

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: Haro 59 Event #: 2 Ship: Tully UTC Date (dd mmm yyyy): 20 Aug 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure			Nd	Plastics							
1	1	1	Bot-10	✓	221			x							
2	2	2	Bot-10	✓	221				x						
3	3	3	100	✓	100				x						
4	4	4	5	✓	5				x						
5	5	5	5	✓	5			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): MR/SP

Bottom Depth:	231	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	0123	1823
Bottom	0130	
End	0139	

Start	Positional Information	
	Lat: 48° 36.89	N
Bottom	Lon: 123° 14.87	W
	▼	
End	Lat: 48° 36.98	N
	Lon: 123° 14.89	W
	▼	
	Lat: 48° 37.13	N
	Lon: 123° 14.98	W

Extra comments:
Aram's and plastics cast

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

JF2

Event #:

4

Ship:

Tully

UTC Date (dd:mmm:yyyy):

20 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed ✓ Pressure	HPLC	Chl	Nuts	Nd								
1	1	6	Bot-10	✓ 178				x								
2	2	7	100	✓ 100				x								
3	3	8	30	✓ 30	xx	xx	x									
4	4	9	5	5.3	xx	xx	x									
5	5	10	5	5.3				x								
6	6	11	5					x								not needed.
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): SP

Bottom Depth: 186 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0640	2340
Bottom	0645	2345
End	0654	2354

Positional Information

Start	Lat: 48 ° 18.110 N
	Lon: 124 ° 0.770 W

Bottom	Lat: 48 ° 18.090 N
	Lon: 124 ° 0.87 W

End	Lat: 48 ° 18.040 N
	Lon: 124 ° 1.120 W

Extra comments:

Aram's and HPLC cast

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-10

Station: 2801

Event #: 7

Vessel: TULLY

UTC Date (dd|mmm|yyyy): 20 | 8 | 15

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	HPD									
1		12	0			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 (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
H.M / L.T.

Bottom Depth: 36 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>12:55</u>	:
Bottom (BO)	<u>12:56</u>	:
End (EN)	<u>12:57</u>	:

Positional Information

Lat:	<u>48</u> ° <u>40</u> . <u>37</u> N
Lon:	<u>124</u> ° <u>59</u> . <u>40</u> W

▼

Lat:	<u>48</u> ° <u>40</u> . <u>37</u> N
Lon:	<u>124</u> ° <u>59</u> . <u>39</u> W

▼

Lat:	<u>48</u> ° <u>40</u> . <u>38</u> N
Lon:	<u>124</u> ° <u>59</u> . <u>38</u> W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-10 Station: L308 Event #: 11 Vessel: TULLY UTC Date (dd|mmm|yyyy): 20 | 8 | 15

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	HPGC	Phylo	DNA						
1		13	Bot-10														✓
2		14	5														✓
3		15	0			x		xx	xx	x	xx						
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
MG / H.M. / N.

Bottom Depth: 135 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	17:04	10:04
Bottom (BO)	17:07	:
End (EN)	17:11	:

Positional Information

Lat:	48 ° 25 . 20	N
Lon:	125 ° 28 . 65	W

▼

Lat:	48 ° 25 . 20	N
Lon:	125 ° 28 . 66	W

▼

Lat:	48 ° 25 . 20	N
Lon:	125 ° 28 . 67	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-10

Station: LC04

Event #: 13

Vessel: TULLY

UTC Date (dd|mmm|yyyy): 20 | AUG | 2015

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy.	Nut	Sal	Chl a										
1		16	Bot-10	✓ 157				✓										
2		17	5	✓ 5				✓										
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 (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SP

Bottom Depth: 165 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>20:10</u>	<u>13:10</u>
Bottom (BO)	<u>20:13</u>	<u>13:13</u>
End (EN)	<u>20:18</u>	<u>13:18</u>

Positional Information

Lat:	<u>48° 43.42</u>	N
Lon:	<u>125° 40.760</u>	W

▼

Lat:	<u>48° 43.41</u>	N
Lon:	<u>125° 40.76</u>	W

▼

Lat:	<u>48° 43.41</u>	N
Lon:	<u>125° 40.76</u>	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-10

Station: 2C01

Event #: 15

Vessel: TULLY

UTC Date (dd|mmm|yyyy): 20 | Aug | 2015

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	PAR								
1		18	0	✓ 2.4		✓		✓✓	✓✓								
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 (default) ☐ TrMetlRos ☐ X-Niskin
 Watchkeeper(s):
SP

Bottom Depth: 87 m
 Transmisso Cleaned: ☒ Y ☐ N
 Fluorometer Cleaned: ☐ Y ☐ N

Time	UTC	Local
Start (BE)	22:27	15:27
Bottom (BO)	22:30	15:30
End (EN)	22:33	15:33

Positional Information

Start
 Lat: 48° 50.71 N
 Lon: 125° 27.71 W

▼

Bottom
 Lat: 48° 50.48 N
 Lon: 125° 27.70 W

▼

Finish
 Lat: 48° 50.48 N
 Lon: 125° 27.69 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P1 Event #: 16 Ship: Tully UTC Date (dd mmm yyyy): 21 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	DIC	Oxy	pH	Nd						
1	1	19	Bot-10	✓	102	x				xx	xx	xxx						
2	4	20	(30) Max	✓	30	x		xx	xx	x	x	x						
3	6	21	5	✓	5	x	x	xx	xx	x	x	x						
4	2	22	Bot-10	✓	102								x					
5	3	23	50	✓	50								x					
6	7	24	3	✓	3								x					
7	5	25	8	✓	8								x					
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): SP

Bottom Depth: 112 m

Transmissio Cleaned: Y / N

Time	UTC	Local
Start	02:30	19:30
Bottom	02:32	09:32
End	02:42	02

Positional Information
Start
Lat: 48 ° 34 510 N
Lon: 125 ° 29 890 WBottom
Lat: 48 ° 34 510 N
Lon: 125 ° 29 870 WEnd
Lat: 48 ° 34 510 N
Lon: 125 ° 29 860 WExtra comments:
IOS + Aram
OUT-OF-ORDER
1-4-5-2-7-3-6

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10

Station: P2

Event #: 18

Ship: Tully

UTC Date (dd mmm yyyy): 21 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC		NH4						
				✓		MR	MB	MB	MR	MB	MB	Niko						
1		26	100	✓	100	x	x	x	xx	x		x						
2		27	75	✓	75	x			x	x		x						
3		28	50	✓	50	x			x	x		x						
4		29	40	✓	40	x			x	x								
5		30	30	✓	30	x			x	x								
6		31	25	✓	25	x			x	xx		x						
7		32	20	✓	20	xx	xx	xx	x	x								
8		33	15	✓	15	x			x	x								
9		34	10	✓	10	x			x	x		x						
10		35	5	✓	5	x	x	x	x	x		x						
11		36	0	✓	2.9	x	x	x	x	x								
12		37	(30 pr M)	✓	30				xx	xx								
13		38	(15 pr M)	✓	15				xx	xx								
14		39	5	✓	5				xx	xx								
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 116 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0532	2232
Bottom	0535	2235
End	0547	2247

Positional Information

Lat:	48 ° 35.92	N
Lon:	126 ° 0.0	W

Start

Bottom

End

Lat: 48 ° 35.90 N
Lon: 126 ° 0.1 W

Lat: 48 ° 35.86 N
Lon: 126 ° 0.2 W

Extra comments:
DMS cast; out-of-order
1-2-3-4-5-12
6-7-8-13-9
10-14-11

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P2 Event #: 21 Ship: Tully UTC Date (dd mmm yyyy): 21 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials								Comments					
			Target	Confirmed	Pressure	Oxy	Nut-F	Nut-C	Sal	DIC	pH								
			Pressure	✓		HM/MG	AM		HM	KS/RN	GH								
1	1	40	Bot-10	✓	105	x	x			x	x								
2	2	41	100	✓	100	x	x			x	x								
3	3	42	75	✓	75	x	x			x x	x								
4	4	43	75	✓	75	x x	x			x	x								
5	5	44	50	✓	50	x	x			x	x x x								
6	6	45	25	✓	25	x	x x			x	x								
7	7	46	10	✓	10	x	x			x	x								
8	8	47	5	✓	5	x	x		x	x	x								
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 116 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0628	1128
Bottom	0631	1131
End	0640	1140

Positional Information

Lat:	48 °	35.8	N
Lon:	126 °	0.72	W

▼

Lat:	48 °	35.77	N
Lon:	126 °	0.8	W

▼

Lat:	48 °	35.73	N
Lon:	126 °	0.98	W

Extra comments:

Deep cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P3 Event #: 22 Ship: Tully UTC Date (dd mmm/yyyy): 21 0 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC		Nd							
1	1	48	Bot-10		811												σ _t = 27.21
2	2	49	150														σ _t = 26.52
3	3	50	50														σ _t = 25.69
4	6	51	5		30												} Closed @ wrong depth
5	4	52	30 / Max		5	x		x x	x x								
6	5	53	5			x	x	x 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): H.M.

Bottom Depth:	821	m
Transmisso Cleaned:	☒ Y / ☐ N	

Time	UTC	Local
Start	0849	0149
Bottom	0906	
End	0925	

Start	Positional Information		
	Lat:	48 ° 37.53	N
	Lon:	126 ° 19.95	W

Bottom	Lat:	48 ° 37.50	N
	Lon:	126 ° 20.02	W

End	Lat:	48 ° 37.50	N
	Lon:	126 ° 20.01	W

Extra comments:
IOS & Aram
OUT-OF-ORDER

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P4 Event #: 23 Ship: Tully UTC Date (dd mmm yyyy): 2 9 15

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials													Comments
			Target	Confirmed			Cs												
			Pressure	✓	Pressure														
1		54	150				x												
2		55	150				x												
3		56	150				x												
4		57	150				x												
5		58	150				x												
6		59	150				x												
7		60	150 100				x												
8		61	100				x												
9		62	100				x												
10		63	100				x												
11		64	100				x												
12		65	100				x												
13		66	50				x												
14		67	50				x												
15		68	50				x												
16		69	50				x												
17		70	50				x												
18		71	50				x												
19		72	0				x												
20		73	0				x												
21		74	0				x												
22		75	0				x												
23		76	0				x												
24		77	0				x												

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

Bottom Depth:	1313	m
Transmisso Cleaned:	☒ Y / ☐ N	

Time	UTC	Local
Start	1140	0440
Bottom	1143	
End	1152	

Positional Information		
Start	Lat: 48 ° 38.99	N
	Lon: 126 ° 39.96	W

Bottom	Lat: 48 ° 38.97	N
	Lon: 126 ° 39.99	W

End	Lat: 48 ° 39.00	N
	Lon: 126 ° 39.99	W

Extra comments:
Shallow Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P4 Event #: 27 Ship: Tully UTC Date (dd|mmm|yyyy): 21 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	Nut-F IOS	Sal IOS	Chl IOS	18O	NO3	NH4 incub	17O	ONAr	DO	NH4		
1		78	Below ML	23		x					xx					
2		79	1%	19	x	x	x	xxx	xx	x			xx	xx		
3		80	15%	9	x	x	x	xxx	xx	x			xx	xx		
4		81	30%	6	x	x	x	xxx	x	x			xx	xx		
5		82	50%	5	x	x	x	xxx	x	x			xx	xx		
6		83	100%	2.5	x		x		xxx	xxx				xx		
7		84	100%	2.5				xxx			xx	xx	xx			
8		85	in ML	SURF								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): HM

Bottom Depth: 1312 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1230	0530
Bottom	1232	
End	1239	

Positional Information

Start	Lat: 48° 38.99	N
	Lon: 126° 39.97	W

Bottom

Lat: 48° 38.99	N
Lon: 126° 39.98	W

End

Lat: 48° 38.99	N
Lon: 126° 39.98	W

Extra comments:

Lianna's cast

~~OUT-OF-ORDER~~

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P4 Event #: 25 Ship: Tully UTC Date (dd mmm yyyy): 21 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments				
			Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Fe	Fe									
							filt	unfilt									
1		86	35			X	X	x x	x x								Kink Tube
2		87	25					x	x								Poor flow
3		88	10					x	x								
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type: PUMP
ROS TRM X-Niskin other?
Watchkeeper(s): K.S. HM.

Bottom Depth: 1313 m
Transmisso Cleaned: Y T N

Time	UTC	Local
Start	<u>1350</u>	
Bottom		
End	<u>15105</u>	

Positional Information

Start	Lat: <u>48 ° 39.03</u>	<u>N</u>
	Lon: <u>126 ° 39.95</u>	<u>W</u>

Bottom

Lat: °	<u>N</u>
Lon: °	<u>W</u>

End

Lat: <u>48 ° 39.98</u>	<u>N</u>
Lon: <u>126 ° 39.99</u>	<u>W</u>

Extra comments:
TM pumping
REPLACE HOSE
10m of Kinks
Removed. K.S.

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P4 Event #: 26 Ship: Tully UTC Date (dd mmm/yyyy): 21 8 15

			Rosette Operation		Samples Taken / Sampler's Initials												Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed														
				✓ Pressure	Niko													
					gases													
1		89	250	✓			x x											
2		90	200	✓			x x											
3		91	175	✓			x x											
4		92	150	✓			x x											
5		93	115	✓			x x											
6		94	95	✓			x x											
7		95	80	✓			x x											
8		96	70	✓			x x											
9		97	185	✓			x x											
10		98	60	✓			x x											
11		99	55	✓			x x											
12		100	50	✓			x x											
13		101	45	✓			x x											
14		102	40	✓			x x											
15		103	40	✓			x x											
16		104	35	✓			x x											
17		105	30	✓			x x											
18		106	25	✓			x x											
19		107	20	✓			x x											
20		108	15	✓			x x											
21		109	10	✓			x x											
22		110	5	✓			x x											
23		111	2	✓	2.4		x x											
24		112	2	✓	2.4		x x											

Version: 25 Nov 2014

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

Bottom Depth: 1313 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1511	0811
Bottom	1517	
End	1542	

Positional Information

Start	Lat: 48 ° 39 98 N
	Lon: 126 ° 39 99 W
Bottom	Lat: 48 ° 38 99 N
	Lon: 126 ° 39 99 W
End	Lat: 48 ° 38.98 N
	Lon: 126 ° 40.02 W

Extra comments:
Niko's cast

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P4

Event #: 28

Ship: Tully

UTC Date (dd mmm yyyy): 21 0 15

Cruise ID: 2015-10			Station: P4		Event #: 20		Ship: Sully		Comments										
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	Oxy	Nut-F	Nut-C	Sal	DIC	pH		DNA	gases	SAGs		NH4	DCF	H2S	
				✓		Ammonia	SP	SP	SP	Kbr	GC			Niko		Celine	Niko	Niko	
1		113	Bot-10		1321	x	x	x		x	x		x	xx	x	x	x	x	
2		114	1250	✓		x	x	x	x	xx	x		x	xx	x	x			
3		115	1250	✓		xx	x	x	xx	x	x						x		
4		116	1000	✓		x	x	x	xx	x	x		x	xx	x	x	x	x	
5		117	800	✓		x	x	x	x	x	x		x	xx	x	x	x		
6		118	600	✓		x	xx	xx		x	x		x	xx	x	x	x	x	
7		119	400	✓		x	x	x		x	x		x	xx	x	x	x		
8		120	300	✓		x	x			x	x		x	xx	x	x	x		
9		121	250	✓		x	x			x	xxx			xx		x	x		
10		122	200	✓		x	x			x	x		x	xx	x	x	x		
11		123	175	✓		x	x			x	x			xx		x	x		
12		124	150	✓		x	x			x	x		x	xx	x	x	x		
13		125	125	✓		x	xx			x	x					x	x		
14		126	100	✓		x	x			x	x		x	xx	x	x	x		
15		127	75	✓		xx	x			x	x			xx		x	x		
16		128	50	✓		x	x			x	x		x	xx	x	x	x		
17		129	25	✓		x	x			x	x		x	xx	x	x	x		
18		130	10	✓		x	x			x	x		x	xx	x	x	x		
19		131	5	✓		x	x		x	x	xxx					x	x		
20																			
21																			
22																			
23																			
24																			

http://www.p...

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): H.M.

Bottom Depth: 1310 m

Transmisso Cleaned: Y / N

Time UTC Local

Start	1709	10 09
Bottom	1732	
End	1814	

Positional Information

Lat:	48 ° 39.00	N
Lon:	126 ° 39.94	W

Lat:	48 ° 38.99	N
Lon:	126 ° 40.00	W

Lat:	48 ° 38.99	N
Lon:	126 ° 39.99	W

Extra comments:

Deep cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P4 Event #: 30 Ship: Tully UTC Date (dd mmm yyyy): 21 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	UBC										
1	1	132	Bot-10	✓ 1322	x										
2	2	133	Bot-10	✓ 1322											
3	3	134	Bot-10	✓ 1322											
4	4	135	Bot-10	✓ 1322											
5	6	136	1000	✓ 999	x										
6	7	137	1000	✓ 999											
7	8	138	1000	✓ 999											
8	9	139	1000	✓ 999											
9	13	140	500	✓ 500	x										
10	14	141	500	✓ 500											
11	15	142	500	✓ 500											
12	16	143	500	✓ 500											
13		144	10	✓ 10	x										
14		145	10	✓ 10											
15		146	10	✓ 10											
16		147	10	✓ 10											
17	5	148	Bot-10	✓ 1322				✓							
18	10	149	1000	✓ 999				✓							
19	11	150	800	✓ 800				✓							
20	12	151	600	✓ 600				✓							
21	17	152	400	✓ 400				✓							
22	18	153	300	✓ 300				✓							
23	19	154	200	✓ 200				✓							
24															

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

Watchkeeper(s): SP

Bottom Depth: 1323 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	20:50	13:50
Bottom	21:13	14:13
End	21:49	14:49

Positional Information

Start Lat: 48° 38.97 N

Start Lon: 126° 40.06 W

Bottom Lat: 48° 38.94 N

Bottom Lon: 126° 40.07 W

End Lat: 48° 39.00 N

End Lon: 126° 40.04 W

Extra comments:

Jade's cast

1-2-3-4-17-5-6

7-8-18-19-20-

9-10-11-12-21-22-23

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P4

Event #: 31

Ship: Tully

UTC Date (dd:mmm:yyyy): 21 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	DMS MB	DMSP MB	DMSP MB	Nut-F MB/SP		Chl MB/MB	HPLC SP	Phyto MB		pH GC				
1	1	179	300	✓ 300	x			x						x				-not using this bottle. used
2	3	180	200	✓ 200	x	x	x	x										#21 for 300m sample.
3	4	181	175	✓ 175	x	x	x	x						x				
4	5	182	100	✓ 100	x	x	x	x		x				x				
5	6	183	75	✓ 75	x			x		x				x				
6	7	184	50	✓ 50	x			x		x				x				
7	8	185	40	✓ 40	x			x		x								
8	9	186	30	✓ 30	x			x		x								Top valve open!!
9	11	187	25	✓ 25	x			x		x				x				
10	12	188	20	✓ 20	xx	xx	xx	x		xx								
11	13	189	15	✓ 15	x			x		x								
12	15	190	10	✓ 10	x			xx		x								
13	16	191	5	✓ 5	x	x	x	x		x								
14	18	192	0	✓ 2.7	x	x	x	x		x								
15	10	193	(30) M	✓ 30						xx	xx							
16	14	194	(15) M	✓ 15						xx	xx							
17	17	195	5	✓ 5						xx	xx	xxx						
18																		
19																		
20																		
21	2		300	✓ 300														as spare for #1 suspected valve issue on niskin 1
22																		
23																		
24																		

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

Bottom Depth: 1311 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	22:25	15:25
Bottom	22:33	15:33
End	22:56	15:56

Positional Information

Start
Lat: 48° 39.01' N
Lon: 126° 39.98' W

Bottom
Lat: 48° 39.98' N
Lon: 126° 40.01' W

End
Lat: 48° 39.94' N
Lon: 126° 40.07' W

Extra comments:

DMS cast - OUT-OF-ORDER

1-21-213-4-5-6-7
8-15-9-10-11
-16-12-13-17-14

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P4

Event #:

32

Ship:

Tully

UTC Date (dd mmm yyyy):

21 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure		Cs									
1		155	500	✓ 500		x									
2		156	500	✓ 500		x									
3		157	500	✓ 500		x									
4		158	500	✓ 500		x									
5		159	500	✓ 500		x									
6		160	500	✓ 500		x									
7		161	400	✓ 400		x									
8		162	400	✓ 400		x									
9		163	400	✓ 400		x									
10		164	400	✓ 400		x									
11		165	400	✓ 400		x									
12		166	400	✓ 400		x									
13		167	300	✓ 300		x									
14		168	300	✓ 300		x									
15		169	300	✓ 300		x									
16		170	300	✓ 300		x									
17		171	300	✓ 300		x									
18		172	300	✓ 300		x									
19		173	200	✓ 200		x									
20		174	200	✓ 200		x									
21		175	200	✓ 200		x									
22		176	200	✓ 200		x									
23		177	200	✓ 200		x									
24		178	200	✓ 200		x									

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

Bottom Depth: 1314 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	23:29	16:29
Bottom	23:41	16:41
End	23:59	16:59

Positional Information

Lat:	48 ° 38.94	N
Lon:	126 ° 39.96	W

Start

Lat:	48 ° 38.93	N
Lon:	126 ° 40.01	W

Bottom

Lat:	48 ° 38.95	N
Lon:	126 ° 40.07	W

End

Extra comments:
 Deep Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P5 Event #: 33 Ship: Tully UTC Date (dd mmm yyyy): 21 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	NH4						
				✓	Jade	SP	SP	SP	Jade						
1	1	189	250	✓ 250	x				x						NH4 water for La Perouse
2	2	190	30 Max	✓ 30	x		xx	xx							
3	3	191	5	✓ 5	x	x	xx	xx							
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth:	2100	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	0301	2001
Bottom	0344	2044
End	0428	2128

Positional Information		
Start	Lat:	48 ° 41.40 N
	Lon:	127 ° 10.07 W
▼		
Bottom	Lat:	48 ° 41.26 N
	Lon:	127 ° 10.36 W
▼		
End	Lat:	48 ° 41.11 N
	Lon:	127 ° 10.49 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P6 Event #: 34 Ship: Tully UTC Date (dd mmm yyyy): 22 8 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC	NH4		Nd							
1	2	199	250			x				x								NH4 water for La Perouse
2	5	200	30 / Max		77 _{MAX}	x		x x	x x									OBVIOUS MAX
3	6	201	5			x	x	x x	x x									
4	1	202	$\sigma = 27.22$		805							x						
5	3	203	$\sigma = 26.52$		215							x						
6	4	204	$\sigma = 25.69$		125							x						
7	7	205	5									x						
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15			NOTE:															
16		805	$\sigma = 27.22$		was at 811 at P3													
17		215	$\sigma = 26.52$		was at 150 at P3													
18		125	$\sigma = 25.69$		was at 50 at P3													
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 2539 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0722	0022
Bottom	0757	
End	0836	

Positional Information

Lat:	48 ° 44.61	N
Lon:	127 ° 40.00	W

▼

Lat:	48 ° 44.61	N
Lon:	127 ° 39.98	W

▼

Lat:	48 ° 44.60	N
Lon:	127 ° 40.00	W

Extra comments:
IOS & Aram
4, 1, 5, 6, 2, 3, 7

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P7 Event #: 35 Ship: Tully UTC Date (dd mmm yyyy): 22 8 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC							
1		206	30 / Max	77	x		x x	x x							
2		207	5		x	x	x x	x x							
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

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

Time	UTC	Local
Start	11 19	04 19
Bottom	11 56	
End	12 30	

Positional Information

Start	Lat: 48 ° 46. 62 N
	Lon: 128 ° 09. 91 W
Bottom	Lat: 48 ° 46. 59 N
	Lon: 128 ° 09. 95 W
End	Lat: 48 ° 46. 58 N
	Lon: 128 ° 09. 97 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P8 Event #: 39 Ship: Tully UTC Date (dd mmm yyyy): 22 8 15

			Rosette Operation		Samples Taken / Sampler's Initials										Comments				
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut Fr	Nut C		Chl	HPLC	UBC gases							
1		208	2000	☒		x x	x x	x	x			x x							
2		209	1500	☒		x	x	x	x			x x							
3		210	1250	☒		x	x	x x	x x			x x							
4		211	1000	☒		x	x x	x	x			x x							
5		212	800	☒		x	x	x	x			x x							
6		213	600	☒		x		x	x			x x							
7		214	400	☒		x		x	x			x x							
8		215	300	☒		x		x				x x							
9		216	250	☒		x x		x				x x							
10		217	200	☒		x		x				x x							
11		218	175	☒		x		x				x x							
12		219	150	☒		x		x x				x x							
13		220	125	☒		x		x											
14		221	100	☒		x		x		x		x x							
15		222	75	☒		x		x		x		x x							
16		223	50	☒		x		x		x		x x							
17		224	25	☒		x x		x		x		x x							
18		225	10	☒		x		x		x		x x							
19		226	5	☒		x	x	x		x									
20		227	50 (Max)	☒	75					x x	x x								
21		228	20 (Max)	☒	65					x x	x x								
22		229	5	☒						x x	x x								
23																			
24																			

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

Bottom Depth: 2514 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1701	1001
Bottom	1735	
End	1837	

Positional Information

Lat:	48 ° 49.01	N
Lon:	128 ° 39.95	W

Bottom

Lat:	48 ° 49.02	N
Lon:	128 ° 39.96	W

End

Lat:	48 ° 49.00	N
Lon:	128 ° 39.97	W

Extra comments:
Firing out of order
1-15, 20, 21, 16-19, 22

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10

Station: P9

Event #: 41

Ship: Tully

UTC Date (dd mmm yyyy): 22 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC		AML						
1		230	2000	✓ 2001		x				x						
2		231	2000	✓ 2000						x						
3		232	2000	✓ 2000						x						
4		233	2000	✓ 2001						x						
5		234	2000	✓ 2000						x						
6		235	2000	✓ 2000						x						
7		236	2000	✓ 2001						x						
8		237	2000	✓ 2000						x						
9		238	2000	✓ 2000						x						
10		239	2000	✓ 2000						x						
11		240	2000	✓ 2000						x						
12		241	2000	✓ 2000						x						
13		242	2000	✓ 2000						x						
14		243	2000	✓ 2000						x						
15		244	2000	✓ 2000						x						
16		245	2000	✓ 2000						x						
17		246	2000	✓ 2000						x						
18		247	2000	✓ 2000						x						
19		248	2000	✓ 2000						x						
20		249	2000	✓ 2000						x						
21		250	2000	✓ 2000						x						
22		251	2000	✓ 2000						x						
23		252	30 (Max)	✓ 70	x		xx	xx								
24		253	5	✓ 5	x	x	xx	xx								

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

Bottom Depth:	2335	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	2136	1436
Bottom	22:10	15:10
End	22:49	15:49

Positional Information
Start
Lat: 48 ° 51.45 N
Lon: 129 ° 9.90 W

Bottom
Lat: 48 ° 51.43 N
Lon: 129 ° 9.94 W

End
Lat: 48 ° 51.41 N
Lon: 129 ° 9.93 W

Extra comments:
IOS and water for AML

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P10 Event #: 42 Ship: Tully UTC Date (dd mmm yyyy): 23 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC		Cs					
1		254	300	☒ 300	JS	JS	SR	JS		Field					
2		255	300	☒ 300											
3		256	300	☒ 300											
4		257	300	☒ 300											
5		258	300	☒ 300											
6		259	300	☒ 300											
7		260	200	☒ 200											
8		261	200	☒ 200											
9		262	200	☒ 200											
10		263	200	☒ 200											
11		264	200	☒ 200											
12		265	200	☒ 200											
13		266	50 / Max	☒ 60	x		xx	xx							
14		267	5	☒	x	x	xx	xx							
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth:	2638	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	0121	1821
Bottom	0156	1856
End	0236	1936

Positional Information
Start
Lat: 48° 53.61 N
Lon: 129° 39.98 W

Start

Bottom
Lat: 48° 53.64 N
Lon: 129° 39.91 W

Bottom

End
Lat: 48° 53.67 N
Lon: 129° 39.84 W

End

Extra comments:
IOS and Cesium

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P10

Event #:

43

Ship:

Tully

UTC Date (dd mmm yyyy):

23 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC			Cs				
1		268	150	✓ 150							x				
2		269	150	✓ 150							x				
3		270	150	✓ 150							x				
4		271	150	✓ 150							x				
5		272	150	✓ 150							x				
6		273	150	✓ 150							x				
7		274	50	✓ 50							x				
8		275	50	✓ 50							x				
9		276	50	✓ 50							x				
10		277	50	✓ 50							x				
11		278	50	✓ 50							x				
12		279	50	✓ 50							x				
13		280	5	✓ 5							x				
14		281	5	✓ 5							x				
15		282	5	✓ 5							x				
16		283	5	✓ 5							x				
17		284	5	✓ 5							x				
18		285	5	✓ 5							x				
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 2659 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0301	2001
Bottom	0305	2005
End	0311	2011

Positional Information

Lat:	48 ° 53.76	N
Lon:	129 ° 39.85	W

Bottom

Lat:	48 ° 53.77	N
Lon:	129 ° 39.88	W

End

Lat:	48 ° 53.77	N
Lon:	129 ° 39.87	W

Extra comments:
2nd half of Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P11

Event #:

44

Ship:

Tully

UTC Date (dd mmm yyyy):

23 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC		AML					
1	1	286	2000	✓ 2000		x				x					
2	2	287	2000	✓ 2000						x					
3	3	288	2000	✓ 2000						x					
4	4	289	2000	✓ 2000						x					
5	5	290	2000	✓ 2000						x					
6	6	291	2000	✓ 2000						x					
7	7	292	2000	✓ 2000						x					
8	8	293	2000	✓ 2000						x					
9	9	294	2000	✓ 2000						x					
10	10	295	2000	✓ 2000						x					
11	11	296	2000	✓ 2000						x					
12	12	297	2000	✓ 2000						x					
13	13	298	2000	✓ 2000						x					
14	14	299	2000	✓ 2000						x					
15	15	300	2000	✓ 2000						x					
16	16	301	2000	✓ 2000						x					
17	17	302	2000	✓ 2000						x					
18	18	303	2000	✓ 2000						x					
19	19	304	2000	✓ 2000						x					
20	20	305	2000	✓ 2000						x					
21	21	306	2000	✓ 2000						x					
22	22	307	2000	✓ 2000						x					
23	23	308	50 (Max)	50	x		xx	xx							
24	24	309	5		x	x	xx	xx							

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

Bottom Depth:	2751	m
Transmisso Cleaned:	(Y) / N	

Time	UTC	Local
Start	0559	2259
Bottom	0644	2344
End	0721	

Positional Information		
Start	Lat: 48 ° 56.0	N
	Lon: 130 ° 9.89	W

Bottom	Lat: 48 ° 55.86	N
	Lon: 130 ° 9.89	W

End	Lat: 48 ° 55.94	N
	Lon: 130 ° 09.97	W

Extra comments:
IOS and water for AML

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P12 Event #: 45 Ship: Tully UTC Date (dd mmm yyyy): 23 0 15

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials												Comments			
			Target Pressure	Confirmed ✓	Pressure	Nut-F	Sal	Chl		18O	NO3	NH4	17O	ONAr	DO	NH4					
						IOS	IOS	IOS				incub									
1	2	310	Below ML		35		x						x x								
2	1	311	1%		71	x	x	x		x x x	x x	x			x x	x x					
3	3	312	15%		10	x	x	x		x x x	x x	x			x x	x x					
4	5	313	30%		4	x	x	x		x x x	x	x			x x	x x					
5	6	314	50%		3	x	x	x		x x x	x	x			x x	x x					
6	7	315	100%		2.5	x		x			x x x	x x x				x x					
7	8	316	100%		2.5					x x x			x x	x x	x x						
8	4	317	in ML		5									x x	x x						
9																					
10	.															.					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					
21																					
22																					
23																					
24																					

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

Bottom Depth: 3232 m
Transmisso Cleaned: ☒ Y / N

Time	UTC	Local
Start	0951	0251
Bottom	0950	
End	1008	

Positional Information

Lat:	48 ° 58.16	N
Lon:	120 ° 39.99	W

▼

Lat:	48 ° 58.16	N
Lon:	130 ° 40.01	W

▼

Lat:	48 ° 58.19	N
Lon:	130 ° 40.00	W

Extra comments:
Lianna's cast
OUT-OF-ORDER
2, 1, 3, 8, 4-7

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P12 Event #: 46 Ship: Tully UTC Date (dd mmm yyyy): 23 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Sal	Nut-fr	Fe filt	Fe unfilt									
1		318	800		x	x	x x	x x									
2		319	600				x	x									
3		320	400				x	x									
4		321	300	200 K5			x	x									
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
ROS TRM ☒ Niskin other?
Watchkeeper(s): K.S. H/M

Bottom Depth: 3239 m
Transmisso Cleaned: Y I N

Time	UTC	Local
Start	1015	0315
Bottom	11:00	0400
End	11:55	04:05

Positional Information-
Start
Lat: 48 ° 58 N
Lon: 130 ° 40.00 W

Bottom
Lat: 48 ° 58 20 N
Lon: 130 ° 40.00 W

End
Lat: 48.00 ° 58.20 N
Lon: 130 ° 40.00 W

Extra comments:
Deep Go-flo cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10

Station: P12

Event #: 47

Ship: Tully

UTC Date (dd mmm yyyy): 23 8 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH									
1		322	Bot-10	✓	3276	x		x	x	x	x								
2		323	3000	✓		x x	x x	x	x	x x	x								
3		324	3000	✓		x	x	x	x	x	x								
4		325	2500	✓		x	x x	x	x	x	x x x								
5		326	2000	✓		x	x	x	x	x	x								
6		327	1500	✓		x	x x	x	x	x	x								
7		328	1250	✓		x	x	x x	x x	x	x								
8		329	1000	✓		x	x x	x	x	x	x								
9		330	800	✓		x x		x	x	x	x								
10		331	600	✓		x		x	x	x	x								
11		332	400	✓		x		x	x	x	x								
12		333	300	✓		x		x		x	x								
13		334	250	✓		x		x		x	x								
14		335	200	✓		x		x		x	x								
15		336	175	✓		x x		x		x	x								
16		337	150	✓		x		x		x	x								
17		338	125	✓		x		x		x	x x x								
18		339	100	✓		x		x x		x	x								
19		340	75	✓	50	x		x		x	x								
20		341	50	✓	25	x		x		x	x								
21		342	25	✓	10	x		x		x	x								
22		343	10	✓	5	x		x		x	x								
23		344	5	✓		x x	x	x		x	x								
24																			

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

Bottom Depth: 3232 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1229	0529
Bottom	1328	
End		

Positional Information

Lat:	48 ° 58 .20	N
Lon:	130 ° 39 .99	W

Bottom

Lat:	48 ° 58 19	N
Lon:	130 ° 39 93	W

End

Lat:	48 ° 58	N
Lon:	130 °	W

Extra comments:

Deep cast
NISKIN
not

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P12 Event #: 48 Ship: Tully UTC Date (dd mmm yyyy): 23 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Fe	Fe								
							filt	unfilt								
1		345	50		x	x	x x	x x								
2		346	40				x	x								
3		347	25				x	x								
4		348	10				x	x								
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type: ROS TRM ☒ Niskin other?
Watchkeeper(s): K.S.

Bottom Depth: 3232 m
Transmisso Cleaned: ~~Y~~ N

Time	UTC	Local
Start	15:45	08:45
Bottom		
End	16:13	09:13

Positional Information
Start
Lat: 48 ° 58.24 N
Lon: 130 ° 40.00 W

Bottom
Lat: ° N
Lon: ° W

End
Lat: 48 ° 58.19 N
Lon: 130 ° 39.96 W

Extra comments:
Shallow Go-flo cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P12 Event #: 50 Ship: Tully UTC Date (dd mmm yyyy): 23 08 15

			Rosette Operation		Samples Taken / Sampler's Initials												Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed	Niko gases													
			✓	Pressure														
1		349	200	✓		x x												
2		350	160	✓		x x												
3		351	140	✓		x x												
4		352	120	✓		x x												
5		353	100	✓		x x												
6		354	85	✓		x x												
7		355	75	✓		x x												
8		356	70	✓		x x												
9		357	65	✓		x x												
10		358	60	✓		x x												
11		359	55	✓		x x												
12		360	50	✓		x x												
13		361	45	✓		x x												
14		362	50	✓		x x												OUT OF ORDER
15		363	40	✓		x x												
16		364	35	✓		x x												
17		365	30	✓		x x												
18		366	25	✓		x x												
19		367	20	✓		x x												
20		368	15	✓		x x												
21		369	10	✓		x x												
22		370	5	✓		x x												
23		371	2	✓		x x												
24		372	2	✓		x x												

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

Bottom Depth: 3235 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1649	0949
Bottom	1655	
End	1721	

Positional Information

Lat:	48 ° 58.13	N
Lon:	130 ° 39.99	W

Start

Lat:	48 ° 58.20	N
Lon:	130 ° 39.97	W

Bottom

Lat:	48 ° 58.19	N
Lon:	130 ° 39.96	W

End

Extra comments:

Niko's cast

1-12, 14, 13, 15-24

OUT OF ORDER

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P12

Event #:

53

Ship:

Tully

UTC Date (dd mmm yyyy):

23 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC				
				✓	MP MB	t MP MB	d MP MB	SP		GC	GC				
1	1	373	300	✓	300	x			x						
2	2	374	200	✓	200	x	x	x	x						
3	3	375	175	✓	175	x	x	x	x						
4	4	376	100	✓	100	x	x	x	x	x					
5	5	377	75	✓	75	x			x	x					
6	6	378	50	✓	50	x			x	x					
7	8	379	40	✓	40	x			x	xx					
8	10	380	30	✓	30	x			x	x					
9	11	381	25	✓	25	x			x	x					
10	12	382	20	✓	20	xx	xx	xx	x	x					
11	13	383	15	✓	15	x			x	x					
12	14	384	10	✓	10	x			xx	x					
13	15	385	5	✓	5	x	x	x	x	x					
14	17	386	0	✓	3	x	x	x	x	x					
15	7	387	50 (M)	✓	50					xx	xx				10 below max.
16	9	388	20 (M)	✓	40					xx	xx				chl max
17	16	389	5	✓	5					xx	xx				
18															
19															
20															
21															
22															
23															
24															

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

SP

Bottom Depth: 3002 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	21:26	14:26
Bottom	21:32	14:32
End	21:55	14:55

Positional Information

Lat:	48 ° 58.16	N
Lon:	130 ° 40.12	W

Lat:	48 ° 58.16	N
Lon:	130 ° 40.13	W

Lat:	48 ° 58.16	N
Lon:	130 ° 40.11	W

Extra comments:

DMS cast - OUT-OF-ORDER

1-2-3-4-5-6-15-

7-16-8-9-10-11

12-13-17-14

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P12 Event #: 50 54 Ship: Tully UTC Date (dd mmm yyyy): 23 08 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt									
1		390	200	300	x	x	x x	x x									
2		391	150				x	x									
3		392	100				x	x									
4		393	75				x	x									
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
ROS TRM ☒ Niskin other?
Watchkeeper(s): K.S.

Bottom Depth:	2990	m
Transmisso Cleaned:	YTN	

Time	UTC	Local
Start	22:06	15:06
Bottom	22:35	15:35
End	22:50	15:50

Positional Information			
Start	Lat:	48 ° 50.17	N
	Lon:	130 ° 40.11	W
▼			
Bottom	Lat:	48 ° 50.11	N
	Lon:	130 ° 40.14	W
▼			
End	Lat:	48 ° 50.03	N
	Lon:	130 ° 40.13	W

Extra comments:
Mid Go-flo cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P12 Event #: 55 Ship: Tully UTC Date (dd mmm yyyy): 23 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure		UBC		DCF	H2S						
1	1	394	2000	✓		x									
2	2	395	2000	✓											
3	3	396	2000	✓											
4	4	397	2000	✓											
5	7	398	1000	✓		x									
6	8	399	1000	✓											
7	9	400	1000	✓											
8	10	401	1000	✓											
9	12	402	500	✓	500	x									
10	13	403	500	✓	500	.									
11	14	404	500	✓	500										
12	15	405	500	✓	500										
13	18	406	10	✓	10	x									
14	19	407	10	✓	10										
15	20	408	10	✓	10										
16	21	409	10	✓	10										
17	5	410	1500	✓	1500			x	x						
18	6	411	1000	✓	1000			x	x						
19	11	412	600	✓	600			x	x						
20	16	413	200	✓	200			x							
21	17	414	100	✓	100			x							
22															
23															
24															

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

Watchkeeper(s): SP

Bottom Depth: 3238 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	23:05	16:05
Bottom	00:05	17:05
End	01:08	18:08

Positional Information

Start Lat: 48 ° 58.11 N

Start Lon: 130 ° 40.17 W

Bottom Lat: 48 ° 58.16 N

Bottom Lon: 130 ° 40.15 W

End Lat: 48 ° 58.18 N

End Lon: 130 ° 40.26 W

Extra comments:

Jade's cast

1-2-3-4-17-5-6-7

8-18-19-9-10-11-12

20-21-13-14-15-16

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10

Station: P13

Event #: 56

Ship: Tully

UTC Date (dd mmm yyyy): 24 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC		AML						
1		415	2000	✓ 2000		x				x						
2		416	2000	✓ 2000						x						
3		417	2000	✓ 2000						x						
4		418	2000	✓ 2000						x						
5		419	2000	✓ 2000						x						
6		420	2000	✓ 2000						x						
7		421	2000	✓ 2000						x						
8		422	2000	✓ 2000						x						
9		423	2000	✓ 2000						x						
10		424	2000	✓ 2000						x						
11		425	2000	✓ 2000						x						
12		426	2000	✓ 2000						x						
13		427	2000	✓ 2000						x						
14		428	2000	✓ 2000						x						
15		429	2000	✓ 2000						x						
16		430	2000	✓ 2000						x						
17		431	2000	✓ 2000						x						
18		432	2000	✓ 2000						x						
19		433	2000	✓ 2000						x						
20		434	2000	✓ 2000						x						
21		435	2000	✓ 2000						x						
22		436	2000	✓ 2000						x						
23		437	50 (Max)	✓ 40	x		x x	x x								
24		438	5	✓	x	x	x x	x x								

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

Bottom Depth: 3152 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	06:06	23:06
Bottom	06:41	
End	07:19	

Positional Information
Start
Lat: 49 ° 2.62 N
Lon: 131 ° 39.99 W

Bottom
Lat: 49 ° 02.61 N
Lon: 131 ° 39.97 W

End
Lat: 49 ° 02.61 N
Lon: 131 ° 39.93 W

Extra comments:
IOS and water for AML

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P14 Event #: 57 Ship: Tully UTC Date (dd mmm yyyy): 24 9 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	
1		439	30 (Max)	✓ 45	x		x x	x x	
2		440	5	✓	x	x	x x	x x	
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

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

Bottom Depth:	3315	m
Transmisso Cleaned:	(Y) N	

Time	UTC	Local
Start	1205	
Bottom	1239	
End	1312	

Start	Positional Information		
	Lat:	49 ° 07.36	N
	Lon:	132 ° 39.98	W

Bottom	Lat:	49 ° 07.39	N
	Lon:	132 ° 39.96	W

End	Lat:	49 ° 07.39	N
	Lon:	132 ° 40.00	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P15

Event #: 59

Ship: Tully

UTC Date (dd|mmm|yyyy): 24 | 8 | 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	AML						
1	1	441	2000	✓ 2000		x			x						
2	2	442	2000	✓ 2000					x						
3	3	443	2000	✓ 2000					x						
4	4	444	2000	✓ 2000					x						
5	5	445	2000	✓ 2000					x						
6	6	446	2000	✓ 2000					x						
7	7	447	2000	✓ 2000					x						
8	8	448	2000	✓ 2000					x						
9	9	449	2000	✓ 2000					x						
10	10	450	2000	✓ 2000					x						
11	11	451	2000	✓ 2000					x						
12	12	452	2000	✓ 2000					x						
13	13	453	2000	✓ 2000					x						
14	14	454	2000	✓ 2000					x						
15	15	455	2000	✓ 2000					x						
16	16	456	2000	✓ 2000					x						
17	17	457	2000	✓ 2000					x						
18	18	458	2000	✓ 2000					x						
19	19	459	2000	✓ 2000					x						
20	20	460	2000	✓ 2000					x						
21	21	461	2000	✓ 2000					x						
22	22	462	2000	✓ 2000					x						
23	23	463	50 Max	✓ 50	x		xx	xx							
24	24	464	5	✓ 5	x	x	xx	xx							

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

Bottom Depth: 3407 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1817	1117
Bottom	1855	1155
End	1941	1241

Positional Information
Start
Lat: 49 ° 12.01 N
Lon: 133 ° 40.00 W

Bottom
Lat: 49 ° 12.04 N
Lon: 133 ° 39.99 W

End
Lat: 49 ° 12.07 N
Lon: 133 ° 40.39 W

Extra comments:
IOS and water for AML

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10

Station: P16

Event #: 61

Ship: Tully

UTC Date (dd mmm yyyy): 25 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC				
					mk	t mg	dmg	sf		mf	mg				
1	1	465	300	✓ 300	x			x							
2	2	466	200	✓ 200	x	x	x	x							
3	3	467	175	✓ 175	x	x	x	x							
4	4	468	100	✓ 100	x	x	x	x		x					
5	5	469	75	✓ 75	x			x		x					
6	7	470	50	✓ 50	x			x		xx					
7	9	471	40	✓ 40	x			x		x					
8	10	472	30	✓ 30	x			x		x					
9	11	473	25	✓ 25	x			x		x					
10	12	474	20	✓ 20	xx	xx	xx	x		x	.				
11	13	475	15	✓ 15	x			x		x					
12	14	476	10	✓ 10	x			xx		x					
13	15	477	5	✓ 5	x	x	x	x		x					
14	17	478	0	✓ 3	x	x	x	x		x					
15	6	479	50 (M)	✓ 50						xx	xx				
16	8	480	20 (M)	✓ 50						xx	xx				
17	16	481	5	✓ 5						xx	xx				
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth:	3632 m
Transmisso Cleaned:	☒ Y ☐ N

Time	UTC	Local
Start	00:48	17:48
Bottom	00:53	17:53
End	01:15	18:15

Positional Information
Start
Lat: 49 ° 17.02 N
Lon: 134 ° 39.86 W

Bottom
Lat: 49 ° 17.03 N
Lon: 134 ° 40.05 W

End
Lat: 49 ° 17.03 N
Lon: 134 ° 40.08 W

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

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P16

Event #: 62

Ship: Tully

UTC Date (dd mmm yyyy): 25 AUG 2015

			Rosette Operation		Samples Taken / Sampler's Initials												Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed	Cs													
				✓														
						Rick												
1	1	482	500	✓	500	x												
2	2	483	500	✓	500	x												
3	3	484	500	✓	500	x												
4	4	485	500	✓	500	x												
5	5	486	500	✓	500	x												
6	6	487	500	✓	500	x												
7	7	488	400	✓	400	x												
8	8	489	400	✓	400	x												
9	9	490	400	✓	400	x												
10	10	491	400	✓	400	x												
11	11	492	400	✓	400	x												
12	12	493	400	✓	400	x												
13	13	494	300	✓	300	x												
14	14	495	300	✓	300	x												
15	15	496	300	✓	300	x												
16	16	497	300	✓	300	x												
17	17	498	300	✓	300	x												
18	18	499	300	✓	300	x												
19	19	500	200	✓	200	x												
20	20	501	200	✓	200	x												
21	21	502	200	✓	200	x												
22	22	503	200	✓	200	x												
23	23	504	200	✓	200	x												
24	24	505	200	✓	200	x												

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

Bottom Depth:	3632	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	0206	2106
Bottom	0215	2115
End	0231	2131

Positional Information	
Start	Lat: 49 ° 17.06 N
	Lon: 134 ° 40.1 W

Bottom	Lat: 49 ° 17.07 N
	Lon: 134 ° 40.12 W

End	Lat: 49 ° 17.09 N
	Lon: 134 ° 40.17 W

Extra comments:
Deep Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P16 Event #: 64 Ship: Tully UTC Date (dd:mmm:yyyy): 25 9 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments									
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt														
1		506	50		x	x	x x	x x														
2		507	40				x	x														
3		508	25				x	x														
4		509	10				x	x														
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						
18																						
19																						
20																						
21																						
22																						
23																						
24																						

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

Bottom Depth: 3680 m
Transmisso Cleaned: Y + N

Time	UTC	Local
Start	06:07	23 07
Bottom		
End	06 35	23 35

Positional Information -
Start
Lat: 49 ° 16.97 N
Lon: 134 ° 40.75 W

Bottom
Lat: ° N
Lon: ° W

End
Lat: 49 ° 17.30 N
Lon: 134 ° 41.05 W

Extra comments:
Shallow Go-flo cast
25m PTL Broken

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P16 Event #: 66 Ship: Tully UTC Date (dd mmm yyyy): 25 8 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt									
1		510 300			x	x	xx	xx									
2		511	150				x X	xx									
3		512	100				x	x									
4		513	75				x	x									
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 3632 m
Transmisso Cleaned: Y L N

Time	UTC	Local
Start	<u>0720</u>	
Bottom	<u>0733</u>	
End	<u>0745</u>	

Positional Information
Start Lat: 49 ° 17.02 N
Lon: 134 ° 39.93 W

Bottom Lat: ° N
Lon: ° W

End Lat: 49 ° 16.98 N
Lon: 134 ° 39.93 W

Extra comments:
Mid Go-flo cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P16 Event #: 67 Ship: Tully UTC Date (dd mmm/yyyy): 25 08 15

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓	Pressure	Sal	Nut-fr	Fe filt	Fe unfilt									
1		514	800			x	x	x x	x x									
2		515	600					x	x									
3		516	400					x	x									
4		517	200					x	x									
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 3832 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0815	
Bottom	0844	
End	0915	

Positional Information
Start Lat: 49 ° 16.96 N
Lon: 134 ° 39.90 W

Bottom Lat: ° N
Lon: ° W

End Lat: 49 ° 17.07 N
Lon: 134 ° 39.95 W

Extra comments:
Deep Go-flo cast

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P16

Event #:

68

Ship:

Tully

UTC Date (dd mmm yyyy): 25 9 15

			Rosette Operation		Samples Taken / Sampler's Initials												Comments	
Niskin #	Firing #	Sample #	Target	Confirmed	Nut-F	Sal	Chl		18O	NO3	NH4	17O	ONAr	DO	NH4			
			Pressure	✓ Pressure	IOS	IOS	IOS				incub							
1	2	518	Below ML		43		x					xx						
2	1	519	1%		53	x	x	x		xxx	xx	x			xx	xx		
3	3	520	15%		8	x	x	x		xxx	xx	x			xx	xx		
4	5	521	30%		4	x	x	x		xxx	x	x			xx	xx		
5	6	522	50%		3	x	x	x		xxx	x	x			xx	xx		
6	7	523	100%		2.5	x		x			xxx	xxx				xx		
7	8	524	100%		2.5					xxx			xx	xx	xx			
8	4	525	in ML		5									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): H.m.

Bottom Depth: 363 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	10 04	03 04
Bottom	10 06	
End	10 16	

Positional Information

Start	Lat: 49 ° 17.02 N
	Lon: 134 ° 39.94 W

Bottom	Lat: 49 ° 17.02 N
	Lon: 134 ° 39.95 W

End	Lat: 49 ° 17.00 N
	Lon: 134 ° 39.90 W

Extra comments:

Lianna's cast

OUT-OF-ORDER

2, 1, 3, 8, 4, 5, 6, 7

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P16 Event #: 69 Ship: Tully UTC Date (dd mmm yyyy): 25 8 15

			Rosette Operation		Samples Taken / Sampler's Initials													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure		Cs												
1		526	150	✓			x											
2		527	150	✓			x											
3		528	150	✓			x											
4		529	150	✓			x											
5		530	150	✓			x											
6		531	150	✓			x											
7		532	100	✓			x											
8		533	100	✓			x											
9		534	100	✓			x											
10		535	100	✓			x											
11		536	100	✓			x											
12		537	100	✓			x											
13		538	50	✓			x											
14		539	50	✓			x											
15		540	50	✓			x											
16		541	50	✓			x											
17		542	50	✓			x											
18		543	50	✓			x											
19		544	5	✓			x											
20		545	5	✓			x											
21		546	5	✓			x											
22		547	5	✓			x											
23		548	5	✓			x											
24		549	5	✓			x											

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

Bottom Depth: 3631 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1152	0452
Bottom	1155	
End	1205	

Positional Information

Lat:	49 ° 16.95	N
Lon:	134 ° 39.88	W

Start

Lat:	49 ° 16.96	N
Lon:	134 ° 39.89	W

Bottom

Lat:	49 ° 16.99	N
Lon:	134 ° 39.90	W

End

Extra comments:
Shallow Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P16 Event #: 70 Ship: Tully UTC Date (dd mmm yyyy): 25 0 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ✓ Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH					Gases	SAGs	DNA		
					MM/HR				KS/HR	GC					MF/SS				
1		550	Bot-10	✓	3695	x		x	x	x	x				xx	x	x		
2		551	3500	✓		x	xx	xx	xx	xx	x								
3		552	3500	✓		xx	x	x	x	x	x								
4		553	3000	✓	3000	x	xx	x	x	x	x				xx	x	x		
5		554	2500	✓	2500	x	x	x	x	x	xxx							SPIGOT KNOCKED OFF	
6		555	2000	✓		x	xx	x	x	x	x				xx	x	x		
7		556	1500	✓		x	x	x	x	x	xxx				xx	x	x		
8		557	1250	✓		x	xx	x	x	x	x				xx	x	x		
9		558	1000	✓		x	x	x	x	x	x				xx	x	x		
10		559	800	✓		xx	x	x	x	x	x				xx	x	x		
11		560	600	✓		x	x	x	x	x	x				xx	x	x		
12		561	400	✓		x	x	x	x	x	x				xx	x	x		
13		562	300	✓		x	x	x		x	x				xx	x	x		
14		563	250	✓		x	x	x		x	xxx								
15		564	200	✓		x	x	x		x	x				xx	x	x		
16		565	175	✓		xx	x	x		x	x								
17		566	150	✓		x	x	x		x	x				xx	x	x		
18		567	125	✓		x	x	xx		x	x								
19		568	100	✓		x	x	x		x	x				xx	x	x		
20		569	75	✓		x	x	x		x	x				xx				
21		570	50	✓		x	x	x		x	x				xx	x	x		SPIGOT CLOSED NOT LEAKING
22		571	25	✓		xx	x	x		x	x				xx	x	x		
23		572	10	✓		x	x	x		x	x				xx	x	x		
24		573	5	✓		x	x	x		x	x								

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

Bottom Depth: 3631 m
Transmisso Cleaned: (Y) / N

	Time	UTC	Local
Start	1237		0537
Bottom	1343		
End	1527		0837

Positional Information

Lat:	49 ° 16.97	N
Lon:	134 ° 39.95	W

Start

Bottom

End

Lat: 49 ° 17.02 N
Lon: 134 ° 40.11 W

Lat: 49 ° 17.07 N
Lon: 134 ° 39.96 W

Extra comments:
Deep cast

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P17

Event #: 72

Ship: Tully

UTC Date (dd.mmm.yyyy): 25 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC		AML					
1	1	574	2000	✓ 2000		x				x					
2	2	575	2000	✓ 2000						x					
3	3	576	2000	✓ 2000						x					
4	4	577	2000	✓ 2000						x					
5	5	578	2000	✓ 2000						x					
6	6	579	2000	✓ 2000						x					
7	7	580	2000	✓ 2000						x					
8	8	581	2000	✓ 2000						x					
9	9	582	2000	✓ 2000						x					
10	10	583	2000	✓ 2000						x					
11	11	584	2000	✓ 2000						x					
12	12	585	2000	✓ 2000						x					
13	13	586	2000	✓ 2000						x					
14	14	587	2000	✓ 2000						x					
15	15	588	2000	✓ 2000						x					
16	16	589	2000	✓ 2000						x					
17	17	590	2000	✓ 2000						x					
18	18	591	2000	✓ 2000						x					
19	19	592	2000	✓ 2000						x					
20	20	593	2000	✓ 2000						x					
21	21	594	2000	✓ 2000						x					
22	22	595	2000	✓ 2000						x					
23	23	596	50 (Max)	✓ 40	x		x x	x x							
24		597	5	✓ 5	x	x	x x	x x							

Profile type:

☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): SP

Bottom Depth: 3640 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	20:05	1305
Bottom	20:40	1340
End	21:19	1419

Positional Information

Start	Lat: 49 ° 21.04	N
	Lon: 135 ° 39.87	W
Bottom	Lat: 49 ° 21.00	N
	Lon: 135 ° 39.89	W
End	Lat: 49 ° 21.02	N
	Lon: 135 ° 39.88	W

Extra comments:

IOS and water for AML

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

UTC Date (dd mmm yyyy): 26 Aug 2017

OUT-OF-ORDER
1-2-3-5-4-6

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

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P19

Event #:

74

Ship:

Tully

UTC Date (dd mmm yyyy): 26 8 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC		AML					
1		604	2000	✓		x				x					
2		605	2000	✓						x					
3		606	2000	✓						x					
4		607	2000	✓						x					
5		608	2000	✓						x					
6		609	2000	✓						x					
7		610	2000	✓						x					
8		611	2000	✓						x					
9		612	2000	✓						x					
10		613	2000	✓						x					
11		614	2000	✓						x					
12		615	2000	✓						x					
13		616	2000	✓						x					
14		617	2000	✓						x					
15		618	2000	✓						x					
16		619	2000	✓						x					
17		620	2000	✓						x					
18		621	2000	✓						x					
19		622	2000	✓						x					
20		623	2000	✓						x					
21		624	2000	✓						x					
22		625	2000	✓						x					
23		626	50 / Max		50	x		x x	x x						
24		627	5			x	x	x x	x x						

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): H.M.

Bottom Depth: 3926 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	0752	0052
Bottom	0826	
End	0904	

Positional Information

Lat: 49 ° 30.00 N
Lon: 137 ° 40.11 W

Lat: 49 ° 29.98 N
Lon: 137 ° 40.09 W

Lat: 49 ° 30.01 N
Lon: 137 ° 40.15 W

Extra comments:

IOS and water for AML

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P20 Event #: 75 Ship: Tully UTC Date (dd mmm yyyy): 26 8 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F IOS	Sal IOS	Chl IOS	180	NO3	NH4 incub	170	ONAr	DO	NH4			
1	2	628	Below ML	42		x					xx						
2	1	629	1%	44	x	x	x	xxx	xx	x			xx	xx			
3	3	630	15%	6	x	x	x	xxx	xx	x			xx	xx			
4	5	631	30%	3	x	x	x	xxx	x	x			xx	xx			
5	6	632	50%	3	x	x	x	xxx	x	x			xx	xx			
6	7	633	100%	2.5	x		x		xxx	xxx				xx			
7	0	634	100%	2.5				xxx			xx	xx	xx				
8	4	635	in ML	5								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): H.A.

Bottom Depth: 3941 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1359	0659
Bottom	1403	
End	1410	

Positional Information

Lat:	49 ° 34.01	N
Lon:	138 ° 40.02	W

▼

Lat:	49 ° 34.00	N
Lon:	138 ° 40.03	W

▼

Lat:	49 ° 34.00	N
Lon:	138 ° 40.02	W

Extra comments:
Lianna's cast
OUT-OF-ORDER
2, 1, 3, 8, 4, 5, 6, 7

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P20 Event #: 76 Ship: Tully UTC Date (dd|mmm|yyyy): 26 | 08 | 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt	
1		636	75		x	x	x	x	
2		637	40				x	x	
3		638	10				x	x	
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

Profile type: ☒ ROS ☐ TRM ☒ Niskin ☐ other?
Watchkeeper(s): KS HMBottom Depth: 3563 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	14:45	7:45
Bottom	14:57	7:57
End	15:11	8:11

Positional Information
Start
Lat: 49 ° 34.59 N
Lon: 138 ° 40.53 WBottom
Lat: 49 ° 34.11 N
Lon: 138 ° 40.97 WEnd
Lat: 49 ° 34.08 N
Lon: 138 ° 40.03 W

Extra comments:

Go-flo 75

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P20

Event #:

78

Ship:

Tully

UTC Date (dd mmm yyyy):

26 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt									
1		639	100		x	x	x x	x x									
2		640	50				x	x									
3		641	15				x	x									
4																	
5																	
6																	
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Profile type:
ROS TRM ☒ Niskin ☐ other?
Watchkeeper(s): KS HM

Bottom Depth: 3960 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1845	0850
Bottom	1606	0806
End	1616	0946

Positional Information

Lat:	49 °	34.09	N
Lon:	138 °	39.93	W

Bottom

Lat:	49 °	34.05	N
Lon:	138 °	40.01	W

End

Lat:	49 °	34.04	N
Lon:	138 °	40.02	W

Extra comments:

Go-flo 100

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P20 Event #: 79 Ship: Tully UTC Date (dd mmm yyyy): 26 0 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target	Confirmed	OXY	Sal	Nut-F	Nut-C	DIC	pH			Gases	DNA	SAGs	NH4			
			Pressure	✓ Pressure	SR/MS	MB	SA/MA	SP	MS/MS	GC			MS/MS	GC	MR	GC/MS	MS/MS		
1		642	Bot-10	✓ 4015	x		x	x	x	x			xx	x	x	x			
2		643	3500	✓	x	x	x	x	xx	x			xx			x			
3		644	3500	✓	x	x	x	x	x	xxx						x			
4		645	3000	✓	x	xx	x	x	x	x			xx	x	x	x			
5		646	2500	✓	xx	x	x	x	x	x			xx			x			
6		647	2000	✓	x	xx	x	x	x	x			xx	x	x	x			
7		648	1500	✓	x	x	x	x	x	x			xx	x	x	x			DIC MAY HAVE BEEN FROM #6
8		649	1250	✓	x	x	x	x	x	x			xx	x	x	x			
9		650	1000	✓	xx	xx	x	x	x	x			xx	x	x	x			
10		651	800	✓	x	x	x	x	x	x			xx	x	x	x			
11		652	600	✓	x	x	x	x	x	x			xx	x	x	x			
12		653	400	✓ 400	x	x	xx	xx	x	x			xx	x	x	x			
13		654	300	✓ 300	x	x	x		x	x			xx	x	x	x			
14		655	250	✓ 250	x	x	x		x	xxx						x			
15		656	200	✓ 200	x	x	x		x	x			xx	x	x	x			
16		657	175	✓ 175	xx	x	x		x	x						x			
17		658	150	✓ 150	x	x	x		x	x			xx	x	x	x			
18		659	125	✓ 125	x	x	x		x	x						x			
19		660	100	✓ 100	x	x	x		x	x			xx	x	x	x			
20		661	75	✓ 75	x	x	x		x	x			xx			x			
21		662	50	✓ 50	x	x	xx		x	x			xx	x	x	x			
22		663	25	✓ 25	x	x	x		x	x			xx	x	x	x			
23		664	10	✓ 10	x	x	x		x	x			xx	x	x	x			
24		665	5	✓ 5	xx	x	x		x	x						x			

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

Bottom Depth:	3963	m
Transmisso Cleaned:	(Y) / N	

Time	UTC	Local
Start	1626	0926
Bottom	1736	1036
End	1915	1215

Positional Information		
Lat:	49 ° 34.01	N
Lon:	138 ° 40.06	W

▼		
Lat:	49 ° 34.10	N
Lon:	138 ° 40.16	W

▼		
Lat:	49 ° 34.03	N
Lon:	138 ° 40.06	W

Extra comments:
Deep cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P20 Event #: 81 Ship: Tully UTC Date (dd mmm yyyy): 26 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments									
			Target Pressure	Confirmed ☐ Pressure	Sal	Nut-fr	Fe <i>filt</i>	Fe <i>unfilt</i>														
1		666	300		x	x	x <i>x</i>	x <i>x</i>														
2		667	200				x	x														
3		668	150				x	x														
4																						
5																						
6																						
7																						
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18																						
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21																						
22																						
23																						
24																						

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

Bottom Depth: 3962 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2125	14:25
Bottom		14:45
End	2205	15:05

Positional Information
Start
Lat: 49 ° 34 42 N
Lon: 138 ° 39 75 W

Bottom
Lat: 49 ° 34 43 N
Lon: 138 ° 39 79 W

End
Lat: 49 ° 34 45 N
Lon: 138 ° 39 88 W

Extra comments:
Go-flo 300

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P20 Event #: 82 Ship: Tully UTC Date (dd mmm yyyy): 26 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC	Nd				
1		669	300	✓ 300	x			x					valve open			
2		670	200	✓ 200	x	x	x	x								
3		671	175	✓ 175	x	x	x	x								
4		672	100	✓ 100	x	x	x	x		x						
5		673	75	✓ 75	x			x		x						
6		674	50	✓ 50	x			x		x x						
7		675	40	✓ 40	x			x		x						
8		676	30	✓ 30	x			x		x						
9		677	25	✓ 25	x			x		x						
10		678	20	✓ 20	x x	x x	x x	x		x						
11		679	15	✓ 15	x			x		x						
12		680	10	✓ 10	x			x x		x						
13		681	5	✓ 5	x	x	x	x		x						
14		682	0	✓ 2	x	x	x	x		x						
15		683	50 (M)	✓ 50						x x	x x					
16		684	40 (M)	✓ 40						x x	x x					
17		685	5	✓ 5						x x	x x					
18		686	$\sigma = 27.22$	✓ 740								x	$\sigma = 27.22$ was at 759 at P17 740			
19		687	$\sigma = 26.52$	✓ 153								x	$\sigma = 26.52$ was at 171 at P17 150			
20		688	$\sigma = 25.69$	✓ 87								x	$\sigma = 25.69$ was at 96 at P17 90			
21		689	5	✓ 5								x				
22																
23																
24																

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

Bottom Depth: 3963 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	22:11	15:11
Bottom	22:31	15:31
End	23:09	16:09

Positional Information

Start
Lat: 49 ° 34.46 N
Lon: 138 ° 39.87 WBottom
Lat: 49 ° 34.49 N
Lon: 138 ° 39.93 WEnd
Lat: 49 ° 34.43 N
Lon: 138 ° 39.90 W

Extra comments:

DMS & Aram cast

OUT-OF-ORDER

18-1-2-3-19-4-20-5
6-15-7-16-8-9-10

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P20

Event #: 83

Ship: Tully

UTC Date (dd mmm yyyy): 26 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed ☐ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt	
1		690	800		x	x	x x	x x	
2		691	600				x	x	
3		692	400				x	x	
4									
5									
6									
7									
8									
9									
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15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): K8

Bottom Depth:	3962 m
Transmisso Cleaned:	Y / N

Time	UTC	Local
Start	23:15	16:15
Bottom	23:46	16:46
End	00:20	17:20

Positional Information		
Start	Lat: 49 ° 34.41	N
	Lon: 138 ° 39.87	W
Bottom	Lat: 49 ° 34.50	N
	Lon: 138 ° 39.93	W
End	Lat: 49 ° 34.65	N
	Lon: 138 ° 39.98	W

Extra comments:

Go-flo 800

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P24 Event #: 85 Ship: Tully UTC Date (dd:mmm:yyyy): 27 8 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC		AML								
1		693	2000	✓			x x			x								
2		694	2000	✓						x								
3		695	2000	✓						x								
4		696	2000	✓						x								
5		697	2000	✓						x								
6		698	2000	✓						x								
7		699	2000	✓						x								
8		700	2000	✓						x								
9		701	2000	✓						x								
10		702	2000	✓						x								
11		703	2000	✓						x								
12		704	2000	✓						x								
13		705	2000	✓						x								
14		706	2000	✓						x								
15		707	2000	✓						x								
16		708	2000	✓						x								
17		709	2000	✓						x								
18		710	2000	✓						x								
19		711	2000	✓						x								
20		712	2000	✓						x								
21		713	2000	✓						x								
22		714	2000	✓						x								
23		715	50 (Max)	✓	38	x		x x	x x									
24		716	5	✓		x	x	x x	x x									

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

Bottom Depth: 3985 m
Transmisso Cleaned: ☒ i N

Time	UTC	Local
Start	1715	1015
Bottom	1751	
End	1828	

Positional Information

Lat:	49 ° 50.23	N
Lon:	142 ° 39.96	W

Start

Bottom

End

Lat: 49 ° 50.19 N
Lon: 142 ° 39.99 W

Lat: 49 ° 50.22 N
Lon: 142 ° 39.96 W

Extra comments:
IOS and water for AML

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P25 Event #: 90 Ship: Tully UTC Date (dd|mmm|yyyy): 27|Aug|2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials						K5/MR						Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC	pH	DIC	DIC	DIC	DIC	DIC			
										HgCl	NoHgC	CuCl-1	CuCl-5	CuCl-10			
					MG	MG/MB	MG	MG		GC	HgCl	NoHgC	CuCl-1	CuCl-5	CuCl-10		
1	1	717	2000	✓ 2000		x				x x x	x x x	x x x					
2	2	718	2000	✓ 2000		x				x x x	x x x		x x x				final conc. 1.34uM CuCl ₂
3	3	719	2000	✓ 2000		x				x x x	x x x			x x x			final conc. 4.8 uM CuCl ₂
4	4	720	2000	✓ 2000		x				x x x	x x x				x x x		final conc. 9.6 uM CuCl ₂
5	5	721	2000	✓ 2000		x				x x x	x x x						
6	6	722	2000	✓ 2000		x											
7	7	723	2000	✓ 2000		x											
8	8	724	2000	✓ 2000		x											
9	9	725	2000	✓ 2000		x											
10	10	726	2000	✓ 2000		x											
11	11	727	2000	✓ 2000		x											
12	12	728	2000	✓ 2000		x											
13	13	729	2000	✓ 2000		x											
14	14	730	2000	✓ 2000		x											
15	15	731	2000	✓ 2000		x											
16	16	732	2000	✓ 2000		x											
17	17	733	2000	✓ 2000		x											Sal calib Container A
18	18	734	2000	✓ 2000		x											Sal calib Container A
19	19	735	2000	✓ 2000		x											Sal calib Container A
20	20	736	2000	✓ 2000		x											Sal calib Container C
21	21	737	2000	✓ 2000		x											Sal calib Container C
22	22	738	2000	✓ 2000		x											Sal calib Container C
23	23	739	50 / Max	✓ 50	x	x	x x	x x									
24	24	740	5	✓ 5	x	x	x x	x x									

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

Bottom Depth:	4145	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	2307	16:07
Bottom	2341	16:41
End	0017	17:17

Positional Information
Lat: 50 ° 0.06 N
Lon: 143 ° 36.30 W

Start

Bottom

End

Lat: 50 ° 0.04 N
Lon: 143 ° 36.29 W

Lat: 50 ° 0.05 N
Lon: 143 ° 36.41 W

Extra comments:
Calibration cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P26 Event #: 91 Ship: Tully UTC Date (dd mmm yyyy): 28 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt									
1		741	75		x	x	xx	xx									
2		742	40				x	x									
3		743	10				x	x									
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type: ROS TRM ☒ Niskin other?
Watchkeeper(s): KS SP

Bottom Depth: 4251 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	06:30	23:30
Bottom	06:46	23:46
End	06:54	23:54

Positional Information
Start
Lat: 49 ° 59.92 N
Lon: 144 ° 59.91 W

Bottom
Lat: 49 ° 59.96 N
Lon: 144 ° 59.91 W

End
Lat: 49.50 ° 00.07 N
Lon: 144 ° 59.92 W

Extra comments:
Go-flo 75

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P26

Event #:

92

Ship:

Tully

UTC Date (dd mmm/yyyy): 28 8 15

Cruise ID: 2015-10			Station: F20		Event: 1												Comments
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												
			Target Pressure	Confirmed Pressure	Cs												
1		744	500	✓		x											
2		745	500	✓		x											
3		746	500	✓		x											
4		747	500	✓		x											
5		748	500	✓		x											
6		749	500	✓		x											
7		750	400	✓		x											
8		751	400	✓		x											
9		752	400	✓		x											
10		753	400	✓		x											
11		754	400	✓		x											
12		755	400	✓		x											
13		756	300	✓		x											
14		757	300	✓		x											
15		758	300	✓		x											
16		759	300	✓		x											
17		760	300	✓		x											
18		761	300	✓		x											
19		762	200	✓		x											
20		763	200	✓		x											
21		764	200	✓		x											
22		765	200	✓		x											
23		766	200	✓		x											
24		767	200	✓		x											

http://www.pa

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): H.M./R.H.

Bottom Depth: 4250 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0704	0004
Bottom	0713	
End	0727	

Positional Information

Start	Lat: 50 ° 08 . 03 N
	Lon: 144 ° 59 . 95 W

Bottom	Lat: 50 ° 00 . 01 N
	Lon: 144 ° 59 . 98 W

End	Lat: 50 ° 00 . 02 N
	Lon: 145 ° 00 . 01 W

Extra comments:

Deep Cesium cast

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

28 08 15

Watchkeeper(s): KS HM

Transmisso Cleaned: Y / N

Start	7:40	0:30
Bottom		0:57
End	8:10	1:10

Start	Lat:	50	°	00.00	N
	Lon:	184	°	59.95	W

Bottom

Lat: 50 ° 00 05

Lon: 145 ° 00 10

Lat: 50 ° 50.07

Lon: 145 ° 00 06

Go-flo 100

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

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: 2015-10

Station: P26

Event #: 94

Ship: Tully

UTC Date (dd mmm yyyy): 28 8 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure		Niko gases											
1		771	250	✓		x x											
2		772	200	✓		x x											
3		773	175	✓		x x											
4		774	150	✓		x x											
5		775	115	✓		x x											
6		776	95	✓		x x											
7		777	80	✓		x x											
8		778	70	✓		x x											
9		779	65	✓		x x											
10		780	60	✓		x x											
11		781	55	✓		x x											
12		782	50	✓		x x											
13		783	45	✓		x x											
14		784	40	✓		x x											
15		785	40	✓		x x											
16		786	35	✓		x x											
17		787	30	✓		x x											
18		788	25	✓		x x											
19		789	20	✓		x x											
20		790	15	✓		x x											
21		791	10	✓		x x											
22		792	5	✓		x x											
23		793	2	✓		x x											
24		794	2	✓		x x											

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

Bottom Depth:	4250	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	0820	0120
Bottom	0825	
End	0943	

Positional Information
Start
Lat: 50 ° 00 . 01 N
Lon: 145 ° 00 . 02 W

Bottom
Lat: 50 ° 00 . 00 N
Lon: 145 ° 00 . 02 W

End
Lat: 50 ° 00 . 01 N
Lon: 144 ° 59 . 95 W

Extra comments:

Niko's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P26 Event #: 95 Ship: Tully UTC Date (dd mmm yyyy): 28 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒	Pressure	Sal	Nut-fr	Fe <i>filt</i>	Fe <i>unfilt</i>								
1		795	300			x	x	x x	x x								
2		796	200					x	x								
3		797	150					x	x								
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	09:05	2:05
Bottom	09:19	2:19
End	09:40	2:40

Positional Information

Lat:	49 ° 59 98	N
Lon:	145 ° 00 00	W

▼

Lat:	450 ° 00.01	N
Lon:	144 ° 59.95	W

▼

Lat:	50 ° 00.03	N
Lon:	144 ° 59 96	W

Extra comments:
Go-flo 300

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P26 Event #: 96 Ship: Tully UTC Date (dd mmm yyyy): 28 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt								
1		798	800		x	x	x x	x x								
2		799	600				x	x								
3		800	400				x	x								
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 4250 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	10:15	3:15
Bottom	10:39	3:39
End	11:10	4:10

Positional Information

Start	Lat: 49 ° 59.99 N
	Lon: 144 ° 59.92 W
Bottom	Lat: 50 ° 00.01 N
	Lon: 144 ° 59.96 W
End	Lat: 50 ° 00.00 N
	Lon: 144 ° 59.98 W

Extra comments:
 Go-flo 800

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P26

Event #: 98

Ship: Tully

UTC Date (dd mmm yyyy): 28 8 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	18O	NO3	NH4	17O	ONAr	DO	NH4	
				✓	IOS	IOS	IOS			incub					
1	2	801	Below ML		38		x				xx				
2	1	802	1%		50	x	x	x	xxx	xx	x		xx	xx	
3	3	803	15%		9	x	x	x	xxx	xx	x		xx	xx	
4	5	804	30%		4	x	x	x	xxx	x	x		xx	xx	
5	6	805	50%		3	x	x	x	xxx	x	x		xx	xx	
6	7	806	100%		2.5	x		x		xxx	xxx			xx	
7	8	807	100%		2.5				xxx		xx	xx	xx		
8	4	808	in ML		5							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): HM/LT

Bottom Depth: 4250 m
Transmisso Cleaned: Y/N

Time	UTC	Local
Start	1215	0515
Bottom	1218	
End	1226	

Positional Information

Lat:	50 ° 00.01	N
Lon:	144 ° 59.93	W

Start

Lat:	50 ° 00.00	N
Lon:	144 ° 59.95	W

Bottom

Lat:	49 ° 59.99	N
Lon:	145 ° 00.01	W

End

Extra comments:
Lianna's cast
OUT-OF-ORDER
2, 1, 3, 8, 4, 5, 6, 7

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P26

Event #:

99

Ship:

Tully

UTC Date (dd mmm yyyy): 28 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										DNA	SAGs	Céline	Comments
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	Alk	pH	Nut	MOX	Gases				
				✓	4306												NH4	
1	1	809	Bot-10	✓		x		x x	x	x	x		x	x x	x	x	x	
2	2	810	4000	✓		x	x	x x	x	x	x	x	x	x x	x	x	x	
3	3	811	3500	✓		x	x x	xxxx	x x	x x	x	x					x	
4	4	812	3000	✓		x	x	x x	x	x	x	x	x	x x	x	x	x	
5	5	813	2500	✓		x x	x x	x x	x	x	x x x	x					x	
6	6	814	2000	✓		x	x	x x	x	x	x	x	x	x x	x	x	x	
7	7	815	1500	✓		x	x	x x	x	x	x	x	x	x x	x	x	x	
8	8	816	1250	✓		x	x	x x	x	x	x	x	x	x x	x	x	x	
9	9	817	1000	✓		x	x	x x	x	x	x	x	x	x x	x	x	x	
10	10	818	800	✓		x	x	x x	x	x	x		x	x x	x	x	x	
11	11	819	600	✓		x	x	x x	x	x	x		x	x x	x	x	x	
12	12	820	400	✓		x	x	x x	x	x	x		x	x x	x	x	x	
13	13	821	300	✓		x	x	x x		x	x	x					x	
14	14	822	250	✓		x x	x	x x		x	x	x						
15	15	823	200	✓		x	x	x x		x	x	x		x	x x	x	x	
16	16	824	175	✓		x	x	xxxx		x	x	x					x	
17	17	825	150	✓		x	x	x x		x	x	x		x	x x	x	x	
18	18	826	125	✓		x	x	x x		x	x	x					x	
19	19	827	100	✓		x	x	x x		x	x	x		x	x x	x	x	
20	20	828	75	✓		x x	x	x x		x	x	x x x		x	x x		x	
21	21	829	50	✓		x	x	x x		x	x	x		x	x x	x	x	
22	22	830	25	✓		x	x	x x		x	x	x		x	x x	x	x	
23	23	831	10	✓		x	x	x x		x	x	x		x	x x	x	x	
24	24	832	5	✓		x x	x	x x		x	x	x					x	

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): M0/HM

Bottom Depth: 4248 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 1406 0706

Bottom 1527

End 1708

Positional Information

Start Lat: 50° 00.02 N

Lon: 145° 00.02 W

Bottom Lat: 50° 00.00 N

Lon: 144° 59.97 W

End Lat: 50° 00.00 N

Lon: 145° 00.05 W

Extra comments:

Deep cast

Pres on deck B4: 0.75

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P26

Event #:

101

Ship:

Tully

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

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure		Cs									
1	1	833	150	✓ 150		x									
2	2	834	150	✓ 150		x									
3	3	835	150	✓ 150		x									
4	4	836	150	✓ 150		x									
5	5	837	150	✓ 150		x									
6	6	838	150	✓ 150		x									
7	7	839	100	✓ 100		x									
8	8	840	100	✓ 100		x									
9	9	841	100	✓ 100		x									
10	10	842	100	✓ 100		x									
11	11	843	100	✓ 100		x									
12	12	844	100	✓ 100		x									
13	13	845	50	✓ 50		x									
14	14	846	50	✓ 50		x									
15	15	847	50	✓ 50		x									
16	16	848	50	✓ 50		x									
17	17	849	50	✓ 50		x									
18	18	850	50	✓ 50		x									
19	19	851	5	✓ 5		x									
20	20	852	5	✓ 5		x									
21	21	853	5	✓ 5		x									
22	22	854	5	✓ 5		x									
23	23	855	5	✓ 5		x									
24	24	856	5	✓ 5		x									

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): SP

Bottom Depth: 4250 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1856	1156
Bottom	1901	1201
End	1911	1211

Positional Information

Lat:	49 ° 59.99	N
Lon:	145 ° 0.10	W

Lat:	50 ° 0.03	N
Lon:	145 ° 0.07	W

Lat:	50 ° 0.07	N
Lon:	145 ° 0.03	W

Extra comments:

Shallow Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10

Station: P26

Event #: 102

Ship: Tully

UTC Date (dd mmm yyyy): 28 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Chl	HPLC	Phyto					Comments
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-F								
				✓	mg/L	mg/L	mg/L	mg/L	sp/mg	sp/mg	mg/L					
1	1	876	300	✓	300	x		x								valve top open
2	2	877	200	✓	200	x	x	x	x							top valve open
3	3	878	175	✓	175	x	x	x	x							
4	4	879	100	✓	100	x	x	x	x							
5	5	880	75	✓	75	x		xx	x							10 below chl max
6	6	881	50	✓	50	x		x	xx	xx						chl max
7	7	882	40	✓	40	x		x	xx	xx						
8	8	883	30	✓	30	x		x	x							
9	10	884	25	✓	25	x		x	x							
10	11	885	20	✓	20	xx	xx	xx	x	xx						
11	12	886	15	✓	15	x		x	x							
12	14	887	10	✓	10	x		x	x							
13	15	888	5	✓	5	x	x	x	x							
14	17	889	0	✓	3	x	x	x	x							
15	9	890	30 / M	✓	30				xx	xx						
16	13	891	15 / M	✓	15				xx	xx						
17	16	892	5	✓	5				xx	xx	xxx					
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 4187 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	1941	1241
Bottom	1946	1246
End	2011	1311

Positional Information

Lat:	50 ° 0.05	N
Lon:	144 ° 59.97	W

Start

Lat:	50 ° 0.05	N
Lon:	145 ° 0.00	W

Bottom

Lat:	50 ° 0.04	N
Lon:	144 ° 59.99	W

End

Extra comments:
DMS cast - OUT-OF-ORDER

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P26

Event #:

103

Ship:

Tully

UTC Date (dd mmm yyyy):

28 AUG 2015

			Rosette Operation		Samples Taken / Sampler's Initials										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	UBC	H2S										
1	1	857	2000		1000	x									Fired at 1000 by operator error. - not needed anyway SP	Not sampled due to high seas. changed max depth to 1000m
2	2	858	2000		1000											
3		859	2000													
4		860	2000													
5	3	861	1000	✓	1000	x										
6	4	862	1000	✓	1000											
7	5	863	1000	✓	1000											
8	6	864	1000	✓	1000											
9	10	865	500	✓	500	x										
10	11	866	500	✓	500											
11	12	867	500	✓	500											
12	13	868	500	✓	500											
13	15	869	10	✓	10	x										
14	16	870	10	✓	10											
15	17	871	10	✓	10											
16	18	872	10	✓	10											
17	7	873	1500	1000 ✓	1000				x							
18	8	874	4000	800 ✓	800				x							
19	9	875	600	✓	600				x							
20	14	893	400	✓	400						x					
21	19	894	10	✓	10											
22	20	895	4	✓	4											
23	21	896	4	✓	4											
24																

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): SP

Bottom Depth: 4252 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 2106 1406

Bottom 2123 1423

End 2148

Positional Information

Start Lat: 50 ° 0.11 N
Lon: 145 ° 0.04 WBottom Lat: 50 ° 0.10 N
Lon: 145 ° 0.03 WEnd Lat: 50 ° 0.13 N
Lon: 145 ° 0.05 W

Extra comments:

Jade's & Niko's cast

OUT-OF-ORDER

1-4; 17-18; 5-8; 19; 9-16, 20

CTD to 4005 dbar

Wat+

Sampling Log

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

Cruise ID:

2015-10

Station:

P22

Event #:

106

Ship:

Tully

UTC Date (dd mmm yyyy):

30 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC									
23 1	1	897	50 / Max	✓	45	x		x x	x x								original
24 2	2	898	5	✓		x	x	x x	x x								rosette start
3																	had these 2
4																	bottles triggered
5																	at 23:24
6																	Log sheet changed
7																	due to change
8																	in sampling max
9																	depth due to
10																	weather. (SP)
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

SP

Bottom Depth:

3895 m

Transmisso Cleaned:

Y / N

Time

UTC

Local

Start

0131

1831

Bottom

0150

1850

End

0212

1912

Positional Information

Lat:

49 °

42.01

N

Lon:

140 °

39.85

W

Start

Bottom

Lat:

49 °

42.01

N

Lon:

140 °

39.85

W

End

Lat:

49 °

42.01

N

Lon:

140 °

39.87

W

Extra comments:

CTD to 1005 dbar

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P21 Event #: 107 Ship: Tully UTC Date (dd mmm yyyy): 30 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC		Cs					
1	1	913	150	✓ 150						x					
2	2	914	150	✓ 150						x					
3	3	915	150	✓ 150						x					
4	4	916	150	✓ 150						x					
5	5	917	150	✓ 150						x					
6	6	918	150	✓ 150						x					
7	7	919	100	✓ 100						x					
8	8	920	100	✓ 100						x					
9	9	921	100	✓ 100						x					
10	10	922	100	✓ 100						x					
11	11	923	100	✓ 100						x					
12	12	924	100	✓ 100						x					
13	13	925	50	✓ 50						x					
14	14	926	50	✓ 50						x					
15	15	927	50	✓ 50						x					
16	16	928	50	✓ 50						x					
17	17	929	50	✓ 50						x					
18	18	930	50	✓ 50	x		XX	XX		x					
19	19	931	5	✓ 5						x					
20	20	932	5	✓ 5						x					
21	21	933	5	✓ 5						x					
22	22	934	5	✓ 5						x					
23	23	935	5	✓ 5						x					
24	24	936	5	✓ 5	x	x	XX	XX		x					

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

Bottom Depth: 3960 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0553	2253
Bottom	0556	2256
End	0605	2305

Positional Information

Lat:	49 ° 38.20	N
Lon:	139 ° 40.15	W

Start

Bottom

End

Lat: 49 ° 38.24 N
Lon: 139 ° 40.14 W

Lat: 49 ° 38.29 N
Lon: 139 ° 40.18 W

Extra comments:
2nd half of Cesium cast
only completed 2 of
2 due to weather.
#1 cast not done

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P13 Event #: 111 Ship: Tully UTC Date (dd mmm yyyy): 31 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	SAC	AML	Niko		Nd						
1		937	$\sigma = 27.22$	✓ 780					x						$\sigma = 27.22$ was at 723 at P13 on the way out
2		938	$\sigma = 26.52$	✓ 200					x						$\sigma = 26.52$ was at 188 at P13 on the way out → 200
3		939	$\sigma = 25.69$	✓ 110					x						$\sigma = 25.69$ was at 99 at P13 on the way out
4		940	5						x						
5		941	5	✓ 10			x								
6		942	2000	✓ 3000			x								Make sure Niko goes first
7		943	2000	✓	xx		x								DID NOT GET TAKEN
8		944	2000	✓			x								
9		945	2000	✓			x								
10		946	2000	✓			x								
11		947	2000	✓			x								
12		948	2000	✓			x								
13		949	2000	✓			x								
14		950	2000	✓			x								
15		951	2000	✓			x								
16		952	2000	✓			x								
17		953	2000	✓			x								
18		954	2000	✓			x								
19		955	2000	✓			x								
20		956	2000	✓			x								
21		957	2000	✓			x								
22		958	2000	✓			x								
23		959	2000	✓			x								
24		960	2000	✓			x								

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

Bottom Depth: 3013 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1500	0800
Bottom	1557	
End	165	

Positional Information

Lat:	49 ° 02.63	N
Lon:	131 ° 39.98	W

Start

Lat:	49 ° 02.60	N
Lon:	131 ° 39.96	W

Bottom

Lat:	49 ° 02.61	N
Lon:	131 ° 39.99	W

End

Extra comments:
Aram's cast, return
Hopefully CTD to bottom-10
OUT-OF-ORDER
6-24; 1-2-3-4-5 1,23,5,4

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P4 Event #: 113 Ship: Tully UTC Date (dd mmm yyyy): 01 9 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt									
1		961	100		x	x	xx	xx									
2		962	75				x	x									
3		963	50				x	x									
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: _____ m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	15:00	18:00
Bottom	15:11	08:11
End	15:18	08:18

Positional Information
Start
Lat: ° N
Lon: ° W

Bottom
Lat: 48 ° 38.74 N
Lon: 126 ° 38.81 W

End
Lat: 48 ° 38.66 N
Lon: 126 ° 39.82 W

Extra comments:
Go-flo 100
P4-return

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P4 Event #: 114 Ship: Tully UTC Date (dd mmm yyyy): 1 09 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments		
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt							
1	10	964	300		x	x	1x sound xx	1x sound xx							1 x 500um 37
2	10	965	200				x	x							
3	10	966	150				x	x							
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:
ROS TRM ☒ Niskin other?
Watchkeeper(s): KS. HLM

Bottom Depth: 320 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1540	0840
Bottom	1552	0852
End	1610	0859:08

Positional Information

Lat:	48 ° 39 05	N
Lon:	126 ° 39 73	W

Start

Bottom

End

Lat:	48 ° 38 97	N
Lon:	126 ° 39.68	W

Lat:	48 ° 38.98	N
Lon:	126 ° 39.70	W

Extra comments:

Go-flo 300

P4-return

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P25

Event #:

115

Ship:

Tully

UTC Date (dd mmm yyyy):

01 SEP 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	NVT	Plastics	chl.	Oxy	Sal	HPIC	DIC HgCl	DIC NoHgC	DIC CuCl-1	DIC CuCl-5	DIC CuCl-10	DIC CATLIN	
1	1	970	Bot-10	✓ 1324				x x									
2	4	971	1000	✓ 1000				x x	x x								final conc. 1.34uM CuCl ₂
3	5	972	800	✓ 800				x x	x x								final conc. 4.8 uM CuCl ₂
4	9	973	400	✓ 400				x x									final conc. 9.6 uM CuCl ₂
5	13	974	100	✓ 100				x x									
6	14	975	50	✓ 50				x x									
7	18	976	10	✓ 10				x x	x x								
8	19	977	5	✓ 5	x		xx	x x	x x	xx							x
9	2	978	Bot-10	✓ 1324		x											
10	3	979	1000	✓ 1000		x											
11	6	980	800	✓ 800		x											
12	7	981	600	✓ 600		x											
13	8	982	400	✓ 400		x											
14	10	983	300	✓ 300		x											
15	11	984	200	✓ 200		x											
16	12	985	100	✓ 100		x											
17	15	986	50	✓ 50		x											
18	16	987	25	✓ 25		x											
19	17	988	10	✓ 10		x											
20	20	989	5	✓ 5		x											
21	21	990	(5) Max	✓ 5					x		x x x	x x x					
22	22	991	(5) Max	✓ 5					x		x x x		x x x		TUP VALVE OPEN		final conc. 1.34uM CuCl ₂
23	23	992	(5) Max	✓ 5					x		x x x			x x x			final conc. 4.8 uM CuCl ₂
24	24	993	(5) Max	✓ 5							x x x				xxx	xxx	final conc. 9.6 uM CuCl ₂

Profile type:

☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): SP/HM

Bottom Depth: 1312 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1618	0918
Bottom	1641	0941
End	1718	1018

Positional Information

Lat:	48 ° 38.97	N
Lon:	126 ° 40.03	W

Lat:	48 ° 38.93	N
Lon:	126 ° 40.10	W

Lat:	48 ° 38.85	N
Lon:	126 ° 40.22	W

Extra comments:

P4-return

DIC exp, plastics, DO calib

OUT-OF-ORDER

1-9-10-2-3-11-12-13-4-14-15-16-5

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P4 Event #: 117 Ship: Tully UTC Date (dd mmm yyyy): 1 09 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments									
			Target Pressure	Confirmed Pressure	Sal	Nut-fr	Fe	Fe														
				✓			filt	unfilt														
1	12	967	300		900	x	x	***	***													
2	10	968	200		600			x	x													
3	6	969	150		400			x	x													
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						
18																						
19																						
20																						
21																						
22																						
23																						
24																						

Profile type: ROS TRM ☒ Niskin other?
Watchkeeper(s): KS HM

Bottom Depth: 1322 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	18:00	11:00
Bottom	18:22	11:22
End	18:51	11:51

Positional Information			
Start	Lat:	48 ° 39.00	N
	Lon:	126 ° 40.03	W
Bottom	Lat:	48 ° 39.00	N
	Lon:	126 ° 39.99	W
End	Lat:	48 ° 39.91	N
	Lon:	126 ° 39.797	W

Extra comments:
Go-flo 800
P4-return