175	✓	175	x		x									
9	9	247	150	✓	150	x		xx									
10	10	248	125	✓	125	x		x									
11	11	249	100	✓	100	x		x									
12	12	250	75	✓	75	x		x			xx						
13	13	251	50	✓	50	x		x	x		xx						
14	14	252	30	✓	29	xx		x	xx		xx						
15	15	253	20	✓	20	x		x	x		xx						
16	16	254	10	✓	10	x		x	x		xx						
17	17	255	5	✓	5	x	x	x									
18	18	256	5	✓	5									xx			Fluo: 0.90
19									x	xx	xx	xxx	x				
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 1015 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	13:39	6:39
Bottom	13:56	
End	14:36	

Positional Information

Lat:	49 °	03.27	N
Lon:	127 °	01.36	W

Bottom

Lat:	49 °	03.23	N
Lon:	127 °	01.22	W

End

Lat:	49 °	3.28	N
Lon:	127 °	01.04	W

Extra comments:
2CHL, 1.5 sal Sm Loop
Sample # 5075

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LG07 Event #: 77 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	Nut	DIC								
1	1	257	250	✓ 250	x	x	x								
2	2	258	100	✓ 100	x	x	x								
3	3	259	50	✓ 50	xx	x	x								
4	4	260	20	✓ 20	x	xx	xx								
5	5	261	10	✓ 10	x	x	x								
6	6	262	5	✓ 5	x	x	x								
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: 1760 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1557	857
Bottom	1626	
End	1705	

Positional Information

Start	Lat: 48 ° 59.38 N	Lon: 127 ° 07.03 W
Bottom	Lat: 48 ° 59.37 N	Lon: 127 ° 06.79 W
End	Lat: 48 ° 59.58 N	Lon: 127 ° 06.52 W

Extra comments:
Added DIC for Matt as he found several pteropods in bag sample.

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LG09 Event #: 81 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	gases	UVic	FA	HPLC	CHL	Not Fy					
1		263	250	✓ 250		x									
2		264	150	✓ 150		x									
3		265	50	✓ 50		x									
4		266	20	✓ 20		x									
5		267	10	✓ 10		x									
6		268	5	✓ 5	x x	x		X X	X	X					~ 0.3 µg/l
7		269	C Max	✓ 28			x	x x	x x	X					~ 1.2 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): N2

Bottom Depth: 2052 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	21:38	14:38
Bottom	22:11	
End	22:54	

Positional Information

Lat:	48 ° 51.109	N
Lon:	127 ° 19.36	W

▼

Lat:	48 ° 50.962	N
Lon:	127 ° 19.114	W

▼

Lat:	48 ° 50.87	N
Lon:	127 ° 18.70	W

Extra comments:
out of order
1, 2, 3, 7, 4, 5, 6

Sampling Log

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

Cruise ID: 2018-39 Station: - LBP8

Event #: 86

Ship: Laurier

UTC Date (dd mmm yyyy): 13 May 2018

Niskin #		Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Ship: Laurier		UTC Date (dd/mm)	
				Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	gases	UVic	phyto	DA	FA	Comments			
1	1	270	250	✓	250					MM	RS		UBC	TV			RS.				
2	2	271	150	✓	150									x							
3	3	272	50	✓	50									x							
4	4	273	20	✓	20									x							
5	6	274	10	✓	10									x							
6	7	275	5	✓	5									x							
7	5	276	C MAX	✓	15					xx	xx		xx	x							
8																	x				
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					
21																					
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): GC

Bottom Depth: 2070 m

Transmisso Cleaned: (Y) / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start	1443	743
Bottom	1459	
End	1525	

Positional Information			
Start	Lat:	49 ° 48.37	N
	Lon:	128 ° 16.79	W

Bottom	Lat:	49 ° 48.27	N
	Lon:	128 ° 16.67	W

End	Lat:	49 ° 48.21	N
	Lon:	128 ° 16.52	W

Extra comments:
Out of order.
1, 2, 3, 4, 7, 5, 6

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LBP7 Event #: 88 Ship: Laurier UTC Date (dd mmm yyyy): 13 Aug 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	UVic	phyto	DA				
					GC		KY	KY	MM	KY	MM	UBC		KY	KY				
1	1	277	2000	✓ 2000	x	xx	x	x											
2	2	278	1500	✓ 1500	xx	xx		x											
3	3	279	1250	✓ 1250	x	xx	x	x											
4	4	280	1000	✓ 999	x	x	xx	xx											
5	5	281	750	✓ 750	x	x	x	x											
6	6	282	500	✓ 501	x	x	x	x											
7	7	283	400	✓ 400	x	x	x	x											
8	8	284	300	✓ 300	x	x	x												
9	9	285	250	✓ 250	x	x	x												
10	10	286	200	✓ 198	xx	x	x												
11	11	287	175	✓ 176	x	x	x										Leaky top spigot		
12	12	288	150	✓ 151	x	x	x												
13	13	289	125	✓ 125	x	x	x												
14	14	290	100	✓ 100	x	x	x												
15	15	291	75	✓ 76	x	x	xx				xx								
16	16	292	50	✓ 50	x	x	x		x		xx								
17	17	293	30	✓ 30	x	x	x		x		xx								
18	18	294	20	✓ 20	xx	x	x		xx		xx								
19	19	295	10	✓ 10	x	x	x		x		xx								
20	20	296	5	✓ 5	x	x	x												
21	21	297	5	✓ 5			x		x	xx	xx			xxx	x		Leaky bottom cap		
22																			
23																			
24																			

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

Watchkeeper(s): GC

Bottom Depth: 2200 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1644	944
Bottom	1751	
End	1813	

Positional Information

Start Lat: 49 ° 52.40 N

Start Lon: 128 ° 11.19 W

Bottom Lat: 49 ° 52.36 N

Bottom Lon: 128 ° 11.19 W

End Lat: 49 ° 52.44 N

End Lon: 128 ° 11.07 W

Extra comments:

Loop 2xCHL
1 Sal.

Rough sea conditions

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: LBP5 Event #: 91 Ship: Laurier UTC Date (dd|mmm|yyyy): 13 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	phyto	DA			
1		298	Bot-10	✓ 1280	x		x	x										
2		299	250	✓ 1250	x	x	x	x										
3		300	1000	✓ 1000	x	x	xx	xx										
4		301	750	✓ 750	x		x	x										
5		302	500	✓ 500	x		x	x										
6		303	400	✓ 400	xx		x	x										
7		304	300	✓ 300	x		x											
8		305	250	✓ 250	x		x											
9		306	200	✓ 200	x		x											
10		307	175	✓ 175	x		x											
11		308	150	✓ 150	x		x											Bottom cap sticks
12		309	125	✓ 124	x		x											Leaked quite a bit
13		310	100	✓ 99	x		x											
14		311	75	✓ 75	x		x											
15		312	50	✓ 50	x		xx		x									
16		313	30	✓ 30	xx		x		xx									fired @ 20m
17		314	20	✓ 20	x		x		x		xx							Spigot pushed sample
18		315	10	✓ 10	x		x		x		xx							Unsampled from
19		316	5	✓ 5	x		x		x	xx	xx	xx						BOT 16
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 1289 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	21:16	14:16
Bottom	21:36	
End	22:17	

Positional Information

Lat:	50	°	00.00	N
Lon:	128	°	00.245	W

▼

Lat:	49	°	59.86	N
Lon:	128	°	00.216	W

▼

Lat:	49	°	59.66	N
Lon:	128	°	00.287	W

314	314
Nut-Fr	Chl
LBP5	LBP5
20	20
2018-39	2018-39
Bot 17	Bot 17 parties/

Water Properties Group

Sampling Log

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

Cruise ID:

2018-39

Station:

LBP3

Event #:

94

Ship:

Laurier

UTC Date (dd:mmm:yyyy):

14 MAY 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target	Confirmed	Oxy	Sal	Nut-Fr	CHL	HPLC	NH4	gases	UVic	phyto	DA	FA		
			Pressure	✓ Pressure	TF/IN	MR	ML/TF	TF/IN	MR	MR	UBC	TV	TV	TV			
1		317	bot-10	✓ 155	x		x										
2		318	150	✓ 150	x		xx					x					
3		319	125	✓ 125	x		x										
4		320	100	✓ 100	x		x					x					
5		321	75	✓ 75	x		x			xx							
6		322	50	✓ 49	x		x	x		xx		x					
7		323	30	✓ 30	x		x	x		xx							
8		324	20	✓ 20	x		x	xx		xx		x					
9		325	10	✓ 10	x		x	x		xx		x					
10		326	5	✓	xx	x	x				xx	x					
11		327	5	✓			x	x	xx	xx			xxx	x			
12		328	C MAX	✓ 10											x		bandy a max ~2 same as 5m
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): N2

Bottom Depth: 169 m

Transmissio Cleaned: Y / N

Time	UTC	Local
Start	00:52	17:32
Bottom	00:53	
End	01:07	

Positional Information

Start	Lat: 50 ° 3.24	N
	Lon: 127 ° 55.27	W
Bottom	Lat: 50 ° 3.256	N
	Lon: 127 ° 55.27	W
End	Lat: 50 ° 3.256	N
	Lon: 127 ° 55.24	W

Extra comments:

Out of order!

Check for Chl max

1-9, 12, 10-11

Water Properties Group

Sampling Log

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

Cruise ID:

2018-39

Station:

CS00

Event #:

110

Ship:

Laurier

UTC Date (dd|mmm|yyyy):

14 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	UVic	gases	DA		
				✓	TF		TV	MG	MG	TV	MG	TV		UBC	TV		
1		329	2000	✓ 2000	x	x	x	x									endcap(bottom) drop
2		330	1500	✓	x	xx	xx	xx									
3		331	1250	✓	x	xx	x	x									
4		332	1000	✓	x	xx	x	x									
5		333	750	✓ 749	xx	x	x	x									
6		334	500	✓	x	x	x	x									
7		335	400	✓	x	x	x	x									
8		336	300	✓	x	x	x										
9		337	250	✓	x	x	x										
10		338	200	✓	x	x	xx										
11		339	175	✓	x	x	x										
12		340	150	✓	xx	x	x										
13		341	125	✓	x	x	x										
14		342	100	✓	x	x	x										
15		343	75	✓	x	x	x										
16		344	50	✓	x	x	x		xx								
17		345	30	✓	x	x	x		x								
18		346	20	✓	xx	x	x		x		xx						
19		347	10	✓	x	x	x		x		xx						
20		348	5	✓	x	x	x							xx			Fluo:
21		349	5	✓			x		x	xx	xx	x			x		
22																	
23																	
24																	

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

Bottom Depth:	2170	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	19:11	12:11
Bottom	19:42	
End	20:29	

Positional Information		
Start	Lat: 50 ° 27.24	N
	Lon: 129 ° 56.44	W

Bottom	Lat: 50 ° 27.33	N
	Lon: 129 ° 56.62	W

End	Lat: 50 ° 27.34	N
	Lon: 129 ° 56.79	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: CS01 Event #: 112 Ship: Laurier UTC Date (dd mmm/yyyy): 14 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	UVic	gases UBC	DA		
1		350	2000	✓ 2000		x											
2		351	1500	✓		x											
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	Fluo:
22																	
23																	
24																	

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

Bottom Depth: 2106 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	22:25	15:25
Bottom	2256	15:56
End	2326	

Positional Information

Lat:	50 ° 34.90	N
Lon:	129 ° 41.44	W

▼

Lat:	50 ° 34.78	N
Lon:	129 ° 41.36	W

▼

Lat:	50 ° 34.70	N
Lon:	129 ° 41.27	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: CS02

Event #: 114

Ship: Laurier

UTC Date (dd:mmm:yyyy): 15 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	UVic	Gases UBC	FA			
1		352	Bot-10	✓	1917	x		x	x									
2		353	1500	✓		x	x	x	x									
3		354	1250	✓		x	x	x	x									
4		355	1000	✓		x	x	x	x									
5		356	750	✓		x	x	x	x									
6		357	500	✓		x		x	x									
7		358	400	✓		x		x										
8		359	300	✓		x		x										
9		360	250	✓		x		x										
10		361	200	✓		x		x	x									
11		362	175	✓		x		x										
12		363	150	✓		x	x	x										
13		364	125	✓		x		x										
14		365	100	✓		x		x										
15		366	75	✓		x		x										
16		367	50	✓		x		x	x									
17		368	30	✓		x		x	x									
18		369	20	✓		x	x	x	x									
19		370	10	✓		x		x	x									
20		371	5	✓		x	x	x	x									
21		372	C MAX	✓	15	x	x	x	x	x	x	x	x	x	x			Fluo: ~1.2 ~2.2 µg/l
22																		
23																		
24																		

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

Bottom Depth: 1905 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	01:25	18:25
Bottom	01:53	
End	02:38	

Positional Information

Lat:	50 ° 41.18	N
Lon:	129 ° 28.09	W

Start

Lat:	50 ° 40.99	N
Lon:	129 ° 28.12	W

Bottom

Lat:	50 ° 40.76	N
Lon:	129 ° 28.18	W

End

Extra comments:
Out of order!
Check for Chl Max
1-18, 21, 19, 20

Sampling Log

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

Cruise ID: 2018-39 **Station:** CS04

Event #: 118

Ship: Laurier

UTC Date (dd mmm yyyy): 15 MAY 2018

Niskin #		Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Ship: <u>Laurier</u>				UTC Date (dd/mm/yyyy)	
				Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	gases	UBC	Comments						
1			373	Bot-10	☒ 90	x		x													
2			374	75	☒	x		x										Endcap dripping			
3			375	50	☒	x		x		x											
4			376	30	☒	x x		x		x x											
5			377	20	☒	x		x		x		x x									
6			378	10	☒	x		x		x		x x									
7			379	5	☒	x		x x		x	x x	x x	x x								
8																		Fluo:			
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					
21																					
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): NZ

Bottom Depth: 97 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	05:19	22:19
Bottom	05:20	
End	05:28	

Positional Information	
Lat:	50 ° 49.29
Lon:	129 ° 12.95

Bottom	Lat: 50 ° 49.29	N
	Lon: 129 ° 12.95	W

End	Lat:	50	°	49,36	N
	Lon:	129	°	12,87	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: CS06 Event #: 129 Ship: Laurier UTC Date (dd:mmm/yyyy): 15 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	gases			
					GC	GC	GC		RS	KY	MP	KY	KY	UBC			
1	1	380	Bot-10	✓ 55	x		xx										
2	2	381	50	✓ 50	xx		x		x								
3	3	382	30	✓ 30	x		x		x								
4	4	383	20	✓ 21	x		x		xx		xx						
5	5	384	10	✓ 10	x		x		x		xx						
6	6	385	5	✓ 5	x	x	x							xx			Fluo:
7	7	386	5	✓ 5					x	xx	xx	x	x				
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: 6.5 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	14:55	7:55
Bottom	14:57	
End	15:06	

Positional Information

Lat:	50 ° 59 95	N
Lon:	128 ° 52.04	W

Start

Lat: 50 ° 59 96 N
Lon: 128 ° 52.02 W

Bottom

Lat: 50 ° 59 99 N
Lon: 128 ° 52.06 W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: CS09 Event #: 135 Ship: Laurier UTC Date (dd mmm/yyyy): 15 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 ✓	UVic ✓	gases UBC ✓	FA ✓					
1		387	Bot-10	✓	190	x		x											
2		388	175	✓	174	x		x											
3		389	150	✓		x		x				x							
4		390	125	✓		x		x x											
5		391	100	✓		x		x				x							
6		392	75	✓		x		x											
7		393	50	✓		x x		x		x		x							
8		394	30	✓		x		x		x x									
9		395	20	✓		x		x		x		x x	x						
10		396	10	✓		x		x		x		x x	x						
11		397	5	✓		x		x		x	x x	x x	x	x x				Fluo:	
12		398	C MAX	✓	10										x			not really max	
13																		same @ 5m	
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 196 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	19:32	12:32
Bottom	19:37	
End	19:49	

Positional Information

Lat:	51 ° 12.38	N
Lon:	128 ° 27.81	W

▼

Lat:	51 ° 12.39	N
Lon:	128 ° 27.80	W

▼

Lat:	51 ° 12.41	N
Lon:	128 ° 27.71	W

Extra comments:
Out of order!
Check for Chl Max
1-10, 12, 11

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39

Station: SS5

Event #: 142

Ship: Laurier

UTC Date (dd mmm yyyy): 16 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	UVic	gases UBC	DA			
1		399	20	✓			X		XX		XX						
2		400	10	✓			X		XX		XX						
3		401	5	✓			X		XX	XX	XX						Fluo:
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: 200 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	01:00	18:00
Bottom	01:03	
End	01:08	

Positional Information

Lat:	51 ° 27.88	N
Lon:	128 ° 30.39	W

Start

Lat:	51 ° 27.87	N
Lon:	128 ° 30.44	W

Bottom

Lat:	51 ° 27.84	N
Lon:	128 ° 30.44	W

End

Lat:	51 ° 27.84	N
Lon:	128 ° 30.44	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: SS3 Event #: 147 Ship: Laurier UTC Date (dd:mmm/yyyy): 16 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	UVic		DA				
1		402	20	✓			x		xx		xx							
2		403	10	✓			x		xx		xx							
3		404	5	✓			x		xx	xx	xx						Fluo:	
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: 291 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	05:11	22:11
Bottom	05:16	
End	05:23	

Positional Information

Lat:	51 °	15.01	N
Lon:	129 °	21.07	W

Start

Lat:	51 °	15.03	N
Lon:	129 °	20.98	W

Bottom

Lat:	51 °	15.05	N
Lon:	129 °	20.96	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: SS2 Event #: 148 Ship: Laurier UTC Date (dd mmm yyyy): 16 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	UVic		DA				
1	1	405	20	✓ 20			x		x x		x x							
2	2	406	10	✓ 10			x		x x		x x							
3	3	407	5	✓ 5			x		x x	x x	x x					Fluo: 2.8		
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/GC

Bottom Depth: 577 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	06:45	23:45
Bottom	06:55	
End	07:09	

Positional Information

Start	Lat: 51 ° 13.03	N
	Lon: 129 ° 42.90	W

Bottom

Lat: 51 ° 13.02	N
Lon: 129 ° 42.80	W

End

Lat: 51 ° 13.01	N
Lon: 129 ° 42.72	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39

Station: JS

Event #: 154

Ship: Laurier

UTC Date (dd:mmm:yyyy): 16 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	DIC	Ions			
1		408	Bot-5	✓ 395	x		x						x	x			
2		409	200	✓	x		x						x	x			
3		410	150	✓	x		x						xx	x			
4		411	100	✓	xx		x						x	x			
5		412	75	✓	x		x						x	x			
6		413	50	✓	x		x						x	x			
7		414	30	✓	x		x		x				x	xx			
8		415	20	✓	x		xx		xx				x	x			
9		416	10	✓	xx		x		x				x	x			
10		417	5	✓ 4.5	x	x	x		x				xx	x			
11		418	0	✓	x		x		x	xx			x	x			
12		419	250	✓	x		x						x	x			
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 405 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	21:02	14:02
Bottom	21:08	
End	21:25	

Positional Information

Lat:	50 ° 29.82	N
Lon:	126 ° 28.33	W

Start

Lat:	50 ° 29.84	N
Lon:	126 ° 28.21	W

Bottom

Lat:	50 ° 29.89	N
Lon:	126 ° 27.72	W

End

Extra comments:
OUT-OF-ORDER!
1, 12, 2-11

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: 16 Event #: 156 Ship: Laurier UTC Date (dd mmm yyyy): 17 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	DIC	Ions		
1		420	Bot-5	✓ 150	x		x						x	x		
2		421	125	✓	x		x						x x	x		
3		422	100	✓	x x		x						x	x		Filter
4		423	75	✓	x		x						x	x		
5		424	50	✓	x		x						x	x x		
6		425	40	✓	x		x						x x	x		
7		426	30	✓	x		x		x				x	x		
8		427	20	✓	x		x x		x x				x	x		
9		428	10	✓	x		x		x				x	x		
10		429	5	✓	x		x		x				x	x		
11		430	0	✓	x		x		x	xx			x	x		
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: 160 m
Transmissio Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	04:02	21:02
Bottom	04:05	
End	04:17	

Positional Information

Lat:	49 ° 57.67	N
Lon:	125 ° 08.78	W

▼

Lat:	49 ° 57.65	N
Lon:	125 ° 08.85	W

▼

Lat:	49 ° 57.57	N
Lon:	125 ° 09.11	W

Extra comments:
depths wrong on some sample bottles

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39

Station: 14

Event #: 158 157

Ship: Laurier

UTC Date (dd mmm yyyy): 17 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						
1		431	20	✓			x		x x									
2		432	10	✓			x		x x									
3		433	0	✓ 1.5			x		x x	x x						Fluo		
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:	317	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	05:12	22:12
Bottom	05:18	
End	05:25	

Positional Information		
Start	Lat: 49 ° 53.02	N
	Lon: 124 ° 59.45	W

Bottom	Lat: 49 ° 53.00	N
	Lon: 124 ° 59.41	W

End	Lat: 49 ° 52.99	N
	Lon: 124 ° 59.39	W

Extra comments:
rosette got skinned by big jelly

Water Properties Group

Sampling Log

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

Cruise ID:

2018-39

Station:

12

Event #:

164

Ship:

Laurier

UTC Date (dd mmm yyyy):

17 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	DIC	DA			
1	4	434	20	✓ 20	XX		x		x	XX		X	X	X			
2	2	435	20	✓ 20	X	X	x		xx				X				ran out of H ₂ O for HPLC rep
3	3	436	10	✓ 10	X		x		x	xx		(X)	X	X			Fluo 0.69
4	1	437	bot -10	✓ 343	X	X	X		X				X				
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 353 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0950	200
Bottom	0956	
End	1010	

Positional Information		
Start	Lat: 49 ° 43.47 N	Lon: 124 ° 40.73 W
Bottom	Lat: 49 ° 43.48 N	Lon: 124 ° 40.70 W
End	Lat: 49 ° 43.48 N	Lon: 124 ° 40.69 W

Extra comments: 4, 1, 2, 3
 Out of order as we added samples (DIC, oxy) for Matt + his ptanopods.
 2 phyto's taken

Confused the firing order but sheet is correct. Oxy (434 A) broke. lost sample on 2nd min.

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: CPF2 Event #: 1166 Ship: Laurier UTC Date (dd mmm yyyy): 17 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					
1	1	4378	20	✓ 20			x		x								
2	2	4389	10	✓ 10			x		x								
3	3	43940	0	✓ 0			x		xx	xx							Fluo:
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: 327 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1203	503
Bottom	1239	
End	1248	

Positional Information
Start
Lat: 49 ° 27.97 N
Lon: 124 ° 29.77 W

Bottom
Lat: 49 ° 27.97 N
Lon: 124 ° 29.98 W

End
Lat: 49 ° 27.95 N
Lon: 124 ° 29.98 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: CPF1 Event #: 169 Ship: Laurier UTC Date (dd mmm/yyyy): 17 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			
1	1	441	20	✓ 20			x		xx						
2	2	442	10	✓ 10			x		x						
3	3	443	0	✓ 0			x		x	xx					Fluo: 5.2
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: 246 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1512	812
Bottom	1517	
End	1524	

Positional Information

Start Lat: 49 ° 21.97 N

Start Lon: 124 ° 04.95 W

Bottom Lat: 49 ° 21.98 N

Bottom Lon: 124 ° 04.95 W

End Lat: 49 ° 22.00 N

End Lon: 124 ° 04.96 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: 24 Event #: 171 Ship: Laurier UTC Date (dd mmm/yyyy): 17 May 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto						
			Pressure	✓ Pressure														
1	1	444	20	✓ 20			x		x									
2	2	445	10	✓ 10			x		x x									
3	3	446	0	✓ 0			x		x	x x								Fluo: 1.40. leaky vent on #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: 431 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1659	959
Bottom	1708	
End	1719	

Positional Information
Start
Lat: 49 ° 30.52 N
Lon: 124 ° 06.09 W

Bottom
Lat: 49 ° 30.55 N
Lon: 124 ° 06.18 W

End
Lat: 49 ° 30.63 N
Lon: 124 ° 06.33 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: 22 Event #: 173 Ship: Laurier UTC Date (dd mmm yyyy): 17 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		447	Bot-5	✓ 345	x		x										
2		448	200	✓	x		x x										
3		449	100	✓	x		x										
4		450	75	✓	x x		x										
5		451	50	✓	x		x										
6		452	40	✓	x		x										
7		453	30	✓	x		x		x								
8		454	20	✓	x		x		x								
9		455	10	✓	x		x		x								~2 µg/l
10		456	5	✓	x	x	x		x x								
11		457	0	✓ 1.5	x		x		x	x x		x	x				Fluo:
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: 355 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	19:01	12:01
Bottom	19:07	
End	19:21	

Positional Information

Lat:	49 ° 40.40	N
Lon:	124 ° 16.28	W

▼

Lat:	49 ° 40.41	N
Lon:	124 ° 16.35	W

▼

Lat:	49 ° 40.43	N
Lon:	124 ° 16.44	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39

Station: 28

Event #: 175

Ship: Laurier

UTC Date (dd mmm/yyyy): 17 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					
1		458	20	✓			x		x								chl max ~ 7 µg/l
2		459	10	✓			x		x								
3		460	0	✓			x		xx	xx							Fluo:
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: 134 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	23:27	16:27
Bottom	23:29	
End	23:33	

Positional Information

Lat:	49 °	24.18	N
Lon:	123 °	45.57	W

Start

Lat:	49 °	24.20	N
Lon:	123 °	45.64	W

Bottom

Lat:	49 °	24.23	N
Lon:	123 °	45.74	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39

Station: GE01

Event #: 176

Ship: Laurier

UTC Date (dd mmm yyyy): 17¹⁸ MAY 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	DA			
			Pressure	✓ Pressure												
1		461	b-10	✓ 390	x		x									
2		462	200	✓	x		x									
3		463	100	✓	x		x									
4		464	75	✓	x		x x									
5		465	50	✓	x		x									
6		466	40	✓	x x		x									
7		467	30	✓	x		x		x							
8		468	20	✓	x		x		x							
9		469	10	✓	x		x		x							
10		470	5	✓	x	x	x		x x							
11		471	0	✓ 1.6	x		x		x	x x		x	x			Fluo:
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:	404	m
Transmissio Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	0048	1748
Bottom	0055	
End	0109	

Positional Information
Lat: 49 ° 15.04 N
Lon: 123 ° 44.98 W

Start
Lat: 49 ° 15.07 N
Lon: 123 ° 45.00 W

Bottom
Lat: 49 ° 15.18 N
Lon: 123 ° 45.07 W

End
Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39 Station: 38 Event #: 180 Ship: Laurier UTC Date (dd mmm/yyyy): 18 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			
1		472	20	✓			x		x						
2		473	10	✓			x		x x						
3		474	0	✓ 1.5			x		x	x x					Fluo:
4															
5															
6															
7															
8															
9															
10															
11															
12															
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15															
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17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 313 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	03:45	20:45
Bottom	03:50	
End	03:58	

Positional Information		
Start	Lat: 49 ° 11.99	N
	Lon: 123 ° 26.44	W
Bottom	Lat: 49 ° 12.01	N
	Lon: 123 ° 26.48	W
End	Lat: 49 ° 12.00	N
	Lon: 123 ° 26.52	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-39

Station: 42

Event #: 182

Ship: Laurier

UTC Date (dd mmm yyyy): 18 MAY 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	DIC	DA			
			Pressure	✓ Pressure													
1		475	b-10	✓ 310			x										
2		476	200	✓			x										
3		477	100	✓			x										
4		478	75	✓			x										
5		479	50	✓			x										
6		480	40	✓			x										
7		481	30	✓			x		x								
8		482	20	✓			x		x								
9		483	10	✓			x		x x								
10		484	5	✓			x x		x								
11		485	0	✓			x		x	x x		x		x			Fluo:
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:	320	m
Transmisso Cleaned:	(Y) 1	N

Time	UTC	Local
Start	05:41	2241
Bottom	05:46	
End	06:00	

Positional Information
Lat: 49 ° 01.80 N
Lon: 123 ° 26.24 W

Start

Bottom

Lat: 49 ° 01.71 N
Lon: 123 ° 26.32 W

End

Extra comments:
