

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: Haro 59 Event #: 2 Ship: Tully UTC Date (dd/mmm/yyyy): 26/6/2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	DIC	Oxy	Nut-fr	Sal	Paw-16									
1	1	1	Bot-10	✓	226	x	x	x		x								
2	2	2	200	✓		x x	x	x		x								
3	3	3	175	✓		x	x	x		x								
4	4	4	150	✓		x	x	x		x								
5	5	5	125	✓		x	x x	x		x								
6	6	6	100	✓		x	x	x		x								
7	7	7	80	✓		x x	x	x x		x								
8	8	8	60	✓		x	x	x		x								
9	9	9	50	✓		x	x	x		x								
10	10	10	40	✓		x	x	x		x								
11	11	11	30	✓		x	x	x		x								
12	12	12	20	✓		x	x	x		x								
13	13	13	10	✓		x x	x	x		x								
14	14	14	5	✓		x	x x	x		x								
15	15	15	0	✓		x	x	x		x								
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
 Watchkeeper(s): 74 60

Bottom Depth: 235 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	413	2113
Bottom	418	
End	434	

Positional Information

Lat:	48 ° 36.81	N
Lon:	123 ° 14.79	W

▼

Lat:	48 ° 36.81	N
Lon:	123 ° 14.79	W

▼

Lat:	48 ° 36.82	N
Lon:	123 ° 14.87	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2016-06

Station:

JF2

Event #:

5

Ship:

Tully

UTC Date (dd|mmm|yyyy):

6

6

16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓	Pressure	DIC	Oxy	Nut-fr	Sal	Paw-16	Chl	HPLC	U BC	GAS3				
1	1	16	Bot-105	✓	185	x	x	x		x								
2	2	17	150	✓		xx	x	x		x								
3	3	18	125	✓		x	x	x		x								
4	4	19	100	✓		x	x	x		x								
5	5	20	80	✓		x	xx	x		x								
6	6	21	60	✓		xx	x	x		x								
7	7	22	50	✓		x	x	xx		x								
8	8	23	40	✓		x	x	x		x								
9	9	24	30	✓		x	x	x		x								
10	10	25	20	✓		xx	x	x		x								
11	11	26	10	✓		x	x	x		x			xx					
12	12	27	5	✓		x	x	x		x	xx	xx					FLUO: 8.0 µg	
13	13	28	0	✓		x	x	x		x								
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:

☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): H.M.

Bottom Depth: 183 m

Transmisso Cleaned: ☒ Y ☐ N

Time UTC Local

Start 0950 0250

Bottom 0953

End 1008 0308

Positional Information

Lat: 48 ° 17 .96 N

Lon: 123 ° 59 .93 W

Lat: 48 ° 17 .95 N

Lon: 123 ° 59 .91 W

Lat: 48 ° 17 .94 N

Lon: 123 ° 59 .94 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P1 Event #: 9 Ship: Tully UTC Date (dd mmm yyyy): 6 6 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	DIC	Oxy	pH	Paw-16	UBC						
1	1	29	Bot-10	✓	108	x				xx	xx	xxx	x						
2	2	30	30	✓		x				x	x	x	x						
3	3	31	5			x	x	xx	xx	x	x	x	x		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): H.M.Bottom Depth: 117 m
Transmissio Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1030	1139
Bottom	1841	
End	1846	

Positional Information
Start
Lat: 48 ° 34.51 N
Lon: 125 ° 30.01 WBottom
Lat: 48 ° 34.53 N
Lon: 125 ° 30.03 WEnd
Lat: 48 ° 34.56 N
Lon: 125 ° 30.04 WExtra 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:

2016-06

Station:

P2

Event #:

10

Ship:

Tully

UTC Date (dd mmm yyyy):

6 6 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	UVic	Bugs			
1		32	100	✓ 160								x			
2		33	100	✓ 100	x	x	x	x	x		x	8.3			
3		34	75	✓ 75	x			x	x		x	8.7			
4		35	50	✓ 49	x			x	x		x	9.1			
5		36	50	✓ 49								x			
6		37	40	✓ 40	x			x	x						Fluo 1.4
7		38	30	✓ 30	x			x	xx	xx					Fluo 1.4
8		39	25	✓ 25	x			x	xx	xx					Fluo 1.4 → 1.7
9		40	20	✓ 20	xx	xx	xx	x	xx	xx	x	13.2			Fluo 0.5
10		41	15	✓ 15	x			xx	xx	xx					Fluo 0.4
11		42	10	✓ 10	x			x	xx	xx	x	13.5			Fluo 0.4
12		43	5	✓ 5	x	x	x	x	xx	xx	x	13.4			
13		44	5	✓ 5								x			
14		45	0	✓ 3	x	x	x	x	x						
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

DY

Bottom Depth: 117 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2149	1449
Bottom	2153	
End	2206	

Positional Information

Lat:	48 ° 36.07	N
Lon:	126 ° 0.03	W

Lat:	48 ° 36.03	N
Lon:	126 ° 0.03	W

Lat:	48 ° 36.04	N
Lon:	126 ° 0.02	W

Extra comments:

DMS cast

Will also have loops for Chl x2

43 B
CHL
P2
5 m
2016-06
Bot 12FROZEN VIAL FELL ON
DECK, FILTER ON DECK
TOO.

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06

Station: P2

Event #: 12

Ship: Tully

UTC Date (dd mmm yyyy): 6 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							RT UBC gases	Paw16					Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut-F	Nut-C	Sal	DIC	pH								
1		46	Bot-10	✓ 109	x x	x			x	x			x					
2		47	100	✓ 100	x	x			x	x			x					
3		48	75	✓ 76	x	x			x x	x			x					
4		49	75	✓ 76	x	x			x	x								
5		50	50	✓ 50	x	x			x	x x x			x					
6		51	25	✓ 25	x	x x			x	x			x					
7		52	10	✓ 10	x	x			x	x		x x	x					
8		53	5	✓ 5	x	x		x	x	x			x					
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 117 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2252	1552
Bottom	2256	
End	2306	

Positional Information
Start
Lat: 48 ° 36.04 N
Lon: 126 ° 0.05 W

Bottom
Lat: 48 ° 36.05 N
Lon: 126 ° 0.03 W

End
Lat: 48 ° 36.07 N
Lon: 126 ° 0.04 W

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

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P3 Event #: 13 Ship: Tully UTC Date (dd|mmm|yyyy): 07|6|2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target	Confirmed	Nut-F	Sal	Chl	HPLC	Gases	Paw16					
			Pressure	✓ Pressure					UBC						
1		54	Bot-10	✓ 814						x					
2		55	10	✓ 11					xx						
3		56	5	✓ 5	x	x	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): DY

Bottom Depth: 814 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0111	1811
Bottom		
End	0147	

Positional Information

Lat:	48 ° 37.45	N
Lon:	126 ° 19.91	W

▼

Lat:	48 ° 37.46	N
Lon:	126 ° 19.92	W

▼

Lat:	48 ° 37.45	N
Lon:	126 ° 19.94	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P4 Event #: 14 Ship: Tully UTC Date (dd|mmm|yyyy): 7 | 6 | 2016

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed		Oxy	Nut-F	Nut-C	Sal	DIC	pH		DNA	gases	SAGs	Paw16				
				✓	Pressure															
						DY	JS	JS	DY	PM/WH	GC					WH				
1		57	Bot-10	✓	1320	x	x	x		x	x		x	xx	x	x				
2		58	1250	✓	1250	x	x	x	x	x	x		x	xx	x	x				
3		59	1250	✓	1250	xx	x	x	xx	xx	x									
4		60	1000	✓	1000	x	x	x	xx	x	x		x	xx	x	x				
5		61	800	✓	799	x	x	x	x	x	x		x	xx	x	x				
6		62	600	✓	601	x	xx	xx		x	x		x	xx	x	x				
7		63	400	✓	400	x	x	x		x	x		x	xx	x	x				
8		64	300	✓	299	x	x			x	x		x	xx	x	x				
9		65	250	✓	248	x	x			x	xxx					x				
10		66	200	✓	201	x	x			x	x		x	xx	x	x				
11		67	175	✓	174	x	x			x	x					x				
12		68	150	✓	151	x	x			x	x		x	xx	x	x				
13		69	125	✓	125	x	xx			x	x					x				
14		70	100	✓	100	x	x			x	x		x	xx	x	x				
15		71	75	✓	75	xx	x			x	x					x				
16		72	50	✓	49	x	x			x	x		x	xx	x	x				
17		73	25	✓	25	x	x			x	x		x	xx	x	x				
18		74	10	✓	10	x	x			x	x		x	xx	x	x				
19		75	5	✓	5	x	x		x	x	xxx					x				
20																				
21																				
22																				
23																				
24																				

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

Bottom Depth: 1314 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0404	2104
Bottom	0429	
End	0510	

Positional Information

Lat:	48 ° 38.98	N
Lon:	126 ° 39.96	W

Start

▼

Lat:	48 ° 39.00	N
Lon:	126 ° 39.95	W

Bottom

▼

Lat:	48 ° 38.99	N
Lon:	126 ° 39.89	W

End

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

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P4 Event #: 15 Ship: Tully UTC Date (dd|mmm|yyyy): 07 | JUN | 2016

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed √ Pressure		Sal	Nut-fr	Fe filt	Fe unfilt									
1		76	35					x x	x x									
2		77	25					x	x									
3		78	10					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): TM PUMP

Bottom Depth: _____ m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0545	
Bottom		
End	0800	

Positional Information

Lat:	48 ° 38.98	N
Lon:	126 ° 10.03	W

Start

Bottom

Lat:	°	N
Lon:	°	W

End

Lat:	48 ° 38.98	N
Lon:	126 ° 39.82	W

Extra comments:
TM pumping

Cruise ID: 2016-06 Station: P4 Event #: 16 Ship: Tully UTC Date (dd|mmm|yyyy): 7 | 6 | 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure		UBC											
1		79	Bot-10	✓	1322		x										
2		80	Bot-10	✓													
3		81	Bot-10	✓													
4		82	Bot-10	✓													
5		83	1000	✓			x										
6		84	1000	✓													
7		85	1000	✓													
8		86	1000	✓													
9		87	500	✓			x										
10		88	500	✓													
11		89	500	✓													
12		90	500	✓													
13		91	10	✓			x										
14		92	10	✓													
15		93	10	✓													
16		94	10	✓													
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 1320 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0819	0119
Bottom	0841	
End	0907	0207

Positional Information

Lat:	48 °	38.96	N
Lon:	126 °	40.01	W

Start

Lat:	48 °	38.97	N
Lon:	126 °	39.93	W

Bottom

Lat:	48 °	39.00	N
Lon:	126 °	39.94	W

End

Extra comments:
Jade's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P4 Event #: 19 Ship: Tully UTC Date (dd|mmm|yyyy): 7 | 6 | 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments		
			Target Pressure	Confirmed Pressure	17O	ONAr	Oxy	18O inc	NO3 inc	NH4 inc	CHL	Nut-Fr	NH4	Sal	C14	UVic	bugs		
1		95	O2 max	✓ 35	xx		xx							x					
2		96	5 m	✓	xx	xx	xx		x										
3																			
4		97	250	✓												x			
5		98	150	✓												x			
6		99	50	✓												x			
7		100	20	✓												x			
8		101	10	✓												x			
9		102	5	✓												x			
10																			
11		103	100	✓													x		
12		104	50	✓													x		
13		105	5	✓													x		
14																			
15																			
16																			
17		106	100%	✓ 0			xx	xxx	xxxxx		x	x							
18		107	100%	✓ 0						xxxxx			xx						
19		108	55%	✓ 0		xx	xx	xxx	x	x	x	x	xx	x					
20		109	30%	✓ 5			xx	xxx	x	x	x	x	xxxx	x					
21		110	15%	✓ 7			xx	xxx	x	x	x	x	xx	x					
22		111	1%	✓ 24			xx	xxx	x	x	x	x	xx	x					
23		112	55%	✓ 0											x				
24																			

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

Bottom Depth: 1320 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	11 12	04 12
Bottom	11 17	
End	11 39	04 39

Positional Information
Start
Lat: 48 ° 38 97 N
Lon: 126 ° 39 95 W

Bottom
Lat: 48 ° 38 98 N
Lon: 126 ° 39 93 W

End
Lat: 48 ° 38 97 N
Lon: 126 ° 39 91 W

Extra comments:
4, 5, 11, 12, 6, 1, 22, 7
8, 21, 20, 2, 9, 13,
17, 18, 19, 23

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P4 Event #: 20 Ship: Tully UTC Date (dd|mmm|yyyy): 7 | 6 | 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target	Confirmed	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	Phyto							
			Pressure	✓ Pressure	HR	t PA	d PA	TV	BYAV	TV/HR	MR							
1		113	300	✓		x			x									top valve
2		114	200	✓		x	x	x	x									
3		115	175	✓		x	x	x	x									
4		116	100	✓		x	x	x	xx	x								
5		117	75	✓		x			x	x								
6		118	60	✓	-				x	xx	xx							Fluo 0.5 ug
7		119	50	✓	-	x			x	xx	xx							Fluo 0.5 ug
8		120	40	✓	-	x			x	xx	xx							Fluo 0.65 ug
9		121	30	✓	-	x			x	xx	xx							Fluo 0.60 ug
10		122	25	✓		x			x	x								
11		123	20	✓		xx	xx	xx	x	x								
12		124	15	✓	-	x			x	xx	xx							Fluo ~1.4
13		125	10	✓		x			x	x								
14		126	5	✓	-	x	x	x	x	xx	xx	xxx						Fluo ~1.4
15		127	0	✓	3.0	x	x	x	x	x								
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 1305 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1316	0616
Bottom	1321	
End	1339	

Positional Information
 Lat: 48 ° 39.05 N
 Lon: 126 ° 39.90 W

Lat: 48 ° 39.04 N
 Lon: 126 ° 39.91 W

Lat: 48 ° 39.00 N
 Lon: 126 ° 39.88 W

Extra comments:
 DMS cast
 Will also have loops for Chl.x2
 NOT ENOUGH BOTTLES

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P5 Event #: 21 Ship: Tully UTC Date (dd|mmm|yyyy): 7 | 6 | 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒	Pressure	Nut-F	Sal	Chl	HPLC		UBC gases	Paw-16			
1	1	128	2005	☒			x					x			
2	2	129	10	☒							xx				
3	3	130	5	☒		x	x	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): H. M. / GAC

Bottom Depth: 2009 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1701	1001
Bottom	1735	
End	1809	1109

Positional Information

Start	Lat: 49 ° 41 . 44 N
	Lon: 127 ° 10 . 00 W

Start

Bottom

End

Bottom	Lat: 48 ° 41 . 45 N
	Lon: 127 ° 09 . 93 W

End	Lat: 48 ° 41 . 42 N
	Lon: 127 ° 09 . 90 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: 2016-06 Station: P6 Event #: 22 Ship: Tully UTC Date (dd|mmm|yyyy): 7 | 6 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	UBC	Paw-16	gases	Waterkeeper(s)	other					
1	1	131	2005	✓ 2005		x					x							
2	2	132	10	✓ 10						xx								
3	3	133	5	✓ 5	x	x	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): DY

Bottom Depth: 2545 m
 Transmisso Cleaned: Y / N

	UTC	Local
Start	2136	1436
Bottom	2211	
End	2249	

Positional Information

Start	Lat: 48° 44.56	N
	Lon: 127° 39.97	W

Bottom

Lat: 48° 44.58	N
Lon: 127° 39.99	W

End

Lat: 48° 44.58	N
Lon: 127° 40.01	W

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

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06

Station: P7

Event #: 23

Ship: Tully

UTC Date (dd|mmm|yyyy): 8 | 6 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC					Paw-16		
1	1	134	2005	✓ 2006		x							x		
2	2	135	5	✓ 5	x	x	xx	xx							Accidental trip @ 543 m
3	3	135													
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: 2503 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0146	1846
Bottom	0223	
End	0300	

Positional Information

Lat:	48 ° 46.70	N
Lon:	128 ° 9.99	W

Bottom

Lat:	48 ° 46.60	N
Lon:	128 ° 9.97	W

End

Lat:	48 ° 46.64	N
Lon:	128 ° 9.90	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P8

Event #: 25

Ship: Tully

UTC Date (dd|mmm|yyyy): 8 | 6 | 2016

Niskin #		Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials ..										Ship: Tully				UTC Date (dd/r	
				Target Pressure	Confirmed Pressure	Oxy	Sal	Nut Fr	Nut C	Chl	HPLC			UBC gases	UVic	Paw16		Comments			
1			136	2000	✓ 2000	x	xx	x	x												
2			137	1500	✓	x	x	x	x					xx		x		SUSPECT - T=13.1			
3			138	1250	✓	x	x	xx	xx					xx		x		OPENED @ SURFACE OR			
4			139	1000	✓	x	xx	x	x					xx		x		HOOKED UP IN OFFSET			
5			140	800	✓	x	x	x	x					xx		x					
6			141	600	✓	xx		x	x					xx		x					
7			142	400	✓	x		x	x					xx		x					
8			143	300	✓	x		x						xx		x					
9			144	250	✓	x		x						xx		x					
10			145	200	✓	x		x							x	x					
11			146	175	✓	x		x						xx		x					
12			147	150	✓	x		xx								x					
13			148	125	✓	xx		x						xx	x	x					
14			149	100	✓	x		x		x						x					
15			150	75	✓	x		x		x				xx		x					
16			151	60	✓	x		x		x						x					
17			152	50	✓	x		x		xx	xx					x					
18			153	40	✓	x		x		xx	xx			xx	x	x					
19			154	30	✓	x		x		xx	xx					x					
20			155	25	✓	x		x		x						x					
21			156	20	✓	xx		x		x				xx		x					
22			157	15	✓	x		x		xx	xx				x	x					
23			158	10	✓	x		x		x						x					
24			159	5	✓	x	x	x		xx	xx			xx	x	x					

Version: 25 Nov 2011

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

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

Bottom Depth: 2576 m
Transmisso Cleaned: Y/N

Time	UTC	Local
Start	0616	2316
Bottom	0652	
End	0749	0049

Positional Information

Start
Lat: 48° 49.01 N
Lon: 128° 39.97 W

Bottom
Lat: 48° 49.00 N
Lon: 128° 39.97 W

End
Lat: 48° 48.97 N
Lon: 128° 39.95 W

Extra comments:
Will have loops for 2x Oxy,
2x Chl and 1x Sal.

Water Properties Group

Sampling Log

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

Cruise ID:

2016-06

Station:

P9

Event #:

26

Ship:

Tully

UTC Date (dd/mmm/yyyy):

8 / 6 / 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC						Paw-16	
1	1	160	2005	✓		x								x	
2	2	161	5	✓	x	x	xx	xx							
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 2342 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1027	0327
Bottom	1057	
End	1131	

Positional Information
 Start
 Lat: 48 ° 51 . 44 N
 Lon: 129 ° 09 . 94 W

Bottom
 Lat: 48 ° 51 . 38 N
 Lon: 129 ° 09 . 92 W

End
 Lat: 48 ° 51 . 36 N
 Lon: 129 ° 10 . 02 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P10 Event #: 29 Ship: Tully UTC Date (dd|mmm|yyyy): 08 | JUN | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC		UBC gases	Paw-16					
1	1	162	2005	☒ 2006		x					x					
2	2	163	10	☒ 10						x x						
3	3	164	5	☒ 5	x	x	x x	x x								
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 26.40 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1405	0705
Bottom	1442	
End	1518	

Positional Information
Start
Lat: 48° 53.59 N
Lon: 129° 40.12 W

Bottom
Lat: 48° 53.70 N
Lon: 129° 39.82 W

End
Lat: 48° 53.62 N
Lon: 129° 40.01 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P11 Event #: 31 Ship: Tully UTC Date (dd|mmm|yyyy): 08 | Jun | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC					Paw-16		
1	1	165	2005	☒		x							x		
2	2	166	5	☒	x	x	xx	xx							
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): GC/H.N.V.

Bottom Depth: 2751 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1750	1050
Bottom	1824	
End	1858	

Positional Information
Start
Lat: 48 ° 56.00 N
Lon: 130 ° 09.97 W

Bottom
Lat: 48 ° 56.05 N
Lon: 130 ° 10.00 W

End
Lat: 48 ° 56.07 N
Lon: 130 ° 9.95 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P12 Event #: 32 Ship: Tully UTC Date (dd|mmm|yyyy): 08 JUN 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓	Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	Phyto						
						MR	t MA	d MA	AT	MR/DR	AT/HV							
1		167	300			x			x									
2		168	200			x	x	x	x									
3		169	175			x	x	x	x									
4		170	100			x	x	x	x	x								
5		171	75			x			x	x								
6		172	60						x	xx	xx						Fluo	
7		173	50			x			x	xx	xx						Fluo	
8		174	40			x			x	xx	xx						Fluo	
9		175	30			x			x	xx	xx						Fluo	
10		176	25			x			xx	x								
11		177	20			xx	xx	xx	x	x								
12		178	15			x			x	xx	xx						Fluo	
13		179	10			x			x	x								
14		180	5			x	x	x	x	xx	xx						Fluo	
15		181	0			x	x	x	x	x								
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 3236 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2126	1426
Bottom	2135	
End	2154	

Positional Information

Lat:	48° 58 18	N
Lon:	130° 40 03	W

Start

▼

Lat:	48° 58 24	N
Lon:	130° 40 00	W

Bottom

End

▼

Lat:	48° 58 22	N
Lon:	130° 39 99	W

Extra comments:
DMS cast
Will also have loops for Chl x2

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06

Station: P12

Event #: 32

Ship: Tully

UTC Date (dd|mmm|yyyy): 8 | 6 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ☒ Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	Phyto						
					MR	MP	d MP	AT	MP/DR	PT/MV							
1		167	300	✓ 300	x			x									
2		168	200	✓ 200	x	x	x	x									
3		169	175	✓ 175	x	x	x	x									
4		170	100	✓ 100	x	x	x	x	x								
5		171	75	✓ 75	x			x	x								
6		172	60	✓ 60				x	xx	xx							Fluo
7		173	50	✓ 50	x			x	xx	xx							Fluo
8		174	40	✓ 40	x			x	xx	xx							Fluo
9		175	30	✓ 30	x			x	xx	xx							Fluo
10		176	25	✓ 25	x			xx	x								
11		177	20	✓ 20	xx	xx	xx	x	x								
12		178	15	✓ 15	x			x	xx	xx							Fluo
13		179	10	✓ 10	x			x	x								
14		180	5	✓ 5	x	x	x	x	xx	xx							Fluo
15		181	0	✓ 2	x	x	x	x	x								
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 3.236 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	21:26	14:26
Bottom	21:35	
End		

Positional Information

Lat:	48 °	58.18	N
Lon:	130 °	40.03	W

Start

Bottom

Lat:	48 °	58.24	N
Lon:	130 °	40.00	W

End

Lat:	°		N
Lon:	°		W

Extra comments:
DMS cast
Will also have loops for Chl x2

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P12 Event #: 33 Ship: Tully UTC Date (dd|mmm|yyyy): 9 | 6 | 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt							
1		182	50		x	x	x	x							
2		183	40				x	x							
3		184	25				x	x							
4		185	10				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): DT

Bottom Depth: 3200 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2200	1500
Bottom	2245	1545
End	2310	1610

Positional Information

Start	Lat: <u>48 ° 58.22</u>	<u>N</u>
	Lon: <u>130 ° 39.99</u>	<u>W</u>

Bottom

Lat: <u>°</u>	<u>N</u>
Lon: <u>°</u>	<u>W</u>

End

Lat: <u>48 ° 58.22</u>	<u>N</u>
Lon: <u>130 ° 39.99</u>	<u>W</u>

Extra comments:
Go-flo 50

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P12

Event #: 34

Ship: Tully

UTC Date (dd|mmm|yyyy): 8 | 6 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH			SAGs	DNA	Gases		Paw16		
				✓		ME 6/1	ME 1/21	ME 1/33	ME 1/35	ME 1/37	6.8			UBC	UBC	UBC		45 66	
1		186	Bot-10	✓	3278	x		x	x	x	x			x	x	xx		x	
2		187	3000	✓	2999	x	xx	x	x	xx	x							x	
3		188	3000	✓	2999	x	x	x	x	x	x			x	x	xx			
4		189	2500	✓	2501	xx	xx	x	x	x	xxx							x	
5		190	2000	✓	2000	x	x	x	x	x	x			x	x	xx		x	
6		191	1500	✓	1500	x	xx	x	x	x	x			x	x	xx		x	
7		192	1250	✓	1250	x	x	x	x	x	x			x	x	xx		x	
8		193	1000	✓	1000	x	xx	x	x	x	x			x	x	xx		x	
9		194	800	✓	800	xx		xx	xx	x	x			x	x	xx		x	
10		195	600	✓	600	x		x	x	x	x			x	x	xx		x	
11		196	400	✓	400	x		x	x	x	x			x	x	xx		x	
12		197	300	✓	300	x		x		x	x			x	x	xx		x	
13		198	250	✓	250	xx		x		x	x							x	
14		199	200	✓	200	x		x		x	x			x	x	xx		x	
15		200	175	✓	175	x		x		x	x							x	
16		201	150	✓	150	x		x		x	x			x	x	xx		x	
17		202	125	✓	125	x		x		x	xxx							x	
18		203	100	✓	100	x		x		x	x			x	x	xx		x	
19		204	75	✓	75	xx		xx		x	x							x	
20		205	50	✓	50	x		x		x	x			x	x	xx		x	
21		206	25	✓	25	x		x		x	x			x	x	xx		x	
22		207	10	✓	10	x		x		x	x			x	x	xx		x	
23		208	5	✓	5	x	x	x		x	x							x	
24																			

Version: 25 Nov 2011

Transmissometer to be cleaned before each cast.

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

Bottom Depth: 3236 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2326	1626
Bottom	0025	
End	0145	

Positional Information

Lat:	48 ° 58.24	N
Lon:	130 ° 39.96	W

Start
Bottom
End

Lat: 48 ° 58.20 N
Lon: 130 ° 39.97 W

Lat: 48 ° 58.27 N
Lon: 130 ° 39.93 W

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

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P12 Event #: 35 Ship: Tully UTC Date (dd|mmm|yyyy): 9 | 6 | 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Sal	Nut-fr	Fe filt	Fe unfilt							
1		209	200		x	x	x	x							
2		210	150				xx	xx							
3		211	100				x	x							
4		212	75				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): NY

Bottom Depth: 3280 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0220	
Bottom	0245	
End	0303	

Positional Information

Start	Lat: 48 ° 58.15 N
	Lon: 130 ° 40.19 W
Bottom	Lat: 48 ° 5 N
	Lon: 130 ° 40 W
End	Lat: 48 ° 58.17 N
	Lon: 130 ° 39.88 W

Extra comments:
 Go-flo 200

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P12

Event #: 37

Ship: Tully

UTC Date (dd|mmm|yyyy): 9 | 6 | 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Ship: _____ Tully _____		UTC Date (dd/mm/yy)	
			Target Pressure	Confirmed Pressure	Sal	Nut-fr	Fe filt	Fe unfilt	Nut-C									Comments
1		213	800			x	x	x	x	x								
2		214	600					x	x									
3		215	400					x	x									
4		216	300					x	x									
5								x	x									
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Version: 25 Nov 2011

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

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

Bottom Depth: 3238 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0440	2140
Bottom	0517	
End	0557	

Positional Information

Start	Lat: 48° 58' 19"	N
	Lon: 130° 40' 06"	W
Bottom	Lat: 48° 58' 23"	N
	Lon: 130° 40' 00"	W
End	Lat: 48° 58' 21"	N
	Lon: 130° 39' 40"	W

Extra comments:
Go-flo 800

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

Ship: Tully

UTC Date (dd/mm/yyyy): 9 / 6 / 2016

Extra comments:
Jade's cast