

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20⁰⁹ Station: P1 Event #: 5 Ship: Tully UTC Date (dd:mmm/yyyy): 08 JUN 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target	Confirmed	Nut-F	Sal	Chl	HPLC	DIC	Oxy	pH							
			Pressure	✓ Pressure														
1	1	1	Bot-10	✓ 113	x				xx	xx	xxx							
2	2	2	(30) Max	✓ 30	x		xx	xx	x	x	x							
3	3	3	5	✓ 5.5	x	x	xx	xx	x	x	x							
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: 120 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1707	1007
Bottom	1709	
End	1714	

Positional Information

Lat:	48 ° 34 48 N
Lon:	125 ° 30 02 W

Bottom

Lat:	48 ° 34 49 N
Lon:	125 ° 30 00 W

End

Lat:	48 ° 34 49 N
Lon:	125 ° 29 39 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20⁰⁹ Station: P2 Event #: 6 Ship: Tully UTC Date (dd mmm yyyy): 08 06 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target	Confirmed	Oxy	Nut-F	Nut-C	Sal -	DIC	pH		Céline						
			Pressure	✓ Pressure	0.1/0.1	✓		✓	✓	15.6		NH4						
1	1	4	Bot-10	✓	105	x	x		x	x		x						
2	2	5	100	✓	100	x	x		x	x		x						
3	3	6	75	✓	75	x	x		x x	x		x						
4	4	7	75	✓	75	x x	x		x	x								
5	5	8	50	✓	50	x	x		x	x x x		x						
6	6	9	25	✓	25	x	x x		x	x		x						
7	7	10	10	✓	10	x	x		x	x		x						
8	8	11	5	✓	5	x	x	x	x	x		x						
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): DY

Bottom Depth: 115 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2033	1333
Bottom	2036	
End	2044	

Positional Information

Lat:	48 ° 36.04	N
Lon:	126 ° 0.05	W

▼

Lat:	48 ° 36.04	N
Lon:	126 ° 0.06	W

▼

Lat:	48 ° 36.08	N
Lon:	126 ° 00.04	W

Extra comments:
Deep cast + Céline

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20⁰⁹ Station: P2 Event #: 8 Ship: Tully UTC Date (dd mmm yyyy): 08 JUN 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC					
1	1	12	100	✓	100	x	x	x	xx	x					Dripping badly
2	2	13	75	✓	75	x			x	x					
3	3	14	50	✓	50	x			x	x					
4	4	15	40	✓	40	x			x	x					
5	5	16	30	✓	30	x			x	x					
6	7	17	25	✓	25	x			x	xx					
7	8	18	20	✓	20	xx	xx	xx	x	x					
8	7	19	15	✓	15	x			x	x					
9	10	20	10	✓	10	x			x	x					
10	13	21	5	✓	5	x	x	x	x	x					
11	14	22	0	✓	29	x	x	x	x	x					
12	6	23	(30 or M)	✓	30				xx	xx					
13	11	24	15 or (M)	✓	10				xx	xx					
14	12	25	5	✓	5				xx	xx					
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 118 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2123	1423
Bottom	2125	
End	2137	

Positional Information

Start
Lat: 48° 36.04 N
Lon: 126° 00.19 WBottom
Lat: 48° 36.03 N
Lon: 126° 00.20 WEnd
Lat: 48° 36.05 N
Lon: 126° 00.21 W

Extra comments:

DMS cast; out-of-order

1-5; 12; 6-9; 13;
14; 10-11

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P3 Event #: 9 Ship: Tully UTC Date (dd mmm yyyy): 08 06 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments						
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	Gases	Niko									
1	1	26	300	✓	300						xx								
2	2	27	250	✓	250						xx								
3	3	28	200	✓	200						xx								
4	4	29	175	✓	175						xx								
5	5	30	150	✓	150						xx								
6	6	31	125	✓	125						xx								
7	7	32	100	✓	100						xx								
8	8	33	75	✓	75						xx								
9	9	34	50	✓	50						xx								
10	12	35	5	✓	5						xx								
11	10	36	30 Max	✓	29	x		xx	xx										2.2 @ 30 m HPLC
12	11	37	5	✓	5	x	x	xx	xx										
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): DYBottom Depth: 812 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2359	1659
Bottom	0013	
End	0037	

Positional Information
Start
Lat: 48 ° 37.44 N
Lon: 126 ° 19.90 WBottom
Lat: 48 ° 37.44 N
Lon: 126 ° 20.01 WEnd
Lat: 48 ° 37.42 N
Lon: 126 ° 20.06 WExtra comments:
OUT-OF-ORDER
1-9; 11; 12; 10

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P4 Event #: 10 Ship: Tully UTC Date (dd|mmm|yyyy): 9 | 6 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments						
			Target	Confirmed	Oxy	Nut-F	Nut-C	Sal	DIC	pH		DNA	gases	SAGs	Celine				
			Pressure	✓ Pressure											NH4				
1		38	Bot-10	✓	1321	x	x	x		x	x		x	xx	x	x			
2		39	1250	✓	1250	x	x	x	x	xx	x		x	xx	x	x			
3		40	1250	✓	1250	xx	x	x	xx	x	x								
4		41	1000	✓	1000	x	x	x	xx	x	x		x	xx	x	x			
5		42	800	✓	800	x	x	x	x	x	x		x	xx	x	x			
6		43	600	✓	600	x	xx	xx		x	xxx		x	xx	x	x			
7		44	400	✓	401	x	x	x		x	x		x	xx	x	x			
8		45	300	✓	300	x	x			x	x		x	xx	x	x			
9		46	250	✓	250	x	x			x	x					x			
10		47	200	✓	200	x	x			x	x		x	xxx	x	x			
11		48	175	✓	175	x	x			x	x					x			
12		49	150	✓	150	x	x			x	x		x	xx	x	x			
13		50	125	✓	125	x	xx			x	x					x			
14		51	100	✓	100	x	x			x	x		x	xx	x	x			
15		52	75	✓	75	xx	x			x	x					x			
16		53	50	✓	49	x	x			x	x		x	xx	x	x			
17		54	25	✓	25	x	x			x	xxx		x	xx	x	x			
18		55	10	✓	10	x	x			x	x		x	xx	x	x			
19		56	5	✓	5	x	x		x	x	x					x			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 1700 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0340	2040
Bottom	0402	
End	0439	2139

Positional Information
Lat: 48 ° 38.94 N
Lon: 126 ° 39.96 W

Lat: 48 ° 38.96 N
Lon: 126 ° 39.96 W

Lat: 48 ° 38.99 N
Lon: 126 ° 39.99 W

Extra comments:
Deep cast
SAMPLING DONE ~ 2245

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P4 Event #: 12 Ship: Tully UTC Date (dd mmm yyyy): 9 6 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments
			Target Pressure	Confirmed ✓ Pressure	Niko gases													
1		57	300	✓ 300		x x												
2		58	250	✓ 250		x x												
3		59	210	✓ 210		x x												
4		60	180	✓ 180		x x												
5		61	160	✓ 159		x x												
6		62	140	✓ 141		x x												
7		63	120	✓ 119		x x												
8		64	100	✓ 100		x x												
9		65	85	✓ 85		x x												
10		66	70	✓ 68		x x												
11		67	60	✓ 60		x x												
12		68	55	✓ 55		x x												
13		69	50	✓ 51		x x												
14		70	45	✓ 44		x x												
15		71	40	✓ 39		x x												
16		72	35	✓ 35		x x												
17		73	30	✓ 30		x x												
18		74	25	✓ 25		x x												
19		75	45	✓ 44		x x												
20		76	20	✓ 20		x x												
21		77	15	✓ 14		x x												
22		78	10	✓ 10		x x												
23		79	5	✓ 5		x x												
24		80	5	✓ 5		x x												

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

Bottom Depth: 1310 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0608	2308
Bottom	0613	
End	0638	

Positional Information

Start	Lat: 48 ° 38.99 N
	Lon: 126 ° 39.99 W
Bottom	Lat: 48 ° 38.99 N
	Lon: 126 ° 39.99 W
End	Lat: 48 ° 38.99 N
	Lon: 126 ° 39.99 W

Extra comments:
Niko's cast
out of order
14-19-15

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P4

Event #: 13

Ship: Tully

UTC Date (dd mmm/yyyy): 09 JUN 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	UBC	Cs									
1	1	81	Bot-10	✓ 1320	x										
2	2	82	Bot-10	✓											
3	3	83	Bot-10	✓											
4	4	84	Bot-10	✓											
5	5	85	1000	✓ 1000	x										
6	6	86	1000	✓											
7	7	87	1000	✓											
8	8	88	1000	✓											
9	9	89	500	✓ 500	x										
10	10	90	500	✓											
11	11	91	500	✓											
12	12	92	500	✓											
13	13	93	10	✓ 10	x										
14	14	94	10	✓											
15	15	95	10	✓											
16	16	96	10	✓											
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 1330 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0733	0033
Bottom	0755	
End	0821	

Positional Information

Lat:	48 ° 38 99 N
Lon:	126 ° 39 98 W

Start

Lat:	48 ° 38 99 N
Lon:	126 ° 39 99 W

Bottom

Lat:	48 ° 38 99 N
Lon:	126 ° 39 99 W

End

Lat:	48 ° 38 99 N
Lon:	126 ° 39 99 W

Extra comments:

Jade's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P4 Event #: 15 Ship: Tully UTC Date (dd mmm/yyyy): 07 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments	
			Target	Confirmed	Nut-F	Sal	Chl		18O	NO3	NH4	17O	ONAr	DO	NH4			
			Pressure	✓ Pressure	IOS	IOS	IOS				incub							
1	1	98	Below ML	✓ 48		x							x x					
2	2	99	1%	✓ 13	x	x	x		x x x	x x	x			x x	x x			
3	3	100	15%	✓ 10	x	x	x		x x x	x x	x			x x	x x			
4	5	101	30%	✓ 2.5	x	x	x		x x x	x	x			x x	x x			
5	6	102	50%	✓ 2.5	x	x	x		x x x	x	x			x x	x x			
6	7	103	100%	✓ 2.5	x		x			x x x	x x x				x x			
7	8	104	100%	✓ 2.5					x x x			x x	x x	x x				
8	4	105	in ML	✓ 5									x x	x x				
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:	1310	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	1135	0435
Bottom	1138	
End	1146	

Positional Information
Start
Lat: 48 ° 38 99 N
Lon: 126 ° 39 99 W

Bottom
Lat: 48 ° 38 99 N
Lon: 126 ° 39 99 W

End
Lat: 48 ° 38 99 N
Lon: 126 ° 39 99 W

Extra comments:
Amanda's cast
OUT-OF-ORDER
1-3, 8, 4-7

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P4

Event #:

16

Ship:

Tully

UTC Date (dd mmm yyyy): 09 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	C										
1	1	106	Bot-10	✓ 1323	x										
2	2	107	1250	✓ 1250	x										
3	3	108	1000	✓ 1000	x										
4	4	109	1000	✓ 1000	x										
5	5	110	800	✓ 800	x										
6	6	111	800	✓ 800	x										
7	7	112	600	✓ 600	x										
8	8	113	400	✓ 400	x										
9	9	114	200	✓ 200	x										
10	10	115	100	✓ 100	x										
11	11	116	50	✓ 50	x										
12	12	117	10	✓ 11	x										
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

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

Time	UTC	Local
Start	1312	0612
Bottom	1336	
End	1407	

Positional Information

Start	Lat: 48 ° 38 99	N
	Lon: 126 ° 39 99	W

Bottom

Lat: 48 ° 38 99	N
Lon: 126 ° 39 99	W

End

Lat: 48 ° 38 99	N
Lon: 126 ° 39 99	W

Extra comments:

Céline's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P4 Event #: 17 Ship: Tully UTC Date (dd mmm yyyy): 09 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC	Phyto			
1	1	118	300	✓ 299	x			x							
2	2	119	200	✓ 200	x	x	x	x							
3	3	120	175	✓ 175	x	x	x	x							
4	4	121	100	✓ 100	x	x	x	x		x					
5	5	122	75	✓ 75	x			x		x					
6	6	123	50	✓ 50	x			x		x					
7	7	124	40	✓ 40	x			x		x					
8	8	125	30	✓ 30	x			x		x					
9	10	126	25	✓ 25	x			x		x					
10	11	127	20	✓ 20	xx	xx	xx	x		xx					
11	12	128	15	✓ 15	x			x		x					
12	14	129	10	✓ 10	x			xx		x					
13	15	130	5	✓ 5	x	x	x	x		x					
14	17	131	0	✓ 2.0	x	x	x	x		x					
15	9	132	30 / M	✓ 30						xx	xx				
16	13	133	15 / M	✓ 15						xx	xx				
17	16	134	5	✓ 5						xx	xx	xxx			
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 1310 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	15 08	08 08
Bottom	15 13	
End	15 36	

Positional Information
Start
Lat: 48 ° 37 19 N
Lon: 126 ° 41 05 W

Bottom
Lat: 48 ° 39 19 N
Lon: 126 ° 41 06 W

End
Lat: 48 ° 39 19 N
Lon: 126 ° 41 05 W

Extra comments: PAR-ON
DMS cast - OUT-OF-ORDER
1-8, 15, 9, 10, 11, 16, 12
13, 17, 14

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P8 Event #: 18 Ship: Tully UTC Date (dd|mm|yyyy): 10 | 6 | 2015

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓	Pressure	Oxy	Sal	Nut Fr	Nut C	pH	Chl	HPLC	Gases						
1		135	2000	✓	2000	x x	x x	x	x										
2		136	1500	✓	1499	x	x	x	x										
3		137	1250	✓	1250	x	x	x x	x x										
4		138	1000	✓	999	x	x x	x	x										
5		139	800	✓	800	x	x	x	x										
6		140	600	✓	600	x		x	x										
7		141	400	✓	400	x		x	x										
8		142	300	✓	299	x		x											
9		143	250	✓	249	x x		x											
10		144	200	✓	200	x		x											
11		145	175	✓	175	x		x											
12		146	150	✓	150	x		x x											
13		147	125	✓	125	x		x											
14		148	100	✓	100	x		x			x								
15		149	75	✓	75	x		x			x								
16		150	50	✓	50	x		x			x								
17		151	25	✓	25	x x		x			x								
18		152	10	✓	10	x		x			x								
19		153	5	✓	5	x	x	x			x								
20		154	50 / Max	10 ✓	70						x x	x x							Max ~ 60 m
21		155	40 / (Max)	✓	60						x x	x x							
22		156	5	✓	5						x x	x x							
23																			
24																			

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

Bottom Depth:	2517 m
Transmisso Cleaned:	☒ Y / ☐ N

Time	UTC	Local
Start	0347	2047
Bottom	0423	
End	0520	

Positional Information
Lat: 48° 48.93 N
Lon: 128° 39.80 W

Bottom
Lat: 48° 48.99 N
Lon: 128° 39.92 W

End
Lat: 48° 49.01 N
Lon: 128° 39.90 W

Extra comments:
Firing out of order
1-15, 20, 21, 16-19, 22

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P9 Event #: 19 Ship: Tully UTC Date (dd|mmm|yyyy): 10 JUN 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC							
1	1	157	50 (Max)	✓	x		xx	xx							Chl Max @ ~65m
2	2	158	5	✓	x	x	xx	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

Bottom Depth: 2338 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0814	0114
Bottom	0858	
End	0942	

Positional Information

Lat:	48 ° 51 37	N
Lon:	129 ° 9 98	W

Start

Lat:	48 ° 51 37	N
Lon:	129 ° 9 98	W

Bottom

Lat:	48 ° 51 38	N
Lon:	129 ° 9 75	W

End

Extra comments:
Spooling issues on winch.

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P10 Event #: 20 Ship: Tully UTC Date (dd|mmm|yyyy): 10 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials												Comments	
			Target	Confirmed	Pressure	Nut-F	Sal	Chl	HPLC										
			Pressure	✓															
1	1	159	50 / (Max)	✓	85	x		xx	xx										chl Max @ 85
2	2	160	5	✓	5	x	x	xx	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

Bottom Depth: 2640 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	12 12	0512
Bottom	12 46	
End	13 28	

Positional Information
Start
Lat: 48 ° 53 55 N
Lon: 129 ° 39 88 W

Bottom
Lat: 48 ° 53 54 N
Lon: 129 ° 39 91 W

End
Lat: 48 ° 53 55 N
Lon: 129 ° 39 85 W

Extra comments:

Cruise ID: 2015-09 Station: P11 Event #: 22 Ship: Tully UTC Date (dd|mmm|yyyy): 10 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments	
			Target	Confirmed	Nut-F	Sal	Chl	HPLC										
			Pressure	✓ Pressure														
1	1	161	50 / Max	✓	SS	x		x x	x x									chl Max @ 55
2	2	162	5	✓	S	x	x	x x	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: 2250 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	16 15	09 15
Bottom	17 31	
End	17 31	

Positional Information
Start
Lat: 48 ° 55 99 N
Lon: 130 ° 9 94 W

Bottom
Lat: 48 ° 56 02 N
Lon: 130 ° 9 93 W

End
Lat: 48 ° 55 99 N
Lon: 130 ° 9 96 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P12 Event #: 23 Ship: Tully UTC Date (dd|mmm|yyyy): 10 | 6 | 2015

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓	Pressure	DMS	DMSP t	DMSP d	Nut-F		Chl	HPLC							
1		163	300	✓	300	x			x										
2		164	200	✓	200	x	x	x	x										
3		165	175	✓	175	x	x	x	x										
4		166	100	✓	100	x	x	x	x		x								
5		167	75	✓	75	x			x x		x								
6		168	50	✓	51	x			x		x								
7		169	40	✓	40	x			x		x x								
8		170	30	✓	30	x			x		x								
9		171	25	✓	25	x			x		x								
10		172	20	✓	20	x x	x x	x x	x		x								
11		173	15	✓	15	x			x		x								
12		174	10	✓	10	x			x		x								
13		175	5	✓	5	x	x	x	x		x								
14		176	0	✓	3	x	x	x	x		x								
15		177	dp (M)	✓	60						x x	x x							
16		178	20 (M)	✓	50						x x	x x							
17		179	5	✓	5						x x	x x							
18		176	0	✓	3	x	x	x	x		x								surface bottle #18
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): 27

Bottom Depth: 3233 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1959	1259
Bottom	2004	
End	2027	

Positional Information
Start
Lat: 48° 58.18 N
Lon: 130° 39.93 W

Bottom
Lat: 48° 58.19 N
Lon: 130° 39.97 W

End
Lat: 48° 58.20 N
Lon: 130° 39.98 W

Extra comments:
DMS cast - OUT-OF-ORDER
1-5, 15, 16, 6-12
13, 17, 4, 18

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P12

Event #:

24

Ship:

Tully

UTC Date (dd|mmm|yyyy):

10 | 6 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										HF/SS Gases			Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH			SAGs	DNA	UBC	UBC	UBC	
1		180	Bot-10	✓ 3274	x		x	x	x	x			x	x	xx			
2		181	3000	✓ 2999	x	xx	x	x	xx	x								
3		182	3000	✓ 2999	x	x	x	x	x	x			x	x	xx			
4		183	2500	✓ 2499	x	xx	x	x	x	xxx								
5		184	2000	✓ 2000	xx	x	x	x	x	x			x	x	xx			
6		185	1500	✓ 1500	x	x	x	x	x	x			x	x	xx			
7		186	1250	✓ 1250	x	x	xx	xx	x	x			x	x	xx			
8		187	1000	✓ 1000	x	xx	x	x	x	x			x	x	xx			
9		188	800	✓ 800	xx		x	x	x	x			x	x	xx			
10		189	600	✓ 600	x		x	x	x	x			x	x	xx			
11		190	400	✓ 400	x		x	x	x	x			x	x	xx			
12		191	300	✓ 300	x		x		x	x			x	x	xx			
13		192	250	✓ 250	x		x		x	x					xx			
14		193	200	✓ 200	x		x		x	x			x	x	xx			
15		194	175	✓ 175	xx		x		x	x					xx			
16		195	150	✓ 150	x		x		x	x			x	x	xx			
17		196	125	✓ 125	x		x		x	xxx								
18		197	100	✓ 100	x		xx		x	x			x	x	xx			
19		198	75	✓ 75	x		x		x	x					xx			
20		199	50	✓ 50	x		x		x	x			x	x	xx			
21		200	25	✓ 25	x		x		x	x			x	x	xx			
22		201	10	✓ 9	x		x		x	x			x	x	xx			
23		202	5	✓ 5	xx	x	x		x	x								
24																		

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

DY

Bottom Depth: 3232 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2059	1359
Bottom	2153	
End	2313	

Positional Information

Lat:	48 ° 58.20	N
Lon:	120 ° 39.38	W

Lat:	48 ° 58.19	N
Lon:	130 ° 39.38	W

Lat:	48 ° 58.19	N
Lon:	130 ° 39.98	W

Extra comments:

Deep cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P12 Event #: 26 Ship: Tully UTC Date (dd|mmm|yyyy): 11 | 6 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments	
			Target Pressure	Confirmed	Niko gases														
			✓	Pressure															
1		203	200	✓	200		x x												
2		204	170	✓	170		x x												
3		205	140	✓	140		x x												
4		206	105	✓	105		x x												
5		207	95	✓	95		x x												
6		208	90	✓	90		x x												
7		209	85	✓	85		x x												
8		210	80	✓	80		x x												
9		211	75	✓	75		x x												
10		212	70	✓	70		x x												
11		213	70	✓	70														
12		214	65	✓	65		x x												
13		215	60	✓	60		x x												
14		216	55	✓	55		x x												
15		217	50	✓	50		x x												
16		218	45	✓	45		x x												
17		219	40	✓	40		x x												
18		220	35	✓	35		x x												
19		221	25	✓	25		x x												
20		222	15	✓	15		x x												
21		223	10	✓	10		x x												
22		224	5	✓	5		x x												
23		225	2	✓	2		x x												
24		226	2	✓	2														

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

Bottom Depth: 3234 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0128	1828
Bottom	0132	
End	0154	

Positional Information
 Lat: 48° 58.15 N
 Lon: 130° 39.90 W

Lat: 48° 58.15 N
 Lon: 130° 39.93 W

Lat: 48° 58.15 N
 Lon: 130° 40.01 W

Extra comments:
 Niko's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P12 Event #: 27 Ship: Tully UTC Date (dd|mmm|yyyy): 11 | 6 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials														Comments	
			Target Pressure	Confirmed																
				✓	Pressure															
1		227	Bot-10	✓	3276															
2		228	3000	✓	3000															
3		229	2500	✓	2500															
4		230	2000	✓	2000															
5		231	1500	✓	1500															
6		232	1250	✓	1250															
7		233	1000	✓	1000															
8		234	800	✓	800															
9		235	600	✓	600															
10		236	400	✓	400															
11		237	300	✓	300															
12		238	250	✓	250															
13		239	200	✓	200															
14		240	175	✓	175															
15		241	150	✓	150															
16		242	125	✓	125															
17		243	100	✓	100															
18		244	75	✓	75															
19		245	50	✓	50															
20		246	25	✓	25															
21		247	10	✓	10															
22		248	5	✓	5															
23																				
24																				

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

Bottom Depth: 3234 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0230	1930
Bottom	0326	
End	0445	

Positional Information

Lat:	48 ° 58.22	N
Lon:	130 ° 39.97	W

▼

Lat:	48 ° 58.24	N
Lon:	130 ° 40.02	W

▼

Lat:	48 ° 58.26	N
Lon:	130 ° 40.13	W

Extra comments:
 Céline's cast

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P12

Event #:

29

Ship:

Tully

UTC Date (dd|mmm|yyyy):

11 | 6 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments	
			Target Pressure	Confirmed	UBC														
			✓	Pressure															
1	1	249	2000	✓	2000		x												
2	2	250	2000	✓	↓														
3	3	251	2000	✓	↓														
4	4	252	2000	✓	↓														
5	5	253	1000	✓	1000		x												
6	6	254	1000	✓	↓														
7	7	255	1000	✓	↓														
8	8	256	1000	✓	↓														
9	9	257	500	✓	500		x												
10	10	258	500	✓	↓														
11	11	259	500	✓	↓														
12	12	260	500	✓	↓														
13	13	261	10	✓	10		x												
14	14	262	10	✓	↓														
15	15	263	10	✓	↓														
16	16	264	10	✓	↓														
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth:	3233	m
Transmisso Cleaned:	Y	/ N

Time	UTC	Local
Start	0625	2325
Bottom	0658	
End	0811	

Positional Information		
Lat:	48 ° 58.20	N
Lon:	130 ° 40.06	W

Bottom		
Lat:	48 ° 58.19	N
Lon:	130 ° 39.97	W

End		
Lat:	48 ° 58.19	N
Lon:	130 ° 39.97	W

Extra comments:
Jade's cast

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P12

Event #:

32

Ship:

Tully

UTC Date (dd|mmm|yyyy): 11 | Jun | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments	
			Target	Confirmed	Nut-F	Sal	Chl		18O	NO3	NH4	17O	ONAr	DO	NH4			
			Pressure	✓ Pressure	IOS	IOS	IOS				incub							
1	1	265	Below ML	✓	60		x						x x					
2	2	266	1%	✓	42	x	x	x		x x x	x x	x			x x	x x		
3	3	267	15%	✓	19	x	x	x		x x x	x x	x			x x	x x		
4	4	268	30%	✓	9	x	x	x		x x x	x	x			x x	x x		
5	5	269	50%	✓	5	x	x	x		x x x	x	x			x x	x x		
6	7	270	100%	✓	2.5	x		x			x x x	x x x				x x		
7	8	271	100%	✓	2.5					x x x			x x	x x	x x			
8	6	272	in ML	✓	5									x x	x x			
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:	3234	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	1024	0824
Bottom	1027	0827
End	1038	0838

Positional Information		
Lat:	48 ° 58 19	N
Lon:	130 ° 39 96	W

Positional Information		
Lat:	48 ° 58 20	N
Lon:	130 ° 39 97	W

Positional Information		
Lat:	48 ° 58 19	N
Lon:	130 ° 39 97	W

Extra comments:
Amanda's cast
OUT-OF-ORDER
1-5, 8, 6, 7

Cruise ID: 2015-09 Station: P13 Event #: 33 Ship: Tully UTC Date (dd|mmm|yyyy): 11 JUN 2015

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials														Comments
			Target Pressure	Confirmed ✓	Pressure	Nut-F	Sal	Chl	HPLC											
1	1	273	50 / Max	✓	34.4	x		xx	xx										chl max @ 35m	
2	2	274	5	✓	4.8	x	x	xx	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

Bottom Depth: 3017 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	15:42	8:42
Bottom	16:16	
End	17:07	

Positional Information
Start
Lat: 49 ° 2.63 N
Lon: 131 ° 39.96 W

Bottom
Lat: 49 ° 2.68 N
Lon: 131 ° 39.92 W

End
Lat: 49 ° 2.69 N
Lon: 131 ° 40.00 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P14 Event #: 35 Ship: Tully UTC Date (dd/mm/yyyy): 11/6/2015

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials												Comments	
			Target	Confirmed	Pressure	Nut-F	Sal	Chl	HPLC										
			Pressure	✓															
1	1	275	50 / Max	✓	50	x		x x	x x										Max @ ~50
2	2	276	5	✓	5	x	x	x x	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): DY

Bottom Depth: 3813 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2240	1540
Bottom	2317	
End	2350	

Positional Information:

Lat: 49° 7.41' N

Lon: 137° 39.85' W

Lat: 49° 7.44' N

Lon: 137° 39.90' W

Lat: 49° 7.47' N

Lon: 137° 39.87' W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P15 Event #: 36 Ship: Tully UTC Date (dd|mmm|yyyy): 12|6|2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target	Confirmed	Nut-F	Sal	Chl	HPLC										
			Pressure	✓ Pressure														
1	1	277	50 / Max	✓	50	x		x x	x x									No max or upcast!
2	2	278	5	✓	5	x	x	x x	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): DY

Bottom Depth: 3406 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0432	2132
Bottom	0504	
End	0543	

Positional Information

Lat:	49° 11.94	N
Lon:	133° 39.88	W

▼

Lat:	49° 11.96	N
Lon:	133° 39.90	W

▼

Lat:	49° 11.98	N
Lon:	133° 40.04	W

Extra comments:

Cruise ID: 2015-09 Station: P16 Event #: 38 Ship: Tully UTC Date (dd|mmm|yyyy): 12 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Nut-F IOS	Sal IOS	Chl IOS		18O	NO3	NH4 incub	17O	ONAr	DO				
1	2	279	Below ML	✓ 32		x							x x					
2	1	280	1%	✓ 45	x	x	x		x x x	x x	x			x x	x x			
3	3	281	15%	✓ 14	x	x	x		x x x	x x	x			x x	x x			
4	5	282	30%	✓ 6	x	x	x		x x x	x	x			x x	x x			
5	6	283	50%	✓ 5	x	x	x		x x x	x	x			x x	x x			
6	7	284	100%	✓ 5	x		x			x x x	x x x				x x			
7	8	285	100%	✓ 5					x x x			x x	x x	x x				
8	4	286	in ML	✓ 10									x x	x x				
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: 3633 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	10 21	0321
Bottom	10 24	
End	10 37	

Positional Information
Start
Lat: 49 ° 16 93 N
Lon: 134 ° 39 93 W

Bottom
Lat: 49 ° 16 92 N
Lon: 134 ° 39 93 W

End
Lat: 49 ° 16 92 N
Lon: 134 ° 39 93 W

Extra comments:
Amanda's cast
OUT-OF-ORDER
2, 1, 3, 8, 4, 5-7

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P16 Event #: 41 Ship: Tully UTC Date (dd|mmm|yyyy): 12 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ✓ Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH			Gases	SAGs	DNA				
					NR/AT				NR/AT	GC			NR/AT						
1	1	287	Bot-10	✓ 3683	x		xx	xx	x	x			xx	x	x				
2	2	288	3500	✓ 3500	x	x	x	x	xx	x									
3	3	289	3500	✓ 3500	xx	x	x	x	x	x									
4	4	290	3000	✓ 3000	x	xx	x	x	x	x			xx	x	x				
5	5	291	2500	✓ 2501	x	x	x	x	x	xxx									
6	6	292	2000	✓ 2000	x	xx	x	x	x	x			xx	x	x				
7	7	293	1500	✓ 1500	x	x	x	x	x	x			xx	x	x				
8	8	294	1250	✓ 1250	x	xx	x	x	x	x			xx	x	x				
9	9	295	1000	✓ 1000	x	x	x	x	x	x			xx	x	x				
10	10	296	800	✓ 800	xx		x	x	x	x			xx	x	x				
11	11	297	600	✓ 600	x		x	x	x	x			xx	x	x				
12	12	298	400	✓ 400	x		x	x	x	x			xx	x	x				
13	13	299	300	✓ 300	x		x		x	x			xx	x	x				
14	14	300	250	✓ 250	x		x		x	xxx			xx						
15	15	301	200	✓ 200	x		x		x	x			xx	x	x				
16	16	302	175	✓ 175	xx		x		x	x			xx						
17	17	303	150	✓ 150	x		x		x	x			xx	x	x				
18	18	304	125	✓ 125	x		xx		x	x									
19	19	305	100	✓ 100	x		x		x	x			xx	x	x				
20	20	306	75	✓ 74	x		x		x	x			xx						
21	21	307	50	✓ 50	x		x		x	x			xx	x	x				
22	22	308	25	✓ 25	xx		x		x	x			xx	x	x				
23	23	309	10	✓ 10	x		x		x	x			xx	x	x				
24	24	310	5	✓ 5	x	x	x		x	x									

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

Bottom Depth: 3631 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	13 14	06 14
Bottom	14 19	
End	15 42	

Positional Information

Lat:	49 ° 16 92	N
Lon:	134 ° 39 93	W

Start

Lat:	49 ° 16 92	N
Lon:	134 ° 39 93	W

Bottom

Lat:	49 ° 16 92	N
Lon:	134 ° 39 93	W

End

Extra comments:

Deep cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P16 Event #: 42 Ship: Tully UTC Date (dd|mmm|yyyy): 12 | Jun | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC							
					t	d												
1	1	311	300	✓ 300	x			x										
2	2	312	200	✓ 200	x	x	x	x										
3	3	313	175	✓ 175	x	x	x	x										
4	4	314	100	✓ 101	x	x	x	x		x								
5	5	315	75	✓ 75	x			x		x								
6	6	316	50	✓ 51	x			x		x								
7	8	317	40	✓ 41	x			x		x								
8	9	318	30	✓ 31	x			x		x								
9	10	319	25	✓ 25	x			x		x x								
10	11	320	20	✓ 20	x x	x x	x x	x		x								
11	13	321	15	✓ 15	x			x		x								
12	14	322	10	✓ 10	x			x x		x								
13	15	323	5	✓ 6	x	x	x	x		x								
14	17	324	0	✓ 25	x	x	x	x		x								
15	7	325	50 / M	✓ 51						x x	x x						No M2	
16	12	326	20 / M	✓ 20						x x	x x							
17	16	327	5	✓ 6						x x	x x							
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 3634 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	16 44	09 44
Bottom	16 49	09 49
End	17 10	

Positional Information
Start
Lat: 49 ° 16 96 N
Lon: 134 ° 39 99 W

Bottom
Lat: 49 ° 16 96 N
Lon: 134 ° 39 99 W

End
Lat: 49 ° 17 06 N
Lon: 134 ° 39 93 W

Extra comments:
DMS cast - OUT-OF-ORDER
PAR-ON
1-6, 15, 7-9, 10, 16, 11, 12, 13, 17

M2 = 467
M2 - 10 = 56

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P17 Event #: 44 Ship: Tully UTC Date (dd mmm yyyy): 12 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC							
1	1	328	50 Max	✓ 50	x		xx	xx							also small max
2	2	329	5	✓ 5	x	x	xx	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): DY

Bottom Depth: 3650 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2211	1511
Bottom	2244	
End	2322	

Positional Information
Start
Lat: 49° 20.96 N
Lon: 135° 39.90 W

Bottom
Lat: 49° 20.93 N
Lon: 135° 39.95 W

End
Lat: 49° 20.92 N
Lon: 135° 40.00 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P18

Event #:

416

Ship:

Tully

UTC Date (dd/mm/yyyy):

13/6/2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments									
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC														
1	1	330	50/Max	✓ 50	x		xx	xx														
2	2	331	5	✓ 5	x	x	xx	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): DY

Bottom Depth: 3833 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0453	2153
Bottom	0526	
End	0610	

Positional Information

Start	Lat: 49° 25.93 N
	Lon: 136° 40.12 W

Bottom

Lat: 49° 25.97 N
Lon: 136° 40.14 W

End

Lat: 49° 25.99 N
Lon: 136° 40.31 W

Extra comments:

<http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/>

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P19

Event #:

48 49

Ship:

Tully

UTC Date (dd:mmm:yyyy): 13 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments	
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC		
1	1	332	50 / Max	✓	50	x		x x	x x	No Max
2	2	333	5	✓	5	x	x	x x	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:	3725	m
Transmisso Cleaned:	☒ Y	☐ N

Time	UTC	Local
Start	1111	0911
Bottom	1145	
End	1229	

Positional Information
Start
Lat: 49 ° 29 99 N
Lon: 137 ° 39 92 W

Bottom
Lat: 49 ° 29 98 N
Lon: 137 ° 39 95 W

End
Lat: 49 ° 29 98 N
Lon: 137 ° 39 98 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P20

Event #:

50

Ship:

Tully

UTC Date (dd mmm yyyy): 13 JUN 2015

Cruise ID:			2015-09		Station:		P20		Event #:		P20		Ship:		Party:		Comments				
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Gases	DNA	SAGs	Céline			
			Target Pressure	Confirmed ✓ Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH											
1	1	334	Bot-10	✓	4025	x		x	x	x	x			xx	x	x	x				
2	2	335	3500	✓	3500	x	x	x	x	xx	x			xx			x				
3	3	336	3500	✓	3500	x	x	x	x	x	xxx						x				
4	4	337	3000	✓	3000	x	xx	x	x	x	x			xx	x	x	x				
5	5	338	2500	✓	2500	xx	x	x	x	x	x			xx			x				
6	6	339	2000	✓	2000	x	xx	x	x	x	x			xx	x	x	x				
7	7	340	1500	✓	1500	x	x	x	x	x	x			xx	x	x	x				
8	8	341	1250	✓	1250	x	x	x	x	x	x			xx	x	x	x				
9	9	342	1000	✓	999	xx	xx	x	x	x	x			xx	x	x	x				
10	10	343	800	✓	800	x	x	x	x	x	x			xx	x	x	x				
11	11	344	600	✓	599	x	x	x	x	x	x			xx	x	x	x				
12	12	345	400	✓	400	x	x	xx	xx	x	x			xx	x	x	x				
13	13	346	300	✓	300	x	x	x		x	x			xx	x	x	x				
14	14	347	250	✓	250	x	x	x		x	xxx						x				
15	15	348	200	✓	200	x	x	x		x	x			xx	x	x	x				
16	16	349	175	✓	175	xx	x	x		x	x						x				
17	17	350	150	✓	150	x	x	x		x	x			xx	x	x	x				
18	18	351	125	✓	125	x	x	x		x	x						x				
19	19	352	100	✓	100	x	x	x		x	x			xx	x	x	x				
20	20	353	75	✓	75	x	x	x		x	x			xx			x				
21	21	354	50	✓	49	x	x	xx		x	x			xx	x	x	x				
22	22	355	25	✓	25	x	x	x		x	x			xx	x	x	x				
23	23	356	10	✓	10	x	x	x		x	x			xx	x	x	x				
24	24	357	5	✓	5	xx	x	x		x	x						x				

Ammonia products

http://www.pac

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

Bottom Depth: 3965 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1715	1015
Bottom	1828	
End	2005	

Positional Information

Lat:	49° 34.01	N
Lon:	138° 39.98	W

Start

Lat:	49° 33.99	N
Lon:	138° 39.99	W

Bottom

Lat:	49° 33.99	N
Lon:	138° 39.99	W

Extra comments:

Deep cast

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P20

Event #:

57

Ship:

Tully

UTC Date (dd mmm yyyy):

13 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC							
				✓			t	d										
1		358	300	✓	300	x			x									
2		359	200	✓	200	x	x	x	x									
3		360	175	✓	175	x	x	x	x x									
4		361	100	✓	100	x	x	x	x		x							
5		362	75	✓	75	x			x		x							
6		363	50	✓	50	x			x		x							
7		364	40	✓	40	x			x		x x							
8		365	30	✓	30	x			x		x							
9		366	25	✓	25	x			x		x							
10		367	20	✓	20	x x	x x	x x	x		x							
11		368	15	✓	15	x			x		x							
12		369	10	✓	10	x			x		x							
13		370	5	✓	5	x	x	x	x		x							
14		371	0	✓	2	x	x	x	x		x							
15		372	50 / M	✓	35						x x	x x						
16		373	20 / M	✓	25						x x	x x						
17		374	5	✓	5						x x	x x						
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 3966 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2109	1409
Bottom	2115	
End	2133	

Positional Information

Lat:	49 ° 33.99	N
Lon:	138 ° 39.98	W

Start

Bottom

Lat:	49 ° 33.99	N
Lon:	138 ° 39.98	W

End

Lat:	49 ° 33.99	N
Lon:	138 ° 39.99	W

Extra comments:
DMS cast - OUT-OF-ORDER

(-7, 15, 8, 9, 16, 18, 17, 14)

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

14 6 2015

376
S33
P20
1 8
2015-09
304 2

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P21 Event #: 57 Ship: Tully UTC Date (dd mmm/yyyy): 14 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC							
1	1	383	50 / Max	✓ 50	x		x x	x x							No Max
2	2	384	5	✓ 5	x	x	x x	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: 3959 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0907	0207
Bottom	0940	
End	1038	

Positional Information

Start	Lat: 49 ° 37 98	N
	Lon: 139 ° 39 94	W

Bottom

Lat: 49 ° 38 00	N
Lon: 139 ° 39 90	W

End

Lat: 49 ° 37 98	N
Lon: 139 ° 39 86	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P22 Event #: 59 Ship: Tully UTC Date (dd mmm yyyy): 14 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC							
1	1	385	50 / Max	✓ 51	x		x x	x x							no Max
2	2	386	5	✓ 5	x	x	x x	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: 3899 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	15 35	0835
Bottom	16 01	
End	16 46	

Positional Information
Start
Lat: 49 ° 41 95 N
Lon: 140 ° 39 95 W

Bottom
Lat: 49 ° 41 99 N
Lon: 140 ° 39 99 W

End
Lat: 49 ° 41 99 N
Lon: 140 ° 39 99 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P23

Event #:

63

Ship:

Tully

UTC Date (dd mmm yyyy):

14 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC	DIC	pH								
1	1	387	2000	✓	2000		x			x x x	x x x							
2	2	388	2000	✓			x			x x x	x x x							
3	3	389	2000	✓			x			x x x	x x x							
4	4	390	2000	✓			x			x x x	x x x							
5	5	391	2000	✓			x			x x x	x x x							
6	6	392	2000	✓			x											
7	7	393	2000	✓			x											
8	8	394	2000	✓			x											
9	9	395	2000	✓			x											
10	10	396	2000	✓			x											
11	11	397	2000	✓			x											
12	12	398	2000	✓			x											
13	13	399	2000	✓			x											
14	14	400	2000	✓			x											
15	15	401	2000	✓			x											
16	16	402	2000	✓			x											
17	17	403	2000	✓			x											
18	18	404	2000	✓			x											
19	19	405	2000	✓			x											
20	20	406	2000	✓			x											
21	21	407	2000	✓			x											
22	22	408	2000	✓			x											
23	23	409	50 (Max)	✓	30	x		x x	x x									
24	24	410	5	✓	5	x	x	x x	x x									

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): DJ

Bottom Depth: 4051 m

Transmissio Cleaned: Y / N

Time	UTC	Local
Start	2138	1438
Bottom	2211	
End	2247	

Positional Information

Lat:	49 ° 45' 95	N
Lon:	141 ° 39' 97	W

Lat:	49 ° 45' 99	N
Lon:	141 ° 39' 96	W

Lat:	49 ° 46' 04	N
Lon:	141 ° 39' 90	W

Extra comments:

CALIBRATION CAST

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P24 Event #: 65 Ship: Tully UTC Date (dd mmm yyyy): 15 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC					
1	1	411	50 / Max	✓ 50	x		xx	xx					Very weak max?
2	2	412	5	✓ 5	x	x	xx	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): DY

Bottom Depth: 3986 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0313	2013
Bottom		
End	0419	

Positional Information
Start
Lat: 49° 50.24 N
Lon: 142° 39.95 W

Bottom
Lat: 49° 50.27 N
Lon: 142° 40.02 W

End
Lat: 49° 50.25 N
Lon: 142° 40.19 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P25

Event #:

68

Ship:

Tully

UTC Date (dd|mmm|yyyy): 15 JUN 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC					
1	1	413	50 / (Max)	✓ 30	x		xx	xx					21 Max @ ~30
2	2	414	5	✓ 5	x	x	xx	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: 4149 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	08 43	0143
Bottom	09 18	
End	10 08	

Positional Information
 Start
 Lat: 49 ° 59 98 N
 Lon: 143 ° 36 26 W

Bottom
 Lat: 49 ° 59 98 N
 Lon: 143 ° 36 29 W

End
 Lat: 49 ° 59 98 N
 Lon: 143 ° 36 37 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P35 Event #: 70 Ship: Tully UTC Date (dd|mmm|yyyy): 15 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC							
1	1	415	50 // Max	✓	50	x		xx	xx						No Max
2	2	416	5	✓	5	x	x	xx	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

Bottom Depth: 4148 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1321	0621
Bottom	1355	
End	1430	

Positional Information
Start
Lat: 49 ° 59 89 N
Lon: 144 ° 18 22 W

Bottom
Lat: 49 ° 59 91 N
Lon: 144 ° 18 27 W

End
Lat: 49 ° 59 96 N
Lon: 144 ° 18 38 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: PA-009 Event #: 76 Ship: Tully UTC Date (dd mmm yyyy): 16 6 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target	Confirmed	ONAr	Oxy	Salt	DIC								
			Pressure	✓ Pressure	UW	UW	UW	UW								
1	1	417	10	✓ 10	xx	xx	x									
2	4	418	5	✓ 5	xx	xx	x									
3	5	419	0	✓ 2.6	xx	xx	x									
4	2	420	10	✓ 10				xx								
5	3	421	5	✓ 5				xx								
6	6	422	0	✓ 2.6				xx								
7																
8																
9																
10																
11																
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14																
15																
16																
17																
18																
19																
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21																
22																
23																
24																

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

Bottom Depth: 4219 m
Transmisso Cleaned: Y/N

Time	UTC	Local
Start	0007	1707
Bottom	0016	
End	0028	

Positional Information

Lat:	50° 8.09	N
Lon:	144° 50.63	W

Start

Lat:	50° 8.09	N
Lon:	144° 50.69	W

Bottom

Lat:	50° 8.09	N
Lon:	144° 50.68	W

End

Extra comments:
CTD to 500 m
OUT-OF-ORDER
1-4-5-2-3-6

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P26

Event #: 78

Ship: Tully

UTC Date (dd mmm yyyy): 16 6 2015

Cruise ID:			2015-09		Station:		120		Event:		1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Gases	DNA	SAGs	Céline	Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	Alk	pH	Nut																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): DY

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0219	1919
Bottom	0326	
End	0521	

Positional Information

Lat:	49° 59.99	N
Lon:	145° 0.00	W

Start

Lat:	49° 59.99	N
Lon:	145° 0.00	W

Bottom

Lat:	49° 59.99	N
Lon:	145° 0.00	W

End

Lat:	49° 59.99	N
Lon:	144° 59.99	W

Extra comments:
Deep cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P26 Event #: 79 Ship: Tully UTC Date (dd mmm yyyy): 16 June 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure		Niko gases									
1	1	447	200	✓ 200		x x									
2	2	448	175	✓ 176		x x									
3	3	449	150	✓ 150		x x									
4	4	450	125	✓ 125		x x									
5	5	451	110	✓ 110		x x									
6	6	452	95	✓ 95		x x									
7	7	453	80	✓ 80		x x									
8	8	454	70	✓ 71		x x									
9	9	455	65	✓ 65		x x									
10	10	456	60	✓ 60		x x									
11	11	457	55	✓ 55		x x									
12	12	458	50	✓ 51		x x									
13	13	459	45	✓ 45		x x									
14	14	460	40	✓ 41		x x									
15	15	461	35	✓ 35		x x									
16	16	462	25 30	✓ 30											
17	17	463	30	✓ 30		x x									
18	18	464	25	✓ 25		x x									
19	19	465	20	✓ 20		x x									
20	20	466	15	✓ 15		x x									
21	21	467	10	✓ 10		x x									
22	22	468	5	✓ 5		x x									
23	23	469	2	✓ 2.5		x x									
24	24	470	2	✓ 2.5											

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

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0652	2352
Bottom	0657	
End	0721	

Positional Information
Start
Lat: 50 ° 00 12 N
Lon: 144 ° 59 86 W

Bottom
Lat: 49 ° 59 99 N
Lon: 144 ° 59 80 W

End
Lat: 49 ° 59 91 N
Lon: 144 ° 59 41 W

Extra comments:
Niko's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: PA-008 Event #: 82 Ship: Tully UTC Date (dd mmm yyyy): 16 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed ✓ Pressure	ONAr UW	Oxy UW	Salt UW	DIC UW								
1	1	471	10	✓ 10	xx	xx	x									
2	4	472	5	✓ 5	xx	xx	x									
3	5	473	0	✓ 2.5	xx	xx	x									
4	2	474	10	✓ 10				xx								
5	3	475	5	✓ 5				xx								
6	6	476	0	✓ 2.5				xx								
7																
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23																
24																

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

Bottom Depth: 4230 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1500	0800
Bottom	1505	
End	15	

Positional Information
Start
Lat: 50 ° 02 26 N
Lon: 144 ° 53 64 W

Bottom
Lat: 50 ° 02 27 N
Lon: 144 ° 53 64 W

End
Lat: 50 ° 02 29 N
Lon: 144 ° 53 62 W

Extra comments:
CTD to 350 m
OUT-OF-ORDER
1-4-5-2-3-6

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P26 Event #: 85 Ship: Tully UTC Date (dd mmm yyyy): 16 June 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure													
1		477	3000	✓ 3000													
2		478	1500	✓ 1500													
3		479	1250	✓ 1250													
4		480	1250	✓ 1250													
5		481	1000	✓ 1000													
6		482	1000	✓ 1000													
7		483	800	✓ 800													
8		484	800	✓ 800													
9		485	600	✓ 600													
10		486	400	✓ 400													
11		487	200	✓ 200													
12		488	100	✓ 100													
13		489	50	✓ 50													
14		490	10	✓ 10													
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2346	1646
Bottom	0038	
End	0138	

Positional Information

Start	Lat: 49 ° 59.99 N
	Lon: 144 ° 59.99 W
Bottom	Lat: 49 ° 59.99 N
	Lon: 144 ° 59.98 W
End	Lat: 49 ° 59.99 N
	Lon: 144 ° 59.99 W

Extra comments:
Céline's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P26 Event #: 86 Ship: Tully UTC Date (dd mmm yyyy): 17 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	UBC										
1		491	2000	✓ 2000	x										
2		492	2000	✓											
3		493	2000	✓											
4		494	2000	✓											
5		495	1000	✓ 1000	x										
6		496	1000	✓											
7		497	1000	✓											
8		498	1000	✓											
9		499	500	✓ 500	x										
10		500	500	✓											
11		501	500	✓											
12		502	500	✓											
13		503	10	✓ 10	x										
14		504	10	✓											
15		505	10	✓											
16		506	10	✓											
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0233	1935
Bottom	0324	
End	0425	

Positional Information
Start
Lat: 49° 59.99 N
Lon: 144° 59.98 W

Bottom
Lat: 49° 59.99 N
Lon: 144° 59.98 W

End
Lat: 49° 59.99 N
Lon: 144° 59.98 W

Extra comments:
Jade's cast

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P26

Event #:

87

Ship:

Tully

UTC Date (dd mmm/yyyy): 17 6 2015

Cruise ID:			2015-09		Station:		P26		Event #:		01		Ship:		Ferry		Comments
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												
			Target Pressure	Confirmed Pressure	Plastics												
				✓													
1	1	507	Bot-10	✓	4317				x								
2	2	508	4000	✓	4000				x								
3	3	509	3500	✓	3500				x								
4	4	510	3000	✓	3000				x								
5	5	511	2500	✓	2500				x								
6	6	512	2000	✓	2000				x								
7	7	513	1500	✓	1500				x								
8	8	514	1250	✓	1250				x								
9	9	515	1000	✓	1000				x								
10	10	516	800	✓	800				x								
11	11	517	600	✓	600				x								
12	12	518	400	✓	400				x								
13	13	519	300	✓	300				x								
14	14	520	250	✓	249				x								
15	15	521	200	✓	200				x								
16	16	522	175	✓	175				x								
17	17	523	150	✓	150				x								
18	18	524	125	✓	125				x								
19	19	525	100	✓	100				x								
20	20	526	75	✓	75				x								overflowed vizal lost some
21	21	527	50	✓	50				x								
22	22	528	25	✓	25				x								
23	23	529	10	✓	10				x								
24	24	530	5	✓	5				x								

http://www.pac

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): DY + ND

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0456	2156
Bottom	0607	
End	0745	

Positional Information

Lat:	49 ° 59.99	N
Lon:	144 ° 59.98	W

Start

Lat:	49 ° 59.99	N
Lon:	144 ° 59.98	W

Bottom

Lat:	49 ° 59.99	N
Lon:	144 ° 59.98	W

End

Lat:	49 ° 59.99	N
Lon:	144 ° 59.98	W

Extra comments: Laundry off

Plastics cast

Took 2 control sample
left a sieve out on deck
while sampling.

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P26 Event #: 89/90 (89) Ship: Tully UTC Date (dd mmm yyyy): 17 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	180	NO3	NH4	170	ONAr	DO	NH4	
					IOS	IOS	IOS			incub					
1	1	531	Below ML	✓ 40		x					xx				
2	2	532	1%	✓ 35	x	x	x								
3	3	533	1%	✓ 35				xxx	xx	x			xx	xx	
4	4	534	15%	✓ 14	x	x	x	xxx	xx	x			xx	xx	
5	6	535	30%	✓ 7	x	x	x	xxx	x	x			xx	xx	
6	7	536	50%	✓ 4	x	x	x	xxx	x	x			xx	xx	
7	8	537	100%	✓ 3	x		x		xxx	xxx				xx	
8	9	538	100%	✓ 3				xxx			xx	xx	xx	xx	
9	5	539	in ML	✓ 10								xx	xx		
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: 4250 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1100	0400
Bottom	1109	
End	1118	

Positional Information

Start	Lat: 49 ° 59 99 N
	Lon: 145 ° 00 00 W

Bottom

Lat: 49 ° 59 99 N
Lon: 144 ° 59 99 W

End

Lat: 50 ° 00 00 N
Lon: 145 ° 00 00 W

Extra comments:
 Amanda's cast
 OUT-OF-ORDER
 1-4, 9, 5-8

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P26 Event #: 91 Ship: Tully UTC Date (dd mmm yyyy): 17 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure			17O	DO	Sal						
							UW	UW	UW						
1	1	540	50	✓ 51			x x	x x	x						
2	2	541	25	✓ 26			x x	x x	x						
3	3	542	5	✓ 5			x x	x x	x						
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: 4280 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1519	0819
Bottom	1522	
End	1529	

Positional Information

Lat:	49 °	59 99	N
Lon:	144 °	59 95	W

Start

Bottom

Lat:	50 °	00 00	N
Lon:	144 °	59 94	W

End

Lat:	50 °	00 01	N
Lon:	144 °	59 96	W

Extra comments:

Mariela's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P26 Event #: 94 Ship: Tully UTC Date (dd mmm yyyy): 17 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC	Phyto		17O	DO	Sal		
						t	d							UW	UW	UW		
1		543	300	✓ 300	x			x										
2		544	200	✓ 200	x	x	x	x										
3		545	175	✓ 175	x	x	x	xx										
4		546	100	✓ 100	x	x	x	x		x								
5		547	75	✓ 75	x			x		x								
6		548	50	✓ 50	x			x		x								
7		549	40	✓ 40	x			x		xx								
8		550	30	✓ 30	x			x		x								
9		551	25	✓ 25	x			x		x								
10		552	20	✓ 20	xx	xx	xx	x		x								
11		553	15	✓ 15	x			x		x								
12		554	10	✓ 10	x			x		x								
13		555	5	✓ 5	x	x	x	x		x								
14		556	0	✓ 2	x	x	x	x		x								
15		557	50 (M)	✓ 40						xx	xx							
16		558	20 (M)	✓ 30						xx	xx							Max +10 (deeper)
17		559	5	✓ 5						xx	xx	xxx						
18																		
19																		
20		560	200	✓ 200										xx	xx	xx		
21		561	150	✓ 150										xx	xx	xx		
22		562	100	✓ 100										xx	xx	xx		
23																		
24																		

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): 27

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2059	1359
Bottom	2105	
End	2123	

Positional Information

Lat:	49° 59.94	N
Lon:	144° 59.93	W

Start
Bottom
End

Lat: 49° 59.93 N
Lon: 144° 59.92 W

Lat: 49° 59.93 N
Lon: 144° 59.89 W

Extra comments:
DMS and Mariela's cast
OUT-OF-ORDER
1-2-20-3-21-22-4-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-1221-1222-1223-1224-1225-1226-1227-1228-1229-1230-1231-1232-1233-1234-1235-1236-1237-1238-1239-1240-1241-1242-1243-1244-1245-1246-1247-1248-1249-1250-1251-1252-1253-1254-1255-1256-1257-1258-1259-1260-1261-1262-1263-1264-1265-1266-1267-1268-1269-1270-1271-1272-1273-1274-1275-1276-1277-1278-1279-1280-1281-1282-1283-1284-1285-1286-1287-1288-1289-1290-1291-1292-1293-1294-1295-1296-1297-1298-1299-1300-1301-1302-1303-1304-1305-1306-1307-1308-1309-1310-1311-1312-1313-1314-1315-1316-1317-1318-1319-1320-1321-1322-1323-1324-1325-1326-1327-1328-1329-1330-1331-1332-1333-1334-1335-1336-1337-1338-1339-1340-1341-1342-1343-1344-1345-1346-1347-1348-1349-1350-1351-1352-1353-1354-1355-1356-1357-1358-1359-1360-1361-1362-1363-1364-1365-1366-1367-1368-1369-1370-1371-1372-1373-1374-1375-1376-1377-1378-1379-1380-1381-1382-1383-1384-1385-1386-1387-1388-1389-1390-1391-1392-1393-1394-1395-1396-1397-1398-1399-1400-1401-1402-1403-1404-1405-1406-1407-1408-1409-1410-1411-1412-1413-1414-1415-1416-1417-1418-1419-1420-1421-1422-1423-1424-1425-1426-1427-1428-1429-1430-1431-1432-1433-1434-1435-1436-1437-1438-1439-1440-1441-1442-1443-1444-1445-1446-1447-1448-1449-1450-1451-1452-1453-1454-1455-1456-1457-1458-1459-1460-1461-1462-1463-1464-1465-1466-1467-1468-1469-1470-1471-1472-1473-1474-1475-1476-1477-1478-1479-1480-1481-1482-1483-1484-1485-1486-1487-1488-1489-1490-1491-1492-1493-1494-1495-1496-1497-1498-1499-1500-1501-1502-1503-1504-1505-1506-1507-1508-1509-1510-1511-1512-1513-1514-1515-1516-1517-1518-1519-1520-1521-1522-1523-1524-1525-1526-1527-1528-1529-1530-1531-1532-1533-1534-1535-1536-1537-1538-1539-1540-1541-1542-1543-1544-1545-1546-1547-1548-1549-1550-1551-1552-1553-1554-1555-1556-1557-1558-1559-1560-1561-1562-1563-1564-1565-1566-1567-1568-1569-1570-1571-1572-1573-1574-1575-1576-1577-1578-1579-1580-1581-1582-1583-1584-1585-1586-1587-1588-1589-1590-1591-1592-1593-1594-1595-1596-1597-1598-1599-1600-1601-1602-1603-1604-1605-1606-1607-1608-1609-1610-1611-1612-1613-1614-1615-1616-1617-1618-1619-1620-1621-1622-1623-1624-1625-1626-1627-1628-1629-1630-1631-1632-1633-1634-1635-1636-1637-1638-1639-1640-1641-1642-1643-1644-1645-1646-1647-1648-1649-1650-1651-1652-1653-1654-1655-1656-1657-1658-1659-1660-1661-1662-1663-1664-1665-1666-1667-1668-1669-1670-1671-1672-1673-1674-1675-1676-1677-1678-1679-1680-1681-1682-1683-1684-1685-1686-1687-1688-1689-1690-1691-1692-1693-1694-1695-1696-1697-1698-1699-1700-1701-1702-1703-1704-1705-1706-1707-1708-1709-1710-1711-1712-1713-1714-1715-1716-1717-1718-1719-1720-1721-1722-1723-1724-1725-1726-1727-1728-1729-1730-1731-1732-1733-1734-1735-1736-1737-1738-1739-1740-1741-1742-1743-1744-1745-1746-1747-1748-1749-1750-1751-1752-1753-1754-1755-1756-1757-1758-1759-1760-1761-1762-1763-1764-1765-1766-1767-1768-1769-1770-1771-1772-1773-1774-1775-1776-1777-1778-1779-1780-1781-1782-1783-1784-1785-1786-1787-1788-1789-1790-1791-1792-1793-1794-1795-1796-1797-1798-1799-1800-1801-1802-1803-1804-1805-1806-1807-1808-1809-1810-1811-1812-1813-1814-1815-1816-1817-1818-1819-1820-1821-1822-1823-1824-1825-1826-1827-1828-1829-1830-1831-1832-1833-1834-1835-1836-1837-1838-1839-1840-1841-1842-1843-1844-1845-1846-1847-1848-1849-1850-1851-1852-1853-1854-1855-1856-1857-1858-1859-1860-1861-1862-1863-1864-1865-1866-1867-1868-1869-1870-1871-1872-1873-1874-1875-1876-1877-1878-1879-1880-1881-1882-1883-1884-1885-1886-1887-1888-1889-1890-1891-1892-1893-1894-1895-1896-1897-1898-1899-1900-1901-1902-1903-1904-1905-1906-1907-1908-1909-1910-1911-1912-1913-1914-1915-1916-1917-1918-1919-1920-1921-1922-1923-1924-1925-1926-1927-1928-1929-1930-1931-1932-1933-1934-1935-1936-1937-1938-1939-1940-1941-1942-1943-1944-1945-1946-1947-1948-1949-1950-1951-1952-1953-1954-1955-1956-1

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P7 Event #: 102 Ship: Tully UTC Date (dd mmm yyyy): 20 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC							
1	1	563	30 m	✓			xx	xx							
2	2	564	5	✓		x	xx	xx							
3															
4															
5															
6															
7															
8															
9															
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18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): MB/04

Bottom Depth: 2500 m

Transmisso Cleaned: ☒ / N

Time	UTC	Local
Start	1842	1142
Bottom	1915	
End	1950	

Positional Information

Start Lat: 48 ° 46.58 N

Start Lon: 128 ° 9.93 W

Bottom Lat: 48 ° 46.60 N

Bottom Lon: 128 ° 9.97 W

End Lat: 48 ° 46.57 N

End Lon: 128 ° 10.08 W

Extra comments:

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

UTC Date (dd mmm yyyy): 20 6 2015

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P5

Event #:

104

Ship:

Tully

UTC Date (dd/mm/yyyy): 21/6/2015

Comments

			Rosette Operation		Samples Taken / Sampler's Initials																						
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC																			
1	1	567	30 / Max	✓ 40	x		xx	xx																			
2	2	568	5	✓ 5	x	x	xx	xx																			
3																											
4																											
5																											
6																											
7																											
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19																											
20																											
21																											
22																											
23																											
24																											

Before each cast, do not use Ammonia products

http://www.

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

Bottom Depth: 2081 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0121	1821
Bottom	0156	
End	0233	

Positional Information

Start	Lat: 48° 41.53	N
	Lon: 127° 10.00	W

Bottom

	Lat: 48° 41.53	N
	Lon: 127° 10.12	W

End

	Lat: 48° 41.53	N
	Lon: 127° 10.17	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P4

Event #:

106

Ship:

Tully

UTC Date (dd mmm/yyyy):

28 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut-F	Sal	CHL	HPLC	Niko	Celine NH4	DNA			
1		569	Bot-10	✓ 1321						AM					
2		570	Bot-10	✓ 1321	x										
3		571	1250	✓ 1250	x x		x x								
4		572	1000	✓ 1000	x		x			x					
5		573	800	✓ 800	x										
6		574	600	✓ 600	x										
7		575	400	✓ 400	x										
8		576	200	✓ 200	x										
9		577	100	✓ 100	x										
10		578	75	✓ 75	x										
11		579	50	✓ 50	x	x						x			
12		580	25	✓ 25	x	x						x			
13		581	10	✓ 10	x	x						x			
14		582	5	✓ 5	x	x	x								
15		583	0	✓ 0		x		x x	x x						
16		584	0	✓ 2						x					
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): DY/MB

Bottom Depth: 1311 m

Transmisso Cleaned: 2/ N

Time	UTC	Local
Start	0539	2239
Bottom	0600	
End	0636	

Positional Information

Lat:	48° 38.99	N
Lon:	126° 39.97	W

Lat:	48° 38.99	N
Lon:	126° 40.02	W

Lat:	48° 38.94	N
Lon:	126° 40.04	W

Extra comments:

Cast at end of cruise, 2nd visit

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P2

Event #:

108

Ship:

Tully

UTC Date (dd mmm yyyy): 21 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut-F	CHL	HPLC									
1	1	585	Bot-10	✓	109	x	x										
2	2	586	100	✓	100	x	x										
3	3	587	75	✓	75	x	x										
4	4	588	50	✓	50	x x	x										
5	5	589	25	✓	25	x	x										
6	6	590	10	✓	10	x	x										
7	7	591	5	✓	5	x	x	x x	x x								
8	8	592	0	✓	2.1		x	x x	x x								
9																	
10																	
11																	
12																	
13																	
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15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 118 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0957	0257
Bottom	0959	
End	1007	

Positional Information

Start	Lat: 48 ° 35 99 N
	Lon: 126 ° 00 01 W

Bottom

Lat: 48 ° 35 99 N
Lon: 126 ° 00 01 W

End

Lat: 48 ° 35 97 N
Lon: 125 ° 59 77 W

Extra comments:

Deep cast + Céline?

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: LC01 Event #: 113 Ship: Tully UTC Date (dd mmm yyyy): 21 JUN 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure		Nut-F	CHL	HPLC							
1	1	593	0	✓ 26		x	xx	xx							+1 L For Nito
2															
3															
4															
5															
6															
7															
8															
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21															
22															
23															
24															

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

Bottom Depth: 95 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1421	0721
Bottom	1422	
End	1425	

Positional Information
Start
Lat: 48 ° 50 42 N
Lon: 125 ° 27 65 W

Bottom
Lat: 48 ° 50 41 N
Lon: 125 ° 27 63 W

End
Lat: 48 ° 50 39 N
Lon: 125 ° 27 62 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P1 Event #: 114 Ship: Tully UTC Date (dd|mmm|yyyy): 21|JUN|2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments		
			Target Pressure	Confirmed ✓	Pressure	Nut-F	Sal	CHL	HPLC	Niko Ben	Nat	Oxy UVic	ONAr UVic	DNA UBC				
1	1	594	50	✓	50									x				
2	2	595	25	✓	25									x				
3	3	596	10	✓	10									x				
4	4	597	5	✓	5		x					xx	xx					
5	5	598	0	✓								xx	xx					
6	6	599	0	✓							x							
7	7	600	0	✓						x								
8	8	601	0	✓		x		xx	xx								FLUO: 1.5	
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

Bottom Depth: 135 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1607	0907
Bottom	1609	
End	1616	

Positional Information
Start
Lat: 48 ° 34 44 N
Lon: 125 ° 30 07 W

Bottom
Lat: 48 ° 34 43 N
Lon: 125 ° 30 08 W

End
Lat: 48 ° 34 43 N
Lon: 125 ° 30 12 W

Extra comments:
Cast at end of cruise, 2nd visit

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

LB08

Event #:

116

Ship:

Tully

UTC Date (dd:mmm:yyyy): 21 JUN 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	CHL	HPLC	Phyto	DNA	PBS		
1		602	0			x		xx	xx	x	xxx		Fluo. 2.5 just in case.
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													

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

Bottom Depth: 143 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1730	1030
Bottom	1734	
End	1737	

Positional Information

Start	Lat: 48° 25.34	N
	Lon: 125° 28.60	W

Bottom

Lat: 48° 25.34	N
Lon: 125° 28.59	W

End

Lat: 48° 25.31	N
Lon: 125° 28.60	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: LB01 Event #: 121 Ship: Tully UTC Date (dd mmm yyyy): 21 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure		Nut-F	Sal	CHL	HPLC						
1		603	0	✓	2		x		xx	xx					
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 35 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2108	1408
Bottom	2109	
End	2111	

Positional Information

Start	Lat: 48° 40.35' N	Lon: 124° 59.37' W
Bottom	Lat: 48° 40.35' N	Lon: 124° 59.36' W
End	Lat: 48° 40.35' N	Lon: 124° 59.35' W

Extra comments: