

Water Properties Group

Sampling Log

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

Cruise ID:

2015-20

Station:

Haro59

Event #:

2

Ship:

Tully

UTC Date (dd|mmm|yyyy): 27 | MAY | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed <input checked="" type="checkbox"/> Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4						
1		1	50				x		xx	xx							
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 225 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2046	1346
Bottom	2051	
End	2052	

Positional Information

Start
Lat: 48 ° 36.95 N
Lon: 123 ° 14.74 W

Bottom
Lat: 48 ° 36.94 N
Lon: 123 ° 14.73 W

End
Lat: 48 ° 36.96 N
Lon: 123 ° 14.72 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LB01 Event #: 26 Ship: Tully UTC Date (dd|mmm|yyyy): 28 | 05 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	DIC	Gases						
						TF		RL		NN	NN	TF	Kelly	Robert					
1	1	2	Bot-10		25.8	x		x		xx		xx	x						
2	2	3	10		10.8	x		x		xx		xx	x						
3	3	4	5		4.7	x		x		xx	xx	xx							
4	4	5	5		15.3	x							xx	xx					
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 36 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	7:08	
Bottom	7:10	
End	7:13	

Positional Information
Start
Lat: 48 ° 40.393 N
Lon: 124 ° 59.490 W

Bottom
Lat: 48 ° 40.402 N
Lon: 124 ° 59.484 W

End
Lat: 48 ° 40.409 N
Lon: 124 ° 59.483 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LB02 Event #: 7 Ship: Tully UTC Date (dd|mmm|yyyy): 28 | 05 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments			
			Target	Confirmed	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	Phyto						
			Pressure	√ Pressure															
1	1	6	Bot-10		45	x		x				x x							
2	2	7	30		30	x		x				x x							
3	3	8	20		20.5	x x		x		x x		x x							
4	4	9	10		10.3	x		x		x x		x x							
5	5	10	5		5.5	x		x x		x x	x x	x x	x x x						
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): TF

Bottom Depth: 55 m
Transmisso Cleaned: Y / ☒ N

Time	UTC	Local
Start	07:58	
Bottom	07:59	
End	08:03	

Positional Information

Lat:	48 ° 39.083	N
Lon:	125 ° 02.302	W

▼

Lat:	48 ° 39.082	N
Lon:	125 ° 02.302	W

▼

Lat:	48 ° 39.084	N
Lon:	125 ° 02.285	W

Extra comments:

Sampling Log

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

Cruise ID: 2015-20 Station: LB03 Event #: 8 Ship: Tully UTC Date (dd|mmm|yyyy): 28|05|2015

[illegible]

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): TF

Bottom Depth: 95 m

Transmisso Cleaned: (Y) / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start	08:40	
Bottom	08:42	
End	08:44	

Positional Information

Lat:	48 ° 37.255	N
Lon:	125 ° 05.566	W

Lat:	48 ° 37.258	N
Lon:	125 ° 05.569	W

Lat:	48 ° 37.	N
Lon:	125 ° 05.	W

Extra comments:
did not start archiving
until download
@ 6pm

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LB04 Event #: 9 Ship: Tully UTC Date (dd|mmm|yyyy): 28 | 05 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy TF	Sal-R	Nut-Fr TF	Nut-C	CHL	HPLC KY	NH4 N2	UBC gases						
1	1	12	Bot-10		101	x		x										
2	2	13	75		74	xx		x										
3	3	14	50		50.4	x		xx										
4	4	15	30		30.3	x		x										
5	5	16	20		19.8	x		x		xx		xx						
6	6	17	10		9.6	x		x		xx		xx						
7	7	18	5		5.0	x		x		xx	xx	xx	xx					Fluo: 5 µg/l
8																		
9																		deckhands
10																		cleaning near
11																		rosette NH4
12																		smell.
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

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

Time	UTC	Local
Start	09 11	
Bottom	09 14	
End	09 21	

Positional Information

Lat:	48 ° 35.686	N
Lon:	125 ° 08.736	W

Start

Lat:	48 ° 35.712	N
Lon:	125 ° 08.750	W

Bottom

Lat:	48 ° 35.694	N
Lon:	125 ° 08.782	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LB05 Event #: 12 Ship: Tully UTC Date (dd|mmm|yyyy): 28 | 05 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓	Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases			
1	1	19	5					x		x x	x x					Fluo: 3.74
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): TF

Bottom Depth: 110 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1141	
Bottom	1143	
End	1146	

Positional Information

Start	Lat: 48 ° 34.026 N
	Lon: 125 ° 12.104 W
	▼
Bottom	Lat: 48 ° 34.006 N
	Lon: 125 ° 12.144 W
	▼
End	Lat: 48 ° 33.986 N
	Lon: 125 ° 12.184 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LB06 Event #: 14 Ship: Tully UTC Date (dd mmm yyyy): 28 / 05 / 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	UBC gases	UVic						
1	1	20	Bot-10		105	x		x											
2	2	21	75		75	x x		x											
3	3	22	50		50	x		x x											
4	4	23	30		30.1	x		x											
5	5	24	20		20.6	x		x		x x		x x							
6	6	25	10		10.1	x		x		x x		x x							
7	7	26	5		4.3	x		x		x x	x x	x x	x x					Fluo: 3.6	
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): TFBottom Depth: 115 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1220	
Bottom	1222	
End	1230	

Positional Information
Start
Lat: 48 ° 32.191 N
Lon: 125 ° 15.545 WBottom
Lat: 48 ° 32.196 N
Lon: 125 ° 15.546 WEnd
Lat: 48 ° 32.167 N
Lon: 125 ° 15.580 W

Extra comments:

Sampling Log

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

[illegible][illegible]

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

Bottom Depth: 56 m

Transmisso Cleaned: (Y) / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start	1639	
Bottom	1642	
End	1646	

Positional Information

Lat:	48 ° 28.667	N
Lon:	125 ° 22.064	W

Lat:	48 ° 28.667	N
Lon:	125 ° 22.044	W

Lat:	48 ° 28.624	N
Lon:	125 ° 22.042	W

Extra comments:
bottle 2 fired at 146 m
bottle 2 fired @ 5m.

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LB08 Event #: 29 Ship: Tully UTC Date (dd|mmm|yyyy): 28 | May | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	DIC	Gases	UVic		
					KS/ST		MR/MG		NN	NN	KS	MR/MS	UBC	JD/ADN		
1	1	28	Bot-10	✓ 143	x		x					x		x		
2	2	29	100	✓ 100	xx		x					x		x		
3	3	30	75	✓ 75	x		x					x				
4	4	31	50	✓	x		xx					xx		x		
5	5	32	30	✓ 30	x		x					x				
6	6	33	20	✓ 19	x		x		xx		xx	x		✓		
7	7	34	10	✓	x		x		xx		xx	xx		x		
8	8	35	5	✓	x		x					x	xx	x		
9	9	36	5	✓			x		xx	xx	xx					
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 150 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	2037	1337
Bottom	2040	
End	2051	

Positional Information
Start
Lat: 48 ° 25.33 N
Lon: 125 ° 28.67 WBottom
Lat: 48 ° 25.33 N
Lon: 125 ° 28.67 WEnd
Lat: 48 ° 25.28 N
Lon: 125 ° 28.70 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LB09

Event #: 30

Ship: Tully

UTC Date (dd|mmm|yyyy): 28 | May | 2015

			Rosette Operation		Samples Taken / Sampler's Initials										Ship: _____ Tully _____		UTC Date (dd/mm/yyyy) _____	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	UBC	Comments				
1	1	37	Bot-10	✓ 140	x		x											
2	2	38	125	✓ 125	x		xx											
3	3	39	100	✓ 99	x		x											
4	4	40	75	✓ 74	x		x											
5	5	41	50	✓ 50	x		x											
6	6	42	30	✓ 30	x		x											
7	7	43	20	✓ 20	xx		x		xx		xx							
8	8	44	10	✓ 10	x		x		xx		xx							
9	9	45	5	✓ 5	x		x		xx	xx	xx	xx						
10															Fluo: 28			
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): MR

Bottom Depth: 149 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2135	1435
Bottom	2138	
End	2149	

Positional Information

Start	Lat: 48° 21.98	N
	Lon: 125° 34.74	W
Bottom	Lat: 48° 21.97	N
	Lon: 125° 34.74	W
End	Lat: 48° 21.97	N
	Lon: 125° 34.65	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LB10 Event #: 31 Ship: Tully UTC Date (dd|mmm|yyyy): 28 | MAY | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases							
			Pressure	√ Pressure								UBC							
1		46	5					x		xx	xx								Fluo: → vent was not closed tightly
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

http://www.pao

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

Bottom Depth: 152 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2236	1536
Bottom	2240	
End	2244	

Positional Information
Start
Lat: 48 ° 18.56 N
Lon: 125 ° 41.34 W

Bottom
Lat: 48 ° 18.56 N
Lon: 125 ° 41.33 W

End
Lat: 48 ° 18.58 N
Lon: 125 ° 41.33 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LB11 Event #: 33 Ship: Tully UTC Date (dd|mmm|yyyy): 28|May|2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC			
1		47	Bot-10	✓ 195	x		x								
2		48	175	✓ 175	x		xx								
3		49	150	✓ 149	x		x								
4		50	125	✓ 124	x		x								
5		51	100	✓ 100	x		x								
6		52	75	✓ 75	x		x								
7		53	50	✓ 50	xx		x								
8		54	30	✓ 30	x		x								
9		55	20	✓ 20	x		x		xx		xx				
10		56	10	✓ 10	x		x		xx		xx				
11		57	5	✓ 5	x		x		xx	xx	xx	xx			
12														Fluo: 0.8	
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 203 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2354	1654
Bottom	2358	
End	0011	

Positional Information
Start
Lat: 48° 15.26 N
Lon: 125° 47.61 W

Bottom
Lat: 48° 15.25 N
Lon: 125° 47.61 W

End
Lat: 48° 15.19 N
Lon: 125° 47.60 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LB12

Event #: 34

Ship: Tully

UTC Date (dd|mmm|yyyy): 29 | MAY | 2015

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials														Comments
			Target Pressure	Confirmed	Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	Gases						
				✓											UBC					
1	1	58	Bot-10	✓	503	x		x	x											
2	2	59	400	✓	400	x		x	x											
3	3	60	300	✓	300	x x		x												
4	4	61	250	✓	250	x		x												
5	5	62	200	✓	201	x		x x												
6	6	63	175	✓	174	x		x												
7	7	64	150	✓	150	x		x												
8	8	65	125	✓	125	x		x												
9	9	66	100	✓	100	x		x												
10	10	67	75	✓	75	x		x												
11	11	68	50	✓	50	x		x												
12	12	69	30	✓	30	x		x												
13	13	70	20	✓	20	x		x		x x		x x								
14	14	71	10	✓	10	x x		x		x x		x x								
15	15	72	5	✓	5	x		x		x x	x x	x x	x x x	x x					Fluo:	
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Version: 25 Nov 2014

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

Bottom Depth: 505 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0046	1746
Bottom	0056	
End	0119	

Positional Information
Start
Lat: 48 ° 12.88 N
Lon: 125 ° 51.89 W

Bottom
Lat: 48 ° 12.89 N
Lon: 125 ° 51.90 W

End
Lat: 48 ° 12.89 N
Lon: 125 ° 51.87 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LB13 Event #: 35 Ship: Tully UTC Date (dd|mmm|yyyy): 29 | MAY | 2015

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments					
			Target Pressure	Confirmed	Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases								
				√										UBC							
1		73	5					x		x x	x x								Fluo: 1.2		
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: 905 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0155	1855
Bottom	0212	
End	0228	

Positional Information

Start

Lat: 48° 10.61 N

Lon: 125° 55.99 W

Bottom

Lat: 48° 10.61 N

Lon: 125° 56.09 W

End

Lat: 48° 10.62 N

Lon: 125° 56.15 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LB14 Event #: 37 Ship: Tully UTC Date (dd|mmm|yyyy): 29 | MAI | 2015

Cruise ID: 2015-20			Station: 14		Event: 1										Comments							
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Gases	UBC						
			Target Pressure	Confirmed Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4											
				✓		MR	MG	RI	RI	RI	MG	MG										
1	1	74	Bot-10	✓	1182	x		x	x													
2	2	75	1000	✓	1000	xx	xx	x	x													
3	3	76	750	✓	750	x	x	x	x													
4	4	77	500	✓	500	x	x	xx	xx													
5	5	78	400	✓	401	x		x	x													
6	6	79	300	✓	300	x		x														
7	7	80	250*	✓	250	x		x														
8	9	81	200	✓	200	x		x														
9	10	82	175	✓	175	x		x														
10	11	83	150	✓	150	x		x														
11	12	84	125	✓	125	xx		x														
12	13	85	100	✓	100	x		x														
13	14	86	75	✓	75	x		x														
14	15	87	50	✓	51	x		x														
15	16	88	30	✓	30	x		xx														
16	17	89	20	✓	20	x		x		xx		xx										
17	18	90	10	✓	10	x		x		xx		xx										
18	19	91	5	✓	5	x		x		xx	xx	xx	xx					Fluo:				
19	8	92	250	✓	250													Water for NH4				
20																						
21																						
22																						
23																						
24																						

http://www.pac.

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

Bottom Depth: 1170 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0300	2000
Bottom	0322	
End	0357	

Positional Information
Start
Lat: 48° 08.51 N
Lon: 125° 59.99 W

Bottom
Lat: 48° 08.51 N
Lon: 126° 00.01 W

End
Lat: 48° 08.53 N
Lon: 126° 00.02 W

Extra comments:
OUT-OF-ORDER
1-7; 19; 8-18

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LB15 Event #: 38 Ship: Tully UTC Date (dd|mm|yyyy): 29 | JUL | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed <input checked="" type="checkbox"/> Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC			
1		93	5	<input checked="" type="checkbox"/>			x		x x	x x					Fluo:
2															
3															
4															
5															
6															
7															
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18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 1538 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0456	2156
Bottom	0522	
End	0548	

Positional Information
Start
Lat: 48° 04.37 N
Lon: 126° 08.42 W

Bottom
Lat: 48° 04.31 N
Lon: 126° 08.41 W

End
Lat: 48° 04.33 N
Lon: 126° 08.36 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LB16 Event #: 40 Ship: Tully UTC Date (dd|mmm|yyyy): 29 | 05 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target	Confirmed	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases							
			Pressure	✓ Pressure								UBC							
1		94	5	✓	15.5			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): TP

Bottom Depth: 1769 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	09:11	
Bottom	09:39	
End	10:07	

Positional Information

Start	Lat: 48 ° 00.562 N
	Lon: 126 ° 17.064 W
	▼
Bottom	Lat: 48 ° 00.575 N
	Lon: 126 ° 17.161 W
	▼
End	Lat: 48 ° 00.556 N
	Lon: 126 ° 17.094 W

Extra comments:
pump on @ ~590 m on downcast
altimeter did not kick in @ bottom

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LC11 Event #: 45 Ship: Tully UTC Date (dd/mm/yyyy): 29 / 05 / 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target	Confirmed	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases						
			Pressure	✓ Pressure														
1	1	95	Bot-10	✓	1415	x		x	x			xx						
2	2	96	1250		1250	xx	x	x	x									
3	3	97	1000		1000	x	xx	x	x			xx						
4	4	98	750		751	x	x	xx	xx									
5	5	99	500		501	x	x	x	x			xx						
6	6	100	400		399	x		x	x			xx						
7	7	101	300		300	x		x				xx						
8	8	102	250		250	x		x				xx						
9	9	103	200		200	x		x				xx						
10	10	104	175		176	x		x				xx						
11	11	105	150		150	x		x				xx						
12	12	106	125		125	xx		x				xx						
13	13	107	100		100	x		x				xx						
14	14	108	75		76	x		xx				xx						
15	15	109	50		49	x		x				xx						
16	16	110	30		30	x		x				xx						
17	17	111	20		20	x		x	xx		xx	xx						
18	18	112	10		10	x		x	xx		xx	xx						
19	19	113	5		5	x		x	xx	xx	xx	xx						
20																		
21																		
22																		
23																		
24																		

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

Watchkeeper(s): TF

Bottom Depth: 1428 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1647	
Bottom	1712	
End	1757	

Positional Information

Start

Lat: 48 ° 18.916 N

Lon: 126 ° 26.654 W

Bottom

Lat: 48 ° 18.968 N

Lon: 126 ° 26.611 W

End

Lat: 48 ° 19.073 N

Lon: 126 ° 26.546 W

Extra comments:

Winch winding problem
N 444 m - had to
unwind cable on the upcast
and rewind

Water Properties Group

Sampling Log

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

Cruise ID:

2015-20

Station:

LC09

Event #: 48

Ship: Tully

UTC Date (dd|mmm|yyyy): 29 | MAY | 2015

Cruise ID: 2015-20			Station: LC09		Event #: 48		Ship: Tully		Comments										
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	DIC	Uvic		phyto			
				✓															
1	1	114	Bot-10	✓	606	x		xx	xx				xx	x					
2	2	115	500	✓	500	x		x	x				xx	xx					
3	3	116	400	✓	400	x		x	x				xx	x					
4	4	117	300	✓	301	x		x					xx	xx					
5	5	118	250	✓	250	xx		x					xx	x	x				
6	6	119	200	✓	200	x		x					xx	x					
7	7	120	175	✓	175	x		x					xx		x				
8	8	121	150	✓	148	x		x					xx						
9	9	122	125	✓	125	x		x					xx						
10	10	123	100	✓	100	x		xx					xx	x					
11	11	124	75	✓	75	x		x					xx						
12	12	125	50	✓	50	x		x					xx	x	x				
13	13	126	30	✓	29	xx		x					xx	x					
14	14	127	20	✓	20	x		x	xx		xx	xx			x				
15	15	128	10	✓	9	x		x	xx		xx	xx	x	x					
16	16	129	5			x		x				xx	x	x					
17	17	130	5					x	xx	xx	xx				x				Fluo:
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Uniform each cast, do not use Ammonia products

http://www.pac.df

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

Bottom Depth: 611 m

Transmisso Cleaned: (Y) / N

	UTC	Local
Time Start	2132	1432
Bottom	2144	
End	2208	

Positional Information

Start
Lat: 48° 25.93 N
Lon: 126° 13.72 W

Bottom
Lat: 48° 25.93 N
Lon: 126° 13.73 W

End
Lat: 48° 25.96 N
Lon: 126° 13.71 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LC08 Event #: 53 Ship: Tully UTC Date (dd|mm|yyyy): 30 | MAY | 2015

Cruise ID: 2019-20 Station: 2000			Rosette Operation		Samples Taken / Sampler's Initials										Comments			
Niskin #	Firing #	Sample #	Target	Confirmed	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	DIC					
			Pressure	✓ Pressure								UBC						
1	1	131	Bot-10	✓	191	x		x				xx	x					
2	2	132	200	✓	191	x		x				xx	xx					
3	3	133	175	✓	175	x		x				xx						
4	4	134	150	✓	150	x		x				xx						
5	5	135	125	✓	124	x		x				xx						
6	6	136	100	✓	100	x		xx				xx	x					
7	7	137	75	✓	74	xx		x				xx						
8	8	138	50	✓	49	x		x				xx	x					
9	9	139	30	✓	30	x		x	xx	xx		xx	x					
10	10	140	20	✓	20	x		x	xx		xx	xx	x					
11	11	141	10	✓	9	x		x	xx		xx	xx	xx					
12	12	142	5	✓	4	x		x	xx	xx	xx	xx	x					
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

http://www.pac.dfo

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

Watchkeeper(s): HR

Bottom Depth: 198 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0132	1832
Bottom	0137	
End	0150	

Positional Information

Start Lat: 48° 29.32 N

Start Lon: 126° 07.03 W

Bottom Lat: 48° 29.31 N

Bottom Lon: 126° 07.03 W

End Lat: 48° 29.28 N

End Lon: 126° 07.06 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-20

Station:

LC06

Event #:

56

Ship:

Tully

UTC Date (dd|mmm|yyyy): 30 | May | 2015

Niskin # Firing # Sample #

Rosette Operation
Target Confirmed
Pressure √ Pressure

Samples Taken / Sampler's Initials
Oxy Sal-R Nut-Fr Nut-C CHL HPLC NH4 Gases
UBC

Comments

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

Bottom Depth: 93 m
Transmisso Cleaned: Y / N

Time UTC Local
Start 0349 2049
Bottom 0852
End 0400

Positional Information

Start
Lat: 48° 36.49 N
Lon: 125° 53.95 W

Bottom
Lat: 48° 36.49 N
Lon: 125° 53.95 W

End
Lat: 48° 36.47 N
Lon: 125° 53.99 W

Extra comments:

1		143	Bot-10	✓	84	x		x					xx						
2		144	75	✓	75	x		x					xx						
3		145	50	✓	49	x		x					xx						
4		146	30	✓	30	x		x					xx						
5		147	20	✓	20	x		x		xx		xx	xx						
6		148	10	✓	10	x		xx		xx		xx	xx						
7		149	5	✓	5	xx		x		xx	xx	xx	xx					Fluo:	
8																		Fluo: ~13.	
9																			
10																			
11																			
12																			
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22																			
23																			
24																			

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LC04 Event #: 59 Ship: Tully UTC Date (dd|mmm|yyyy): 30 | MAY | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials														Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	Uvic						
					MO		MR		RT JD	RI	MG	UBC	JD						
1	1	150	Bot-10	✓	159	x		x					xx						
2	2	151	150	✓	150	x		x					xx	x					
3	3	152	125	✓	125	x		x					xx						
4	4	153	100	✓	100	x		x					xx						
5	5	154	75	✓	75	x		x					xx						
6	6	155	50	✓	50	x		xx					xx	x					
7	7	156	30	✓	30	xx		x					xx						
8	8	157	20	✓	20	x		x		xx		xx	xx	x					
9	9	158	10	✓	10	x		x		xx		xx	xx	x					
10	10	159	5	✓		x		x		xx	xx	xx	xx	x					Fluo:
11																			Fluo:
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Version: 25 Nov 2011

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

Bottom Depth: 166 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0547	2247
Bottom	0551	
End	0601	

Positional Information

Lat:	48° 43.37	N
Lon:	125° 40.84	W

Bottom

Lat:	48° 43.36	N
Lon:	125° 40.85	W

End

Lat:	48° 43.42	N
Lon:	125° 40.87	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LC02 Event #: 61 Ship: Tully UTC Date (dd|mmm|yyyy): 30 | 05 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	DIC	phyto		
1	1	160	Bot-10	100.5	x		x					x x	x			
2	2	161	75	75	x x		x					x x	x x			
3	3	162	50	51	x		x					x x	x			
4	4	163	30	30	x		x					x x	x			
5	5	164	20	21	x		x x		x x		x x	x x	x			
6	6	165	10	10	x		x		x x		x x	x x	x			
7	7	166	5	5.5	x		x					x x	x			
8	8	167	5	5.5			x		x x	x x	x x			x		Fluo: 10
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): TF

Bottom Depth: 110 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0718	
Bottom	0720	
End	0728	

Positional Information
Start
Lat: 48 ° 48.673 N
Lon: 125 ° 30.868 W

Bottom
Lat: 48 ° 48.678 N
Lon: 125 ° 30.865 W

End
Lat: 48 ° 48.670 N
Lon: 125 ° 30.820 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LC01 Event #: 63 Ship: Tully UTC Date (dd|mmm|yyyy): 30 | 05 | 2015

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments						
			Target Pressure	Confirmed	Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	UVic								
				✓										UBC								
1	1	168	Bot-10		87	x		x					x x									
2	2	169	75		75	x		x x					x x									
3	3	170	50		51	x x		x					x x									
4	4	171	30		31	x		x					x x									
5	5	172	20		21	x		x		x x		x x	x x									
6	6	173	10		10	x		x		x x		x x	x x									
7	7	174	5		5	x		x		x x	x x	x x	x x					Fluo: 7				
8																						
9																						
10																						
11																						
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14																						
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16																						
17																						
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19																						
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21																						
22																						
23																						
24																						

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

Bottom Depth: 96 m
Transmisso Cleaned: Y / ☒ N

Time	UTC	Local
Start	0832	
Bottom	0834	
End	0841	

Positional Information

Lat:	48 °	50.390	N
Lon:	125 °	27.730	W

Start

Lat:	48 °	50.401	N
Lon:	125 °	27.722	W

Bottom

Lat:	48 °	50.401	N
Lon:	125 °	27.658	W

End

Extra comments:
CHL max @ ~25m
= ~18FSU

Not sampled - cancelled due to fishing gear + boats.

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LD01 Event #: Ship: Tully UTC Date (dd|mmm|yyyy):

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed <input checked="" type="checkbox"/> Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	UBC Gases					
1		175	Bot-10		x		x										
2		176	20		x		x		xx		xx						
3		177	10		xx		x		xx		xx						
4		178	5		x		xx		xx	xx	xx	xx					Fluo:
5																	
6																	
7																	
8																	
9																	
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17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Lat:	°	N
Lon:	°	W

▼

Lat:	°	N
Lon:	°	W

▼

Lat:	°	N
Lon:	°	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LD02 Event #: 65 Ship: Tully UTC Date (dd|mmm|yyyy): 30 | 05 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC	phyto		
1		179	Bot-10		x		x					xx			
21	1	175 180	30	31	x		x					xx			
32	2	176 181	20	20	xx		x		xx		xx	xx			
43	3	177 182	10	10	x		xx		xx		xx	xx			
54	4	178 183	5	5	x		x		xx	xx	xx	xx	x		Fluo: 9.5
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s):

Bottom Depth: 41 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1052	
Bottom	1054	
End	1058	

Positional Information

Start Lat: 48 ° 58.498 N

Start Lon: 125 ° 47.335 W

Bottom Lat: 48 ° 58.5 N

Bottom Lon: 125 ° 47.33 W

End Lat: 48 ° 58.506 N

End Lon: 125 ° 47.320 W

Extra comments:

~2 chains away from LD02 due to fishing boats @ station

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LD04 Event #: 68 Ship: Tully UTC Date (dd|mmm|yyyy): 30 | 05 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed <input checked="" type="checkbox"/> Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	UBC gases	UVic		
1	1	179	Bot-10		53	x		x					X		
2	2	180	30		30	x		x							
3	3	181	20		20	xx		x	xx		xx		X		
4	4	182	10		10	x		xx	xx		xx		X		
5	5	183	5		4.6	x		x	xx	xx	xx	xx	X		Fluo: 0.8
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
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19															
20															
21															
22															
23															
24															

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): TPBottom Depth: 61 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1235	
Bottom	1236	
End	1242	

Positional Information
Start
Lat: 48 ° 53.164 N
Lon: 125 ° 56.987 WBottom
Lat: 48 ° 53.164 N
Lon: 125 ° 56.988 WEnd
Lat: 48 ° 53.167 N
Lon: 125 ° 56.995 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-20

Station:

LD06

Event #:

71

Ship:

Tully

UTC Date (dd|mmm|yyyy): 30 | 05 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments		
			Target Pressure	Confirmed <input checked="" type="checkbox"/> Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	DIC	UBC gases	ct Sci				
1	1	184	Bot-10		126	x		x										
2	2	185	100		100	x		x x										
3	3	186	75		75	x		x										
4	4	187	50		50	x		x										
5	5	188	30		30	x		x							xx			
6	6	189	20		20	x		x		xx		xx			xx			
7	7	190	10		10	xx		x		xx		xx						Fluo: 11
8	8	191	5		5	x		x		xx	xx	xx		xx	xx			
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:

☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s):

TF

Bottom Depth: 135 m

Transmisso Cleaned: ☒ Y ☐ N

Time UTC Local

Start	1434	
Bottom	1437	
End	1446	

Positional Information

Start	Lat: 48 ° 46.216 N
	Lon: 126 ° 10.178 W

Bottom	Lat: 48 ° 46.207 N
	Lon: 126 ° 10.188 W

End	Lat: 48 ° 46.193 N
	Lon: 126 ° 10.180 W

Extra comments:

HPLC = 2 x 625ml
btl's.
(will start doing 4 btl's
@ 625ml every other
station)

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LD08 Event #: 73 Ship: Tully UTC Date (dd mmm/yyyy): 30 05 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	DIC	phyto	Gases UBC		
1	1	192	Bot-10	759	x		x	x								
2	2	193	750	747	x	x	xx	xx								
3	3	194	500	501	xx	x	x	x								
4	4	195	400	400	x		x	x								
5	5	196	300	300	x		x									
6	6	197	250	250	x		x									
7	7	198	200	200	x		x									
8	8	199	175	175	x		x									
9	9	200	150	149	x		x									
10	10	201	125	125	x		x									
11	11	202	100	100	x		x									
12	12	203	75	75	x		xx									
13	13	204	50	50	x		x									
14	14	205	30	31	xx		x									
15	15	206	20	20	x		x		xx		xx					
16	16	207	10	10	x		x		xx		xx					
17	17	208	5	4.8	x		x		xx	xx	xx		x	xx		Fluo: 4.5
18																bottom cap not seated properly #17
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 760 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	16 41	
Bottom	16 56	
End	17 23	

Positional Information
Start
Lat: 48 ° 39.193 N
Lon: 126 ° 23.308 W

Bottom
Lat: 48 ° 39.229 N
Lon: 126 ° 23.268 W

End
Lat: 48 ° 39.211 N
Lon: 126 ° 23.251 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LD11 Event #: 78 Ship: Tully UTC Date (dd|mmm|yyyy): 30 | MAY | 2015

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments						
			Target Pressure	Confirmed	Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	UBC								
				✓		RS/NR	RS	NR	NR	RS	RS	NR										
1	1	209	Bot-10	✓	1611	x		x	x													
2	2	210	1500	✓	1500	x	xx	x	x													
3	3	211	1250	✓	1250	xx	x	x	x													
4	4	212	1000	✓	1000	x	x	x	x													
5	5	213	750	✓	750	x	x	xx	xx													
6	6	214	500	✓	500	x		x	x													
7	7	215	400	✓	400	x		x	x													
8	8	216	300	✓	300	x		x														
9	9	217	250	✓	250	x		x														
10	10	218	200	✓	200	x		x														
11	11	219	175	✓	175	x		x														
12	12	220	150	✓	150	x		x														
13	13	221	125	✓	125	xx		x														
14	14	222	100	✓	100	x		x														
15	15	223	75	✓	75	x		xx														
16	16	224	50	✓	50	x		x														
17	17	225	30	✓	30	x		x														
18	18	226	20	✓	20	x		x		xx		xx										
19	19	227	10	✓	10	x		x		xx		xx										
20	20	228	5	✓	5	x		x		xx	xx	xx	xx					Fluo: 0.5				
21																						
22																						
23																						
24																						

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

Bottom Depth: 1576 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2141	1441
Bottom	2208	
End	2252	

Positional Information

Lat:	48 ° 28.80	N
Lon:	126 ° 42.95	W

▼

Lat:	48 ° 28.75	N
Lon:	126 ° 42.88	W

▼

Lat:	48 ° 28.65	N
Lon:	126 ° 42.99	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LG06 Event #: 87 Ship: Tully UTC Date (dd|mmm|yyyy): 31 | 05 | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓	Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	Phyto				
1	1	229	929 Bot-10		949	x		x	x									
2	2	230	750	✓		x		x x	x x									
3	3	231	500	✓		x x		x	x									
4	4	232	400	✓		x		x	x									
5	5	233	300		301	x		x										
6	6	234	250	✓		x		x										
7	7	235	200		201	x		x										
8	8	236	175	✓		x		x										
9	9	237	150	✓		x		x x										
10	10	238	125		126	x		x										
11	11	239	100		101	x		x										
12	12	240	75	✓		x		x										
13	13	241	50		49	x		x										
14	14	242	30	✓		x x		x										
15	15	243	20	✓		x		x		x x		x x						
16	16	244	10		11	x		x		x x		x x						
17	17	245	5	✓		x		x		x x	x x	x x	xx	xxx			Fluo:	
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Watchkeeper(s): TF

Bottom Depth: 939 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1435	
Bottom	1451	
End		

Positional Information

Lat: 49 ° 03.366 N

Lon: 127 ° 01.051 W

Lat: 49 ° 03.360 N

Lon: 127 ° 01.027 W

Lat: 49 ° 03 N

Lon: 127 ° 01 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LG04 Event #: 89 Ship: Tully UTC Date (dd/mm/yyyy): 31/05/2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4				
1	1	246	Bot-10		138	x		x							
2	2	247	125	✓		x		x							
3	3	248	100	✓		x x		x x							
4	4	249	75	✓	74	x		x							
5	5	250	50	✓		x		x							
6	6	251	30		31	x		x							
7	7	252	20		19	x		x	x x		x x				
8	8	253	10	✓		x		x	x x		x x				
9	9	254	5	✓		x		x	x x	x x	x x				Fluo: 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): TF

Bottom Depth: 144/289 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1711	
Bottom	1715	
End	1725	

Positional Information
Start
Lat: 49 ° 11.401 N
Lon: 126 ° 49.411 W

Bottom
Lat: 49 ° 11.402 N
Lon: 126 ° 49.430 W

End
Lat: 49 ° 11.399 N
Lon: 126 ° 49.411 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LG02 Event #: 92 Ship: Tully UTC Date (dd/mmm/yyyy): 31 May 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	Phyto	Cit	UVIC		
1	1	255	Bot-10		93	x		x				x x			✓		
2	2	256	75	✓	75	x		x				x x					
3	3	257	50	✓	50	x x		x x				x x			✓		
4	4	258	30	✓	30	x		x				x x					
5	5	259	20	✓	20	x		x		x x		x x		x x	✓		
6	6	260	10	✓	10	x		x		x x		x x		x x	✓		
7	7	261	5	✓	5	x		x		x x	x x	x x	x x x	x x	✓		Fluo: 8.4
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): MRBottom Depth: 101 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1912	1212
Bottom	1915	
End	1923	

Positional Information
Start
Lat: 49° 18.61 N
Lon: 126° 38.18 WBottom
Lat: 49° 18.60 N
Lon: 126° 38.17 WEnd
Lat: 49° 18.61 N
Lon: 126° 38.18 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LG01 Event #: 94 Ship: Tully UTC Date (dd:mmm/yyyy): 31 MAY 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target	Confirmed	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	RI Gases					
			Pressure	✓ Pressure	KS/NP							MR	UBC				
1	1	262	Bot-10	✓	46	x		x									
2	2	263	30	✓	30	x		x									
3	3	264	20	✓	20	xx		xx		xx		xx					
4	4	265	10	✓	10	x		x		xx		xx					
5	5	266	5	✓	5	x		x		xx	xx	xx	xx				Fluo: 7.7
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: 56 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2006	1306
Bottom	2008	
End	2013	

Positional Information
Start
Lat: 49° 20.44 N
Lon: 126° 35.07 W

Bottom
Lat: 49° 20.44 N
Lon: 126° 35.07 W

End
Lat: 49° 20.43 N
Lon: 126° 35.09 W

Extra comments:

Water Properties Group

Rosette Log

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

Cruise ID: 2015-20 Station: LJ02 Event #: 99 Ship: TULLY UTC Date (dd|mmm|yyyy): 01|JUN|2015

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed <input checked="" type="checkbox"/> Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPIC			
1	267			5	<input checked="" type="checkbox"/>		X		XX		XX			
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): N2

Bottom Depth: 81 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0015	1715
Bottom	0017	
End	0020	

Positional Information		
Start	Lat: 49 ° 42.65	N
	Lon: 127 ° 5.18	W
▼		
Bottom	Lat: 49 ° 42.64	N
	Lon: 127 ° 5.17	W
▼		
End	Lat: 49 ° 42.64	N
	Lon: 127 ° 05.17	W

Oxygen Info For This Cast
Blank Value: _____ mL • L⁻¹
Std Value: _____ mL • L⁻¹
*Date Run: ____|____|____
Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2015-20 Station: LJOS Event #: 104 Ship: TULLY UTC Date (dd|mmm|yyyy): 01 | Jun | 2015

Niskin #	Sample #	Oxygen Titrations		Rosette Operation			Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed <input checked="" type="checkbox"/>	Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPIC					
1	268			5	<input checked="" type="checkbox"/>	5		X		XX		XX					
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): MR

Bottom Depth: 1055 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0302	2002
Bottom	0321	
End	0338	

Positional Information
Start
Lat: 49° 31.68 N
Lon: 127° 22.37 W

Bottom
Lat: 49° 31.70 N
Lon: 127° 22.32 W

End
Lat: 49° 31.70 N
Lon: 127° 22.35 W

Oxygen Info For This Cast
Blank Value: _____ mL · L⁻¹
Std Value: _____ mL · L⁻¹
*Date Run: ____ | ____ | ____
Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2015-20 Station: LJ08 Event #: 109 Ship: TULLY UTC Date (dd|mmm|yyyy): 01 | June | 2015

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments		
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed <input checked="" type="checkbox"/> Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HAC					
1	269			5	<input checked="" type="checkbox"/>		X		XX		XY					F110 @ 6 FSU @ 5m
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): TP

Bottom Depth: 1214 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0753	1253
Bottom	0822	0122
End	0850	0150

Positional Information

Lat:	49 ° 20.114	N
Lon:	127 ° 40.894	W

Bottom

Lat:	49 ° 20.100	N
Lon:	127 ° 40.942	W

End

Lat:	49 ° 20.147	N
Lon:	127 ° 40.829	W

Oxygen Info For This Cast

Blank Value:		mL · L ⁻¹
Std Value:		mL · L ⁻¹
*Date Run:		
Analyst:		

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LBP7 Event #: 115 Ship: Tully UTC Date (dd|mmm|yyyy): 01|JUN|2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	phyto	RT Gases	UBC				
1	1	270	2000	✓ 2001	x	x	x	x										
2	2	271	1500	✓ 1500	xx	xx	x	x										
3	3	272	1250	✓ 1250	x	x	xx	xx										
4	4	273	1000	✓ 1000	x	x	x	x										
5	5	274	750	✓ 750	x	x	x	x										
6	6	275	500	✓ 500	x	x	x	x										
7	7	276	400	✓ 400	x	x	x	x										
8	8	277	300	✓ 300	x		x											
9	9	278	250	✓ 250	x		x											
10	10	279	200	✓ 200	x		x											
11	11	280	175	✓ 175	x		x											
12	12	281	150	✓ 150	x		x											
13	13	282	125	✓ 124	x		xx											
14	14	283	100	✓ 100	x		x											
15	15	284	75	✓ 75	x		x											
16	16	285	50	✓ 50	x		x											
17	17	286	30	✓ 31	x		x											
18	18	287	20	✓ 20	x		x		xx		xx							
19	19	288	10	✓ 10	x		x		xx		xx							
20	20	289	5	✓ 5	x		x		xx	xx	xx	xxx	xx					
21																		
22																		
23																		
24																		

Profile type:
<input checked="" type="checkbox"/> ROS <input type="checkbox"/> TRM <input type="checkbox"/> X-Niskin <input type="checkbox"/> other?
Watchkeeper(s): MR

Bottom Depth:	2185	m
Transmisso Cleaned:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

Time	UTC	Local
Start	2005	1305
Bottom	2039	
End	2130	

Positional Information		
Lat:	49° 52.34	N
Lon:	128° 11.15	W

Start

Lat:	49° 52.33	N
Lon:	128° 11.13	W

Bottom

Lat:	49° 52.35	N
Lon:	128° 11.17	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LBP5 Event #: 118 Ship: Tully UTC Date (dd|mmm|yyyy): 1/2 06 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments						
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases									
1		290	Bot-10	✓	1280	x		x	x												
2		291	1250	✓		x	x x	x	x												
3		292	1000	✓		x	x	x	x												
4		293	750	✓		x x	x	x	x												
5		294	500	✓		x	x	x x	x x												
6		295	400	✓		x		x	x												
7		296	300	✓		x		x													
8		297	250	✓		x		x													
9		298	200	✓		x		x													
10		299	175	✓		x		x													
11		300	150	✓		x		x													
12		301	125	✓		x x		x													
13		302	100	✓		x		x x													
14		303	75	✓		x		x													
15		304	50	✓		x		x													
16		305	30	✓		x		x													
17		306	20	✓		x		x		xx		xx									
18		307	10	✓		xx		x		x x		x x									
19		308	5	✓		x		x		x x	xx	x x	xx								
20																					
21																					
22																					
23																					
24																					

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

Bottom Depth: 1275 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2356	1656
Bottom	0018	1718
End	0058	

Positional Information

Lat:	49 ° 59.95	N
Lon:	128 ° 0.24	W

▼

Lat:	49 ° 59.97	N
Lon:	128 ° 0.13	W

▼

Lat:	49 ° 59.95	N
Lon:	128 ° 00.02	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: LBP3 Event #: 121 Ship: Tully UTC Date (dd|mmm|yyyy): 02 JUN 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	phyto	Gases	UBC				
1	1	309	Bot-10	✓ 158	x		x						x x					
2	2	310	150	✓ 150	x		x						x x	✓				
3	3	311	125	✓ 125	x x		x						x x					
4	4	312	100	✓ 100	x		x						x x					
5	5	313	75	✓ 75	x		x						x x	✓				
6	6	314	50	✓ 50	x		x						x x	✓				
7	7	315	30	✓ 30	x		xx						x x					
8	8	316	20	✓ 20	x		x		xx		xx		x x	✓				
9	9	317	10	✓ 10	x		x		x x		x x		x x	✓				
10	10	318	5	✓ 5	x		x		x x	xx	x x	xxx	x x	✓				
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: 165 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0329	20
Bottom	0332	
End	0343	

Positional Information
Start
Lat: 50° 03.23 N
Lon: 127° 55.34 W

Bottom
Lat: 50° 03.22 N
Lon: 127° 55.34 W

End
Lat: 50° 03.23 N
Lon: 127° 55.34 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: ~~2013-38~~ ²⁰¹⁵⁻²⁰ Station: CS00 Event #: 134 Ship: Tully UTC Date (dd|mmm|yyyy): 02 | June | 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Phyto	Gase					
					RS/WR	RS	MR	MR	RS	MP	MR	MR	UBC					
1	1	319	2000	✓ 2000	x	x	x	x										
2	2	320	1500	✓ 1500	x	xx	x	x										
3	3	321	1250	✓ 1250	x	x	x	x										
4	4	322	1000	✓ 1000	x	x	x	x										
5	5	323	750	✓ 750	xx	x	x	x										
6	6	324	500	✓ 500	x	x	x	x										
7	7	325	400	✓ 400	x	x	xx	xx										
8	8	326	300	✓ 300	x	x	x											
9	9	327	250	✓ 250	x	x	x											
10	10	328	200	✓ 200	x	x	x											
11	11	329	175	✓ 175	x	x	x											
12	12	330	150	✓ 150	x	x	x											
13	13	331	125	✓ 125	xx	x	x											
14	14	332	100	✓ 100	x	x	x											
15	15	333	75	✓ 75	x	x	x											
16	16	334	50	✓ 49	x	x	xx											
17	17	335	30	✓ 30	x	x	x											
18	18	336	20	✓	x	x	x		xx		xx							
19	19	337	10	✓	xx	x	x		xx		xx							
20	20	338	5	✓	x	x	x		xx	xx	xx	xxx	xx				Fluo:	
21																		
22																		
23																		
24																		

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

Bottom Depth:	2170 m
Transmisso Cleaned:	(Y) L N

Time	UTC	Local
Start	2006	1306
Bottom	2039	
End	2133	

Positional Information		
Lat:	50° 27.83	N
Lon:	129° 55.10	W

Lat:	50° 27.76	N
Lon:	129° 55.10	W

Lat:	50° 27.70	N
Lon:	129° 55.08	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: CS02 Event #: 140 Ship: Tully UTC Date (dd:mmm/yyyy): 03 JUN 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	UBC						
1		339	Bot-10	✓	1909	x		x	x										
2		340	1500	✓	1500	x	xx	xx	xx										
3		341	1250	✓	1250	x	x	x	x										
4		342	1000	✓	1000	x	x	x	x										
5		343	750	✓	750	xx	x	x	x										
6		344	500	✓	500	x	x	x	x										Back to 530 b/o spool
7		345	400	✓	400	x		x											
8		346	300	✓	300	x		x											
9		347	250	✓	250	x		x						✓					
10		348	200	✓	200	x		xx											
11		349	175	✓	175	x		x											
12		350	150	✓	150	xx		x						✓					
13		351	125	✓	125	x		x											
14		352	100	✓	100	x		x											
15		353	75	✓	75	x		x											
16		354	50	✓	50	x		x						✓					
17		355	30	✓	30	x		x											
18		356	20	✓	20	x		x		xx		xx		✓					
19		357	10	✓	10	x		x		xx		xx		✓					
20		358	5	✓	5	x		x		xx	xx	xx	xx	✓					Fluo: ~3.6
21																			
22																			
23																			
24																			

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

Bottom Depth: 1893 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0440	2140
Bottom	0511	
End	0604	

Positional Information

Lat:	50° 41.32	N
Lon:	129° 28.01	W

Start

Bottom

End

Lat: 50° 41.34 N
Lon: 129° 28.11 W

Lat: 50° 41.20 N
Lon: 129° 28.21 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-20

Station:

CS04

Event #:

144

Ship:

Tully

UTC Date (dd mmm yyyy): 03 06 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases UBC			
1	1	359	Bot-10		88	x		x							
2	2	360	75	✓		x		x							
3	3	361	50	✓		x		x							
4	4	362	30	✓		xx		x							
5	5	363	20		19.4	x		x	xx		xx				
6	6	364	10		9.5	x		x	xx		xx				
7	7	365	5		5.7	x		xx	xx	xx	xx	xx			
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):

TF

Bottom Depth:

97 m

Transmisso Cleaned:

☒ Y ☐ N

Time

UTC

Local

Start

0827

01:27

Bottom

0829

01:29

End

08

01:35

Positional Information

Lat:

50 ° 49.223

N

Lon:

129 ° 12.990

W

Start

Bottom

Lat:

50 ° 49.217

N

Lon:

129 ° 12.964

W

End

Lat:

50 ° 49.226

N

Lon:

129 ° 12.967

W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-20

Station:

CS06

Event #: 157

Ship: Tully

UTC Date (dd mmm yyyy): 4 JUN 2015

Cruise ID: 2015-20			Station: CS06		Event #: 151		Smp. 151		Veny		Comments									
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials															
			Target Pressure	Confirmed Pressure	Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	Phyto							
				✓																
1	1	366	Bot-10	✓	50	x		xx												
2	2	367	50	✓		xx		x												
3	3	368	30	✓		x		x												
4	4	369	20	✓		x		x		xx		xx								
5	5	370	10	✓		x		x		xx		xx								
6	6	371	5	✓		x		x		xx	xx	xx	xx	x					Fluo: 17	
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

do not use Ammonia products

<http://www.p>

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

Watchkeeper(s): MR

Bottom Depth: 65 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0001	1701
Bottom	0004	
End	0011	

Positional Information

Start Lat: 50° 59.97 N

Start Lon: 128° 51.86 W

Bottom Lat: 50° 59.97 N

Bottom Lon: 128° 51.85 W

End Lat: 50° 59.89 N

End Lon: 128° 51.96 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-20 Station: CS09 Event #: 163 Ship: Tully UTC Date (dd|mmm|yyyy): 04|JUN|2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure		Oxy	Sal-R	Nut-Fr	Nut-C	CHL	HPLC	NH4	Gases	JD				
						KS/NL		KS/RT		RI	NL	MR	UBC	UVIC				
1	1	372	Bot-10	✓	185	x		x						X				
2	2	373	175	✓		x		x										
3	3	374	150	✓		x		x						X				
4	4	375	125	✓		x		xx										
5	5	376	100	✓		x		x										
6	6	377	75	✓		x		x										
7	7	378	50	✓		xx		x						X				
8	8	379	30	✓		x		x										
9	9	380	20	✓		x		x		xx		xx		X				
10	10	381	10	✓		x		x		xx		xx		X				
11	11	382	5	✓		x		x		xx	xx	xx	xx	X			0.8	
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: 193 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0351	2051
Bottom	0355	
End	0406	

Positional Information

Lat:	51° 12' 41"	N
Lon:	128° 27' 95"	W

▼

Lat:	51° 12' 41"	N
Lon:	128° 27' 96"	W

▼

Lat:	51° 12' 41"	N
Lon:	128° 28' 02"	W

Extra comments:

Water Properties Group

Rosette Log

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

Cruise ID: 2015-20 Station: SS3 Event #: 167 Ship: TULLY UTC Date (dd|mmm|yyyy): 04 | Jun | 2015

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed <input checked="" type="checkbox"/> Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HAC	UAC	gave	
2?	①	383		5			X		XX		XX	XX		fluo@5m ≈ 1.5
	2													
	3													
	4													
	5													
	6													
	7													
	8													
	9													
	10													
	11													
	12													
	13													
	14													
	15													
	16													
	17													
	18													
	19													
	20													
	21													
	22													
	23													
	24													

Watchkeeper(s): TF

Bottom Depth: 291 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0932	0232
Bottom	0937	0237
End	0944	0244

Positional Information
Start
Lat: 51 ° 15.001 N
Lon: 129 ° 21.234 W

Bottom
Lat: 51 ° 14.990 N
Lon: 129 ° 21.232 W

End
Lat: 51 ° 14.996 N
Lon: 129 ° 21.229 W

Oxygen Info For This Cast
Blank Value: _____ mL · L⁻¹
Std Value: _____ mL · L⁻¹
*Date Run: ____ | ____ | ____
Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

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

Cruise ID: 2015-20 Station: 354 Event #: 170 Ship: TULLY UTC Date (dd|mmm|yyyy): 04 | June | 2015

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed <input checked="" type="checkbox"/> Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HAC			
1	384			5			X		xx		xx			
2														
3														
4														
5														
6														
7														
8														
9														
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19														
20														
21														
22														
23														
24														

Watchkeeper(s): TK

Bottom Depth: 240 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1141	0441
Bottom	1145	0445
End	1151	0451

Positional Information
Start
Lat: 51 ° 20.962 N
Lon: 129 ° 00.061 W

Bottom
Lat: 51 ° 20.960 N
Lon: 129 ° 00.070 W

End
Lat: 51 ° 20.930 N
Lon: 129 ° 00.102 W

Oxygen Info For This Cast
Blank Value: _____ mL · L⁻¹
Std Value: _____ mL · L⁻¹
*Date Run: ____ | ____ | ____
Analyst: _____

* Oxygen blanks and standards should be run daily, if possible