

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: Haro 59 Event #: 1 Ship: Tully UTC Date (dd mmm yyyy): 05 06 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	DIC	Oxy	Nut-fr	Sal	Optical						
1		1	Bot-10	✓ 221	x	x	x								
2		2	200	✓ 200	x x	x	x								
3		3	175	✓ 175	x	x	x								
4		4	150	✓ 150	x	x	x								
5		5	125	✓ 125	x	x x	x								
6		6	100	✓ 100	x	x	x								
7		7	80	✓ 80	x x	x	x x								
8		8	60	✓ 60	x	x	x								
9		9	50	✓ 50	x	x	x								
10		10	40	✓ 40	x	x	x								
11		11	30	✓ 30	x	x	x								
12		12	20	✓ 20	x	x	x								
13		13	10	✓ 10	x x	x	x								
14		14	5	✓ 5	x	x x	x								
15		15	0	✓ 1.4	x	x	x								
16		16	Bot-10	✓ 221					x x						
17		17	100	✓ 100					x x						
18		18	50	✓ 50					x x						
19		19	25	✓ 25					x x						
20		20	10	✓ 10					x x						
21		21	0	✓ 1.4					x x						
22															
23															Fluor 2.7
24															

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

Bottom Depth:	230	m
Transmisso Cleaned:	Y / N	

Time	UTC	Local
Start	0426	2126
Bottom	0431	
End	0452	

Positional Information	
Lat: 48 ° 36.86	N
Lon: 123 ° 14.70	W

Start

Lat: 48 ° 36.89	N
Lon: 123 ° 14.70	W

Bottom

Lat: 48 ° 36.80	N
Lon: 123 ° 14.78	W

End

Extra comments:
OUT-OF-ORDER
1; 16; 2-6; 17; 7-9 ;18; 10; 11; 19
12; 13; 20; 14; 15; 21

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: JF2 Event #: 4 Ship: Tully UTC Date (dd mmm yyyy): 5 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	DIC RS/RS	Oxy MB/CM	Nut-fr RI	Sal	Chl RI	HPLC RI	UBC gases	OPT CO2						
1	1	22	Bot-10	✓	177	x	x	x										
2	3	23	150	✓	150	x x	x	x										
3	4	24	125	✓	125	x	x	x										
4	5	25	100	✓	100	x	x	x										
5	7	26	80	✓	80	x	x x	x										
6	8	27	60	✓	60	x x	x	x										
7	9	28	50	✓	50	x	x	x x										
8	11	29	40	✓	40	x	x	x										
9	12	30	30	✓	30	x	x	x										
10	14	31	20	✓	20	x x	x	x										
11	15	32	10	✓	10	x	x	x										
12	17	33	5	✓	5	x	x x	x	x x	x x	x x							
13	18	34	0	✓	12	x	x	x										
14	2	35	Bot-10	✓	177							x x						
15	6	36	100	✓	100							x x						
16	10	37	50	✓	50							x x						
17	13	38	25	✓	25							x x						
18	16	39	10	✓	10							x x						
19	17	40	0	✓	12							x x						
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 185 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1202	0502
Bottom	1205	
End	1220	

Positional Information

Lat:	48 ° 18 02	N
Lon:	124 ° 0 24	W

Start

Bottom

Lat:	48 ° 18 28	N
Lon:	124 ° 0 28	W

End

Lat:	48 ° 18 16	N
Lon:	124 ° 0 63	W

Extra comments:
OUT-OF-ORDER
1; 14; 2; 3; 4; 15; 5; 6; 7; 16; 8;
9; 17; 10; 11; 18; 12; 13; 19

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P1 Event #: 8 Ship: Tully UTC Date (dd mmm yyyy): 5 6 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC	DIC	Oxy	pH	DOC	gases	OPT				
1	1	41	Bot-10	☒	101	x			xx	x	xxx	xx						
2	2	42	30	☒	30	x			x	x	x	xx						
3	3	43	5				x		x	xx	x	xx	xx					
4	4	44	5			x		xx	xx					xx				
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: 114 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1941	
Bottom	1944	
End	1949	

Positional Information

Start

Lat: 48 ° 34.54 N

Lon: 125 ° 30.00 W

Bottom

Lat: 48 ° 34.55 N

Lon: 125 ° 29.99 W

End

Lat: 48 ° 34.56 N

Lon: 125 ° 29.99 W

Extra comments:

Will also have loops for Chl x2

Sal x1, OxyLab x2,

and OxyT x2

Water Properties Group

Sampling Log

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

Cruise ID:

2017-06

Station:

P2

Event #:

9

Ship:

Tully

UTC Date (dd mmm yyyy):

5 6 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut-F	Nut-C	Sal	DIC	DOC	pH	Gases						
1	1	45	Bot-10	✓ 106	x	x			x	xx	x							
2	2	46	100	✓ 100	xx	x			x	xx	x							
3	3	47	75	✓ 75	x	x			xx	xx	x							
4	4	48	75	✓ 75	x	x			x		x							
5	5	49	50	✓ 50	x	x			x	xx	xxx							
6	6	50	25	✓ 25	x	xx			x	xx	x							
7	7	51	10	✓ 10	x	x			x	xx	x							
8	8	52	5	✓ 5	xx	x		x	x	xx	x	xx						
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	2230	1530
Bottom	2231	
End	2241	

Positional Information		
Start	Lat: 48 ° 36.05	N
	Lon: 125 ° 59.84	W

Bottom	Lat: 48 ° 36.05	N
	Lon: 125 ° 59.83	W

End	Lat: 48 ° 36.03	N
	Lon: 125 ° 59.73	W

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: 2017-06 Station: P2 Event #: 12 Ship: Tully UTC Date (dd mmm yyyy): 5 6 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP t	DMSP d	Nut-Fr	Chl	HPLC	UVic	Bugs	DA	OPT			
1		53	100	✓ 100								x					
2		54	100	✓ 100	x	x	x	x	x		x						
3		55	75	✓ 75	x			x	x		x						
4		56	50	✓ 50	x			x	x		x						
5		57	50	✓ 50								x					
6		58	40	✓ 40	x			x	x								
7		59	30	✓ 30	x			x	xx	xx							Fluo 1.4
8		60	25	✓ 25	x			x	xx	xx							Fluo 1.8
9		61	20	✓ 20	xx	xx	xx	x	xx	xx	x						Fluo 1.4
10		62	15	✓ 15	x			xx	xx	xx							Fluo 0.8
11		63	10	✓ 10	x			x	xx	xx	x						Fluo 0.5
12		64	5	✓ 5	x	x	x	x	xx	xx	x		x				Fluo 0.4
13		65	5	✓ 5								x					
14		66	0	✓ 1.6	x	x	x	x	x								
15		67	Bot-10	✓ 104										xx			
16		68	100	✓ 100										xx			
17		69	50	✓ 50										xx			
18		70	25	✓ 25										xx			
19		71	10	✓ 10										xx			
20		72	0	✓ 1.7										xx			
21																	
22																	
23																	
24																	

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

Bottom Depth: 114 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2331	1631
Bottom	2334	
End	2349	

Positional Information

Lat:	48 ° 35.93	N
Lon:	125 ° 59.58	W

Start

Bottom

End

Lat:	48 ° 35.91	N
Lon:	125 ° 59.55	W

Lat:	48 ° 35.86	N
Lon:	125 ° 59.48	W

Extra comments:
DMS cast - OUT-OF-ORDER
Will also have loops for Chl x2
15; 16; 1-5; 17; 6; 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: 2017-06 Station: P3 Event #: 14 Ship: Tully UTC Date (dd mmm yyyy): 6 6 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed	Nut-F	Sal	Chl	HPLC	Gases		OPT							
				✓ Pressure					UBC									
1		73	250	✓ 250														Amanda
2		74	5	✓ 5	x	x	xx	xx	xx									
3		75	0	✓ 1.6							xx							
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: 784 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0141	1842
Bottom	0155	
End	0211	

Positional Information

Lat:	48 ° 37.52	N
Lon:	126 ° 20.02	W

▼

Lat:	48 ° 37.50	N
Lon:	126 ° 20.11	W

▼

Lat:	48 ° 37.56	N
Lon:	126 ° 20.16	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P4 Event #: 16 Ship: Tully UTC Date (dd mmm yyyy): 6/6/2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut-F	Nut-C	Sal	DIC	DOC	pH	DNA	gases	SAGs				
					DY	Eric	Eric	Jade	Richard	DY	GC	Jade	Rob	C				
1	1	76	Bot-10	✓ 1304	x	x	x		x	xx	x	x	xx	x				
2	2	77	1250	✓ 1250	x	x	x	x	xx		x	x	xx	x				
3	3	78	1250	✓ 1251	xx	x	x	xx	x	xx	x							
4	4	79	1000	✓ 1000	x	x	x	xx	x	xx	x	x	xx	x				
5	5	80	800	✓ 800	x	x	x	x	x	xx	x	x	xx	x				
6	6	81	600	✓ 600	x	xx	xx		x	xx	x	x	xx	x				
7	7	82	400	✓ 401	x	x	x		x	xx	x	x	xx	x				
8	8	83	300	✓ 300	x	x			x	xx	x	x	xx	x				
9	9	84	250	✓ 250	x	x			x	xx	xxx							
10	10	85	200	✓ 200	x	x			x	xx	x	x	xx	x				
11	11	86	175	✓ 175	xx	x			x	xx	x							
12	12	87	150	✓ 150	x	x			x	xx	x	x	xx	x				
13	13	88	125	✓ 126	x	xx			x	xx	x							
14	14	89	100	✓ 100	x	x			x	xx	x	x	xx	x				
15	15	90	75	✓ 75	x	x			x	xx	xxx							
16	16	91	50	✓ 50	x	x			x	xx	x	x	xx	x				
17	17	92	25	✓ 25	x	x			x	xx	x	x	xx	x				
18	18	93	10	✓ 10	x	x			x	xx	x	x		x				
19	19	94	5	✓ 5	xx	x		x	x	xx	x		xx					
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 1299 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0351	2051
Bottom	0414	
End	0454	

Positional Information

Lat:	48 ° 39.15	N
Lon:	126 ° 39.97	W

Start

Bottom

Lat:	48 ° 39.09	N
Lon:	126 ° 40.01	W

End

Lat:	48 ° 39.08	N
Lon:	126 ° 40.04	W

Extra comments:
Deep cast
Plus loops 2x Oxy, 1x Sal, 1x Nut
2 x Gases

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P4 Event #: 20 Ship: Tully UTC Date (dd mmm yyyy): 6 JUN 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	UBC												
1	1	95	Bot-10	✓ 1327	x												
2	2	96	Bot-10	✓ ↓													
3	3	97	Bot-10	✓ ↓													
4	4	98	Bot-10	✓ ↓													
5	5	99	1000	✓ 1080	x												
6	6	100	1000	✓ ↓													
7	7	101	1000	✓ ↓													
8	8	102	1000	✓ ↓													
9	9	103	500	✓ 500	x												
10	10	104	500	✓ ↓													
11	11	105	500	✓ ↓													
12	12	106	500	✓ ↓													
13	13	107	10	✓ 10	x												
14	14	108	10	✓ ↓													
15	15	109	10	✓ ↓													
16	16	110	10	✓ ↓													
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 1321 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1000	0805
Bottom	1024	
End	1051	

Positional Information

Start	Lat:	48 ° 38 82	N
	Lon:	126 ° 40 14	W

Bottom

Lat:	48 ° 38 86	N
Lon:	126 ° 40 18	W

End

Lat:	48 ° 38 83	N
Lon:	126 ° 40 28	W

Extra comments:
UBC cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P4 Event #: 21 Ship: Tully UTC Date (dd mmm yyyy): 6 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments	
			Target Pressure	Confirmed ✓ Pressure	170	ONAr	Oxy	180 inc	NO3 inc	NH4 inc	CHL	Nut-Fr	NH4	Sal	C14	UVic	bugs		Phyto
1	7	111	O2 max	✓ 20	xx		xx							x					
2	11	112	5 m	✓ 5.7	xx	xx	xx		x										
3																			
4	1	113	250	✓ 250.7												x			
5	2	114	150	✓ 150												x			
6	4	115	50	✓ 50												x			
7	8	116	20	✓ 20												x			
8	9	117	10	✓ 10.5												x			
9	12	118	5	✓ 5.8												x		xxx	
10																			
11	3	119	100	✓ 100.6													x		
12	5	120	50	✓ 50													x		
13	13	121	5	✓ 5.7													x		
14																			
15																			
16																			
17	15	122	100%	✓ 2.5 Sit			xx	xxx	xxxxx		x	x							
18	16	123	100%	✓ 2.5 Sit						xxxxx			xx						
19	17	124	55%	✓ 2.5 Sit		xx	xx	xxx	x	x	x	x	xx	x					
20	14	125	30%	✓ 3.5			xx	xxx	x	x	x	x	xxxx	x					
21	10	126	15%	✓ 9.3			xx	xxx	x	x	x	x	xx	x					
22	6	127	1%	✓ 32			xx	xxx	x	x	x	x	xx	x					
23	18	128	55%	✓ 2.5 Sit											x				
24																			

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

Watchkeeper(s): MS

Bottom Depth: 1326 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	11 08	0408
Bottom	11 12	
End	11 32	

Positional Information

Start Lat: 48 ° 38 79 N

Lon: 126 ° 40 35 W

Bottom Lat: 48 ° 38 78 N

Lon: 126 ° 40 37 W

End Lat: 48 ° 38 76 N

Lon: 126 ° 40 47 W

Extra comments:

4, 5, 11, 6, 12, 22, 17, 8,
21, 2, 9, 13, 20, 17, 18,
19, 23

Water Properties Group

Sampling Log

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

Cruise ID:

2017-06

Station:

P4

Event #:

22

Ship:

Tully

UTC Date (dd mmm yyyy): 6 JUN 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	DMS m/min	DMSP t MR	DMSP d MR	Nut-Fr	Chl	HPLC	DA		OPT		
1	1	129	300	✓ 300	x			x							
2	3	130	200	✓ 200	x	x	x	x							
3	4	131	150	✓ 150	x	x	x	x							
4	5	132	100	✓ 100	x			xx	x						
5	7	133	75	✓ 75	x			x	x						Fluo < 2
6	8	134	60	✓ 60				x	xx	xx					Fluo < 2
7	9	135	50	✓ 50	x			x	xx	xx					Fluo < 2
8	11	136	40	✓ 40	x			x	xx	xx					Fluo < 2
9	12	137	30	✓ 30	x	x	x	x	xx	xx					
10	13	138	25	✓ 25	x			x	x						
11	15	139	20	✓ 20	xx	xx	xx	x	x						Fluo < 2
12	16	140	15	✓ 15	x			x	xx	xx					
13	17	141	10	✓ 10	x			x	x						Fluo < 2
14	19	142	5	✓ 5	x	x	x	x	xx	xx	x				
15	20	143	0	✓ 1.2	x	x	x	x	x						
16	2	144	300	✓ 300									xx		
17	6	145	100	✓ 100									xx		
18	10	146	50	✓ 50									xx		
19	14	147	25	✓ 25									xx		
20	18	148	10	✓ 10									xx		
21	21	149	0	✓ 1.2									xx		
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	1342	0642
Bottom	1347	
End	1405	

Positional Information

Start
Lat: 48° 38' 97" N
Lon: 126° 39' 95" WBottom
Lat: 48° 38' 93" N
Lon: 126° 39' 94" WEnd
Lat: 48° 38' 90" N
Lon: 126° 39' 93" W

Extra comments:

DMS cast - OUT-OF-ORDER

Plus loops for Chl x2

16; 1 - 4; 17; 5; 6; 7; 18; 8; 9; 10;
19; 11; 12; 13; 20; 14; 15; 21

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P5 Event #: 73 Ship: Tully UTC Date (dd mmm/yyyy): 6 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target	Confirmed	Nut-F	Sal	Chl	HPLC	Gases		OPT				
			Pressure	✓ Pressure					UBC						
1	1	150	5	✓ 5	x	x	xx	xx	xx						
2	2	151	0	✓ 2.2						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): MD

Bottom Depth: 2083 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1626	0926
Bottom	1706	
End	1734	

Positional Information
Start
Lat: 48 ° 41 53 N
Lon: 127 ° 10 06 W

Bottom
Lat: 48 ° 41 66 N
Lon: 127 ° 9 81 W

End
Lat: 48 ° 41 69 N
Lon: 127 ° 9 52 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P6 Event #: 24 Ship: Tully UTC Date (dd mmm yyyy): 6 6 2017

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials												Comments		
			Target	Confirmed	Pressure	Nut-F	Sal	Chl	HPLC	Gases	UBC	OPT								
			Pressure	√																
1		152	5			x	x	x x	x x	x x										
2		153	0									x x								
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
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16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

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

Bottom Depth: 2542 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	<u>2011</u>	<u>1311</u>
Bottom	<u>2044</u>	
End	<u>2116</u>	

Positional Information

Lat:	<u>48° 44.64</u>	<u>N</u>
Lon:	<u>127° 39.94</u>	<u>W</u>

▼

Lat:	<u>48° 44.62</u>	<u>N</u>
Lon:	<u>127° 39.98</u>	<u>W</u>

▼

Lat:	<u>48° 44.59</u>	<u>N</u>
Lon:	<u>127° 40.00</u>	<u>W</u>

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P7 Event #: 26 Ship: Tully UTC Date (dd mmm yyyy): 6 6 2017

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed		Nut-F	Sal	Chl	HPLC	Gases	UBC	OPT							
				✓	Pressure														
1		154	5	✓	5	x	x	x x	x x	x x									
2		155	0	✓	2							x x							
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Version: 25 Nov 2011

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

Bottom Depth: 2501 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2355	1655
Bottom	0025	
End	0059	

Positional Information
 Start
 Lat: 48 ° 46.63 N
 Lon: 128 ° 9.94 W

Bottom
 Lat: 48 ° 46.58 N
 Lon: 128 ° 10.00 W

End
 Lat: 48 ° 46.50 N
 Lon: 128 ° 10.07 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P8 Event #: 27 Ship: Tully UTC Date (dd mmm/yyyy): 7 6 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut Fr	Nut C	Chl	HPLC	OPT		UBC gases	UVic					
1		156	300	✓ 301							x x								
2		157	100	✓ 100							x x								
3		158	50	~ 51							x x								
4		159	25	✓ 25							x x								
5		160	10	✓ 11							x x								
6		161	0	✓ 2							x x								
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

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

Time	UTC	Local
Start	0336	2036
Bottom	0343	
End	0354	

Positional Information

Start	Lat: 48 ° 49.01 N
	Lon: 128 ° 40.02 W

Bottom

Lat: 48 ° 48.99 N
Lon: 128 ° 40.05 W

End

Lat: 48 ° 49.00 N
Lon: 128 ° 39.98 W

Extra comments:
OPTICS cast for Eric

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06

Station: P8

Event #: 30

Ship: Tully

UTC Date (dd mmm yyyy): 7 6 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments					
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut Fr	Nut C	Chl	HPLC	DOC		UBC	UVic						DA
														gases						
1		162	2000	✓	2000	x	x x	x	x			x x		x x						
2		163	1500	✓	1500	x	x	x	x			x x		x x						
3		164	1250	✓	1250	x	x	x x	x x			x x		x x						
4		165	1000	✓	1000	x	x x	x	x			x x		x x						
5		166	800	✓	800	x	x	x	x			x x		x x						
6		167	600	✓	600	x x		x	x			x x		x x						
7		168	400	✓	400	x		x	x			x x		x x						
8		169	300	✓	300	x		x				x x		x x						
9		170	250	✓	250	x		x				x x			x					
10		171	200	✓	200	x		x				x x		x x						
11		172	175	✓	175	x		x				x x								
12		173	150	✓	150	x		x x				x x		x x	x					
13		174	100	✓	100	x x		x		x		x x		x x						
14		175	75	✓	74	x		x		x		x x								
15		176	60	✓	60	x		x		x x	x x	x x								
16		177	50	✓	50	x		x		x x	x x	x x		x x	x					
17		178	40	✓	40	x		x		x x	x x	x x								
18		179	30	✓	30	x		x		x x	x x	x x								
19		180	25	✓	25	x		x		x		x x		x x						
20		181	20	✓	20	x x		x		x		x x			x					
21		182	15	✓	15	x		x		x x	x x	x x								
22		183	10	✓	10	x		x		x		x x			x					
23		184	5	✓	6	x	x	x				x x		x x						
24		185	5	✓	6			x		x x	x x				x	x				

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

Bottom Depth: 2518 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0514	2214
Bottom	0550	
End	0649	

Positional Information

Lat: 48 ° 48.95	N
Lon: 128 ° 40.05	W

Start

Bottom

End

Lat: 48 ° 48.95 N
Lon: 128 ° 39.77 W

Lat: 48 ° 48.86 N
Lon: 128 ° 39.77 W

Extra comments:
Will also have loops for Sal x1,
Nut x1, Chl x2,
OxyT x2 and gases x2

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P9 Event #: 31 Ship: Tully UTC Date (dd:mmm:yyyy): 7 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC	Gases	UBC	OPT							
1	1	186	5	☒ 5	x	x	xx	xx	xx									
2	2	187	0	☒ ~2									xx					
3																		
4																		
5																		
6																		
7																		
8																		
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): MB

Bottom Depth: 2352 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0910	0210
Bottom	0943	
End	1018	

Positional Information

Start

Lat: 48° 51' 41" N

Lon: 129° 9' 84" W

Bottom

Lat: 48° 51' 32" N

Lon: 129° 9' 96" W

End

Lat: 48° 51' 39" N

Lon: 129° 9' 41" W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P10 Event #: 32 Ship: Tully UTC Date (dd mmm yyyy): 7 JUN 2017

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓	Pressure	Nut-F	Sal	Chl	HPLC	Gases	UBC	OPT							
1	1	188	5	✓	58	x	x	xx	xx	xx									
2	2	189	0	✓	25							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: 2040 m
Transmissio Cleaned: Y / N

Time	UTC	Local
Start	1226	0526
Bottom	1301	
End	1333	

Positional Information
Start
Lat: 48 ° 53 62 N
Lon: 129 ° 40 01 W

Bottom
Lat: 48 ° 53 63 N
Lon: 129 ° 40 04 W

End
Lat: 48 ° 53 68 N
Lon: 129 ° 39 95 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P11 Event #: 33 Ship: Tully UTC Date (dd/mm/yyyy): 7 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	Gases	UBC	OPT						
1	1	190	5	✓ 5	x	x	xx	xx	xx								
2	2	191	0	✓ ~25								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: 2752 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1540	0840
Bottom	1616	
End	1650	

Positional Information

Lat:	48 ° 56 00	N
Lon:	130 ° 10 14	W

Bottom

Lat:	48 ° 56 00	N
Lon:	130 ° 10 09	W

End

Lat:	48 ° 56 08	N
Lon:	130 ° 10 13	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P12 Event #: 36 Ship: Tully UTC Date (dd mmm/yyyy): 7 6 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ✓ Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH	DOC		SAGs	DNA	Gases		OPT		
					MP/cm				MP/TV	GC			UBC	UBC	UBC				
1		217	Bot-10	✓	3265	x		x	x	x	x	xx		x	x	xx			
2		218	3000	✓	3000	x	xx	x	x	xx	x								
3		219	3000	✓	3000	x	x	x	x	x	x	xx		x	x	xx			
4		220	2500	✓	2500	xx	xx	x	x	x	xxx	xx							
5		221	2000	✓	2000	x	x	x	x	x	x	xx		x	x	xx			
6		222	1500	✓	1500	x	xx	x	x	x	x	xx		x	x	xx			
7		223	1250	✓	1251	x	x	x	x	x	x	xx		x	x	xx			
8		224	1000	✓	1000	x	xx	x	x	x	x	xx		x	x	xx			
9		225	800	✓	800	xx		xx	xx	x	x	xx		x	x	xx			
10		226	600	✓	600	x		x	x	x	x	xx		x	x	xx			
11		227	400	✓	400	x		x	x	x	x	xx		x	x	xx			
12		228	300	✓	300	x		x		x	x	xx		x	x	xx			
13		229	250	✓	250	xx		x		x	x	xx							
14		230	200	✓	200	x		x		x	x	xx		x	x	xx			
15		231	175	✓	174	x		x		x	x	xx							
16		232	150	✓	150	x		x		x	x	xx		x	x	xx			
17		233	125	✓	125	x		x		x	xxx	xx							
18		234	100	✓	100	x		x		x	x	xx		x	x	xx			
19		235	75	✓	75	xx		xx		x	x	xx							
20		236	50	✓	50	x		x		x	x	xx		x	x	xx			
21		237	25	✓	25	x		x		x	x	xx		x	x	xx			
22		238	10	✓	10	x		x		x	x	xx		x	x				
23		239	5			x	x	x		x	x	xx				xx			
24		240	Bot-10	✓	3265												xx		

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

Bottom Depth: 3282 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2150	1450
Bottom	2243	
End	0341	

Positional Information

Lat:	48° 58.24	N
Lon:	130° 40.09	W

Start

Bottom

End

Lat: 48° 58.24 N
Lon: 130° 40.09 W

Lat: 48° 58.24 N
Lon: 130° 40.09 W

Extra comments:
Deep cast - OUT-OF-ORDER!
Plus loops 2x Oxy-Tr, 1x Sal, 1x Nut
2x Gases

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06

Station: P12

Event #: 34

Ship: Tully

UTC Date (dd mmm yyyy): 7 6 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	DA		OPT					
1		192	300	✓ 300	x			x										
2		193	200	✓ 200	x	x	x	x										
3		194	150	✓ 150	x	x	x	x										
4		195	100	✓ 100	x			x	x									
5		196	75	✓ 75	x			x	x									
6		197	60	✓ 60				x	xx	xx							Fluo	
7		198	50	✓ 50	x			x	xx	xx							Fluo	
8		199	40	✓ 40	x			x	xx	xx							Fluo	
9		200	30	✓ 30	x	x	x	x	xx	xx							Fluo	
10		201	25	✓ 25	x			xx	x									
11		202	20	✓ 20	xx	xx	xx	x	x									
12		203	15	✓ 15	x			x	xx	xx							Fluo	
13		204	10	✓ 10	x			x	x									
14		205	5	✓ 5	x	x	x	x	xx	xx	x						Fluo	
15		206	0	✓ 1.7	x	x	x	x	x									
16		207	300	✓ 300									xx					
17		208	100	✓ 100									xx					
18		209	50	✓ 51									xx					
19		210	25	✓ 24									xx					
20		211	10	✓ 10									xx					
21		212	0	✓ 1.7									xx					
22																		
23																		
24																		

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

Bottom Depth:	3235	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	1910	1210
Bottom	1916	
End	1940	

Positional Information		
Start	Lat: 48° 58.26	N
	Lon: 130° 40.10	W

Bottom	Lat: 48° 58.26	N
	Lon: 130° 40.09	W

End	Lat: 48° 58.25	N
	Lon: 130° 40.10	W

Extra comments:
DMS cast - OUT-OF-ORDER
Plus loops for Chl x2
16; 1 - 4; 17; 5; 6; 7; 18; 8; 9; 10;
19; 11; 12; 13; 20; 14; 15; 21

Sampling Log

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

Event #: 37

Ship: Tully

UTC Date (dd mmm yyyy): 08 06 2017

Comments

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s):

Bottom Depth: 158 m

Transmisso Cleaned: Y / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start	01:30	18:30
Bottom	01:36	18:36
End	01:47	18:47

Positional Information

Lat:	48° 58.24	N
Lon:	130° 40.09	W

Start

Bottom

Bottom	Lat: 48 ° 58.23	N
	Lon: 130 ° 40.07	W

End

Lat:	48 ° 58.22	N
Lon:	130 ° 40.06	W

Extra comments:

Go-flo 200

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

Version: 25 Nov 2011

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

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P12 Event #: 38 Ship: Tully UTC Date (dd mmm yyyy): 8 6 2017

Niskin #		Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments	
				Target Pressure	Confirmed ✓ Pressure	UBC													
1			249	2000	✓ 2001		x												
2			250	2000															
3			251	2000															
4			252	2000															
5			253	1000	✓ 1000		x												
6			254	1000															
7			255	1000															
8			256	1000															
9			257	500	✓ 500		x												
10			258	500															
11			259	500															
12			260	500															
13			261	10			x												
14			262	10															
15			263	10															
16			264	10															
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Version: 25 Nov 2011

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

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

Bottom Depth: 3235 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0215	1915
Bottom	0253	
End	0333	

Positional Information		
Start	Lat: 48 ° 58.22	N
	Lon: 130 ° 40.07	W
Bottom	Lat: 48 ° 58.22	N
	Lon: 130 ° 40.07	W
End	Lat: 48 ° 58.22	N
	Lon: 130 ° 40.06	W

Extra comments:
 Jade's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P12 Event #: 39 Ship: Tully UTC Date (dd:mmm/yyyy): 08 06 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed √ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt	Nut-C									
1		245	800			x	x	x	x	x								
2		246	600					x	x									
3		247	400					x	x									
4		248	300					x	x									
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Version: 25 Nov 2011

Form is not to be used for

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

Bottom Depth: 3235 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	04:16	21:16
Bottom	04:48	21:48
End	05:30	22:30

Positional Information

Start	Lat: 48 ° 58.28	N
	Lon: 130 ° 40.06	W
Bottom	Lat: 48 ° 58.27	N
	Lon: 130 ° 40.04	W
End	Lat: 48 ° 58.27	N
	Lon: 130 ° 40.04	W

Extra comments:
Go-flo 800

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06

Station: P12

Event #: 41

Ship: Tully

UTC Date (dd mmm yyyy): 18 JUN 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments
			Target Pressure	Confirmed Pressure	17O	ONAr	Oxy	NO3 ind	NH4 ind	CHL	Nut-Fr	NH4	Sal	C14	UVic	bugs	Phyto	
1	3	265	O2 max	✓ 50	xx		xx							x				
2	10	266	5 m	✓ 5	xx	xx	xx		x									
3																		
4	1	267	250	✓ 250														
5	2	268	150	✓ 151													x	
6	4	269	50	✓ 50													x	
7	6	270	20	✓ 20													x	
8	9	271	10	✓ 10													x	
9	11	272	5	✓ 5													x	
10																		xxx
11																		
12																		
13																		
14																		
15																		
16																		
17	14	273	100%	✓ 0					xxxxx		x	x						
18	15	274	100%	✓ 0						xxxxx			xx					
19	12	275	55%	✓ 4		xx	xx		x	x	x	x	xx	x				
20	8	276	30%	✓ 12					x	x	x	x	xxxx	x				
21	7	277	15%	✓ 18					x	x	x	x	xx	x				
22	5	278	1%	✓ 50					x	x	x	x	xx	x				
23	13	279	55%	✓ 4														
24														x				

Version: 25 Nov 2011

Transmissometer to be cleaned before use

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

Bottom Depth: 3239 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	0657	2857
Bottom	0702	
End	0717	

Positional Information

Start	Lat: 48 ° 58 27 N
	Lon: 130 ° 40 04 W

Bottom

Lat: 48 ° 58 27 N
Lon: 130 ° 40 04 W

End

Lat: 48 ° 58 27 N
Lon: 130 ° 40 05 W

Extra comments:
4, 5, 1, 6, 22, 21, 20
8, 2, 9, 19, 23, 17, 18

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P13 Event #: 43 Ship: Tully UTC Date (dd mmm yyyy): 8 Jun 2012

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed	Pressure	Nut-F	Sal	Chl	HPLC	Gases		OPT							
				✓						UBC									
1	1	280	5	✓	5	x	x	xx	xx	xx									
2	2	281	0	✓	-2							xx							
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
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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: 3520 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1134	0434
Bottom	1209	
End	1245	

Positional Information

Lat:	49 ° 2 50	N
Lon:	131 ° 40 07	W

Start

Lat:	49 ° 2 33	N
Lon:	131 ° 40 31	W

Bottom

Lat:	49 ° 2 10	N
Lon:	131 ° 40 01	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P14

Event #: 44

Ship: Tully

UTC Date (dd mmm yyyy): 8 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	Gases	UBC		OPT	pH		
1	7	282	5	✓ 5	x	x	xx	xx	xx						
2	8	283	0	✓ ~2								xx			
3	1	284	500	✓ 500									xxxx		
4	2	285	400	✓ 400									xxxx		
5	3	286	300	✓ 300									xxxx		
6	4	287	200	✓ 200									xxxx		
7	5	288	100	✓ 100									xxxx		
8	6	289	50	✓ 50									xxxx		
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: 3316 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1655	0955
Bottom	1731	
End	1812	

Positional Information
 Start
 Lat: 49 ° 7 35 N
 Lon: 132 ° 40 06 W

Bottom
 Lat: 49 ° 7 15 N
 Lon: 132 ° 40 00 W

End
 Lat: 49 ° 6 88 N
 Lon: 132 ° 39 74 W

Extra comments:
 OUT-OF-ORDER!
 3-4-5-6-7-8-1-2

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P15

Event #: 45

Ship: Tully

UTC Date (dd mmm yyyy): 8 6 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	Gases	UBC	OPT							
1		290	5	✓ 5	x	x	xx	xx	xx									
2		291	0	✓ 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): JY

Bottom Depth: 3407 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2230	1530
Bottom	2307	
End	2339	

Positional Information

	Lat	Lon
Start	49° 11.93 N	133° 39.92 W
Bottom	49° 11.84 N	133° 40.00 W
End	49° 11.88 N	133° 40.03 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P16 Event #: 46 Ship: Tully UTC Date (dd mmm/yyyy): 9 June 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ✓ Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH	DOC		Gases	SAGs	DNA	OPT			
1		292	Bot-10	✓ 3683	x		x	x	x	x	x		xx	x	x	x			
2		293	3500	✓ 3500	x	xx	xx	xx	xx	x									
3		294	3500	✓ 3500	xx	x	x	x	x	x									
4		295	3000	✓ 3000	x	xx	x	x	x	x	x		xx	x	x				
5		296	2500	✓ 2500	x	x	x	x	x	xxx									
6		297	2000	✓ 2000	x	xx	x	x	x	x	x		xx	x	x				
7		298	1500	✓ 1500	x	x	x	x	x	x	x		xx	x	x				
8		299	1250	✓ 1251	x	xx	x	x	x	x			xx	x	x				
9		300	1000	✓ 1000	x	xx	x	x	x	x	x		xx	x	x				
10		301	800	✓ 801	xx		x	x	x	x	x		xx	x	x				
11		302	600	✓ 600	x		x	x	x	x	x		xx	x	x				
12		303	400	✓ 400	x		x	x	x	x	x		xx	x	x				
13		304	300	✓ 200	x		x		x	x	x		xx	x	x				
14		305	250	✓ 250	x		x		x	xxx	x								
15		306	200	✓ 200	x		x		x	x	x		xx	x	x				
16		307	175	✓ 175	xx		x		x	x	x								
17		308	150	✓ 150	x		x		x	x	x		xx	x	x				
18		309	125	✓ 124	x		xx		x	x	x								
19		310	100	✓ 100	x		x		x	x	x		xx	x	x				
20		311	75	✓ 75	x		x		x	x	x								
21		312	50	✓ 50	x		x		x	x	x		xx	x	x				
22		313	25	✓ 25	xx		x		x	x	x		xx	x	x				
23		314	10	✓ 10	x		x		x	x	x			x	x				
24		315	5	✓ 5	x	x	x		x	x	x		xx						

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

Bottom Depth: 3634 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0348	2048
Bottom	0450	
End	0616	

Positional Information

Lat:	49° 17.04	N
Lon:	134° 39.99	W

Start

Bottom

End

Lat: 49° 17.00 N
Lon: 134° 39.99 W

Lat: 49° 17.01 N
Lon: 134° 39.99 W

Extra comments:
Deep cast
Will also have loops for Sal x1,
gases x2, OxyT x2, Nut x1
SINGLE DOC

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P16 Event #: 47 Ship: Tully UTC Date (dd mmm yyyy): 9 JUN 2012

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments							
			Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt												
1	1	316	40	☒	40	x	x	x	x											
2	2	317	25	☒	25			x	x											
3	3	318	10	☒	10			x	x											
4	4	319	5	☒	5			x	x											
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Version: 25 Nov 2011

Profile type:
ROS TRM X-Niskin other? ☒ *Burkes*
Watchkeeper(s): *mk*

Bottom Depth: 3626 m
Transmisso Cleaned: *nm* Y / N

Time	UTC	Local
Start	0750	1250
Bottom	0832	
End	0852	

Positional Information

Lat:	49 ° 17 05	N
Lon:	134 ° 39 94	W

Start

▼

Lat:	49 ° 17 07	N
Lon:	134 ° 40 00	W

Bottom

▼

Lat:	49 ° 17 08	N
Lon:	134 ° 40 00	W

End

Extra comments:
Go-flo 40

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P16 Event #: 50 Ship: Tully UTC Date (dd mmm yyyy): 9 JUN 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt									
1	↓	320	150		A	X	x	x									ISO did not fire
2		321	100		X	X	x	x									Sal + Nut collected here
3		322	75				x	x									
4		323	50				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: 3636 m
Transmisso Cleaned: NA Y / N

Time	UTC	Local
Start	0959	0256
Bottom	1029	
End	1037	

Positional Information
Start
Lat: 49 ° 16 47 N
Lon: 134 ° 40 28 W

Bottom
Lat: 49 ° 16 33 N
Lon: 134 ° 40 30 W

End
Lat: 49 ° 16 33 N
Lon: 134 ° 40 25 W

Extra comments:
Go-flo 150

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P16 Event #: 51 Ship: Tully UTC Date (dd mmm yyyy): 9 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments	
			Target Pressure	Confirmed ✓ Pressure	17O	ONAr	Oxy		NO3 ind	NH4 ind	CHL	Nut-Fr	NH4	Sal	C14	UVic	bugs		Phyto
1	4	324	O2 max	✓ 50	xx		xx							x					
2	10	325	5 m	✓ 5	xx	xx	xx		x										
3																			Fired Accidentally
4	1	326	250	✓ 251															
5	2	327	150	✓ 150													x		
6	5	328	50	✓ 50													x		
7	6	329	20	✓ 20													x		
8	8	330	10	✓ 10													x		
9	11	331	5	✓ 5													x		xxx
10																			
11																			332
12																			CHL
13																			P16
14																			100%
15																			2017-06
16																			Bot 18
17	14	332	100%	✓ 0					xxxxx		x	x							
18	15	333	100%	✓ 0						xxxxx			xx						
19	12	334	55%	✓ 3.5		xx	xx		x	x	x	x	xx	x					
20	9	335	30%	✓ 7.5					x	x	x	x	xxxx	x					
21	7	336	15%	✓ 15					x	x	x	x	xx	x					
22	3	337	1%	✓ 52					x	x	x	x	xx	x					
23	13	338	55%	✓ 3.5															
24															x				

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

Bottom Depth: MB m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1054	0354
Bottom	1057	
End	1119	

Positional Information
Start
Lat: 49 ° 17 06 N
Lon: 134 ° 40 00 W

Bottom
Lat: 49 ° 17 03 N
Lon: 134 ° 40 01 W

End
Lat: 49 ° 16 96 N
Lon: 134 ° 39 97 W

Extra comments:
4, 5, 22, 1, 6, 7, 21, 8, 20,
2, 9, 19, 23, 17, 18

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P16 Event #: 52 Ship: Tully UTC Date (dd:mmm:yyyy): 9 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Sal	Nut-fr	Fe	Fe							
1		339	800		x	x	x	x							
2		340	400				x	x							
3		341	300				x	x							
4		342	200				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: 3636 m
Transmisso Cleaned: M Y / N

Time	UTC	Local
Start	1156	0456
Bottom	1228	
End	1312	

Positional Information

Lat:	49 ° 16 74	N
Lon:	134 ° 39 94	W

Start

Lat: 49 ° 16 60 N
Lon: 134 ° 39 78 W

Bottom

Lat: 49 ° 16 49 N
Lon: 134 ° 39 55 W

End

Extra comments:

Go-flo 800

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P16 Event #: 54 Ship: Tully UTC Date (dd:mmm/yyyy): 9 JUN 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSD	DMSF	Nut-Fr	Chl	HPLC	DA		OPT		
					t		d								
1	1	343	300	✓ 300	x			x							
2	3	344	200	✓ 200	x	x	x	x							
3	4	345	150	✓ 150	x	x	x	x							
4	5	346	100	✓ 100	x			xx	x						
5	7	347	75	✓ 75	x			x	x						
6	8	348	60	✓ 60				x	xx	xx					Fluo < 2
7	9	349	50	✓ 50	x			x	xx	xx					Fluo < 2
8	11	350	40	✓ 40	x			x	xx	xx					Fluo < 2
9	12	351	30	✓ 30	x	x	x	x	xx	xx					Fluo < 2
10	13	352	25	✓ 25	x			x	x						
11	15	353	20	✓ 20	xx	xx	xx	x	x						
12	16	354	15	✓ 15	x			x	xx	xx					Fluo < 2
13	17	355	10	✓ 10	x			x	x						
14	17	356	5	✓ 5	x	x	x	x	xx	xx	x				Fluo < 2
15	20	357	0	✓ ~1.5	x	x	x	x	x						
16	2	358	300	✓ 300									xx		
17	6	359	100	✓ 100									xx		
18	10	360	50	✓ 50									xx		
19	14	361	25	✓ 25									xx		
20	18	362	10	✓ 10									xx		
21	21	363	0	✓ ~1.5									xx		
22															
23															
24															

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

Bottom Depth: 2633 m
Transmissio Cleaned: (Y) / N

Time	UTC	Local
Start	1403	0703
Bottom	1408	
End	1428	

Positional Information
Start Lat: 49 ° 17 07 N
Lon: 134 ° 39 96 W

Bottom Lat: 49 ° 17 11 N
Lon: 134 ° 39 95 W

End Lat: 49 ° 17 18 N
Lon: 134 ° 39 82 W

Extra comments:
DMS cast - OUT-OF-ORDER
* LOOP chl left in bridge for 10+ hrs
Plus loops for Chl x2
16; 1 - 4; 17; 5; 6; 7; 18; 8; 9; 10;
19; 11; 12; 13; 20; 14; 15; 21

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P17 Event #: 56 Ship: Tully UTC Date (dd mmm yyyy): 9 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed		Nut-F	Sal	Chl	HPLC	Gases		OPT							
				✓	Pressure						UBC								
1		364	5	✓	5	x	x	x x	x x	x x									
2		365	0	✓	1.4							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: 3590 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1839	1139
Bottom	1916	
End	1953	

Positional Information
Start
Lat: 49° 21.02 N
Lon: 135° 40.15 W

Bottom
Lat: 49° 21.13 N
Lon: 135° 40.29 W

End
Lat: 49° 21.20 N
Lon: 135° 40.51 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P18 Event #: 57 Ship: Tully UTC Date (dd mmm yyyy): 9 6 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments					
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC	Gases UBC	pH	OPT	DOC								
1		366	2000	✓	2000		x x						x							
2		367	1500	✓	1500		x x						x							
3		368	1000	✓	1000		x x						x							
4		369	500	✓	499						xxxx		x							
5		370	400	✓	400								x							
6		371	300	✓	301						xxxx		x							
7		372	200	✓	200						xxxx		x							
8		373	150	✓	150						xxxx		x							
9		374	100	✓	100						xxxx		x							
10		375	50	✓	50						xxxx		x							
11		376	25	✓	25								x							
12		377	10	✓	10								x							
13		378	5	✓	5	x	x	x x	x x	x x			x							
14		379	0	✓	1.6							x x								
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

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

Watchkeeper(s): DY

Bottom Depth: 3835 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2341	
Bottom	0022	
End	0106	

Positional Information

Start Lat: 49 ° 26.00 N

Start Lon: 136 ° 40.05 W

Bottom Lat: 49 ° 25.99 N

Bottom Lon: 136 ° 40.00 W

End Lat: 49 ° 26.05 N

End Lon: 136 ° 40.31 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P19 Event #: 60 Ship: Tully UTC Date (dd mmm yyyy): 10 6 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed	Nut-F	Sal	Chl	HPLC	Gases	OPT								
				✓ Pressure					UBC									
1		380	5	✓	5	x	x	xx	xx	xx								
2		381	0	✓	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): DY

Bottom Depth: 3928 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0514	2216
Bottom	0543	
End	0613	

Positional Information

Start	Lat: 49 ° 29.99 N
	Lon: 137 ° 39.96 W
Bottom	Lat: 49 ° 30.01 N
	Lon: 137 ° 40.04 W
End	Lat: 49 ° 30.03 N
	Lon: 137 ° 40.15 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P20 Event #: 62 Ship: Tully UTC Date (dd mmm yyyy): 10 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments		
			Target Pressure	Confirmed ✓ Pressure	17O	ONAr	Oxy	NO3 ind	NH4 ind	CHL	Nut-Fr	NH4	Sal	C14	UVic	bugs		Phyto	
1	6	382	O2 max	✓ 40.6	xx			xx							x				
2	10	383	5 m	✓ 5.3	xx		xx	xx		x									
3																			
4	1	384	250	✓ 250													x		
5	2	385	150	✓ 150													x		
6	4	386	50	✓ 50													x		
7	7	387	20	✓ 19.8													x		
8	9	388	10	✓ 10.1													x		
9	11	389	5	✓ 5.5													x		xxx
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17	14	390	100%	✓ 19.8 S/L						xxxxx		x	x						
18	15	391	100%	✓ 20 S/L							xxxxx			xx					
19	12	392	55%	✓ 5.4			xx	xx		x	x	x	x	xx	x				
20	8	393	30%	✓ 15.6						x	x	x	x	xxxx	x				
21	5	394	15%	✓ 43.5						x	x	x	x	xx	x				
22	3	395	1%	✓ 8.5						x	x	x	x	xx	x				
23	13	396	55%	✓ 5.5												x			
24																			

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

Bottom Depth: 3967 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1108	0408
Bottom	1112	
End	1130	

Positional Information
Start Lat: 49 ° 34 01 N
Lon: 138 ° 39 89 W

Bottom Lat: 49 ° 34 00 N
Lon: 138 ° 39 90 W

End Lat: 49 ° 33 76 N
Lon: 138 ° 39 87 W

Extra comments:
Productivity cast
OUT-OF-ORDER
4, 5, 22, 42, 720, 8, 2, 9, 19, 23, 17, 18

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P20 Event #: 63 Ship: Tully UTC Date (dd mmm/yyyy): 10 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt							
1	↓	397	800		x	x	x	x							
2		398	400				x	x							
3		399	300				x x	x x							
4		400	200				x	x							
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 3967 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	<u>1137</u>	<u>0437</u>
Bottom	<u>1201</u>	
End	<u>1230</u>	

Positional Information

Start	Lat: <u>49 ° 33 90</u> N
	Lon: <u>138 ° 39 85</u> W
Bottom	Lat: <u>49 ° 33 94</u> N
	Lon: <u>138 ° 39 89</u> W
End	Lat: <u>49 ° 33 99</u> N
	Lon: <u>138 ° 39 80</u> W

Extra comments:
Go-flo 800

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P20 Event #: 641 Ship: Tully UTC Date (dd mmm yyyy): 10 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ✓ Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH	DOC		Gases	SAGs	DNA	OPT			
1	1	401	Bot-10	✓ 4023	x		x	x	x	x	x		xx	x	x	xx			
2	2	402	3500	✓ 3500	x	xx	xx	xx	xx	x									
3	3	403	3500	✓ 3500	xx	x	x	x	x	x	x								
4	4	404	3000	✓ 3000	x	xx	x	x	x	x	x		xx	x	x				
5	5	405	2500	✓ 2500	x	x	x	x	x	xxx	x								
6	6	406	2000	✓ 2000	x	xx	x	x	x	x	x		xx	x	x				
7	7	407	1500	✓ 1500	x	x	x	x	x	x	x		xx	x	x				
8	8	408	1250	✓ 1250	x	xx	x	x	x	x	x		xx	x	x				
9	9	409	1000	✓ 1000	x	xx	x	x	x	x	x		xx	x	x				
10	10	410	800	✓ 800	xx	x	x	x	x	x	x		xx	x	x				
11	11	411	600	✓ 600	x	x	x	x	x	x	x		xx	x	x				
12	12	412	400	✓ 400	x	x	x	x	x	x	x		xx	x	x				
13	13	413	300	✓ 300	x	x	x		x	x	x		xx	x	x				
14	14	414	250	✓ 250	x	x	x		x	xxx	x								
15	15	415	200	✓ 200	x	x	x		x	x	x		xx	x	x				
16	16	416	175	✓ 175	xx	x	x		x	x	x								
17	17	417	150	✓ 150	x	x	x		x	x	x		xx	x	x				
18	18	418	125	✓ 125	x	x	xx		x	x	x								
19	19	419	100	✓ 100	x	x	x		x	x	x		xx	x	x				
20	20	420	75	✓ 75	x	x	x		x	x	x								
21	21	421	50	✓ 50	x	x	x		x	x	x		xx	x	x				
22	22	422	25	✓ 25	xx	x	x		x	x	x		xx	x	x				
23	23	423	10	✓ 10	x	x	x		x	x	x			x	x				
24	24	424	5	✓ 5	x	x	x		x	x	x		xx						

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

Bottom Depth: 3966 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	13 04	06 04
Bottom	14 10	
End	15 39	

Positional Information

Lat:	49 ° 33	90	N
Lon:	138 ° 39	99	W

Start

Lat:	49 ° 33	90	N
Lon:	138 ° 40	23	W

Bottom

Lat:	49 ° 33	91	N
Lon:	138 ° 39	95	W

End

Extra comments:

Deep cast

Will also have loops for Sal x1, gases x2, OxyT x2, Nut x1

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P20 Event #: 65 Ship: Tully UTC Date (dd/mm/yyyy): 16 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure				DIC	SAL						
1		454	5					x	x						
2		455	0					x x x	x						
3		456	Loop					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): MA

Bottom Depth: 3965 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1613	0913
Bottom	—	—
End	1632	

Positional Information
Start
Lat: 49 ° 33.91 N
Lon: 138 ° 40.03 W

Bottom
Lat: ° N
Lon: ° W

End
Lat: 49 ° 33.84 N
Lon: 138 ° 40.28 W

Extra comments:
753 DIC experiment

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P20 Event #: 606 Ship: Tully UTC Date (dd mmm yyyy): 10 JUN 2017

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓	Confirmed Pressure	Sal	Nut-fr	Fe <i>filt</i>	Fe <i>unfilt</i>									
1		425	150			x	x	x	x									
2		426	100					x	x									
3		427	75					x	x									
4		428	50					x	x									
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 3105 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1621	0921
Bottom	1636	
End	1654	

Positional Information
Start
Lat: 49 ° 33.86 N
Lon: 138 ° 40.11 W

Bottom
Lat: 49 ° 33.86 N
Lon: 138 ° 40.30 W

End
Lat: 49 ° 33.80 N
Lon: 138 ° 40.39 W

Extra comments:
Go-flo 150
Weights only down 5m,
not 50m

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P20 Event #: 608 Ship: Tully UTC Date (dd mmm yyyy): 10 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials						Comments									
			Target Pressure	Confirmed ✓	Pressure	Sal	Nut-fr	Fe	Fe	Fe										
1		429	40 ✓			x	x	x	x	xxxx										
2		430	25 ✓					x	x	xxxx										
3		431	10 ✓					x X	x X											Niskin Redeployed + sampled
4		432	5 ✓					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: 3965 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1809	1109
Bottom	1820	
End	1833	

Positional Information

Lat:	49 ° 34.13	N
Lon:	138 ° 40.66	W

▼

Lat:	49 ° 34.22	N
Lon:	138 ° 40.70	W

▼

Lat:	49 ° 34.30	N
Lon:	138 ° 40.75	W

Extra comments:
Go-flo 40

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P20 Event #: 70 Ship: Tully UTC Date (dd mmm yyyy): 10 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	DA		OPT		
					ML	1 PD	d PD	AT	PL	AL			EX		
1		433	300	✓ 300	x			x							
2		434	200	✓ 200	x	x	x	x							
3		435	150	✓ 150	x	x	x	x							
4		436	100	✓ 100	x			xx	x						
5		437	75	✓ 75	x			x	x						
6		438	60	✓ 60				x	xx	xx					Fluo
7		439	50	✓ 50	x			x	xx	xx					Fluo
8		440	40	✓ 40	x			x	xx	xx					Fluo
9		441	30	✓ 30	x	x	x	x	xx	xx					Fluo
10		442	25	✓ 25	x			x	x						
11		443	20	✓ 20	xx	xx	xx	x	x						
12		444	15	✓ 15	x			x	xx	xx					Fluo
13		445	10	✓ 10	x			x	x						
14		446	5	✓ 5	x	x	x	x	xx	xx	x				Fluo
15		447	0	✓ 2	x	x	x	x	x						
16		448	300	✓ 300									xx		
17		449	100	✓ 100									xx		
18		450	50	✓ 50									xx		
19		451	25	✓ 25									xx		
20		452	10	✓ 10									xx		
21		453	0	✓ 2									xx		
22															
23															
24															

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

Bottom Depth: 3964 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1920	1220
Bottom	1925	
End	1944	

Positional Information

Lat:	49° 34.93	N
Lon:	138° 40.78	W

Start

Bottom

Lat: 49° 34.50 N
Lon: 138° 40.79 W

End

Lat: 49° 34.48 N
Lon: 138° 40.78 W

Extra comments:
DMS cast - OUT-OF-ORDER
Plus loops for Chl x2
16; 1 - 4; 17; 5; 6; 7; 18; 8; 9; 10;
19; 11; 12; 13; 20; 14; 15; 21

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P21 Event #: 74 Ship: Tully UTC Date (dd mmm yyyy): 14 6 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target	Confirmed	Nut-F	Sal	Chl	HPLC	Gases		OPT				
			Pressure	✓ Pressure					UBC						
1		457	5	✓ 5	x	x	xx	xx	xx						
2		458	0	✓ 1.7						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: 3959 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0041	1741
Bottom	0114	
End	0147	

Positional Information
Start
Lat: 49° 37.97 N
Lon: 139° 38.98 W

Bottom
Lat: 49° 37.99 N
Lon: 139° 40.09 W

End
Lat: 49° 37.98 N
Lon: 139° 40.07 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P22 Event #: 75 Ship: Tully UTC Date (dd mmm yyyy): 11 6 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC	Gases UBC	pH	OPT	DOC			
1	1	459	2000	✓ 2000		x x						x			
2	2	460	1500	✓ 1500		x x						x			
3	3	461	1000	✓ 1000		x x						x			
4	4	462	800	✓ 800								x			
5	5	463	600	✓ 600								x			
6	6	464	400	✓ 400								x			
7	7	465	300	✓ 300								x			
8	8	466	200	✓ 200								x			
9	9	467	150	✓ 150								x			
10	10	468	125	✓ 125								x			
11	11	469	100	✓ 100								x			
12	12	470	75	✓ 75								x			
13	13	471	50	✓ 50								x			
14	14	472	25	✓ 25								x			
15	15	473	10	✓ 10								x			
16	16	474	5	✓ 5	x	x	x x	x x	x x			x			
17	17	475	0	✓ ~ 2						x x	x				
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth:	3892	m
Transmisso Cleaned:	(Y) / N	

Time	UTC	Local
Start	0636	2336
Bottom	0708	
End	0756	

Positional Information
Start
Lat: 49 ° 42.07 N
Lon: 139 ° 39.99 W

Start

Bottom
Lat: 49 ° 41.95 N
Lon: 140 ° 40.01 W

Bottom

End
Lat: 49 ° 41.93 N
Lon: 140 ° 40.06 W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P23 Event #: 77 Ship: Tully UTC Date (dd mmm yyyy): 11 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure		Nut-F	Sal	Chl	HPLC	Gases UBC		OPT						
1		476	5	✓		x	x	xx	xx	xx								
2		477	0									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: 405 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1235	0535
Bottom	1308	
End	1340	

Positional Information

Start

Lat: 49 ° 46 01 N

Lon: 141 ° 39 97 W

Bottom

Lat: 49 ° 45 97 N

Lon: 141 ° 40 14 W

End

Lat: 49 ° 45 86 N

Lon: 141 ° 40 22 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P24 Event #: 79 Ship: Tully UTC Date (dd mmm yyyy): 11 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	Gases	pH	OPT	DOC			
1		478	2000	✓ 2000		x x						x			
2		479	1500	✓ 1499		x x						x			
3		480	1000	✓ 1000		x x						x			
4		481	800	✓ 800								x			
5		482	600	✓ 599								x			
6		483	400	✓ 399								x			
7		484	300	✓ 300								x			
8		485	200	✓ 200								x			
9		486	150	✓ 149								x			
10		487	125	✓ 124								x			
11		488	100	✓ 100								x			
12		489	75	✓ 75								x			
13		490	50	✓ 50								x			
14		491	25									x			bumped KB & tripped
15		492	25	✓ 25								x			
16		493	10	✓ 11	x	x	x x	x x	x x			x			
17		494	5	✓ 5							x x	x			
18			0	✓ 1.7											
19															
20															
21															
22															
23															
24															

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

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

Time	UTC	Local
Start	1836	1136
Bottom	1912	
End	2007	

Positional Information
Start
Lat: 49 ° 50 26 N
Lon: 124 ° 39 89 W

Start

Bottom

Lat: 49 ° 50.33 N
Lon: 142 ° 39.98 W

End

Lat: 49 ° 50.22 N
Lon: 142 ° 39.95 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P25 Event #: 83 Ship: Tully UTC Date (dd mmm yyyy): 12 6 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	Gases	pH	OPT	DIC		DW				
1		495	2005	✓	2005		x			x x x		x x x						
2		496	2005	✓			x			x x x		x x x						
3		497	2005	✓			x			x x x		x x x						
4		498	2005	✓			x			x x x		x x x						
5		499	2005	✓			x			x x x		x x x						
6		500	2005	✓			x											
7		501	2005	✓			x											
8		502	2005	✓			x											
9		503	2005	✓			x											
10		504	2005	✓			x											
11		505	2005	✓			x											
12		506	2005	✓			x							x x		Water for Sarah-Ann		
13		507	2005	✓			x											
14		508	2005	✓			x											
15		509	2005	✓			x							x		Deep water carboy A		
16		510	2005	✓			x							x		Deep water carboy A		
17		511	2005	✓			x							x		Deep water carboy A		
18		512	2005	✓			x											
19		513	2005	✓			x							x		Deep water carboy B		
20		514	2005	✓			x							x		Deep water carboy B		
21		515	2005	✓			x							x		Deep water carboy B		
22		516	2005	✓			x											
23		517	5	✓	5	x	x	x x	x x	x x								
24		518	0	✓	2						x x							

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

Bottom Depth:	4149	m
Transmisso Cleaned:	Y	N

Time	UTC	Local
Start	0608	1808
Bottom	0138	
End	0212	

Positional Information		
Lat:	50 ° 0.00	N
Lon:	143 ° 36.28	W

Start

Lat:	49 ° 59.88	N
Lon:	143 ° 36.35	W

Bottom

Lat:	49 ° 59.57	N
Lon:	143 ° 36.52	W

End

Extra comments:
Calibration cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P35 Event #: 84 Ship: Tully UTC Date (dd mmm/yyyy): 12 6 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC			OPT				
1		519	5	✓ 5	x	x	xx	xx							
2		520	0	✓ 1.6						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/mB

Bottom Depth: 4.50 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0600	2300
Bottom	0632	-
End	0704	-

Positional Information

Start	Lat: 50 ° 0.03	N
	Lon: 144 ° 18.69	W
Bottom	Lat: 50 ° 0.00	N
	Lon: 144 ° 18.67	W
End	Lat: 50 ° 0.02	N
	Lon: 144 ° 18.75	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P26 Event #: 85 Ship: Tully UTC Date (dd mmm yyyy): 12 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments				
			Target Pressure	Confirmed ✓	Pressure	OXY	Sal	Nut-F	Nut-C	DIC	Alk	pH		DOC	Gases					
						by/Am	Em	Jade	Jade	MP/TJ	MP/BJ	GC		Eric	R/L	CML	Don	Eric		
1	1	554	Bot-10	✓	4313	x		xx	x	x		x		x	xx	x	x	xx		
2	2	555	4000	✓	4000	x	x	xx	x	x	x	x		x	xx	x	x			
3	3	556	3500	✓	3500	x	xx	xxxx	xx	xx	x	x		x						
4	4	557	3000	✓	3000	x	x	xx	x	x	x	x		x	xx	x	x			
5	5	558	2500	✓	2500	xx	xx	xx	x	x	x	xxx		x						
6	6	559	2000	✓	2000	x	x	xx	x	x	x	x		x	xx	x	x			
7	7	560	1500	✓	1500	x	x	xx	x	x	x	x		x	xx	x	x			
8	8	561	1250	✓	1250	x	x	xx	x	x	x	x		x	xx	x	x			
9	9	562	1000	✓	1000	x	x	xx	x	x	x	x		x	xx	x	x			
10	10	563	800	✓	800	x		xx	x	x	x	x		x	xx	x	x			
11	11	564	600	✓	600	x		xx	x	x	x	x		x	xx	x	x			
12	12	565	400	✓	400	x		xx	x	x	x	x		x	xx	x	x			
13	13	566	300	✓	300	x		xx		x	x	x		x	xx	x	x			
14	14	567	250	✓	250	xx		xx		x	x	x		x						
15	15	568	200	✓	200	x		xx		x	x	x		x	xx	x	x			
16	16	569	175	✓	175	x		xxxx		x	x	x		x						
17	17	570	150	✓	150	x		xx		x	x	x		x	xx	x	x			
18	18	571	125	✓	125	x		xx		x	x	x		x						
19	19	572	100	✓	100	x		xx		x	x	x		x	xx	x	x			
20	20	573	75	✓	75	xx		xx		x	x	xxx		x						
21	21	574	50	✓	50	x		xx		x	x	x		x	xx	x	x			
22	22	575	25	✓	25	x		xx		x	x	x		x	xx	x	x			
23	23	576	10	✓	11	x		xx		x	x	x		x	xx	x	x			
24	24	577	5	✓	5	xx	x	xx		x	x	x		x						

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

Bottom Depth: 4751 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1709	1009
Bottom	1822	
End	1951	

Positional Information
 Start
 Lat: 50 ° 0 00 N
 Lon: 144 ° 59 91 W

Start

Bottom
 Lat: 50 ° 0.00 N
 Lon: 144 ° 59.98 W

Bottom

End
 Lat: 50 ° 0.00 N
 Lon: 144 ° 59.99 W

End

Extra comments:
 Deep cast
 Will also have loops for Sal x1,
 nut x1, gases x2 and OxyT x2

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P26 Event #: 860 Ship: Tully UTC Date (dd:mmm yyyy): 12 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target	Confirmed	Sal	Nut-fr	Fe	Fe							
			Pressure	✓ Pressure			filt	unfilt							
1		550	800 ✓		x	x	x x x x x	x x							
2		551	400 ✓				x x x x x	x x							
3		552	300 ✓				x x	x x							
4		553	200 ✓				x x 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): Dy

Bottom Depth: 4252 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2035	1335
Bottom	2106	
End	2138	

Positional Information

Start	Lat: 49 ° 59.99	N
	Lon: 144 ° 59.93	W

Bottom

Lat: 50 ° 0.00	N
Lon: 144 ° 59.98	W

End

Lat: 50 ° 0.00	N
Lon: 144 ° 59.98	W

Extra comments:
Go-flo 800

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P26 Event #: 87 Ship: Tully UTC Date (dd mmm yyyy): 12 6 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	DA			OPT	
1		578	300	✓ 300	x			x							
2		579	200	✓ 200	x	x	x	x							
3		580	150	✓ 150	x	x	x	x							
4		581	100	✓ 100	x			xx	x						
5		582	75	✓ 75	x			x	x						
6		583	60	✓ 60				x	xx	xx					Fluo
7		584	50	✓ 50	x			x	xx	xx					Fluo
8		585	40	✓ 40	x			x	xx	xx					Fluo
9		586	30	✓ 30	x	x	x	x	xx	xx					Fluo
10		587	25	✓ 25	x			x	x						
11		588	20	✓ 20	xx	xx	xx	x	x						
12		589	15	✓ 15	x			x	xx	xx					Fluo
13		590	10	✓ 10	x			x	x						
14		591	5	✓ 5	x	x	x	x	xx	xx	x				Fluo
15		592	0	✓ 2	x	x	x	x	x						
16		593	300	✓ 300									xx		
17		594	100	✓ 100									xx		
18		595	50	✓ 50									xx		
19		596	25	✓ 25									xx		
20		597	10	✓ 10									xx		
21		598	0	✓ 2									xx		
22															
23															
24															

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): 02Bottom Depth: 4257 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	2157	1457
Bottom	2207	
End	2223	

Positional Information
Start
Lat: 50 ° 0.00 N
Lon: 144 ° 59.99 WBottom
Lat: 50 ° 0.01 N
Lon: 144 ° 59.99 WEnd
Lat: 50 ° 0.00 N
Lon: 144 ° 59.99 WExtra comments:
DMS cast - OUT-OF-ORDER
Plus loops for Chl x2
16; 1 - 4; 17; 5; 6; 7; 18; 8; 9; 10;
19; 11; 12; 13; 20; 14; 15; 21

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P26 Event #: 89 Ship: Tully UTC Date (dd mmm yyyy): 12 6 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments									
			Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt														
1		546	150		x	x	xxx	x														
2		547	100				xxx	x														
3		548	75				xxx	x														
4		549	50				xxx	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): DY

Bottom Depth: 4255 m
Transmisso Cleaned: ☒ / N

Time	UTC	Local
Start	2305	1605
Bottom	2321	
End	2338	

Positional Information

Start	Lat: 50° 0.00	N
	Lon: 144° 59.98	W

▼

Bottom	Lat: 50° 0.00	N
	Lon: 144° 59.98	W

▼

End	Lat: 50° 0.01	N
	Lon: 144° 59.98	W

Extra comments:
Go-flo 150

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P26 Event #: 90 Ship: Tully UTC Date (dd:mmm:yyyy): 13 June 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓	Pressure	Sal	Nut-fr	Fe filt	Fe unfilt	Cu sp filt								
1		542	40			x	x	x	x	xxx								
2		543	25					x	x	xxx								
3		544	10					x	x	xxx								
4		545	5					x	x	xxx								
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: 4250 m
 Transmisso Cleaned: Y / N *NA*

Time	UTC	Local
Start	0143	
Bottom	0154	
End	0205	

Positional Information
 Start
 Lat: 50° 00.00 N
 Lon: 144° 59.99 W

Bottom
 Lat: 50° 00.00 N
 Lon: 144° 59.98 W

End
 Lat: 50° 00.00 N
 Lon: 144° 59.99 W

Extra comments:
 Go-flo 40

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P26 Event #: 91 Ship: Tully UTC Date (dd mmm yyyy): 13 6 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments
			Target Pressure	Confirmed Pressure	UBC													
1		599	2000	✓	2000		x											
2		600	2000	✓														
3		601	2000	✓														
4		602	2000	✓														
5		603	1000	✓	1000		x											
6		604	1000	✓														
7		605	1000	✓														
8		606	1000	✓														
9		607	500	✓	500		x											
10		608	500	✓														
11		609	500	✓														
12		610	500	✓														
13		611	10	✓	10		x											
14		612	10	✓														
15		613	10	✓														
16		614	10	✓														
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 4289 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0219	1919
Bottom	0300	
End	0333	

Positional Information

Lat:	50 ° 0.00	N
Lon:	144 ° 59.99	W

Start

Lat:	50 ° 0.00	N
Lon:	144 ° 59.99	W

Bottom

Lat:	50 ° 0.00	N
Lon:	144 ° 59.99	W

End

Extra comments:
UBC cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P26 Event #: 97 Ship: Tully UTC Date (dd mmm yyyy): 13 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments		
			Target Pressure	Confirmed ✓ Pressure	17O	ONAr	Oxy	NO3 ind	NH4 ind	CHL	Nut-Fr	NH4	Sal	C14	UVic	bugs		Phyto	
1	5	524	O2 max	✓ 50.4	xx		xx							x					
2	12	525	5 m	✓ 4.8	xx	xx	xx		x										
3																			
4	1	526	250	✓ 251												x			
5	2	527	150	✓ 150												x			
6	6	528	50	✓ 49.8												x			
7	8	529	20	✓ 20.0												x			
8	10	530	10	✓ 10												x			
9	13	531	5	✓ 5.1												x		x x x	
10																			
11	3	532	100	✓ 100													x		
12	7	533	50	✓ 50.2													x		
13	14	534	5	✓ 5.0													x		
14																			
15																			
16																			
17	17	535	100%	✓ 17.5 sl					xxxxx		x	x							
18	18	536	100%	✓ 17.5 sl						xxxxx			xx						
19	15	537	55%	✓ 2.6		xx	xx		x	x	x	x	xx	x					
20	11	538	30%	✓ 6.5					x	x	x	x	xxxx	x					
21	9	539	15%	✓ 14.5					x	x	x	x	xx	x					
22	4	540	1%	✓ 5.6					x	x	x	x	xx	x					
23	16	541	55%	✓ 2.5											x				
24																			

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

Bottom Depth: 4252 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	11 35	04 35
Bottom	11 40	
End	11 59	

Positional Information
Start
Lat: 49 ° 59 99 N
Lon: 145 ° 0 21 W

Start

Bottom

Bottom
Lat: 49 ° 59 97 N
Lon: 145 ° 0 21 W

End

End
Lat: 49 ° 59 94 N
Lon: 145 ° 0 16 W

Extra comments:
Productivity cast
4, 5, 11, 22, 16, 12, 7
21, 8, 26, 24, 13, 19, 25, 17, 18

Water Properties Group

Sampling Log

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

Cruise ID:

2017-06

Station:

P26

Event #: 96

Ship: Tully

UTC Date (dd mmm yyyy): 13 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC	Gases	pH	OPT				
1	1	618	500	✓ 500						xxxx					
2	2	619	300	✓ 300						xxxx					
3	3	620	200	✓ 200						xxxx					
4	4	621	150	✓ 150						xxxx					
5	5	622	100	✓ 100						xxxx					
6	6	623	50	✓ 50						xxxx					
7															
8															
9															
10															
11															
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13															
14															
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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	15 59	08 59
Bottom	16 07	
End	16 21	

Positional Information
Start
Lat: 50 ° 0 01 N
Lon: 145 ° 0 28 W

Bottom
Lat: 50 ° 0 03 N
Lon: 145 ° 0 30 W

End
Lat: 49 ° 59 96 N
Lon: 145 ° 0 31 W

Extra comments:
pH experiment

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: PA-011 Event #: 100 Ship: Tully UTC Date (dd mmm yyyy): 14 6 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	ONS	Oxy									
					UW	UW									
1		521	10	✓ 10	xx	xx									
2		522	5	✓ 5	xx	xx									
3		523	0	✓ 1.5	xx	xx									
4															
5															
6															
7															
8															
9															
10															
11															
12															
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14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): DY

Bottom Depth: 4220 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0141	1841
Bottom	0150	
End	0159	

Positional Information

Start

Lat: 50 ° 8.05 N

Lon: 144 ° 49.87 W

Bottom

Lat: 50 ° 8.05 N

Lon: 144 ° 49.86 W

End

Lat: 50 ° 8.05 N

Lon: 144 ° 49.86 W

Extra comments:

Calibration cast post-deployment

CTD to 500 m

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: PA-011 Event #: 103 Ship: Tully UTC Date (dd mmm yyyy): 15 6 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed ✓ Pressure	ONAr	Oxy										
					UW	UW										
1		521	10	✓ 10	x x	x x										
2		522	5	✓ 5	x x	x x										
3		523	0	✓ 2	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): DY

Bottom Depth: 4220 m
Transmisso Cleaned: ☒ I N

Time	UTC	Local
Start	0204	1904
Bottom	0212	
End	0224	

Positional Information

Start	Lat: 50 ° 8.13	N
	Lon: 144 ° 50.00	W

Bottom

Lat: 50 ° 8.12	N
Lon: 144 ° 50.02	W

End

Lat: 50 ° 8.06	N
Lon: 144 ° 49.96	W

Extra comments:
Calibration cast post-deployment
CTD to 500 m

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: PA-010 Event #: 104 Ship: Tully UTC Date (dd mmm/yyyy): 15 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	ONAr	Oxy									
					UW	UW									
1	1	615	10	✓ 10	xx	xx									
2	2	616	5	✓ 5	xx	xx									
3	3	617	0	✓ 0	xx	xx									
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: 4220 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1234	0834
Bottom	1242	
End	1253	

Positional Information
Start
Lat: 50 ° 2 37 N
Lon: 144 ° 53 57 W

Bottom
Lat: 50 ° 2 37 N
Lon: 144 ° 53 59 W

End
Lat: 50 ° 2.34 N
Lon: 144 ° 53.64 W

Extra comments:
Calibration cast pre-recovery
CTD to 500 m

Niskins 4-24 closed at surface
just to close, no
sample taken

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: P4 Event #: 115 Ship: Tully UTC Date (dd mmm yyyy): 18 Jun 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt							
1		624	40		x	x	x	x							
2		625	25				x	x							
3		626	10				x	x							
4		627	5				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? Go-flo
Watchkeeper(s): MB

Bottom Depth: 136 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1825	1125
Bottom	1837	
End	1846	

Positional Information
Start
Lat: 48 ° 39 06 N
Lon: 126 ° 40 24 W

Bottom
Lat: 48 ° 39 01 N
Lon: 126 ° 40 24 W

End
Lat: 48 ° 39 04 N
Lon: 126 ° 40 23 W

Extra comments:
Go-flo 40

Water Properties Group

Sampling Log

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

Cruise ID: 2017-06 Station: JF2 Event #: 121 Ship: Tully UTC Date (dd mmm yyyy): 19 6 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	RF										
1		628	160	✓ 161	x										
2		629	160	✓	x										
3		630	160	✓	x										
4		631	160	✓	x										
5		632	160	✓	x										
6		633	160	✓	x										
7		634	160	✓	x										
8		635	160	✓	x										
9		636	160	✓	x										
10		637	160	✓	x										
11		638	160	✓	x										
12		639	160	✓	x										
13		640	20	✓ 20	x										
14		641	20	✓	x										
15		642	20	✓	x										
16		643	20	✓	x										
17		644	20	✓	x										
18		645	20	✓	x										
19		646	20	✓	x										
20		647	20	✓	x										Broken bungee
21		648	20	✓	x										
22		649	20	✓	x										
23		650	20	✓	x										
24		651	20	✓	x										

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

Bottom Depth: 174 m
Transmisso Cleaned: (X) N

Time	UTC	Local
Start	0550	2250
Bottom	0553	
End	0559	

Positional Information

Lat:	48 ° 19.28	N
Lon:	123 ° 59.20	W

Start

Bottom

Lat: 48 ° 19.30 N
Lon: 123 ° 59.22 W

End

Lat: 48 ° 19.31 N
Lon: 123 ° 59.13 W

Extra comments:
Water for Roger François