

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

Lat: 48 ° 36.89	N
Lon: 123 ° 14.70	W

Lat: 48 ° 36.80	N
Lon: 123 ° 14.78	W

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 RS gases	OPT CC/CC						
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

Start
Lat: 48 ° 18 02 N
Lon: 124 ° 0 24 W

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						
					MP/KT	DT		AT	RNGV	MR	GL	PS/LP						
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

Lat:	48 ° 36.05	N
Lon:	125 ° 59.84	W

▼

Lat:	48 ° 36.05	N
Lon:	125 ° 59.83	W

▼

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	DMSP	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

Lat:	48 ° 35.91	N
Lon:	125 ° 59.55	W

End

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	2057
Bottom	0414	
End	0454	

Positional Information		
Start	Lat: 48 ° 39.15	N
	Lon: 126 ° 39.97	W

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

	UTC	Local
Time		
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" W

Bottom
Lat: 48° 38' 93" N
Lon: 126° 39' 94" W

End
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	UBC	OPT						
			Pressure	✓ Pressure													
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

Lat:	48 ° 41 53	N
Lon:	127 ° 10 06	W

▼

Lat:	48 ° 41 66	N
Lon:	127 ° 9 81	W

▼

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): 06 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target	Confirmed	Nut-F	Sal	Chl	HPLC	Gases	UBC	OPT							
			Pressure	√ Pressure														
1		152	5		x	x	xx	xx	xx									
2		153	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): DY

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

Time	UTC	Local
Start	2011	1311
Bottom	2044	
End	2116	

Positional Information

Lat:	48° 44.64	N
Lon:	127° 39.94	W

▼

Lat:	48° 44.62	N
Lon:	127° 39.98	W

▼

Lat:	48° 44.59	N
Lon:	127° 40.00	W

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	Pressure	Nut-F	Sal	Chl	HPLC	Gases	UBC	OPT							
				✓															
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

Team: ...

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

Start Lon: 128 ° 9.94 W

Start

Bottom Lat: 48 ° 46.58 N

Bottom Lon: 128 ° 10.00 W

Bottom

End Lat: 48 ° 46.50 N

End Lon: 128 ° 10.07 W

End

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	Oxy	Sal	Nut Fr	Nut C	Chl	HPLC	DOC	UBC	UVic	DA					
				✓ Pressure								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																		
14																		
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
Transmisso 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

Start	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	6C			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

Lat: 48° 58.24 N
Lon: 130° 40.09 W

Bottom

Lat: 48° 58.24 N
Lon: 130° 40.09 W

End

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

Water Properties Group

Sampling Log

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

Cruise ID:

2017-06

Station:

P12

Event #:

37

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	
1		241	150		x	x	x	x	
2		242	100				x x	x x	
3		243	75				x	x	
4		244	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):

Bottom Depth:	158	m
Transmisso Cleaned:	Y / N	

Time	UTC	Local
Start	01:30	18:30
Bottom	01:36	18:36
End	01:47	18:47

Positional Information		
Start	Lat: 48° 58.24	N
	Lon: 130° 40.09	W

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

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															

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

Lat:	48 ° 58.28	N
Lon:	130 ° 40.06	W

▼

Lat:	48 ° 58.27	N
Lon:	130 ° 40.04	W

▼

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	170	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	xxx	
10																		
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										x				
24																		

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

Start

Bottom

End

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																			
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: 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

▼

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	Fe							
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															

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
 Start
 Lat: 49 ° 17 05 N
 Lon: 134 ° 39 94 W

Bottom
 Lat: 49 ° 17 07 N
 Lon: 134 ° 40 00 W

End
 Lat: 49 ° 17 08 N
 Lon: 134 ° 40 00 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:

P16

Event #:

50

Ship:

Tully

UTC Date (dd mmm yyyy):

9 JUN 2017

Niskin #

Firing #

Sample #

Rosette Operation
Target Pressure
Confirmed
Pressure

Samples Taken / Sampler's Initials

Sal Nut-fr Fe Fe
filt unfilt

Comments

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

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												x		
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																		332
11																		CHL
12																		P16
13																		100%
14																		2017-06
15																		Bot 18
16																		
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										x				
24																		

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 WBottom
Lat: 49 ° 17 03 N
Lon: 134 ° 40 01 WEnd
Lat: 49 ° 16 96 N
Lon: 134 ° 39 97 WExtra 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 filt	Fe unfilt														
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	DMSP	DMSP	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 Pressure	Nut-F	Sal	Chl	HPLC	Gases		OPT								
				✓					UBC										
1		364	5	✓	S	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: 396.7 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	Confirmed	DIC		SAL								
			Pressure	✓ Pressure											
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 ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt								
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		
Start	Lat: 49° 34.93	N
	Lon: 138° 40.78	W

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

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

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

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	x x	x x	x x								
2		477	0									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: 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

Transmissio 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 WBottom
Lat: 49 ° 50.33 N
Lon: 142 ° 39.98 WEnd
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