

Water Properties Group

Sampling Log

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

33
gases
JF2
5
2018-01
Bot 2

Cruise ID: 2018-01 Station: P1 Event #: 13 Ship: Tully UTC Date (dd/mm/yyyy): 20 Feb 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut-Fr	Sal	DIC	Chl	HPLC	gases	OPT			
1	1	1	Bot-10	✓ 125	x	x		x x							
2	2	2	30	✓ 30	x	x		x							
3	3	3	5	✓ 5	x x		x	x			x x	X			
4	4	4	5	✓ 5		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): MB

Bottom Depth: 133 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1617	0817
Bottom	1615	
End	1626	

Positional Information

Lat: 48 ° 34 46 N

Lon: 125 ° 30 02 W

Lat: 48 ° 39 45 N

Lon: 125 ° 30 01 W

Lat: 48 ° 34 46 N

Lon: 125 ° 30 03 W

Extra comments:

Will also have loops for P1

Sal x1, OxyLab x2, and OxyT x2

Bot-10
2018-01
Bot 1

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P2 Event #: 14 Ship: Laurence Fully UTC Date (dd|mmm|yyyy): 20 FEB 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	Oxy	Nut-F	Nut-C	Sal	DIC	DOC	Gels	Gases						
					MB	DC	DC	MR	MPHV	SB	DC	SB						
1	1	5	Bot-10	✓ 105	x	x			x	x	x							
2	2	6	100	✓ 100	xx	x			x	x	x							
3	3	7	75	✓ 75	x	x			xx	x	x							
4	4	8	75	✓ 75	x	x			x									
5	5	9	50	✓ 50	x	x			x	x	x							Did not Arc
6	6	10	25	✓ 25	x	xx			x	x	x							
7	7	11	10	✓ 10	x	x			x	x	x							
8	8	12	5	✓ 5	xx	x		x	x	x	x	xx						
9																		
10																		
11				*5:	TDP	LID	NOT	CLOSED	SAMPLED	BUT	PROBABLY	NOT	GOOD					
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 116 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1815	1019
Bottom	1821	
End	1829	

Positional Information

Lat:	48° 36 07 N
Lon:	126° 0 04 W

Start

▼

Lat:	48° 36 03 N
Lon:	126° 0 04 W

Bottom

▼

Lat:	48° 36 00 N
Lon:	126° 0 07 W

End

Extra comments:
 Deep cast
 Will also have loops for Gases,
 Oxy, Tr, Sal, Nut

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01

Station: P2

Event #: 17

Ship: LAURIEN
Tully

UTC Date (dd/mm/yyyy): 20 02 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	UVic	Bugs	DA	OPT	Phyto		
					NR	MA	MA	KS			TV	TV					Master Station Dr. in middle of
1		13	100	✓								x					Sampling
2		14	100	✓		x	xx	xx	x	x		x					drill @ 21.05
3		15	75	✓	76	x			x	x		x					HPLC 10A+B
4		16	50	✓	950	x			x	x		x					11A+B Dave
5		17	50	✓	50							x					Restart 21:31
6		18	40	✓	40	x			x	x							
7		19	30	✓	30	x			x	xx	xx						Fluo
8		20	25	✓	24.6	x			x	x	xx						Fluo
9		21	20	✓	20	xx	xx	xx	x	x	xx	x					Fluo
10		22	15	✓	15.5	x			xx	xx	xx						Fluo
11		23	10	✓	10	x			x	x	xx	x					Fluo
12		24	5	✓	5	x	x	x	x	x	xx	x		x		x	Fluo
13		25	5	✓	5							x					
14		26	0	✓	2.3	x	xx	xx	x	x							
15		27	Bet-10	✓	105									xx			
16		28	100	✓										xx			
17		29	50	✓	50									xx			
18		30	25	✓	24.3									xx			
19		31	10	✓	10									xx			
20		32	0	✓	2.3									xx			
21																	
22																	
23																	
24																	

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): K.S. MR

Bottom Depth: 115 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	20:08	12:08
Bottom	20:11	
End	20:31	12:31

Positional Information

Lat:	48 ° 35.987 N
Lon:	125 ° 59.998 W

Start

Lat: 48 ° 35.983 N
Lon: 125 ° 59.983 W

Bottom

Lat: 48 ° 36.010 N
Lon: 125 ° 59.971 W

End

Extra comments:
DMS cast - OUT-OF-ORDER
Phyto = lugol's only
15; 16; 1-5; 17; 8; 7; 8; 18; 9; 10;
11; 19; 12; 13; 14; 20

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P3 Event #: 18 Ship: Lawson
Fully UTC Date (dd/mmm/yyyy): 20 / 02 / 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	Gases	OPT							
1		33	5	✓ 5.2	x	x	xx	xx	xx								
2		34	5	✓ 5.2							xx						
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): K.S.Bottom Depth: 763 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	<u>2240</u>	<u>14:40</u>
Bottom	<u>2254</u>	<u>14:54</u>
End	<u>2308</u>	

Positional Information
Start
Lat: 48 ° 35.578 N
Lon: 126 ° 20.084 WBottom
Lat: 48 ° 37.554 N
Lon: 126 ° 20.17 WEnd
Lat: 48 ° 37.606 N
Lon: 126 ° 20.192 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2018-01

Station:

P4

Event #:

19

Ship:

Laurier
Tully

UTC Date (dd/mmm/yyyy): 21/02/2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	DA	Phyto	OPT	UVic			
				✓	MR	MA	MA	KS	TV	KS	TV	TV	XX	TV			
1	2	35	300	✓	299	x			x								
2	3	36	250	✓	250				x					x			
3	4	37	200	✓	200	x	xx	xx	x								leaky
4	5	38	150	✓	150	x	xx	xx	x					x			
5	6	39	100	✓	100	x			xx	x							
6	8	40	75	✓	75	x			x	x							Fluo
7	9	41	60	✓	60				x	x	xx						Fluo
8	10	42	50	✓	50	x			x	x	xx			x			Fluo
9	12	43	40		40	x			x	x	xx						Fluo
10	13	44	30	✓	29	x	xx	xx	x	x	xx						
11	14	45	25	✓	25	x			x	xx							
12	16	46	20	✓	20	xx	xxxx	xxxx	x	x				x			Fluo
13	17	47	15	✓	15	x			x	xx	xx						
14	18	48	10	✓	10	x			x	x				x			Fluo
15	21	49	5	✓	5	x	xx	xx	x					x			
16	22	50	5	✓	5					x	xx	x	xxx				Fluo
17	23	51	0	✓	2.4	x	xx	xx	x	x							
18	1	52	300	✓	299.7								xx				
19	7	53	100	✓	100								xx				
20	11	54	50	✓	50								xx				
21	15	55	25	✓	25								xx				
22	19	56	10	✓	10								xx				
23	20	57	5	✓	5								xx				
24																	

Profile type:

☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): KS

Bottom Depth: 1310 m

Transmisso Cleaned: ☒ Y ☐ N

Time UTC Local

Start	0052	1652
Bottom	0058	
End	0120	

Positional Information

Start
Lat: 48 ° 39.00 N
Lon: 126 ° 39.984 WBottom
Lat: 48 ° 39.00 N
Lon: 126 ° 39.976 WEnd
Lat: 48 ° 38.99 N
Lon: 126 ° 39.99 W

Extra comments:

DMS cast - OUT-OF-ORDER

Plus loops for Chl x2

18; 1-5; 19; 6-8; 20; 9-11

21; 12-14; 22; 23; 15-17

Water Properties Group

Sampling Log

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

Cruise ID:

2018-01

Station:

P4

Event #:

20

Ship:

Laurier

UTC Date (dd/mm/yyyy): 21 FEB 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut-F	Nut-C	Sal	DIC	DOC	DOC-f	DNA	gases	SAGs	Gels	OPT	
					NR	JS	JS	EX	KS/TV	SB	SB	ALL	SB/JS	JS	SB	EX	
1	2	58	Bot-10	✓	1322	x	x	x	x	x		x	xx	x	x		
2	3	59	1250	✓	1250	x	x	x	xx			x		x			
3	4	60	1250	✓	1250	xx	x	x	xx	x	x				x		
4	5	61	1000	✓	1000	x	x	x	xx	x	x	x	xx	x	x		
5	6	62	800	✓	800	x	x	x	x	x		x		x	x		
6	7	63	600	✓	600	x	xx	xx	x	x		x	xx	x	x		
7	8	64	400	✓	400	x	x	x	x	x		x	xx	x	x		
8	9	65	300	✓	299	x	x		x	x		x		x	x		
9	10	66	250	✓	250	x	x		x		x		xx		x		
10	11	67	200	✓	200	x	x		x		x	x	xx	x	x		
11	12	68	175	✓	175	xx	x		x		x				x		
12	13	69	150	✓	149	x	x		x		x	x	xx	x	x		
13	14	70	125	✓	125	x	xx		x		x				x		
14	15	71	100	✓	100	x	x		x		x	x	xx	x	x		
15	16	72	75	✓	75	x	x		x		x				x		
16	17	73	50	✓	50	x	x		x		x	x		x	x		
17	18	74	25	✓	25	x	x		x		x	x	xx	x	x		
18	19	75	10	✓	10	x	x		x		x	x		x	x		
19	20	76	5	✓	4	xx	x	x	x		x		xx		x		
20	1	77	Bot-10	✓	1320												
21															xx		
22																	
23																	
24																	

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MR1

Bottom Depth: ~1315 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0221	1821
Bottom	0243	
End	0326	

Positional Information

Lat:	48° 38.98	N
Lon:	126° 39.98	W

▼

Lat:	48° 38.97	N
Lon:	126° 39.97	W

▼

Lat:	48° 38.97	N
Lon:	126° 39.94	W

Extra comments:
Deep cast
Plus loops 1x Sal, 1x Nut
OUT-OF-ORDER!!! NISKIN 20 FIRST!

Water Properties Group

Sampling Log

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

Cruise ID:

2018-01

Station:

P4

Event #:

24

Ship:

LAURIE
Tully

UTC Date (dd/mm/yyyy):

21 / 02 / 2018

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓	Pressure		UBC											
							3AD6											
1	1	78	Bot-10	✓	1318		x											
2	2	79	Bot-10	✓														
3	3	80	Bot-10	✓														
4	4	81	Bot-10	✓														
5	5	82	1000	✓	1000		x											
6	6	83	1000	✓														
7	7	84	1000	✓														
8	8	85	1000	✓														
9	9	86	500	✓	500		x											
10	10	87	500	✓	500													
11	11	88	500	✓	500													
12	12	89	500	✓	500													
13	13	90	10	✓	10		x											
14	14	91	10	✓	10													
15	15	92	10	✓	10													
16	16	93	10	✓	10													
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 1300 m
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0733	2333
Bottom	0756	
End	0825	

Positional Information

Lat: 48 ° 39.040	N
Lon: 126 ° 40.018	W

Start

Lat: 48 ° 38.95	N
Lon: 126 ° 40.20	W

Bottom

Lat: 48 ° 39.02	N
Lon: 126 ° 40.46	W

End

Extra comments:
 UBC cast

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P5 Event #: 25 Ship: ^{LASER} Tully UTC Date (dd mmm/yyyy): 21 Feb 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed √ Pressure	Nut-F	Sal	Chl	HPLC	Gases		OPT						
1	1	94	5	√ 5	x	x	x x	x x	x x								
2	2	95	5	√ 5							x x						
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 250 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1043	0243
Bottom	1119	
End	1154	

Positional Information

Start	Lat: 48 ° 41 67 N
	Lon: 127 ° 10 07 W
Bottom	Lat: 48 ° 41 68 N
	Lon: 127 ° 10 31 W
End	Lat: 48 ° 41 68 N
	Lon: 127 ° 10 50 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P6 Event #: 26 Ship: ^{LAURIE}~~Tully~~ UTC Date (dd|mmm|yyyy): 21 | FEB | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target	Confirmed	Nut-F	Sal	Chl	HPLC	Gases	UBC	OPT							
			Pressure	✓ Pressure														
1	1	96	5	✓ 4.5	x	x	xx	xx	xx									
2	2	97	5	✓ 4.5							xx							
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): MS

Bottom Depth: 2523 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1420	0620
Bottom	1453	
End	1532	

Positional Information

Lat:	48 ° 44 67	N
Lon:	127 ° 39.90	W

▼

Lat:	48 ° 44 77	N
Lon:	127 ° 39 88	W

▼

Lat:	48 ° 44 77	N
Lon:	127 ° 39 76	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P7 Event #: 27 Ship: LARION Tully UTC Date (dd|mmm|yyyy): 21 Feb 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC			OPT				
1	1	98	5	✓ 4.8	x	x	xx	xx							
2	2	99	5	✓ 4.8							xx				
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): MS

Bottom Depth: 2483 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	17:58	09:58
Bottom	1832	
End	1909	

Positional Information

Lat:	48° 46 58	N
Lon:	128° 9 99	W

▼

Lat:	48° 46 59	N
Lon:	128° 9 97	W

▼

Lat:	48° 46 58	N
Lon:	128° 10 02	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P8

Event #: 28

Ship: LAUREL Tully

UTC Date (dd/mm/yyyy): 21/02/2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure					DOC-f	gels	OPT				
1		100	300	✓ 299.6							xx				
2		101	250	✓ 250					x	x					
3		102	200	✓ 202					x	x					
4		103	175	✓ 177					x	x					
5		104	150	✓ 151					x	x					
6		105	125	✓ 126					x	x					
7		106	100	✓ 101.7					x	x	xx				
8		107	75	✓ 76.5					x	x					
9		108	50	✓ 51.5					x	x	xx				
10		109	25	✓ 25.9					x	x	xx				
11		110	10	✓ 11.3					x	x	xx				
12		111	5	✓ 6.5					x	x	xx				
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 2497 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2137	1337
Bottom	2143	
End	2202	14:02

Positional Information

Lat:	48 ° 48.991	N
Lon:	128 ° 39.850	W

▼

Lat:	48 ° 48.984	N
Lon:	128 ° 39.857	W

▼

Lat:	48 ° 49.000	N
Lon:	128 ° 39.799	W

Extra comments:
 OPTICS cast for Eric
 Gels and filtered DOC

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P8 Event #: 32 Ship: Laurier UTC Date (dd|mmm|yyyy): 22 | 02 | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments	
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut Fr	Nut C	Chl	HPLC	DOC	Gels	UBC gases	UVic	DA		Phyto
1		112	2000	✓ 2000	x	xx	x	x			x	x	xx				
2		113	1500	✓ 1501	x	x	x	x			x	x					
3		114	1250	✓ 1250	x	x	xx	xx			x	x					
4		115	1000	✓ 1002	x	xx	x	x			x	x	xx				
5		116	800	✓ 800	x	x	x	x			x	x					
6		117	600	✓ 596	xx		x	x			x	x	xx				
7		118	400	✓ 399	x		x	x			x	x					
8		119	300	✓ 300	x		x				x	x					
9		120	250	✓ 250	x		x						xx	x			
10		121	200	✓ 200	x		x						xx				
11		122	175	✓ 177	x		x										
12		123	150	✓ 151	x		xx						xx	x			
13		124	100	✓ 101	xx		x		x				xx				
14		125	75	✓ 76	x		x		x								
15		126	60	✓ 61	x		x		xx	xx							
16		127	50	✓ 51	x		x		x	xx				x			
17		128	40	✓ 41	x		x		x	xx							
18		129	30	✓ 31	x		x		x	xx							
19		130	25	✓ 25.7	x		x		xx				xx				
20		131	20	✓ 21	xx		x		x					x			
21		132	15	✓ 16	x		x		x	xx							
22		133	10	✓ 12	x		x		x					x			
23		134	5	✓ 6	x	x	x						xx	x			
24		135	5	✓ 6			x		x	xx					x	x	

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

Bottom Depth: 2500 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0058	1658
Bottom	0132	
End	02:36	

Positional Information

Lat: 48 ° 48 914 N
Lon: 128 ° 40 052 W

Start

Lat: 48 ° 48.91 N
Lon: 128 ° 40.09 W

Bottom

Lat: 48 ° 48.778 N
Lon: 128 ° 39.644 W

End

Extra comments:
Phyto = Lugol's only
Loops for 1x Sal, 1x Nut, 2x chl

Water Properties Group

Sampling Log

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

Cruise ID:

2018-01

Station:

P12

Event #:

36

Ship:

Laurier

UTC Date (dd|mmm|yyyy): 22 FEB 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed Pressure	DMS	DMSD	DMSF	Nut-Fr	Chl	HPLC	DA	Phyto	OPT	UVic			
1	2	160	300	✓ 300	x			x									
2	3	161	250	✓ 250				x						x			
3	4	162	200	✓ 200	x	xx	xx	x									
4	5	163	150	✓ 151	x	xx	xx	x						x			
5	6	164	100	✓ 100	x			xx	x								
6	8	165	75	✓ 75	x			x	x							Fluo	
7	9	166	60	✓ 60				x	x	xx						Fluo	
8	10	167	50	✓ 50	x			x	x	xx				x		Fluo	
9	12	168	40	✓ 40	x			x	xx	xx						Fluo	
10	13	169	30	✓ 30	x	xx	xx	x	x	xx							
11	14	170	25	✓ 25	x			x	x								
12	16	171	20	✓ 21	xx	xxxx	xxxx	x	x					x		Fluo	
13	17	172	15	✓ 15	x			x	x	xx							
14	18	173	10	✓ 10	x			x	xx					x		Fluo	TOP CAP NOT SEATED.
15	20	174	5	✓ 5	x	xx	xx	x						x			
16	21	175	5	✓ 5					x	xx						Fluo	
17	23	176	0	✓ 23	x	xx	xx	x	x								
18	1	177	300	✓ 300									xx				
19	7	178	100	✓ 100									xx				
20	11	179	50	✓ 50									xx				
21	15	180	25	✓ 25									xx				
22	19	181	10	✓ 10									xx				
23	22	182	5	✓ 5									xx				
24																	

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

Bottom Depth: 3233 m
Transmisso Cleaned: Y/N

Time	UTC	Local
Start	1840	1040
Bottom	1845	
End	1904	

Positional Information

Lat:	48° 58 07 N
Lon:	130° 39 94 W

Start

Lat:	48° 58 08 N
Lon:	130° 39 94 W

Bottom

Lat:	48° 58 07 N
Lon:	130° 39 99 W

End

Extra comments:

DMS cast - OUT-OF-ORDER

Plus loops for Chl x2

18; 1-5; 19; 6-8; 20; 9-11
15, 16, 23, 17
21; 12-14; 22; 23; 15-17

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01

Station: P12

Event #: 37

Ship: Laurier

UTC Date (dd|mmm|yyyy): 22|02|2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments		
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	DOC	Gels	SAGs	DNA	Gases	OPT			
				✓								UBC	UBC	UBC	UBC			
1	2	136	Bot-10	✓	3275	x		x	x	x		x	x	xx				
2	3	137	3000	✓	3002	x	xx	x	x	xx								
3	4	138	3000	✓	3001	x	x	x	x	x		x	x	xx				
4	5	139	2500	✓	2500	xx	xx	x	x	x		x	x					
5	6	140	2000	✓	2000	x	x	x	x	x		x	x	xx				
6	7	141	1500	✓	1500	x	xx	x	x	x		x	x					
7	8	142	1250	✓	1250	x	x	x	x	x		x	x					
8	9	143	1000	✓	1000	x	xx	x	x	x		x	x	xx				
9	10	144	800	✓	800	xx		xx	xx	x		x	x					
10	11	145	600	✓	599	x		x	x	x		x	x	xx				
11	12	146	400	✓	399	x		x	x	x		x	x					
12	13	147	300	✓	302	x		x		x		x	x					
13	14	148	250	✓	250	xx		x		x				xx				
14	15	149	200	✓	200	x		x		x		x	x	xx				
15	16	150	175	✓	175	x		x		x		x	x					
16	17	151	150	✓	150	x		x		x		x	x	xx				
17	18	152	125	✓	125	x		x		x		x	x					
18	19	153	100	✓	99	x		x		x		x	x	xx				
19	20	154	75	✓	75	xx		xx		x		x	x					
20	21	155	50	✓	50	x		x		x		x	x					
21	22	156	25	✓	25.5	x		x		x		x	x	xx				
22	23	157	10	✓	9	x		x		x		x	x					
23	24	158	5	✓	4.5	x	x	x		x				xx				
24	1	159	Bot-10	✓	3273										xx			

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

Bottom Depth: 3200 m

Transmissio Cleaned: Y / N

Time	UTC	Local
Start	2003	12 03
Bottom	2054	
End	2205	

Positional Information

Lat:	48 ° 58.175	N
Lon:	130 ° 39.911	W

Start

▼

Lat:	48 ° 58.17	N
Lon:	130 ° 40.05	W

Bottom

▼

Lat:	48 ° 58.076	N
Lon:	130 ° 39.926	W

End

Extra comments:
Deep cast - OUT-OF-ORDER!
Start with Niskin 24!!!
Plus loops 1x Sal, 1x Nut

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P12 Event #: 40 Ship: Laurier UTC Date (dd|mmm|yyyy): 23 | FEB | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	UBC												
1		183	2000	✓ 2000		x											
2		184	2000	✓ 2000													
3		185	2000	✓ 2000													
4		186	2000	✓ 2000													
5		187	1000	✓ 1000		x											
6		188	1000	✓ 1000													
7		189	1000	✓ 1000													
8		190	1000	✓ 1000													
9		191	500	✓ 500		x											
10		192	500	✓ 500													
11		193	500	✓ 500													
12		194	500	✓ 500													
13		195	10	✓ 9.5		x											
14		196	10	✓ 9.5													
15		197	10	✓ 9.5													
16		198	10	✓ 9.5													
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 3233 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	01:03	17:03
Bottom	01:36	17:36
End	02:14	18:14

Positional Information
Start
Lat: 48 ° 58.121 N
Lon: 130 ° 40.001 W

Bottom
Lat: 48 ° 58.123 N
Lon: 130 ° 39.949 W

End
Lat: 48 ° 58.110 N
Lon: 130 ° 39.906 W

Extra comments:
UBC cast

Sampling Log

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

Cruise ID: 2018-01 Station: P13

Event #: 42

Ship: Laurier

UTC Date (dd|mmm|yyyy): 23 | 02 | 2018

[illegible]

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): K.S.

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start	0639	22:39
Bottom		
End		

Positional Information			
Start	Lat:	49 ° 02.603	N
	Lon:	131 ° 39.918	W

Bottom	Lat:	0	N
	Lon:	0	W

End	Lat:	°	N
	Lon:	°	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01

Station: P13

Event #: 42

Ship: Laurier

UTC Date (dd|mmm|yyyy): 23 | 02 | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC			OPT						
1	1	199	5	✓ 5	x	x	x x	x x									
2	2	200	5	✓ 5							x x						
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:

ROS ☒ TRM ☐ X-Niskin ☐ other? ☐

Watchkeeper(s): K.S

Bottom Depth: 3030 m

Transmisso Cleaned: Y / ☒ N

Time UTC Local

Start 0759 1159

Bottom 0834

End 0907

Positional Information

Start Lat: 49 ° 2 600 N

Lon: 131 ° 39 976 W

Bottom Lat: 49 ° 2 686 N

Lon: 131 ° 39 888 W

End Lat: 49 ° 2 687 N

Lon: 131 ° 39 823 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2018-01

Station:

P14

Event #:

43

Ship:

Laurier

UTC Date (dd:mmm/yyyy):

23 FEB 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials					Gases	OPT						Comments
			Target Pressure	Confirmed Pressure	CHL	HPLC	Nut	Sal	DOC								
1	1	201	Bot-10	✓ 3360				x	x								
2	2	202	3000	✓ 3000				x	x								
3	3	203	2500	✓ 2500				x	x								
4	4	204	2250	✓ 2250				x	x								
5	5	205	2000	✓ 2000				x	x								
6	6	206	1750	✓ 1750				x	x								
7	7	207	1500	✓ 1500				x	x								
8	8	208	1250	✓ 1250				x	x								
9	9	209	1000	✓ 1000				x	x								
10	10	210	800	✓ 800				x	x								
11	11	211	600	✓ 600				x	x								
12	12	212	400	✓ 400				x	x								
13	13	213	300	✓ 300				x	x								
14	14	214	250	✓ 250				x	x								
15	15	215	200	✓ 199				x	x								
16	16	216	175	✓ 176				x	x								
17	17	217	150	✓ 150				x	x								
18	18	218	125	✓ 125				x	x								
19	19	219	100	✓ 100				x	x								
20	20	220	75	✓ 74				x	x								
21	21	221	50	✓ 50				x	x								
22	22	222	25	✓ 25				x	x								
23	23	223	5	✓ 5				x	x		xx (Bot 23+24)						TOOK SAL FROM 24 TOP NOT SEATED
24	24	224	5	✓ 5	xx	xx	x			xx							

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

Bottom Depth: 3315 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	14:11	06:11
Bottom	15:15	
End	16:40	

Positional Information
 Lat: 49 ° 7 310 N
 Lon: 132 ° 39 898 W

Bottom
 Lat: 49 ° 7 390 N
 Lon: 132 ° 39 430 W

End
 Lat: 49 ° 7 226 N
 Lon: 132 ° 38 962 W

Extra comments:
 DOC and SAL cast

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P15 Event #: 44 Ship: Laurier UTC Date (dd|mmm|yyyy): 23 | 02 | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC			OPT				
1		225	5	✓ 5	x	x	xx	xx							
2		226	5	✓ 5							xx				
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): K.S

Bottom Depth: 3415 m
Transmisso Cleaned: ☒ / N

Time	UTC	Local
Start	2106	1306
Bottom	2143	
End	2220	14

Positional Information
Start
Lat: 49 ° 11 926 N
Lon: 133 ° 39 6146 W

Bottom
Lat: 49 ° 12 00 N
Lon: 133 ° 39 22 W

End
Lat: 49 ° 12 031 N
Lon: 133 ° 38 782 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P26 Event #: 53 Ship: Laurier UTC Date (dd|mmm|yyyy): 26 Feb 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	Alk	DOC	Gels	Gases	SAGs	DNA	OPT		
1	1	227	Bot-10	✓ 4316	x		x	x	x	x	x	x	xx	x	x	x		
2	2	228	4000	✓ 4000	x		x	x	xx	x	x	x	xx	x	x			
3	3	229	3500	✓ 3500	xx	xx	x	x	x	x	x	x						
4	4	230	3000	✓ 3000	x		x	x	x	x	x	x	xx	x	x			
5	5	231	2500	✓ 2500	x	xx	xx	xx	x	x	x	x						
6	6	232	2000	✓ 2000	x		x	x	x	x	x	x	xx	x	x			
7	7	233	1500	✓ 1500	x	x	x	x	x	x	x	x		x	x			
8	8	234	1250	✓ 1250	x	x	x	x	x	x	x	x		x	x			
9	9	235	1000	✓ 1000	x	x	x	x	x	x	x	x	xx	x	x			
10	10	236	800	✓ 800	xx		x	x	x	x	x	x		x	x			
11	11	237	600	✓ 600	x		x	x	x	x	x	x	xx	x	x			
12	12	238	400	✓ 400	x		x	x	x	x	x	x		x	x			
13	13	239	300	✓ 300	x		x		x	x	x	x		x	x			
14	14	240	250	✓ 250	x		x		x	x	x	x	xx					
15	15	241	200	✓ 200	x		x		x	x	x	x	xx	x	x			
16	16	242	175	✓ 175	xx		x		x	x	x	x						
17	17	243	150	✓ 150	x		x		x	x	x	x	xx	x	x			
18	18	244	125	✓ 125	x		x		x	x	x	x						
19	19	245	100	✓ 100	x		x		x	x	x	x	xx	x	x			
20	20	246	75	✓ 75	x		xx		x	x	x	x						
21	21	247	50	✓ 50	xx		x		x	x	x	x		x	x			
22	22	248	25	✓ 25	x		x		x	x	x	x	xx	x	x			
23	23	249	10	✓ 10	x		x		x	x	x	x		x	x			
24	24	250	5	✓ 5	x	x	x		x	x	x	x	xx					

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

Bottom Depth: 4354 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1624	0824
Bottom	1744	
End	1920	

Positional Information

Lat:	49 ° 59	803	N
Lon:	144 ° 59	926	W

Start
Bottom
End

Lat: 49 ° 59 940 N
Lon: 144 ° 59 798 W

Lat: 49 ° 59 894 N
Lon: 144 ° 59 896 W

Extra comments:
Deep cast
Will also have loops for Sal x1,
Nut x1

Water Properties Group

Sampling Log

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

Cruise ID:

2018-01

Station:

P26

Event #:

56

Ship:

Laurier

UTC Date (dd|mmm|yyyy): 26 | FEB | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	Phyto	UVic	DA	bugs				
					MA	MA	d MA	Cr:K	MK	K.S	MA		mk					
1	1	251	300	✓ 300	x			x										
2	2	252	250	✓ 250				xx				x						
3	3	253	200	✓ 200	x	xx	xx	x										
4	4	254	150	✓ 150	x	xx	xx	x				x						
5	5	255	100	✓ 100	x			x	x									
6	6	256	100	✓ 100										x				
7	7	257	75	✓ 76	x			x	x									
8	8	258	60	✓ 60				x	x	xx							Fluo	
9	9	259	50	✓ 50										x				
10	10	260	50	✓ 50	x			x	x	xx		x					Fluo	
11	11	261	40	✓ 41	x			x	xx	xx							Fluo	
12	12	262	30	✓ 30.5	x	xx	xx	x	x	xx							Fluo	
13	13	263	25	✓ 25	x			x	xx									
14	14	264	20	✓ 20	xx	xxxx	xxxx	x	x			x					Fluo	
15	15	265	15	✓ 15	x			x	x	xx								
16	16	266	10	✓ 11	x			x	x			x					Fluo	
17	17	267	5	✓ 5.2				x	x	xx	xxx		x					
18	18	268	5	✓ 5.3										x				
19	19	269	5	✓ 5.5	x	xx	xx					x						
20	20	270	0	✓ 5.0	x	xx	xx	x	x									
21																		
22																		
23																		
24																		

Profile type:

☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s):

AR/KS

Bottom Depth: 4250 m

Transmisso Cleaned: ☒ Y ☐ N

Time UTC Local

Start 2204 1404

Bottom 2210

End 2234

Positional Information

Start Lat: 50 ° 0.025 N

Lon: 144 ° 59.960 W

Bottom Lat: 50 ° 0.067 N

Lon: 144 ° 59.903 W

End Lat: 50 ° 0.124 N

Lon: 144 ° 59.771 W

Extra comment:

DMS cast

Will also have

5056 B P26 A
P26
CHL CHL
2018-01-26 2018-01-26
Loop Loop

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P26 Event #: 58 Ship: Laurier UTC Date (dd|mmm|yyyy): 27 | FEB | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	OPT	UBC											
1	1	271	2000	✓ 2000		x											UBC
2	2	272	2000	✓ 2000													UBC
3	3	273	2000	✓ 2000													UBC
4	4	274	2000	✓ 2000													UBC
5	5	275	1000	✓ 1000		x											UBC
6	6	276	1000	✓ 1000													UBC
7	7	277	1000	✓ 1000													UBC
8	8	278	1000	✓ 1000													UBC
9	9	279	500	✓ 501		x											UBC
10	10	280	500	✓ 500													UBC
11	11	281	500	✓ 501													UBC
12	12	282	500	✓ 501													UBC
13	13	283	300	✓ 300	xx												
14	14	284	100	✓ 99	xx												
15	15	285	50	✓ 50	xx												
16	16	286	25	✓ 25.0	xx												
17	17	287	10	✓ 10.0		x											UBC
18	18	288	10	✓ 10.0													UBC
19	19	289	10	✓ 10.0													UBC
20	20	290	10	✓ 10.0													UBC
21	21	291	10	✓ 10.0	xx												
22	22	292	5	✓ 5.5	xx												
23																	
24																	

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

Bottom Depth: 4250 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0010	1610
Bottom	0043	
End	0127	

Positional Information

Lat:	49 ° 59.97	N
Lon:	144 ° 59.94	W

▼

Lat:	49 ° 59.95	N
Lon:	144 ° 59.87	W

▼

Lat:	49 ° 59.988	N
Lon:	144 ° 59.876	W

Extra comments:
UBC & OPT cast

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: PA-011 Event #: 59 Ship: Laurier UTC Date (dd|mmm|yyyy): 27 | 07 | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	ONAr								
1	1	293	10	✓ 10	xx	x	x								O ₂ - O ₂ UR - O ₂
2	2	294	6	✓ 7.5	xx	x	x								O ₂ - O ₂ UR - O ₂
3	3	295	4 3	✓ 4.4	xx	x	x								O ₂ - O ₂ UR - O 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): K.S.

Bottom Depth: 4200 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0247	18:47
Bottom	0257	1857
End	0311	19:11

Positional Information

Lat:	50 ° 08.515	N
Lon:	144 ° 49.903	W

Start

Lat:	50 ° 08.533	N
Lon:	144 ° 49.775	W

Bottom

Lat:	50 ° 8.569	N
Lon:	144 ° 49.700	W

End

Extra comments:
CTD to 500 m

Water Properties Group

Sampling Log

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

Cruise ID:

2018-01

Station:

P35

Event #: 60

Ship: Laurier

UTC Date (dd|mmm|yyyy): 27 | 2 | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC						OPT	
1	1	295	5	✓ 5.5	x	x	xx	xx							
2	2	296	5	✓ 5.5										xx	
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): KS

Bottom Depth: 4200 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0530	2130
Bottom	0605	2205
End	0643	

Positional Information

Start	Lat: 49 ° 59.947 N
	Lon: 144 ° 18.196 W
Bottom	Lat: 49 ° 59.937 N
	Lon: 144 ° 18.234 W
End	Lat: 49 ° 59.993 N
	Lon: 144 ° 18.124 W

Extra comments:

Sample 295 repeated!

Water Properties Group

Sampling Log

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

Cruise ID:

2018-01

Station:

P25

Event #:

61

Ship:

Laurier

UTC Date (dd|mmm|yyyy): 27 Feb 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials						Comments				
			Target Pressure	Confirmed Pressure	CHL	HPLC	Nut	Sal	DIC	OPT					
1	1	297	2005	✓	2005				X	X X X					
2	2	298	2005	✓					X	X X X					
3	3	299	2005	✓					X	X X X					
4	4	300	2005	✓					X	X X X					
5	5	301	2005	✓					X	X X X					
6	6	302	2005	✓					X						
7	7	303	2005	✓					X						
8	8	304	2005	✓					X						
9	9	305	2005	✓					X						
10	10	306	2005	✓					X						
11	11	307	2005	✓					X						
12	12	308	2005	✓					X						
13	13	309	2005	✓					X						
14	14	310	2005	✓					X						
15	15	311	2005	✓					X						
16	16	312	2005	✓					X						
17	17	313	2005	✓					X						
18	18	314	2005	✓					X						
19	19	315	2005	✓					X						
20	20	316	2005	✓					X						
21	21	317	2005	✓					X						
22	22	318	2005	✓					X						
23	23	319	2005	✓					X						
24	24	320	5	✓	5	X X	X X	X	X		X X				

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

Bottom Depth: 4140 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	09 24	01 24
Bottom	10 00	
End	10 37	

Positional Information

Lat:	50 ° 0 005 N
Lon:	143 ° 36 233 W

Start

Lat:	49 ° 59 958 N
Lon:	143 ° 36 308 W

Bottom

Lat:	49 ° 59 877 N
Lon:	143 ° 36 262 W

End

Extra comments:
Calibration cast

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01

Station: P24

Event #: 62

Ship: Laurier

UTC Date (dd|mmm|yyyy): 27 | FEB | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	CHL	HPLC	Nut	Sal	DOC	Gels	Gases	OPT						
1	1	321	Bot-10	✓ 4043					x	x								
2	2	322	3500	✓ 3500				x	x									
3	3	323	3000	✓ 3000				x x	x	x								
4	4	324	2500	✓ 2500				x	x									
5	5	325	2000	✓ 2000				x	x	x								
6	6	326	1750	✓ 1750					x									
7	7	327	1500	✓ 1500					x	x								
8	8	328	1250	✓ 1250					x									
9	9	329	1000	✓ 1000					x	x								
10	10	330	800	✓ 800					x	x								
11	11	331	600	✓ 600					x	x								
12	12	332	400	✓ 400					x	x								
13	13	333	300	✓ 300					x									
14	14	334	200	✓ 200					x	x								
15	15	335	175	✓ 176					x									
16	16	336	150	✓ 150					x	x								
17	17	337	125	✓ 125					x									
18	18	338	100	✓ 100					x	x								
19	19	339	75	✓ 75					x									
20	20	340	50	✓ 50					x	x								
21	21	341	25	✓ 25					x	x								
22	22	342	10	✓ 10					x	x								
23	23	343	5	✓ 5					x	x		x x						
24	24	344	5	✓ 5		x x	x x	x	x		x x							

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

Bottom Depth: 4349 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1356	0556
Bottom	1505	
End	1638	

Positional Information

Lat: 49 ° 50 164 N
Lon: 142 ° 39 968 W

Lat: 49 ° 50 297 N
Lon: 142 ° 39 872 W

Lat: 49 ° 50 388 N
Lon: 142 ° 39 969 W

Extra comments:

DOC & Gels cast

Removed gel samples
from those indicated.

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P23

Event #: 63

Ship: Laurier

UTC Date (dd/mm/yyyy): 27/02/2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	DMSP		OPT	nut cal			
1	1	345	2005	✓ 2006					10						
2	2	346	600	✓ 600											
3	3	347	5	✓ 4.6								x			
4	4	348	5	✓ 4.6								x			
5	5	349	5	✓ 4.2	x	x	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): K.S

Bottom Depth: 4050 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1957	11:57
Bottom	2030	12:30
End	2110	13:10

Positional Information

Start	Lat: 49 ° 45.982 N	Lon: 141 ° 39.829 W
Bottom	Lat: 49 ° 46.045 N	Lon: 141 ° 39.816 W
End	Lat: 49 ° 46.104 N	Lon: 141 ° 39.883 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01

Station: P22

Event #: 64

Ship: Laurier

UTC Date (dd/mmm/yyyy): 28/02/2018

Event #.		Ship:		Laurier		UTC Date (dd/mm/yyyy)												
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed ✓ Pressure	CHL	HPLC	Nut	Sal	DOC	Gels	Gases	OPT						
1	1	350	Bot-10	3950					x	x								
2	2	351	3500	3500				x	x	x								
3	3	352	3000	3000				xx	x	x								
4	4	353	2500	2499				x	x	x								
5	5	354	2000	2000				x	x	x								
6	6	355	1750	1751					x									
7	7	356	1500	1500					x	x								
8	8	357	1250	1249					x									
9	9	358	1000	1001					x	x								
10	10	359	800	800					x	x								
11	11	360	600	600					x	x								
12	12	361	400	400					x	x								
13	13	362	300	300					x	x								
14	14	363	200	200					x	x								
15	15	364	175	175					x									
16	16	365	150	150					x	x								
17	17	366	125	126					x									
18	18	367	100	101					x	x								
19	19	368	75	74					x	x								
20	20	369	50	50					x	x								
21	21	370	25	25					x	x								
22	22	371	10	10.5					x	x								
23	23	372	5	5.0					x	x		xx						
24	24	373	5	5.0	xx	xx	x	x				xx						Spigot not closed -

Version: 25 Nov 2011

Transmissometer to be closed before each cast.

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): K.S./MR.

Bottom Depth: 3900 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0048	1648
Bottom	0201	1802
End	0341	1941

Positional Information

Start	Lat: 49 ° 42.076 N
Lon: 140 ° 39.944 W	

Bottom

Lat: 49 ° 42.052 N
Lon: 140 ° 39.516 W

End

Lat: 49 ° 42.490 N
Lon: 140 ° 38.647 W

Extra comments: BM 3950 altimeter @ 13m
DOC & Gels cast

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P20 Event #: 69 Ship: Laurier UTC Date (dd/mm/yyyy): 3/03/2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	DA	Phyto	OPT	UVic		
				✓	MR	HA	MA	TV	SB	MR/N			EX	TV		BCL 24 extra for Erik.
1	2	374	300	✓	298.5	x			x							
2	3	375	250	✓	252				x					x		
3	4	376	200	✓	200	x	xx	xx	x							
4	5	377	150	✓	150	x	xx	xx	x					x		
5	7	378	100	✓	100	x			x	x						
6	8	379	75	✓	75	x			xx	x						Fluo
7	9	380	60	✓	60				x	x	xx					Fluo
8	10	381	50	✓	48.2	x			x	x	xx			x		Fluo
9	12	382	40	✓	38.2	x			x	x	xx					Fluo
10	13	383	30	✓	30	x	xx	xx	x	x	xx					
11	14	384	25	✓	25	x			x	xx						
12	16	385	20	✓	20.9	xx	xxxx	xxxx	x	x				x		Fluo
13	17	386	15	✓	14.7	x			x	x	xx					
14	18	387	10	✓	10.5	x			x	x				x		Fluo
15	22	388	5	✓	5	x	xx	xx	x					x		
16	23	389	5	✓	5				x	xx						Fluo
17	24	390	0	✓	5	x	xx	xx	x	xx						
18	1	391	300	✓	299								xx			
19	6	392	100	✓	100								xx			
20	11	393	50	✓	49.5								xx			
21	15	394	25	✓	25.2								xx			
22	19	395	10	✓	10.3								xx			
23	20	396	5	✓	5								xx			
24	21	397	5	✓	5								xx			For Erik

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

Bottom Depth: 2400 m
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0000	1600
Bottom	0008	1608
End	0034	1634

Positional Information

Lat:	49 ° 33.502	N
Lon:	138 ° 40.100	W

Bottom

Lat:	49 ° 33.875	N
Lon:	138 ° 40.016	W

End

Lat:	49 ° 33.823	N
Lon:	138 ° 39.998	W

Extra comments:
 DMS cast - OUT-OF-ORDER
 Plus loops for Chl x2
 18; 1-5; 19; 6-8; 20; 9-11
 21; 12-14; 22; 23; 15-17

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P20 Event #: 72 Ship: Laurier UTC Date (dd/mm/yyyy): 03/03/2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	DOC	Gases	SAGs	DNA	OPT				
1		398	Bot-10	✓ 4020	x		x	x	x	x	xx	x	x	xx				
2		399	3500	✓ 3500	x	xx	x	x	xx									
3		400	3500	✓ 3500	xx	x	xx	xx	x	x								
4		401	3000	✓ 3000	x	xx	x	x	x	x	xx	x	x					
5		402	2500	✓ 2500	x	x	x	x	x	x								
6		403	2000	✓ 1999	x	xx	x	x	x	x	xx	x	x					
7		404	1500	✓ 1499	x	x	x	x	x	x		x	x					
8		405	1250	✓ 1249	xx	xx	x	x	x	x		x	x					
9		406	1000	✓ 999	x	xx	x	x	x	x	xx	x	x					
10		407	800	✓ 700	x		x	x	x	x		x	x					
11		408	600	✓ 600	x		x	x	x	x	xx	x	x					
12		409	400	✓ 399	x		x	x	x	x		x	x					
13		410	300	✓ 300	xx		x		x	x		x	x					
14		411	250	✓ 250	x		x		x	x	xx							
15		412	200	✓ 198	x		x		x	x	xx	x	x					
16		413	175	✓ 174.5	x		xx		x	x								
17		414	150	✓ 150	x		x		x	x	xx	x	x					
18		415	125	✓ 125.5	xx		x		x	x								
19		416	100	✓ 100	x		x		x	x	xx	x	x					
20		417	75	✓ 75.3	x		x		x	x								
21		418	50	✓ 50.3	x		x		x	x		x	x					
22		419	25	✓ 24	x		x		x	x	xx	x	x					
23		420	10	✓ 10	x		x		x	x		x	x					
24		421	5	✓ 4.7	x	x	x		x	x	xx							

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

Watchkeeper(s): KS/MR

Bottom Depth: 3920 m

Transmissio Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0300	1900
Bottom	0408	2008
End	0547	2147

Positional Information

Lat: 49 ° 33.901 N

Lon: 138 ° 40.074 W

Lat: 49 ° 33.522 N

Lon: 138 ° 39.962 W

Lat: 49 ° 33.547 N

Lon: 138 ° 39.907 W

Extra comments:

Deep cast

Will also have loops for Sal x1, Nut x1

13m from Btm (4020)

Water Properties Group

Sampling Log

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

Cruise ID:

2018-01

Station:

P19

Event #:

73

Ship:

Laurier

UTC Date (dd|mmm|yyyy):

3 | MRS | 2018

Cruise ID: 2018-01			Station: F19		Event ID: 19												Comments
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC								OPT	
1	1	422	5	✓ S	x	x	xx	xx									
2	2	423	5	✓ S										xx			
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 3930 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	11:17	03:17
Bottom	11:54	03:54
End	12:31	04:31

Positional Information

Lat: <u>49</u>	<u>° 29.944</u>	<u>N</u>
Lon: <u>137</u>	<u>° 39.992</u>	<u>W</u>

Start

Lat: <u>49</u>	<u>° 29.944</u>	<u>N</u>
Lon: <u>137</u>	<u>° 39.790</u>	<u>W</u>

Bottom

Lat: <u>49</u>	<u>° 29.968</u>	<u>N</u>
Lon: <u>137</u>	<u>° 39.982</u>	<u>W</u>

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P18 Event #: 74 Ship: Laurier UTC Date (dd|mm|yyyy): 3 | MAR | 28

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	CHL	HPLC	Nut	Sal	DOC	Gels	Gases	OPT						
1	1	424	Bot-10	✓ 3891					x	x								
2	2	425	3500	✓ 2500				x	x	x								
3	3	426	3000	✓ 3000				x x	x	x								
4	4	427	2500	✓ 2500				x	x	x								
5	5	428	2000	✓ 2000				x	x	x								
6	6	429	1750	✓ 1749					x									
7	7	430	1500	✓ 1500					x	x								
8	8	431	1250	✓ 1250					x									
9	9	432	1000	✓ 1000					x	x								
10	10	433	800	✓ 800					x	x								
11	11	434	600	✓ 600					x	x								
12	12	435	400	✓ 399					x	x								
13	13	436	300	✓ 300					x	x								
14	14	437	200	✓ 200					x	x								
15	15	438	175	✓ 175					x									
16	16	439	150	✓ 150					x	x								
17	17	440	125	✓ 125					x									
18	18	441	100	✓ 100					x	x								
19	19	442	75	✓ 75					x	x								
20	20	443	50	✓ 50					x	x								
21	21	444	25	✓ 25					x	x								
22	22	445	10	✓ 9					x	x								
23	23	446	5	✓ 4					x	x		x x						
24	24	447	5	✓ 4		x x	x x	x	x			x x						

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

Bottom Depth: 3835 m

Transmissio Cleaned: Y N

Time	UTC	Local
Start	1645	0845
Bottom	1748	
End	1909	

Positional Information

Start
Lat: 49 ° 25 870 N
Lon: 136 ° 40 055 W

Bottom
Lat: 49 ° 25 843 N
Lon: 136 ° 40 046 W

End
Lat: 49 ° 25 902 N
Lon: 136 ° 40 181 W

Extra comments:
DOC & Gels cast

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P17 Event #: 75 Ship: Laurier UTC Date (dd|mmm|yyyy): 03 | 03 | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC			OPT					
1		448	5	✓ 4.9	x	x	xx	xx								
2		449	5	✓ 4.9							xx					
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): KS

Bottom Depth: 3640 m
Transmisso Cleaned: ☒ I ☐ N

Time	UTC	Local
Start	2305	15:05
Bottom	2337	15:37
End	0013	16:13

Positional Information

Start	Lat: 49 ° 20.975 N
	Lon: 135 ° 39.852 W
	▼
Bottom	Lat: 49 ° 20.950 N
	Lon: 135 ° 39.757 W
	▼
End	Lat: 49 ° 20.959 N
	Lon: 135 ° 39.641 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P16 Event #: 76 Ship: Laurier UTC Date (dd|mmm|yyyy): 04 | 03 | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	DA	Phyto	OPT	UVic		
1		450	300	✓ 300	x			x								BTM lat, long written @ 250m on way up
2		451	250	✓ 250				xx						x		
3		452	200	✓ 199	x	xx	xx	x								
4		453	150	✓ 150	x	xx	xx	x						x		
5		454	100	✓ 100	x			x	x							TOP VALVE LOCK
6		455	75	✓ 75	x			x	x							Fluo
7		456	60	✓ 60				x	xx	xx						Fluo
8		457	50	✓ 50	x			x	x	xx				x		Fluo
9		458	40	✓ 39.5	x			x	x	xx						Fluo
10		459	30	✓ 30	x	xx	xx	x	x	xx						
11		460	25	✓ 24.4	x			x	xx							
12		461	20	✓ 20	xx	xxxx	xxxx	x	x					x		Fluo
13		462	15	✓ 14.9	x			x	x	xx						
14		463	10	✓ 9.9	x			x	x					x		Fluo
15		464	5	✓ 5.0	x	xx	xx	x						x		
16		465	5	✓ 5					x	xx						Fluo
17		466	0	✓ 2.0	x	xx	xx	x	x							
18		467	300	✓ 300									xx			
19		468	100	✓ 100									xx			
20		469	50	✓ 51									xx			
21		470	25	✓ 24.4									xx			
22		471	10	✓ 9.9									xx			
23																
24		472	5	✓ 5									xx			

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

Bottom Depth: 3635 m
 Transmisso Cleaned: ☒ / N

Time	UTC	Local
Start	04:14	20:14
Bottom	04:20	
End	04:48	20:48

Positional Information

Lat:	49 ° 17.070	N
Lon:	134 ° 40.084	W

Start

Bottom

End

Lat:	49 ° 17.027	N
Lon:	134 ° 40.040	W

Lat:	49 ° 16.931	N
Lon:	134 ° 39.984	W

Extra comments:
 DMS cast - OUT-OF-ORDER
 Plus loops for Chl x2
 18; 1 -5; 19; 6-8; 20; 9-11
 21; 12-14; 22; 24; 15-17

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P16 Event #: 79 Ship: Laurier UTC Date (dd/mm/yyyy): 04/03/2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC		DOC	Gels	Gases	SAGs	DNA	OPT		
1	1	473	Bot-10	✓ 3680	x		x	x	x		x	x	xx	x	x	xx		
2	2	474	3500	✓ 3500	x	xx	x	x	xx									
3	3	475	3500	✓ 3500	xx	x	x	x	x		x	x						
4	4	476	3000	✓ 3000	x	xx	x	x	x		x	x	xx	x	x			
5	5	477	2500	✓ 2500	x	x	xx	xx	x		x	x						
6	6	478	2000	✓ 2000	x	xx	x	x	x		x	x	xx	x	x			
7	7	479	1500	✓ 1500	x	x	x	x	x		x	x		x	x			
8	8	480	1250	✓ 1250	x	xx	x	x	x		x	x		x	x			
9	9	481	1000	✓ 1000	x	xx	x	x	x		x	x	xx	x	x			
10	10	482	800	✓ 800	xx		x	x	x		x	x		x	x			
11	11	483	600	✓ 600	x		x	x	x		x	x	xx	x	x			
12	12	484	400	✓ 400	x		x	x	x		x	x		x	x			
13	13	485	300	✓ 300	x		x		x		x	x		x	x			
14	14	486	250	✓ 250	x		x		x		x	x	xx					
15	15	487	200	✓ 200	x		x		x		x	x	xx	x	x			
16	16	488	175	✓ 175	xx		x		x		x	x						
17	17	489	150	✓ 150	x		x		x		x	x	xx	x	x			
18	18	490	125	✓ 125	x		x		x		x	x						
19	19	491	100	✓ 100	x		x		x		x	x	xx	x	x			
20	20	492	75	✓ 75	x		xx		x		x	x						
21	21	493	50	✓ 50	xx		x		x		x	x		x	x			
22	22	494	25	✓ 25	x		x		x		x	x	xx	x	x			
23	23	495	10	✓ 10	x		x		x		x	x		x	x			
24	24	496	5	✓ 5	x	x	x		x		x	x	xx					

Profile type:
 ROS TRM X-Niskin other?
 Watchkeeper(s): K5

Bottom Depth: 3635 m
 Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0627	2227
Bottom	0734	
End	0853	

Positional Information

Lat: 49 ° 16 912	N
Lon: 134 ° 39 954	W

Start

Lat: 49 ° 16 708	N
Lon: 134 ° 39 773	W

Bottom

Lat: 49 ° 16 633	N
Lon: 134 ° 39 706	W

End

Extra comments:
 Deep cast
 Will also have loops for Sal x1,
 Nut x1 5079

Water Properties Group

Sampling Log

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

Cruise ID:

2018-01

Station:

P11

Event #:

80

Ship:

Laurier

UTC Date (dd|mmm|yyyy): 05 | 03 | 2018

Cruise ID: 2018-01			Station: P11		Event #: 80		Ship: R/V		Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			Target Pressure	Confirmed ☒	Pressure	Nut-F	Sal	Chl	HPLC										OPT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): K.S.

Bottom Depth: 2735 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0156	1756
Bottom	0230	1830
End	0305	1905

Positional Information

Start Lat: 48 ° 55.999 N

Start Lon: 130 ° 10.052 W

Bottom Lat: 48 ° 56.000 N

Bottom Lon: 130 ° 9.877 W

End Lat: 48 ° 55.858 N

End Lon: 130 ° 9.553 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: P10 Event #: 81 Ship: Laurier UTC Date (dd|mm|yyyy): 05 | 03 | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target	Confirmed	Nut-F	Sal	Chl	HPLC	UBC		OPT							
			Pressure	✓ Pressure	MA	MA	MA	MA	Gases		frk							
1		499	5	✓ 4.8	x	x	xx	xx	xx									
2		500	5	✓ 4.8							xx							
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): KS.

Bottom Depth: ²⁶⁴⁰ 2640 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0520	2120
Bottom	0555	2155
End	0633	2233

Positional Information

Start	Lat: 48 ° 53.533 N
	Lon: 129 ° 39.985 W

Bottom

Lat: 48 ° 53.513 N
Lon: 129 ° 39.914 W

End

Lat: 48 ° 53.539 N
Lon: 129 ° 39.764 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2018-01

Station:

P9

Event #:

82

Ship:

Laurier

UTC Date (dd|mmm|yyyy): 5 | 03 | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC			OPT				
1	1	501 473	5	✓ 5.	x	x	x x	x x							
2	2	502 474	5	✓ 5							x x				
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): MB/PC

Bottom Depth: 2350 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	8:48	12:48
Bottom	9:18	1:18
End	9:47	1:47

Positional Information

Lat:	48 ° 51 433 N
Lon:	129 ° 9 958 W

Lat:	48 ° 51 482 N
Lon:	129 ° 9 868 W

Lat:	48 ° 51 526 N
Lon:	129 ° 9 790 W

Extra comments:

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

UTC Date (dd mmm yyyy): 06 03 2018

Extra comments: 1/2 4 cell B7141

OUT-OF-ORDER!

14; 1; 2; 3; 4; 15; 5; 6; 16; 7; 8;
17; 9; 10; 16; 11; 12; 13; 19

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01

Station: Haro 59

Event #: 86

Ship: Laurier

UTC Date (dd|mmm|yyyy): 6 MAR 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	OXY	Nut-fr	DIC	Sal	Optical	CHL	HPLC	Phyto	DA				
1	2	522	Bot-5	✓ 227	x	x	x										
2	3	523	200	✓ 200	x	x	xx										
3	4	524	175	✓ 175	xx	x											
4	5	525	150	✓ 149	x	x	x										
5	6	526	125	✓ 125	x	xx											
6	7	527	100	✓ 100	x	x	x										
7	9	528	75	✓ 75	x	x	x										
8	10	529	50	✓ 50	x	x	x										
9	12	530	40	✓ 40	xx	x											
10	13	531	30	✓ 30	x	xx	x										
11	15	532	20	✓ 20	x	x	xx			xx							
12	16	533	10	✓ 10	x	x	x			xx							
13	18	534	5	✓ 5	x	x	x	x									
14	19	535	0	✓ 2.2	x	x	x			xx							
15	1	536	Bot-5	✓ 227					xx								
16	8	537	100	✓ 100					xx								
17	11	538	50	✓ 50					xx								
18	14	539	25	✓ 25					xx								
19	17	540	10	✓ 10					xx								
20	20	541	0	✓ 2.2					xx								
21																	
22																	
23																	
24																	

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

Bottom Depth: 237 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1415	0615
Bottom	1418	
End	1436	

Positional Information

Lat: 48° 36.86 N
Lon: 123° 14.86 W

Lat: 48° 36.93 N
Lon: 123° 14.91 W

Lat: 48° 37.277 N
Lon: 123° 14.797 W

Extra comments:

OUT-OF-ORDER

18; 1; 2; 3; 4; 5; 6; 16; 7; 8; 17;
9; 10; 18; 11; 12; 19; 13; 14; 20

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: 56 Event #: 88 Ship: Laurier UTC Date (dd/mmm/yyyy): 6 MAR 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-F	Chl	DIC	HPLC	Phyto	DA				
1	1	542	Bot-5	✓ 203	x		xx		x							ALT: 4.3
2	2	543	200	✓ 200	xx		x		x							
3	3	544	175	✓ 175	x		x									
4	4	545	150	✓ 150	x		x		xx							
5	5	546	125	✓ 125	x		x		x							
6	6	547	100	✓ 100	x		x		x							
7	7	548	75	✓ 75	x		xx		x							
8	8	549	50	✓ 50	x		x		x							
9	9	550	40	✓ 40	x		x									
10	10	551	30	✓ 30	xx		x		x							
11	11	552	20	✓ 20	x		x	xx	xx							
12	12	553	10	✓ 10	x		x	xx	x							
13	13	554	5	✓ 5	x	x	x		x							
14	14	555	0	✓ 2.2	x		x		x							
15	15	556	0	✓ 2.2				xx		xx	x	x				
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: ~210 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1751	0751
Bottom	1755	
End	1812	

Positional Information

Lat:	48 ° 46 472 N
Lon:	123 ° 1 558 W

Start
Bottom
End

Lat:	48 ° 46 472 N
Lon:	123 ° 1 598 W

Lat:	48 ° 46 397 N
Lon:	123 ° 1 734 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: 46 Event #: 90 Ship: Laurier UTC Date (dd/mm/yyyy): 6 MAR 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	HPLC						
1		557	20	✓ 20			x	xx								
2		558	10	✓ 10			x	xx								
3		559	0	✓ 2.6			x	xx		xx					Fluo: ~1.4	
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): MR / K.S.

Bottom Depth: 179 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2007	1207
Bottom	2011	
End	2020	1219

Positional Information
Start
Lat: 48 ° 51.16 N
Lon: 123 ° 10.22 W

Bottom
Lat: 48 ° 51.09 N
Lon: 123 ° 10.16 W

End
Lat: 48 ° 50.954 N
Lon: 123 ° 10.030 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01

Station: 42

Event #: 92

Ship: Laurier

UTC Date (dd|mmm|yyyy): 06 | 03 | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target	Confirmed	Oxy	Sal	Nut-F	Chl	DIC	HPLC	Phyto								
			Pressure	✓ Pressure															
1		577	Bot-5	✓	315	x		x		x									
2		578	300	✓	300	x		x		xx									
3		579	250	✓	250	x		x		x									
4		580	200	✓	200	x		x		x									
5		581	175	✓	175	x		xx											
6		582	150	✓	150	x		x		x									
7		583	125	✓	125	xx		x		x									
8		584	100	✓	100	x		x		x									
9		585	75	✓	75	x		x		xx									
10		586	50	✓	50	x		x		x									
11		587	40	✓	40	x		x		x									
12		588	30	✓	30.2	xx		x		x									
13		589	20	✓	20.1	x		xx	xx	x									
14		590	10	✓	10.2	x		x	xx	x									
15		591	5	✓	5.1	x	x	x		x									
16		592	0	✓	2.5	x		x	xx	x	xx							Flour: 2.5-3.5	
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 319 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2243	1443
Bottom	2249	
End	2312	

Positional Information

Lat:	49° 01' 77.6"	N
Lon:	123° 26' 31.9"	W

Start

Lat:	°	N
Lon:	°	W

Bottom

Lat:	°	N
Lon:	°	W

End

Lat:	49° 01' 63.2"	N
Lon:	123° 26' 30.8"	W

Extra comments:

Bot 31 Sdb
 Alt 5.69

Sampling Log

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

Cruise ID: 2018-01 Station: 41

Event #: 95

Ship: Laurier

UTC Date (dd mmm yyyy): ~~06~~⁰⁷ 03 2018

Niskin #		Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Ship: <u>Laurier</u>	UTC Date (dd/mm/yy)	
				Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	HPLC	DA	Phyto	OPT	Comments			
					✓			MA/TV	MA/TV		MA/TV	MA/TV	MA/TV					
1		560	Bot-5	✓	242.1			x										
2		561	200	✓	200			x										
3		562	100	✓	99.5			x										
4		563	75	✓	74.8			x										
5		564	50	✓	50.2			xx										
6		565	40	✓	40			x										
7		566	30	✓	30.1			x										
8		567	20	✓	20.2			x	xx									
9		568	10	✓	9.9			x	xx									
10		569	5	✓	5.0			x										
11		570	0		3.0			x	xx		xx	x	x					
12		571	Bot-5	✓	242.1											Fluor ~ 5-16		
13		572	100	✓	99.5									xx				
14		573	50	✓	50.2									xx				
15		574	25	✓	25									xx				
16		575	10	✓	9.9									xx				
17		576	0	✓	3.0									xx				
18														xx				
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): K.S.

Bottom Depth: 247 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0048	
Bottom	0053	1653
End	0113	1713

Positional Information

Lat:	49 ° 03. 257	N
Lon:	123 ° 22. 554	W

Start	Lat:	Lon:
	49 ° 03.257	123 ° 22.594
	▼	
Bottom	Lat:	Lon:
	49 ° 03.252	123 ° 22.603

End	Lat:	49 ° 3.260	N
	Lon:	123 ° 22.745	W

Extra comments:
OUT-OF-ORDER!
12; 1; 2; 3; 18; 4; 5; 14; 8; 7; 15;
8; 9; 10; 11; 12; 17;
BTM 242 AIT 5.0

Water Properties Group

Sampling Log

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

Cruise ID:

2018-01

Station:

GE01

Event #:

98

Ship:

Laurier

UTC Date (dd|mmm|yyyy): 07 | 03 | 2018

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-F	Chl	DIC	HPLC	Phyto	DA						
					14.19	K.S	ERIL	K.S/ERL	K.S/V	K.S	K.S	K.S						
1		593	Bot-5	✓ 398	x		x		x									
2		594	350	✓ 350	x		x		xx									
3		595	300	✓ 300	xx		x		x									
4		596	250	✓ 250	x		x		x									
5		597	200	✓ 200	x		x		x									
6		598	150	✓ 150	x		x		x									
7		599	125	✓ 125	x		xx		x									
8		600	100	✓ 100	xx		x		x									
9		601	75	✓ 74.7	x		x		xx									
10		602	50	✓ 49.5	x	x	x		x									
11		603	40	✓ 40	x		x		x									
12		604	30	✓ 29.7	x		x		x									
13		605	20	✓ 19.5	x		x	xx	x									
14		606	10	✓ 9.7	x		xx	xx	x									
15		607	5	✓ 4.9	x	x	x		x									
16		608	0	✓ 1.9	x		x	xx	x	xx	x	x						Fluor: ~6.5
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): K.S

Bottom Depth: 402 m

Transmisso Cleaned: (Y) N

Time UTC Local

Start 0429 2029

Bottom 4.36

End 0458

Positional Information

Start Lat: 49 ° 15.050 N

Lon: 123 ° 45.026 W

Bottom Lat: 49 ° 15.045 N

Lon: 123 ° 45.0126 W

End Lat: 49 ° 15.036 N

Lon: 123 ° 44.971 W

Extra comments:

BTM: 398

ALT: 50

Altimeter went back to 98? while at BTM

Water Properties Group

Sampling Log

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

Cruise ID: 2018-01 Station: CPF1 Event #: 100 Ship: Laurier UTC Date (dd|mmm|yyyy): 07|03|2018

			Rosette Operation		Samples Taken / Sampler's Initials										Comments			
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	OXY	Nut-fr	DIC	Sal	Optical	CHL	HPLC	Phyto	DA					
1	1	612	Bot-5	✓ 240	x	x	x											
2	2	613	200	✓ 200	x	x	xx											
3	3	614	175	✓ 175	xx	x												
4	4	615	150	✓ 150	x	x	x											
5	5	616	125	✓ 125	x	xx	x											
6	6	617	100	✓ 100	x	x	x											
7	7	618	75	✓ 75	x	x	x											
8	8	619	50	✓ 50	x	x	x											
9	9	620	40	✓ 40	xx	x	x											
10	10	621	30	✓ 30	x	xx	x											
11	11	622	20	✓ 20	x	x	xx			xx								
12	12	623	10	✓ 10	x	x	x			xx								
13	13	624	5	✓ 5	x	x	x	x										
14	14	625	0	✓ 1.6	x	x	x			xx	xx	x	x					Fluor ~ 6-7
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): K.S/MA

Bottom Depth: 245 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0733	2333
Bottom	0738	
End	0757	

Positional Information
Start
Lat: 49 ° 22.055 N
Lon: 124 ° 04.8290 W

Bottom
Lat: 49 ° 22.054 N
Lon: 124 ° 04.757 W

End
Lat: 49 ° 22 079 N
Lon: 124 ° 4 584 W

Extra comments:
240m (Btm)
Altitude ~ 28