

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LB01 Event #: 01 Ship: Tully UTC Date (dd mmm yyyy): 01 09 2016

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed		Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	DIC	UBC					
				✓	Pressure	KS	MG	EVA		EVA	RWSS	MH	MG BY	gases					
1		1	Bot-10	✓	27	x		x				x							
2		2	20	✓	20	x		x		xx		xx	x						
3		3	10	✓	10	xx		x		xx		xx	x						
4		4	5	✓	5	x	x	x				xx	xx						
5		5	5	✓	5					xx	xx	xx						1.9 FLUO	
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): MG

Bottom Depth: 30 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1403	0707
Bottom	1406	
End	1412	

Positional Information

Lat:	48 °	40.50	N
Lon:	124 °	59.70	W

▼

Lat:	48 °	40.60	N
Lon:	124 °	59.68	W

▼

Lat:	48 °	40.48	N
Lon:	124 °	59.73	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2016-62

Station:

LB02

Event #:

02

Ship:

Tully

UTC Date (dd mmm yyyy):

01 09 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	Phyto	DA			
				✓		K5/MG		EVA	EVA	E/MH	MH	UBC	MH	MH			
1		6	Bot-10	✓	47	x		x				xx					
2		7	30	✓	31	x		x				xx					
3		8	20	✓	20	xx		x		xx		xx	xx				
4		9	10	✓	10	x		x		xx		xx	xx				
5		10	5			x		xx		xx	xx	xx	xxx	x			FLUO: 2.0
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):

MG

Bottom Depth:

55 m

Transmisso Cleaned:

Y / N

Time

UTC

Local

Start

1442

0742

Bottom

1444

End

1449

Positional Information

Lat:

48 °

39.07

N

Lon:

125 °

02.46

W

Lat:

48 °

39.08

N

Lon:

125 °

02.48

W

Lat:

48 °

39.12

N

Lon:

125 °

02.61

W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LB03 Event #: 03 Ship: Tully UTC Date (dd mmm yyyy): 07 09 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	UBC				
1		11	5	✓	5.7			x		x x	x x						Fluo: 1.4 (2.1)
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type: ☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MGBottom Depth: 93 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1522	0822
Bottom	1524	
End	1527	

Positional Information
Start
Lat: 48 ° 37.35 N
Lon: 125 ° 05.69 WBottom
Lat: 48 ° 37.36 N
Lon: 125 ° 05.71 WEnd
Lat: 48 ° 37.39 N
Lon: 125 ° 05.75 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62

Station: LB04

Event #: 04

Ship: Tully

UTC Date (dd mmm yyyy): 01 09 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4						
1		12	Bot-10	✓	102	x		x									
2		13	75	✓	75	xx		x									
3		14	50	✓	50	x		xx									
4		15	30	✓	30	x		x									
5		16	20	✓	20	x		x	xx		xx						
6		17	10	✓	10	x		x	xx		xx						
7		18	5	✓	5	x		x	xx	xx	xx						
8																	Fluo: 2.2 0.6
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): MG

Bottom Depth: 111 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1600	0900
Bottom	1602	
End	1612	

Positional Information

Lat:	48 °	35.73	N
Lon:	125 °	08.68	W

Start

Bottom

End

Lat:	48 °	35.75	N
Lon:	125 °	08.69	W

Lat:	48 °	35.90	N
Lon:	125 °	08.90	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LB05 Event #: 07 Ship: Tully UTC Date (dd mmm yyyy): 01 09 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases			
			Pressure	✓ Pressure			EVA		MH	MH/EVA		UBC			
1		19	5	✓	5			x	xx	xx					Fluo: 4.42
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 104 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1806	1106
Bottom	1808	
End	1811	

Positional Information
Start
Lat: 48 ° 34.13 N
Lon: 125 ° 11.98 W

Bottom
Lat: 48 ° 34.10 N
Lon: 125 ° 11.98 W

End
Lat: 48 ° 34.12 N
Lon: 125 ° 11.98 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LB06 Event #: 08 Ship: Tully UTC Date (dd mmm yyyy): 01 09 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	UBC			
					pk		pk		pk	50	50	gases			
1		20	Bot-10	✓	104	x		x							
2		21	100	✓	100	xx		x							
3		22	75	✓	76	x		xx							
4		23	50	✓	50	x		x							
5		24	30	✓	30	x		x							
6		25	20	✓	21	x		x	xx		xx				
7		26	10	✓	10	x		x	xx		xx				
8		27	5	✓	5	x		x	xx	xx	xx	xx		Fluo: 6.3	
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): MG

Bottom Depth: 115 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1840	1140
Bottom	1842	
End	1851	

Positional Information

Start Lat: 48 ° 32.26 N

Start Lon: 125 ° 15.40 W

Bottom Lat: 48 ° 32.26 N

Bottom Lon: 125 ° 15.42 W

End Lat: 48 ° 32.21 N

End Lon: 125 ° 15.43 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: C3 Event #: 14 Ship: Tully UTC Date (dd mmm yyyy): 01 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure		Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC		
1		28	5	☒	4.7								x x		Fluo:
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): MR

Bottom Depth: 123 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2235	1535
Bottom	2238	
End	2241	

Positional Information

Start Lat: 48° 23.42 N
Lon: 125° 20.68 W

Bottom Lat: 48° 23.41 N
Lon: 125° 20.67 W

End Lat: 48° 23.40 N
Lon: 125° 20.66 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LB07 Event #: 17 Ship: Tully UTC Date (dd mmm yyyy): 01 Sep 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases				
			Pressure	✓ Pressure								UBC				
1		29	5	✓ S			x		x x	x x					Fluo: 2.6	
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Watchkeeper(s): MR

Bottom Depth: 157 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2352	1652
Bottom	2355	
End	2359	

Positional Information

Start

Lat: 48 ° 28.55 N

Lon: 125 ° 22.23 W

Bottom

Lat: 48 ° 28.56 N

Lon: 125 ° 22.22 W

End

Lat: 48 ° 28.56 N

Lon: 125 ° 22.21 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: B8 Event #: 18 Ship: Tully UTC Date (dd mmm yyyy): 02 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC			
1		30	5									x x			Fluo:
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 135 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0101	1801
Bottom	0104	
End	0107	

Positional Information

Lat:	48 ° 34 46	N
Lon:	125 ° 30.06	W

▼

Lat:	48 ° 34 44	N
Lon:	125 ° 30.07	W

▼

Lat:	48 ° 34 44	N
Lon:	125 ° 30 07	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LB08 Event #: 22 Ship: Tully UTC Date (dd mmm yyyy): 02 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	DIC	Gases UBC	UVic	bugs	
1		31	Bot-10	✓	145	x		x								
2		32	125	✓	125	xx		x								
3		33	100	✓	100	x		x						x		
4		34	75	✓	75	x		xx				xx		x		
5		35	50	✓	50	x		x						x		
6		36	30	✓	30	x		x				xx				
7		37	20	✓	19.7	x		x	xx		xx			x		
8		38	10	✓	10	x		x	xx		xx			x		
9		39	5	✓	5	x	x	x					xx			
10		40	5	✓	5				xx	xx	xx			x		FLUO: ~1.0
11		41	100											x		(0.8)
12		42	50											x		NOT USED
13		43	5											x		
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 155 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0305	2005
Bottom	0309	
End	0319	

Positional Information
Start
Lat: 48° 25.34 N
Lon: 125° 28.73 W

Bottom
Lat: 48° 25.36 N
Lon: 125° 28.75 W

End
Lat: 48° 25.39 N
Lon: 125° 28.81 W

Extra comments:
Possibly out of order

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LB09 Event #: 25 Ship: Tully UTC Date (dd mmm yyyy): 02 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ✓	Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4								
						✓														
1		44	Bot-10	✓	140	x		x												
2		45	125	✓	125	x		x x												
3		46	100	✓	100	x		x												
4		47	75	✓	75	x		x												
5		48	50	✓	50	x		x												
6		49	30	✓	30	x		x												
7		50	20	✓	20	x x		x		x x		x x								
8		51	10	✓	10	x		x		x x		x x								
9		52	5	✓	5	x		x		x x	x x	x x						Fluo: ~19		
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

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

Watchkeeper(s): ML

Bottom Depth: 150 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0437	2137
Bottom	0440	
End	0450	

Positional Information

Start

Lat: 48° 22.07 N

Lon: 125° 34.76 W

Bottom

Lat: 48° 22.06 N

Lon: 125° 34.76 W

End

Lat: 48° 22.11 N

Lon: 125° 34.72 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LB10 Event #: 26 Ship: Tully UTC Date (dd mmm yyyy): 02 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases			
			Pressure	✓ Pressure								UBC			
1		53	5	✓	5			x		x x	x x				Fluo: 0.5
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): MR

Bottom Depth: 153 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0535	2235
Bottom	0539	
End	0543	

Positional Information

Start Lat: 48° 18.55 N

Start Lon: 125° 41.30 W

Bottom Lat: 48° 18.53 N

Bottom Lon: 125° 41.29 W

End Lat: 48° 18.51 N

End Lon: 125° 41.27 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LB11 Event #: 27 Ship: Tully UTC Date (dd mmm yyyy): 02 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure		Oxy HR/PG	Sal	Nut-Fr CH	Nut-C	CHL Ross	HPLC CH	NH4 MH	Gases CH					
1		54	Bot-10	✓	198	x		x										
2		55	175	✓	176	x		xx										
3		56	150	✓	150	x		x										
4		57	125	✓	125	x		x										
5		58	100	✓	100	x		x										
6		59	75	✓	75	x		x										
7		60	50	✓	50	xx		x										
8		61	30	✓	30	x		x										
9		62	20	✓	20	x		x		xx		xx						
10		63	10	✓	10	x		x		xx		xx						
11		64	5	✓	6	x		x		xx	xx	xx	xx			Fluo: ~0.6		
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: 206 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0631	2331
Bottom	0635	
End	0648	

Positional Information

Start Lat: 48° 15.22 N

Start Lon: 125° 47.60 W

Bottom Lat: 48° 15.19 N

Bottom Lon: 125° 47.60 W

End Lat: 48° 15.19 N

End Lon: 125° 47.70 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LB12 Event #: 29 Ship: Tully UTC Date (dd mmm yyyy): 02 09 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	DA			
					MG/EVA		ALL		ML	ROSS	ML	ML	ROSS			
1		65	Bot-10	✓	500	x		x	x							
2		66	400	✓	400	x		xx	xx							
3		67	300	✓	300	xx		x								
4		68	250	✓	250	x		x								
5		69	200	✓	199	x		x								
6		70	175	✓	174	x		x								
7		71	150	✓	150	x		x								
8		72	125	✓	125	x		x								
9		73	100	✓	100	x		x								
10		74	75	✓	75	x		x								
11		75	50	✓	50	x		xx								
12		76	30	✓	30	x		x								
13		77	20	✓	20	x		x	xx		xx					
14		78	10	✓	10	xx		x	xx		xx					
15		79	5	✓	6	x		x	xx	xx	xx	xxx	x			Fluo: 0.9 (0.7)
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 508 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0747	0047
Bottom	0757	
End	0823	

Positional Information
Start
Lat: 48 ° 12.94 N
Lon: 125 ° 51.83 W

Bottom
Lat: 48 ° 12.94 N
Lon: 125 ° 51.82 W

End
Lat: 48 ° 12.91 N
Lon: 125 ° 51.84 W

Extra comments:

Sampling Log

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

Cruise ID: 2016-62 Station: LB13

Event #: 30

Ship: Tully

UTC Date (dd mmm yyyy): 02 09 16

Niskin #		Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
				Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4					
1			80	5	☒ 5			x		xx	xx						
2																	Fluo: 0.89
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
Transmissometer to be cleaned before each cast, do not use Amies solution

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): MG

Bottom Depth: 913 m

Transmisso Cleaned: Y / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start	0857	0157
Bottom	0913	
End	0931	

Positional Information	
Lat: 48 ° 10.56 N	
Lon: 125 ° 56.05 W	

Bottom	Lat: 48 ° 10.55 N
	Lon: 125 ° 56.10 W

End	Lat:	48	°	10.55	N
	Lon:	125	°	56.20	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LB14 Event #: 31 Ship: Tully UTC Date (dd mmm yyyy): 02 09 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	UBC gases			
1		81	Bot-10	✓ 1185	x		x	x							
2		82	1000	✓ 1000	xx	xx	x	x							
3		83	750	✓ 750	x	x	x	x							
4		84	500	✓ 500	x	x	xx	xx							
5		85	400	✓ 400	x		x	x							
6		86	300	✓ 300	x		x								
7		87	250 ^x	✓ 250	x		x								
8		88	200	✓ 201	x		x								
9		89	175	✓ 175	x		x								
10		90	150	✓ 151	x		x								
11		91	125	✓ 125	xx		x								
12		92	100	✓ 101	x		x								
13		93	75	✓ 75	x		x								
14		94	50	✓ 50	x		x								
15		95	30	✓ 31	x		xx								
16		96	20	✓ 20	x		x		xx		xx				
17		97	10	✓ 10	x		x		xx		xx				
18		98	5	✓ 5	x		x		xx	xx	xx	xx			Fluo: n.g.
19		99	250 ^x	✓ 250							x				water for NH4
20															
21															
22															
23															
24															

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

Bottom Depth: 1182 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1002	0302
Bottom	1023	
End	1101	

Positional Information

Lat:	48 ° 08.51	N
Lon:	125 ° 59.91	W

Start

Bottom

Lat:	48 ° 08.47	N
Lon:	126 ° 00.04	W

End

Lat:	48 ° 08.50	N
Lon:	126 ° 00.20	W

Extra comments:
OUT-OF-ORDER
1-7; 19; 8-18
NO COLD NUTS (Nut-C)
COLLECTED

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LB15 Event #: 32 Ship: Tully UTC Date (dd mmm yyyy): 02 09 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4						
1		100	5	☒	5			x	xx	xx							Fluo: 0.85
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 1532 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1158	0458
Bottom	1225	
End	1254	

Positional Information
Start
Lat: 48 ° 04.38 N
Lon: 126 ° 08.38 W

Bottom
Lat: 48 ° 04.35 N
Lon: 126 ° 08.41 W

End
Lat: 48 ° 04.38 N
Lon: 126 ° 08.43 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LB16 Event #: 33 Ship: Tully UTC Date (dd mmm yyyy): 02 09 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	UBC gases			
1		101	5	☒			x		xx	xx		xx			Fluo: 0.52
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 1782 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1351	
Bottom	1423	
End	1455	

Positional Information

Start	Lat: 48 ° 00.53 N
	Lon: 126 ° 16.97 W
Bottom	Lat: 48 ° 00.58 N
	Lon: 126 ° 17.08 W
End	Lat: 48 ° 00.52 N
	Lon: 126 ° 17.13 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LC12 Event #: 39 Ship: Tully UTC Date (dd mmm yyyy): 02 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure	UBC												
1		102	5 m	☒	5	x x											
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Watchkeeper(s): MR

Bottom Depth: 2522 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2221	1521
Bottom	2254	
End	2326	

Positional Information

Start Lat: 48° 15.04 N

Start Lon: 126° 39.89 W

Bottom Lat: 48° 15.02 N

Bottom Lon: 126° 39.96 W

End Lat: 48° 14.96 N

End Lon: 126° 39.97 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LC11 Event #: 40 Ship: Tully UTC Date (dd mmm yyyy): 03 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	NH4					
					2500	50	50	50	50	50	NR	UBC	bulk					
1		103	Bot-10	✓	1432	x		x	x			xx						
2		104	1250	✓	1251	xx	x	x	x			xx						
3		105	1000	✓	1000	x	xx	x	x			xx						
4		106	750	✓	750	x	x	xx	xx			xx						
5		107	500	✓	499	x	x	x	x			xx						
6		108	400	✓	400	x		X	x			xx						108
7		109	300	✓	300	x		x				xx						Nut-Fr
8		110	250	✓	250	x		x				xx						LC11
9		111	200	✓	200	x		x				xx						400 m
10		112	175	✓	175	x		x				xx						2016-62
11		113	150	✓	150	x		x				xx						Bot 6
12		114	125	✓	125	xx		x				xx						
13		115	100	✓	100	x		x				xx						
14		116	75	✓	75	x		xx				xx						
15		117	50	✓	50	x		x				xx						
16		118	30	✓	28	x		x				xx						
17		119	20	✓	20	x		x		xx		xx	xx					
18		120	10	✓	10	x		x		xx		xx	xx					
19		121	5	✓		x		x		xx	xx	xx	xx					FLUO: 0.9
20																		
21																		
22																		
23																		
24																		

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): ML

Bottom Depth: 1440' m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0034	1734
Bottom	0058	
End	0139	

Positional Information

Start

Lat: 48° 19.05 N

Lon: 126° 26.61 W

Bottom

Lat: 48° 19.08 N

Lon: 126° 26.71 W

End

Lat: 48° 19.08 N

Lon: 126° 26.76 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LC09 Event #: 42 Ship: Tully UTC Date (dd mmm yyyy): 03 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed	Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	DIC	Uvic	phyto	DA			
				✓		KS	KS	KS	KS	all	MR	TV	UBC	MR	TV					
1		122	Bot-10	✓	601	x		x x	x x				xx	x						
2		123	500	✓	500	x	x	x	x				xx	x x						
3		124	400	✓	401	x		x	x				xx	x						
4		125	300	✓	300	x		x					xx	x x						
5		126	250	✓	250	x x		x					xx	x	x					
6		127	200	✓	200	x		x					xx	x						
7		128	175	✓	175	x		x					xx							
8		129	150	✓	150	x		x					xx		x					
9		130	125	✓	125	x		x					xx							
10		131	100	✓	100	x		x x					xx	x						
11		132	75	✓	75	x		x					xx							
12		133	50	✓	50	x		x					xx	x	x					
13		134	30	✓	30	x x		x					xx	x						
14		135	20	✓	20	x		x		xx		xx	xx		x					
15		136	10	✓	10	x		x		xx		xx	xx	x	x					
16		137	5	✓	5	x	x					xx	xx	x						
17		138	5	✓	5			x		x x	x x	xx			x	x	x	0.9		
18																				
19																				
20																				
21																				
22																				
23																				
24																				

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

Bottom Depth: 607 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0346	2046
Bottom	0357	
End	0420	

Positional Information

Lat:	48 ° 25.87	N
Lon:	126 ° 13.68	W

Start

Bottom

Lat: 48 ° 25.90 N
Lon: 126 ° 13.63 W

End

Lat: 48 ° 25.92 N
Lon: 126 ° 13.64 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LC08 Event #: 47 Ship: Tully UTC Date (dd mmm yyyy): 03 / 09 / 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases			
			Pressure	✓ Pressure	MG	MG	EVA		MG	Ross	MG	UBC	Ross/EVA		
1		139	Bot-10	✓	192	x		x				x x			
2		140	175	✓	175	x		x				x x			
3		141	150	✓	150	x		x				x x			
4		142	125	✓	125	x		x				x x			
5		143	100	✓	100	x		x				x x			
6		144	75	✓	75	x		x x				x x			
7		145	50	✓	50	x x		x				x x			
8		146	30	✓	30	x		x				x x			
9		147	20	✓	21	x		x	x x		x x	x x			
10		148	10	✓	10	x	x	x	x x		x x	x x			
11		149	5	✓	5	x	x	x	x x	x x	x x	x x			0.4
12									1						
13									ONE CHL						
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 200 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0720	0020
Bottom	0724	
End	0738	

Positional Information
Start
Lat: 48 ° 29.41 N
Lon: 126 ° 07.15 W

Bottom
Lat: 48 ° 29.42 N
Lon: 126 ° 07.12 W

End
Lat: 48 ° 29.44 N
Lon: 126 ° 07.03 W

Extra comments:
RAN OUT OF WATER ON 11

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LC06 Event #: 50 Ship: Tully UTC Date (dd mmm yyyy): 03 09 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases			
					MG		EVA		MH	MH	MH	UBC	ROSS	EVA	
1		150	Bot-10	✓ 85	x		x					x x			
2		151	75	✓ 75	x		x					x x			
3		152	50	✓ 50	x x		x					x x			
4		153	30	✓ 30	x		x					x x			
5		154	20	✓ 20	x		x		x x		x x	x x			
6		155	10	✓ 10	x		x x		x x		x x	x x			
7		156	5	✓ 5	x		x		x x	x x	x x	x x		Fluo: 5.6	
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): MG

Bottom Depth: 94 m
Transmissio Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0935	0235
Bottom	0937	
End	0946	

Positional Information
Start
Lat: 48 ° 36.47 N
Lon: 125 ° 54.08 W

Bottom
Lat: 48 ° 36.48 N
Lon: 125 ° 54.09 W

End
Lat: 48 ° 36.54 N
Lon: 125 ° 54.07 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2016-62

Station:

LC04

Event #:

54

Ship:

Tully

UTC Date (dd mmm yyyy):

03 09 16

Cruise ID: 2016-62			Station: LC04		Event #: 57										Comments						
Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials															
			Target	Confirmed	Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	Uvic							
			✓	Pressure	MG		MH		MG/R	MG	MH	UBC	EVA								
1		157	Bot-10	✓	157	x		x					xx								
2		158	150	✓	150	x		x					xx	x							
3		159	125	✓	125	x		x					xx								
4		160	100	✓	100	x		x					xx	x							
5		161	75	✓	75	x		x					xx								
6		162	50	✓	50	x		xx					xx	x							
7		163	30	✓	30	xx		x					xx								
8		164	20	✓	20	x		x		xx		xx	xx	x							
9		165	10	✓	10	x		x		xx		xx	xx	x							
10		166	5	✓	5	x		x		xx	xx	xx	xx	x			Fluo: 0.6				
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					
21																					
22																					
23																					
24																					

Ammonia products

http://www.pa

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

Watchkeeper(s): MG

Bottom Depth: 166 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1211	0511
Bottom	1214	
End	1228	

Positional Information

Start
Lat: 48 ° 43.40 N
Lon: 125 ° 40.81 W

Bottom
Lat: 48 ° 43.39 N
Lon: 125 ° 40.81 W

End
Lat: 48 ° 43.37 N
Lon: 125 ° 40.80 W

Extra comments:

Sampling Log

UTC Date (dd mmm yyyy): 03 09 16

2016-62

Station:

LC02

Event #: 56

Ship: Tully

UTC Date (dd mmm yyyy): 03 07 18

Comments

Profile type:

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

Watchkeeper(s): MG

Bottom Depth: 109 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
------	-----	-------

Time		
Start	1343	0643

Bottom	1344	
--------	------	--

End	1353
-----	------

Positional Information

Lat: 48 ° 48.69

Lon: 125 ° 30.93 W

Lat: 48 ° 48.69

Lon: 125 ° 30.96

Lat: 48 ° 48.68

End	Lon: 125 ° 31.03
-----	------------------

Extra comments:

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

Version: 25 Nov 2011

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

Water Properties Group

Sampling Log

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

Cruise ID:

2016-62

Station:

LC01

Event #:

57

Ship:

Tully

UTC Date (dd mmm yyyy): 3 Sep 2016

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials											Comments		
			Target Pressure	Confirmed ✓	Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	UVic					
1		175	Bot-10	✓	86	x		x					x x						
2		176	75	✓	75	x		x x					x x						
3		177	50	✓	50	x x		x					x x						
4		178	30	✓	30	x		x					x x						
5		179	20	✓	20	x		x		x x		x x	x x						
6		180	10	✓	10	x		x		x x		x x	x x						
7		181	5	✓	5	x		x		x x	x x	x x	x x					Fluo: 1.6	
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): MG

Bottom Depth:	95	m
Transmisso Cleaned:	(Y) / N	

Time	UTC	Local
Start	1426	0726
Bottom	1428	
End	1436	

Positional Information	
Start	Lat: 48 ° 50.43 N
	Lon: 125 ° 27.81 W

Bottom	Lat: 48 ° 50.42 N
	Lon: 125 ° 27.80 W

End	Lat: 48 ° 50.40 N
	Lon: 125 ° 27.85 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LD02 Event #: 58 Ship: Tully UTC Date (dd mmm yyyy): 03 09 MG

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	phyto	DA	
					MH		MH		ROSE	MG	EVA	UBC	MH	MG	
1		182	Bot-10	✓	32	x		x				x x			
2		183	30	✓	30	x		x				x x			
3		184	20	✓	20	x x		x	x x		x x	x x			
4		185	10	✓	10	x		x x	x x		x x	x x			
5		186	5	✓	5	x		x	x x	x x	x x	x x	xxx	X	Fluo: 3.2
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): MG

Bottom Depth: 42 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1611	0911
Bottom	1612	
End	1618	

Positional Information
Start
Lat: 48 ° 58.43 N
Lon: 125 ° 47.07 W

Bottom
Lat: 48 ° 58.43 N
Lon: 125 ° 47.05 W

End
Lat: 48 ° 58.39 N
Lon: 125 ° 47.02 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LD04 Event #: 60 Ship: Tully UTC Date (dd mmm yyyy): 03 09 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments					
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	DA							
1		187	Bot-10	✓	53	x x		x												
2		188	30	✓	30	x		x x												
3		189	20	✓	20	x		x		x x		x x								
4		190	10	✓	10	x		x		x x		x x								
5		191	5	✓	5	x		x		x x	x x	x x	x x	x						Fluo: 2.4
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): MG

Bottom Depth: 62 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1728	1028
Bottom	1729	
End	1735	

Positional Information

Start	Lat: 48 ° 53.20 N
	Lon: 125 ° 57.10 W

Bottom

Lat: 48 ° 53.22 N
Lon: 125 ° 57.11 W

End

Lat: 48 ° 53.24 N
Lon: 125 ° 57.09 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LD08 Event #: 62 Ship: Tully UTC Date (dd mmm yyyy): 03 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	DIC	phyto	Gases	DA		
					MR	MR	C	C	MR	JD	MR		MR	UBC	JD		
1		192	Bot-10	✓	768	x		x	x								
2		193	750	✓	750	x	x	xx	xx								
3		194	500	✓	500	xx	x	x	x								
4		195	400	✓	400	x		x	x								
5		196	300	✓	300	x		x									
6		197	250	✓	250	x		x									
7		198	200	✓	200	x		x									
8		199	175	✓	175	x		x									
9		200	150	✓	150	x		x									
10		201	125	✓	125	x		x									
11		202	100	✓	100	x		x									
12		203	75	✓	74	x		xx									
13		204	50	✓	50	x		x									
14		205	30	✓	30	xx		x									
15		206	20	✓	20	x		x	xx		xx						
16		207	10	✓	10	x		x	xx		xx						
17		208	5	✓	5	x		x	xx	xx	xx		x	xx	x		Fluo: 0.4
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 767 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2019	1319
Bottom	2033	
End	2059	

Positional Information
Start
Lat: 48° 39.23 N
Lon: 126° 23.37 W

Bottom
Lat: 48° 39.20 N
Lon: 126° 23.49 W

End
Lat: 48° 39.27 N
Lon: 126° 23.58 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62

Station: LD09

Event #: 65

Ship: Tully

UTC Date (dd mmm yyyy): 03 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy ✓		UVic										
1	5	209	250	✓ 250			x										
2	6	210	150	✓ 150			x										
3	1	211	1000	✓ 999	xx												
4	11	212	50	✓ 51			x										
5	12	213	20	✓ 20			x										
6	13	214	10	✓ 10			x										
7	14	215	5	✓ 5			x										
8																	
9	7	216	100	✓ 100	xx												
10																	
11																	
12																	
13	2	217	1000	✓ 1000	xx												
14	8	218	100	✓ 100	xx												
15																	
16																	
17																	
18																	
19	3	219	1000	✓ 1000	xx												
20	4	220	1000	✓ 1000	xx												
21	9	221	100	✓ 100	xx												
22	10	222	100	✓ 100	xx												
23																	
24																	

Profile type:

☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): MR

Bottom Depth: 1032 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2225	1525
Bottom	2243	
End	2307	

Positional Information

Start	Lat: 48 ° 35.90	N
	Lon: 126 ° 30.22	W
Bottom	Lat: 48 ° 35.89	N
	Lon: 126 ° 30.28	W
End	Lat: 48 ° 35.88	N
	Lon: 126 ° 30.40	W

Extra comments:

OUT-OF-ORDER

3; 13; 19; 20; 1; 2; 9; 14; 21; 22

4; 5; 6; 7.

Niskins comp: spring VS tubes

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62

Station: LG09

Event #: 67

Ship: Tully

UTC Date (dd mmm yyyy): 04 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	gases UBC	bugs UVic											
1		223	250	✓ 251		x											
2		224	150	✓ 150		x											
3		225	50	✓ 50		x											
4		226	20	✓ 20		x											
5		227	10	✓ 10		x											
6		228	5	✓ 5	xx	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): MR

Bottom Depth: 2061 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0542	2242
Bottom	0620	
End	0657	

Positional Information

Start	Lat: 48° 51.23	N
	Lon: 127° 19.65	W

Bottom

Lat: 48° 51.33	N
Lon: 127° 19.55	W

End

Lat: 48° 51.51	N
Lon: 127° 19.88	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2016-62

Station:

LG06

Event #:

72

Ship:

Tully

UTC Date (dd mmm yyyy): 04 09 16

Cruise ID:			2016-62		Station:		LG06		Event #:		Ship:		Date:		Comments					
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials															
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	DA	gases						
					MG/BA	MG	EVA/RS		ALL	MP	MH	MH	MH	Ross						
1		229	Bot-10	✓	948	x		x	x											
2		230	750	✓	750	x	x	xx	xx											
3		231	500	✓	501	xx		x	x											
4		232	400	✓	400	x		x	x											
5		233	300	✓	300	x		x												
6		234	250	✓	250	x		x												
7		235	200	✓	200	x		x												
8		236	175	✓	175	x		x												
9		237	150	✓	150	x		xx												
10		238	125	✓	125	x		x												
11		239	100	✓	100	x		x												
12		240	75	✓	75	x		x												
13		241	50	✓	50	x		x												
14		242	30	✓	30	xx		x												
15		243	20	✓	20	x		x		xx		xx								
16		244	10	✓	10	x		x		xx		xx								
17		245	5	✓	5	x	x	x		xx	xx	xx	x	x	xx			Fluo:		
18																				
19																				
20																				
21																				
22																				
23																				
24																				

<http://www.pa>

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

Bottom Depth: 946 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1210	0510
Bottom	1227	
End	1301	

Positional Information
Start
Lat: 49 ° 03.50 N
Lon: 127 ° 01.10 WBottom
Lat: 49 ° 03.53 N
Lon: 127 ° 01.12 WEnd
Lat: 49 ° 03.60 N
Lon: 127 ° 01.15 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LG04 Event #: 74 Ship: Tully UTC Date (dd mmm yyyy): 04 09 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases			
			Pressure	✓ Pressure								UBC			
1		246	Bot-10	✓	136	x		x							
2		247	125	✓	125	x		x							
3		248	100	✓	100	x		x							
4		249	75	✓	75	x		x x							
5		250	50	✓	50	x		x							
6		251	30	✓	30	x x		x							
7		252	20	✓	20	x		x	x x		x x				
8		253	10	✓	10	x		x	x x		x x				
9		254	5	✓	5	x		x	x x	x x	x x	x x			Fluo: 0.65
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 145 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1438	0738
Bottom	1441	
End	1454	

Positional Information
Start
Lat: 49 ° 11.30 N
Lon: 126 ° 49.37 W

Bottom
Lat: 49 ° 11.33 N
Lon: 126 ° 49.35 W

End
Lat: 49 ° 11.33 N
Lon: 126 ° 49.34 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LG02 Event #: 77 Ship: Tully UTC Date (dd mmm yyyy): 04 09 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	phyto	UVic	DA	
1		255	Bot-10	✓ 89	x		x					xx		x		CHL found
2		256	75	✓ 75	xx		x					xx		x		9 hrs later
3		257	50	✓ 51	x		xx					xx		x		in fridge.
4		258	30	✓ 30	x		x					xx				
5		259	20	✓ 21	x		x		xx		xx	xx		x		
6		260	10	✓ 10	x		x		xx		xx	xx		x		
7		261	5	✓ 5	x		x		xx	xx	xx	xx	xxx	x	x	Fluo: 6.4
8																259 A 259 B
9																CHL CHL
10																LG02 LG02
11																20 m 20 m
12																2016-62 2016-62
13																Bot 5 Bot 5
14																260 A 260 B
15																CHL CHL
16																LG02 LG02
17																10 m 10 m
18																2016-62 2016-62
19																Bot 6 Bot 6
20																261 A 261 B
21																CHL CHL
22																LG02 LG02
23																5 m 5 m
24																2016-62 2016-62

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

Bottom Depth: 99 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1636	0936
Bottom	1638	
End	1646	

Positional Information

Lat:	49 °	18.71	N
Lon:	126 °	38.06	W

Start

Lat:	49 °	18.71	N
Lon:	126 °	38.06	W

Bottom

Lat:	49 °	18.70	N
Lon:	126 °	37.97	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LG01 Event #: 79 Ship: Tully UTC Date (dd mmm yyyy): 04 09 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	gases			PAT/TO	DA	
			Pressure	✓ Pressure	KS/MG		CHEN		ALL	MG	ENA	UBC	ROSS/CH/EN		MG	MG	
1		262	Bot-10	✓	42	x		x									
2		263	30	✓	30	x x		x									
3		264	20	✓	20	x		x x		x x							
4		265	10	✓	10	x		x		x x							
5		266	5	✓	5	x		x		x x	x x	x x			xxx	x	Fluo: 18.2
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): MG

Bottom Depth: 54 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1726	1026
Bottom	1727	
End	1733	

Positional Information
Start
Lat: 49 ° 20.50 N
Lon: 126 ° 35.04 W

Bottom
Lat: 49 ° 20.50 N
Lon: 126 ° 35.04 W

End
Lat: 49 ° 20.50 N
Lon: 126 ° 35.06 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LBP8 Event #: 94 Ship: Tully UTC Date (dd mmm yyyy): 05 09 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	gases	UVic	phyto	DA		
												UBC					
1		267	250	✓ 250									x				
2		268	150	✓ 150									x				
3		269	50	✓ 50									x				
4		270	20	✓ 20									x				
5		271	10	✓ 10									x				
6		272	5	✓ 5								x 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): MG

Bottom Depth: 2718 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1818	1118
Bottom	1852	
End	1928	

Positional Information
Start
Lat: 49 ° 48.64 N
Lon: 128 ° 16.71 W

Bottom
Lat: 49 ° 48.45 N
Lon: 128 ° 16.32 W

End
Lat: 49 ° 48.23 N
Lon: 128 ° 16.29 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LBP7 Event #: 9.5 Ship: Tully UTC Date (dd mmm yyyy): 05 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	gases	UVic	phyto	DA			
					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
1		273	2000	✓	1998	x	x	x	x									
2		274	2000	✓	1998	x	x	x	x									
3		275	1500	✓	1501	x	xx	x	x									
4		276	1250	✓	1250	x	x	xx	xx									
5		277	1000	✓	1000	x	x	x	x									
6		278	750	✓	752	xx	x	x	x									
7		279	500	✓	500	x	x	x	x									
8		280	400	✓	400	x	x	x	x									
9		281	300	✓	302	x	x	x										
10		282	250	✓	250	x	x	x										
11		283	200	✓	200	x	x	x										
12		284	175	✓	176	x	x	x										
13		285	150	✓	150	x	x	x										
14		286	125	✓	125	x	x	x										
15		287	100	✓	100	x	x	xx										
16		288	75	✓	75	xx	x	x										
17		289	50	✓	50	x	x	x										
18		290	30	✓	30	x	x	x										
19		291	20	✓	20	x	x	x		xx		xx						
20		292	10	✓	10	x	x	x		xx		xx						
21		293	5	✓	5	x	x	x		xx	xx	xx		x	x			~ 4.7
22																		
23																		
24																		

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

Bottom Depth: 2184 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2012	1312
Bottom	2044	
End	2133	

Positional Information

Lat:	49° 52.32	N
Lon:	128° 11.19	W

Start

Bottom

End

Lat: 49° 52.27 N
Lon: 128° 10.96 W

Lat: 49° 52.14 N
Lon: 128° 10.51 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LBP5 Event #: 98 Ship: Tully UTC Date (dd mmm yyyy): 05 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments			
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	gases	UVic	phyto	DA					
				✓		01			01	01	01	UBC								
1		294	Bot-10	✓	1285	x		x	x											
2		295	1250	✓	1251	x	x	x	x											
3		296	1000	✓	1000	x	x	xx	xx											
4		297	750	✓	750	x		x	x											
5		298	500	✓	500	x		x	x											
6		299	400	✓	400	xx		x	x											
7		300	300	✓	300	x		x												
8		301	250	✓	250	x		x												
9		302	200	✓	200	x		x												
10		303	175	✓	175	x		x												
11		304	150	✓	150	x		x												
12		305	125	✓	125	x		x												
13		306	100	✓	100	x		x												
14		307	75	✓	75	x		x												
15		308	50	✓	50	x		xx												
16		309	30	✓	30	xx		x												
17		310	20	✓	20	x		x		xx		xx								
18		311	10	✓	10	x		x		xx		xx								
19		312	5	✓	5	x		x		xx	xx	xx								~ 5.7
20																				
21																				
22																				
23																				
24																				

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

Bottom Depth: 1279 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2349	1649
Bottom	0010	
End	0045	

Positional Information

Start
Lat: 50° 00.02 N
Lon: 128° 00.07 W

Bottom
Lat: 50° 0.04 N
Lon: 128° 0.08 W

End
Lat: 50° 00.22 N
Lon: 128° 00.23 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2016-62

Station:

LBP3

Event #: 101

Ship:

Tully

UTC Date (dd mmm yyyy): 06 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	CHL	HPLC	NH4	gases	UVic	phyto	DA				
				✓														
1		313	bot-10	✓	161	x		x			xx							
2		314	150	✓	150	x		xx			xx	x						
3		315	125	✓	125	x		x			xx							
4		316	100	✓	101	x		x			xx	x						
5		317	75	✓	75	x		x			xx							
6		318	50	✓	50	xx		x			xx	x						
7		319	30	✓	30	x		x			xx							
8		320	20	✓	20	x		x	xx	xx	xx	x						
9		321	10	✓	10	x		x	xx	xx	xx	x						
10		322	5	✓	5	x		x	xx	xx	xx	x	xx	x	F: 195	712	NO F LEFT PHYTO	
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: 168 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0227	1927
Bottom	0231	
End	0241	

Positional Information

Start	Lat: 50° 03.24 N	Lon: 127° 55.51 W
Bottom	Lat: 50° 03.25 N	Lon: 127° 55.55 W
End	Lat: 50° 03.26 N	Lon: 127° 55.64 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: LBP1 Event #: 106 Ship: Tully UTC Date (dd mmm yyyy): 06 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	UVic			
1		323	5	☒	5							xx				
2																
3																
4																
5																
6																
7																Fluo:
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: 48 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0404	2104
Bottom	0405	
End	0407	

Positional Information

Start

Lat: 50° 04.84 N
Lon: 127° 52.87 W

Bottom

Lat: 50° 04.82 N
Lon: 127° 52.87 W

End

Lat: 50° 04.81 N
Lon: 127° 52.91 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2016-62

Station:

CS00

Event #: 113

Ship: Tully

UTC Date (dd mmm yyyy): 06 09 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	UVic	gases UBC	DA			
1		324	2000	✓ 2005	x	x	x	x										
2		325	1500	✓ 1500	x	xx	xx	xx										
3		326	1250	✓ 1250	x	xx	x	x										
4		327	1000	✓ 1000	x	xx	x	x										
5		328	750	✓ 750	xx	x	x	x										
6		329	500	✓ 500	x	x	x	x										
7		330	400	✓ 400	x	x	x	x										
8		331	300	✓ 300	x	x	x											
9		332	250	✓ 250	x	x	x											
10		333	200	✓ 200	x	x	xx											
11		334	175	✓ 175	x	x	x											
12		335	150	✓ 150	xx	x	x											
13		336	125	✓ 125	x	x	x											
14		337	100	✓ 100	x	x	x											
15		338	75	✓ 75	x	x	x											
16		339	50	✓ 50	x	x	x											
17		340	30	✓ 30	x	x	x											
18		341	20	✓ 20	xx	x	x		xx		xx							
19		342	10	✓ 10	x	x	x		xx		xx							
20		343	5	✓ 5	x	x	x		xx	xx	xx	x		xx	x		Fluo: 0.24	
21																		
22																		
23																		
24																		

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): M6

Bottom Depth: 2171 m
Transmisso Cleaned: Y / N

	UTC	Local
Start	1755	1055
Bottom	1833	
End	1926	

Positional Information

Lat:	50 ° 27.63	N
Lon:	129 ° 55.03	W

Start

Bottom

Lat:	50 ° 27.67	N
Lon:	129 ° 55.18	W

End

Lat:	50 ° 27.76	N
Lon:	129 ° 55.52	W

Extra comments:
SALINITY CALIBRATION

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: CS02 Event #: 118 Ship: Tully UTC Date (dd mmm yyyy): 07 Sep 2016

			Rosette Operation		Samples Taken / Sampler's Initials										Comments			
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	UVic					
				✓		10	10	L	L	DI	DI	C	TV					
1		344	Bot-10	✓	1910	x		x	x									
2		345	1500	✓	1500	x	x	xx	xx									
3		346	1250	✓	1250	x	x	x	x									
4		347	1000	✓	1000	x		x	x									
5		348	750	✓	750	xx		x	x									
6		349	500	✓	500	x		x	x									
7		350	400	✓	400	x		x										
8		351	300	✓	300	x		x										
9		352	250	✓	250	x		x					x					
10		353	200	✓	200	x		xx										
11		354	175	✓	175	x		x										
12		355	150	✓	150	xx		x					x					
13		356	125	✓	125	x		x										
14		357	100	✓	100	x		x										
15		358	75	✓	75	x		x										
16		359	50	✓	50	x		x					x					
17		360	30	✓	30	x		x										
18		361	20	✓	20	xx		x		xx		xx	x					
19		362	10	✓	10	x		x		xx		xx	x					
20		363	5	✓	5	x	x	x		xx	xx	xx	x				Fluo: 2.6	
21																		
22																		
23																		
24																		

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): ML

Bottom Depth: 1900 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0053	1753
Bottom	0125	
End	0212	

Positional Information

Start Lat: 50° 41.28 N

Lon: 129° 27.99 W

Bottom Lat: 50° 41.25 N

Lon: 129° 28.08 W

End Lat: 50° 41.29 N

Lon: 129° 28.16 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: CS04 Event #: 123 Ship: Tully UTC Date (dd mmm yyyy): 07 SEP 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments					
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	gases	UBC							
1		364	Bot-10	✓	86	x		x												
2		365	75	✓	75	x		x												
3		366	50	✓	50	x		x											OXY SENSOR?	
4		367	30	✓	30	x x		x												
5		368	20	✓	20	x		x		x x		x x								
6		369	10	✓	10	x		x		x x		x x								
7		370	5	✓	5	x		x x		x x	x x	x x	x x						Fluo: 0.7	
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: 95 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0503	2203
Bottom	0505	
End	0512	

Positional Information

Start	Lat: 50° 49.24	N
	Lon: 129° 13.12	W

Bottom

Lat: 50° 49.24	N
Lon: 129° 13.14	W

End

Lat: 50° 49.26	N
Lon: 129° 13.19	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2016-62

Station:

CS06

Event #:

133

Ship:

Tully

UTC Date (dd mmm yyyy):

07 09 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	DA	gases				
				✓ Pressure										UBC				
1		371	Bot-10	✓	55	x		x x										
2		372	50	✓	50	x x		x										
3		373	30	✓	30	x		x										
4		374	20	✓	20	x		x		x x		x x						
5		375	10	✓	10	x		x		x x		x x						
6		376	5	✓	5	x		x		x x	x x	x x	x	x	x x			Fluo: 2
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 checked at 11.5

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

MG

Bottom Depth:

64 m

Transmisso Cleaned:

Y / N

Time

UTC

Local

Start

1756

1056

Bottom

1757

End

1804

Positional Information

Start Lat: 50 ° 00.02 N

Lon: 128 ° 51.99 W

Bottom Lat: 51 ° 00.03 N

Lon: 128 ° 51.34 W

End Lat: 50 ° 00.03 N

Lon: 128 ° 51.84 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: CS09 Event #: 139 Ship: Tully UTC Date (dd mmm yyyy): 07 Sep 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	UVic	gases	UBC				
1		377	Bot-10	✓ 186	x		x											
2		378	175	✓ 175	x		x											
3		379	150	✓ 151	x		x					x						
4		380	125	✓ 125	x		xx											
5		381	100	✓ 100	x		x					x						
6		382	75	✓ 75	x		x											
7		383	50	✓ 50	xx		x					x						
8		384	30	✓ 30	x		x											
9		385	20	✓ 20	x		x		xx		xx	x						
10		386	10	✓ 10	x		x		xx		xx	x						
11		387	5	✓ 5	x		x		xx	xx	xx	x			Fluo: 2.1			
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: 194 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2119	1419
Bottom	2123	
End	2135	

Positional Information
Start
Lat: 51 ° 12.52 N
Lon: 128 ° 28.01 W

Bottom
Lat: 51 ° 12.49 N
Lon: 128 ° 28.05 W

End
Lat: 51 ° 12.51 N
Lon: 128 ° 28.18 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: 14 Event #: 187 Ship: Tully UTC Date (dd mmm yyyy): 11 09 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto						
1		388	20	✓	20			xx		xx								
2		389	10	✓	10			xx		xx								
3		390	0	✓	2.1			xx		xx	xx						FLUO: 3.65	
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																	Fluo:	
21																		
22																		
23																		
24																		

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

Bottom Depth:	312 m
Transmisso Cleaned:	Y / N

Time	UTC	Local
Start	0908	0208
Bottom	0914	
End	0924	

Positional Information		
Start	Lat: 49 ° 52.95	N
	Lon: 124 ° 59.59	W

Bottom	Lat: 49 ° 53.00	N
	Lon: 124 ° 59.71	W

End	Lat: 49 ° 53.03	N
	Lon: 124 ° 59.81	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: 11 Event #: 189 Ship: Tully UTC Date (dd mmm yyyy): 11 09 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	DIC				
1		391	b-10	✓ 288			x										
2		392	200	✓ 200			x						x				
3		393	100	✓ 101			x						xx				
4		394	75	✓ 75			x						x				
5		395	50	✓ 50			x						x				
6		396	40	✓ 40			x						x				
7		397	30	✓ 30			xx						xx				
8		398	20	✓ 21			x		xx				x				
9		399	10	✓ 11			x		xx				x				
10		400	5	✓ 5.6			x						x				
11		401	0	✓ 2.4			x		xx	xx			x			2.33	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																Fluo:	
21																	
22																	
23																	
24																	

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

Bottom Depth: 295 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1118	0418
Bottom	1123	
End	1139	

Positional Information
Start
Lat: 49 ° 42.31 N
Lon: 124 ° 43.32 W

Bottom
Lat: 49 ° 42.31 N
Lon: 124 ° 43.37 W

End
Lat: 49 ° 42.24 N
Lon: 124 ° 43.27 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2016-62

Station:

CPF2

Event #: 191

Ship: Tully

UTC Date (dd mmm yyyy): 11 09 16

Cruise ID: 2016-62			Station: CPT2		Event: 1												Comments	
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto						
1		402	20	☒ 20			x		xx									
2		403	10	☒ 10			x		xx									5.3
3		404	0	☒ 0			xx		xx	xx								
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		Fluo:
21																		
22																		
23																		
24																		

Do not use Ammonia products

<http://www.pac>

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

Bottom Depth: 324 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1332	0632
Bottom	1338	
End	1347	

Positional Information
Start
Lat: 49 ° 28.00 N
Lon: 124 ° 29.97 W

Bottom
Lat: 49 ° 27.99 N
Lon: 124 ° 29.99 W

End
Lat: 49 ° 28.10 N
Lon: 124 ° 29.97 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: CPF1 Event #: 193 Ship: Tully UTC Date (dd mmm yyyy): 11 09 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target	Confirmed	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto				
			Pressure	✓ Pressure												
1		405	20	✓ 20			x		xx							
2		406	10	✓ 11			xx		xx							
3		407	0	✓ 2.6			x		xx	xx						2.6
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																Fluo:
21																
22																
23																
24																

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

Bottom Depth: 239 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1610	0910
Bottom	1614	
End	1621	

Positional Information
Start
Lat: 49 ° 21.95 N
Lon: 124 ° 05.08 W

Bottom
Lat: 49 ° 21.94 N
Lon: 124 ° 05.12 W

End
Lat: 49 ° 21.93 N
Lon: 124 ° 05.22 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-62 Station: 22 Event #: 195 Ship: Tully UTC Date (dd mmm yyyy): 11 Sep 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto			
							45		mc	vd					
1		408	b-10	✓	342			x							
2		409	200	✓	200			x							
3		410	100	✓	100			x							
4		411	75	✓	75			x							
5		412	50	✓	50			xx							
6		413	40	✓	40			x							
7		414	30	✓	30			x							
8		415	20	✓	20			x		xx					
9		416	10	✓	10			x		xx					
10		417	5	✓	5			x							
11		418	0	✓	2			x		xx	xx				Fluo: 1.6
12															
13															
14															
15															
16															
17															
18															
19															
20															Fluo:
21															
22															
23															
24															

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

Bottom Depth: 349 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1909	1209
Bottom	1915	
End	1929	

Positional Information

Lat:	49° 40.15	N
Lon:	124° 16.21	W

▼

Lat:	49° 40.13	N
Lon:	124° 16.26	W

▼

Lat:	49° 40.12	N
Lon:	124° 16.38	W

Extra comments: