

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: Haro 59 Event #: 2 Ship: Tully UTC Date (dd|mmm|yyyy): 16 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-F	Chl	DIC	pH								
1		1	Bot-10	✓	231	x		x		x	x							
2		2	200	✓	200	x		x		xx	xxx							
3		3	175	✓		x		x										
4		4	150	✓		xx		xx		x	x							
5		5	125	✓		x		x										
6		6	100	✓	101	x		x		x	x							
7		7	75	✓		x		x		x	x							
8		8	50	✓		x		x		x	xxx							
9		9	40	✓		x		xx										
10		10	30	✓		x		x		x	x							
11		11	20	✓		x		x	xx	x	x							
12		12	10	✓		x		x	xx	x	x							
13		13	5	✓		x	x	x		xx	x							
14		14	0	✓		xx		x	xx	x	x							3.55
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: ROS TRM X-Niskin other?
Watchkeeper(s): MGBottom Depth: 236 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2037	1337
Bottom	2041	
End	2059	

Positional Information
Start
Lat: 48 ° 36.88 N
Lon: 123 ° 14.95 WBottom
Lat: 48 ° 36.89 N
Lon: 123 ° 14.96 WEnd
Lat: 48 ° 36.94 N
Lon: 123 ° 15.09 WExtra comments: ~ 90 M
STOP FOR LO WIRE
STARTED ARCHIVING
IMMEDIATELY HAVE
TO CHANGE BOT

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08

Station: JF2

Event #: 7

Ship: Tully

UTC Date (dd|mmm|yyyy): 17 | 08 | 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓	Pressure	Oxy	Sal	Nut-F	Chl	HPLC	DIC	pH	Gases					
						MG	MG	CH/BS	BS	MG	MR	GC	CZ					
1		15	Bot-10	✓	180	x		xx			x	x						
2		16	150	✓		x		x			x	xxx						
3		17	125	✓		x		x			xx	x						
4		18	100	✓		xx		x			x	x						
5		19	75	✓		x		x			x	x						
6		20	50	✓		x		xx			x	x						
7		21	40	✓		x		x			xx	x						
8		22	30	✓		x		x			x	xxx						
9		23	20	✓		x		x	xx		x	x						
10		24	10	✓		x		x	xx		x	x						
11		25	5	✓		xx	x	x			x	x	xx					
12		26	0	✓		x		x	xx	xx	x	x						2.1
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 186 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0306	2006
Bottom	0310	
End	0324	

Positional Information

Lat:	48 ° 18.15	N
Lon:	123 ° 59.91	W

Start

Lat: 48 ° 18.17 N
Lon: 123 ° 59.91 W

Bottom

Lat: 48 ° 18.24 N
Lon: 123 ° 59.94 W

End

Extra comments:
Plus two OXY loops CZ

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P1 Event #: 11 Ship: Tully UTC Date (dd|mmm|yyyy): 17 | 7 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto			
1	1	27	Bot-10	✓ 110	x		x				xx	x					
2	2	28	30	✓	x		x		xx		x	xxx					
3	3	29	5	✓	xx	x	x				x	x	xx				
4	4	30	5	✓			x	xx	xx					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): H.M.

Bottom Depth: 120 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1048	
Bottom	1045	
End		

Positional Information

Lat:	48 ° 34 55	N
Lon:	125 ° 30 16	W

▼

Lat:	48 ° 34 53	N
Lon:	125 ° 30 16	W

▼

Lat:	48 ° 34 56	N
Lon:	125 ° 30 20	W

Extra comments:
Phyto: lugol only

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P2 Event #: 13 Ship: Tully UTC Date (dd|mmm|yyyy): 17 | 8 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-F	Nut-C	DIC	pH	Gases	DOC	DOC				
					HK		PM		HK	GL	C2	Acid	non-f				
1		31	Bot-10		107	x		x		x	x		x	x			
2		32	100	✓		x x		x		x	x		x	x			
3		33	75	✓		x		x		x x	x		x	x			
4		34	75	✓		x		x		x	x x x						
5		35	50	✓		x		x		x	x		x	x			
6		36	25	✓		x		x x		x	x		x	x			
7		37	10	✓		x		x		x	x		x	x			
8		38	5	✓		x	x	x		x	x	x x	x	x			
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 115 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1353	0653
Bottom	1356	
End	1404	

Positional Information

Lat:	48 ° 36 01	N
Lon:	125 ° 59 94	W

Start

Lat:	48 ° 35 99	N
Lon:	125 ° 59 96	W

Bottom

Lat:	48 ° 35 97	N
Lon:	125 ° 59 98	W

End

Extra comments:
Deep cast

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P2

Event #:

16

Ship:

Tully

UTC Date (dd|mmm|yyyy):

17 | 8 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓	Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	UVic	Bugs	DA	Phyto		
						HR	t MP	d MP	PM	PM	PM/HR	TV	TV	HR	HR		
1		39	100	✓									x				
2		40	100	✓		x	x	x	x	x		x					
3		41	75	✓		x			x	x		x					
4		42	50	✓		x			x	x		x					Closed @ 75!
5		43	50	✓									x				
6		44	40	✓		x			x	x							
7		45	30	✓		x	x	x	x	xx	xx						Fluo 1
8		46	25	✓		x			x	xx	xx						Fluo 1
9		47	20	✓		xx	xx	xx	x	xx	xx	x					Fluo 1
10		48	15	✓		x			xx	xx	xx						Fluo 2L
11		49	10	✓		x			x	xx	xx						Fluo 2
12		50	5	✓		x	x	x	x			x					
13		51	5	✓						xx	xx			x	x		Fluo 2
14		52	5	✓									x				
15		53	0	✓		x	x	x	x	x							
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 114 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1505	0805
Bottom	1507	
End	1521	

Positional Information

Start
Lat: 48 ° 36 00 N
Lon: 125 ° 59 94 W

Bottom
Lat: 48 ° 36 00 N
Lon: 125 ° 59 94 W

End
Lat: 48 ° 35 98 N
Lon: 125 ° 59 94 W

Extra comments:

DMS cast

Phyto: Lugol only

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P3 Event #: 17 Ship: Tully UTC Date (dd|mmm|yyyy): 17 | 8 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments		
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto				
1	1	54	5				x	x	xx	xx	x			xx	x			
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): H.M.Bottom Depth: 238.815 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	17 57	1052
Bottom	1807	
End	17	

Positional Information
Start
Lat: 48 ° 37 50 N
Lon: 126 ° 20 03 WBottom
Lat: 48 ° 37 45 N
Lon: 126 ° 19 47 WEnd
Lat: 48 ° 37 N
Lon: 126 ° 20 WExtra comments:
Phyto: lugol only

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P4 Event #: 18 Ship: Tully UTC Date (dd|mmm|yyyy): 17 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Nut-C	Fe	CuLi	T/Br					
1		55	100		x	x		x		x					
2		56	50			x		x		x					
3		57	25			x		x	x x x	x					
4		58	10			x		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): MG

Bottom Depth: 1316 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	<u>2031</u>	<u>1310</u>
Bottom		
End	<u>2101</u>	

Positional Information

Lat:	<u>48 ° 38 96</u>	<u>N</u>
Lon:	<u>126 ° 39 59</u>	<u>W</u>

Start

Lat:	°	<u>N</u>
Lon:	°	<u>W</u>

Bottom

Lat:	°	<u>N</u>
Lon:	°	<u>W</u>

End

Lat:	<u>48 ° 38 93</u>	<u>N</u>
Lon:	<u>126 ° 39 94</u>	<u>W</u>

Extra comments:
 Go-flo to 100 m
 STARTED ARCHIVED PROFILES
 SO SAVED DATA AS WELL

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P4

Event #:

19

Ship:

Tully

UTC Date (dd|mm|yyyy):

11 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	Phyto	UVic	DA	bugs			
1		59	300	✓	301	x			x								STOPPED @ 1200 TO GO BACK TO 300 TO TRIP
2		60	250	✓					x								BOTTLES
3		61	200	✓		x	x	x	x								
4		62	150	✓		x	x	x	xx			x					
5		63	100	✓		x			x	x							
6		64	100	✓										x			
7		65	75	✓		x			x	x							Fluo 0.293
8		66	60	✓					x	xx	xx				x		
9		67	50	✓													Fluo 0.256
10		68	50	✓		x			x	xx	xx		x				Fluo 0.427
11		69	40	✓		x			x	xx	xx						Fluo 1.053
12		70	30	✓		x	x	x	x	xx	xx						Fluo 1.232
13		71	25	✓		x			x	x							2.356
14		72	20	✓		xx	xx	xx	x	x			x				Fluo 2.82
15		73	15	✓		x			x	xx	xx						
16		74	10	✓		x			x	x			x				
17		75	5	✓					x	xx	xx	xxx		x			
18		76	5	✓										x			
19		77	5	✓		x	x	x									
20		78	0			x	x	x	x	x							
21																	
22																	
23																	
24																	

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

Bottom Depth:	1316	m
Transmisso Cleaned:	Y / N	

Time	UTC	Local
Start	2110	1310
Bottom	2119	
End	2140	

Positional Information
Start
Lat: 48 ° 38.86 N
Lon: 126 ° 39.87 W

Bottom
Lat: 48 ° 38.85 N
Lon: 126 ° 39.83 W

End
Lat: 48 ° 38.80 N
Lon: 126 ° 39.72 W

Extra comments:
DMS cast
Will also have loops for Chl x2
UNDER WRONG # SHOULD BE 19 NO ALL GOOD!

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P4

Event #:

22

Ship:

Tully

UTC Date (dd|mmm|yyyy):

17 | 08 | 17

Niskin # Firing # Sample #

Rosette Operation
Target Pressure Confirmed ☒ Pressure

Samples Taken / Sampler's Initials
Sal Nut-fr Nut-C Fe CuLi T/Br

Comments

1		79	500			x	x	x	x		x									
2		80	300				x		x		x									
3		81	200				x		x		x									
4		82	150				x		x		x									
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

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

Bottom Depth: m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2301	1601
Bottom	2331	
End	2359	

Positional Information

Start
Lat: 48° 39.08 N
Lon: 126° 39.91 W

Bottom
Lat: 48° 39.88 N
Lon: 126° 39.83 W

End
Lat: 48° 39.10 N
Lon: 126° 39.78 W

Extra comments:

Go-flo to 500 m

<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: 2017-08 Station: P4 Event #: 23 Ship: Tully UTC Date (dd/mm/yyyy): 18 AUG 2017

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	DOC	DOC	Gels	
					mg/L	B	B	CZ HR	MR	GC	AA GC	CM	CM	acid	n-filt	TV MR	
1	1	83	Bot-10	✓	1320	x	x	x		x	x	xx	x	x	x	x	
2	2	84	1250	✓		x	x	x	x	xx	x	xx	x				SPIKE in TRANS ↑ 1200
3	3	85	1250	✓		xx	x	x	xx	x	x			x	x	x	
4	4	86	1000	✓		x	x	x	xx	x	x	xx	x	x	x	x	
5	5	87	800	✓		x	x	x	x	x	x	xx	x	x	x	x	
6	6	88	600	✓		x	xx	xx		x	x	xx	x	x	x	x	
7	7	89	400	✓	400	x	x	x		x	x	xx	x	x	x	x	
8	8	90	300	✓	299	x	x			x	x	xx	x	x	x	x	
9	9	91	250	✓		x	x			x	xxx			x	x	x	
10	10	92	200	✓		x	x			x	x	xx	x	x	x	x	
11	11	93	175	✓	176	xx	x			x	x			x	x	x	
12	12	94	150	✓	151	x	x			x	x	xx	x	x	x	x	
13	13	95	125	✓		x	xx			x	x			x	x	x	
14	14	96	100	✓		x	x			x	x	xx	x	x	x	x	
15	15	97	75	✓		x	x			x	xxx			x	x	x	
16	16	98	50	✓		x	x			x	x	xx	x	x	x	x	
17	17	99	25	✓	26	x	x			x	x	xx	x	x	x	x	
18	18	100	10	✓		x	x			x	x	x		x	x	x	
19	19	101	5	✓		xx	x		x	x	x	xx		x	x	x	
20																	
21																	
22																	
23																	
24																	

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

Watchkeeper(s): MG

Bottom Depth: 1313 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0044	1744
Bottom	0105	
End	0147	

Positional Information

Lat: 48 ° 39.01 N

Lon: 126 ° 39.97 W

Lat: 48 ° 39.00 N

Lon: 126 ° 39.99 W

Lat: 48 ° 39.06 N

Lon: 126 ° 39.95 W

Extra comments:

Deep cast

Plus loops 2x Oxy, 1x Sal, 1x Nut

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P4

Event #:

25

Ship:

Tully

UTC Date (dd|mmm|yyyy):

18|08|18

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	Sal	Nut-fr	Nut-C	Fe	CuLi	T/Br									
1		102	1250 1275			x	x	x	x		x x								
2		103	1150				x	x	x		x x								
3		104	1000				x	x	x x		x								
4		105	750				x	x	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): MG

Bottom Depth: 1323 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0411	2119
Bottom	0504	
End	0603	

Positional Information

Start
Lat: 48 ° 39.02 N
Lon: 126 ° 40.56 WBottom
Lat: 48 ° 39.04 N
Lon: 126 ° 41.03 WEnd
Lat: 48 ° 38.85 N
Lon: 126 ° 41.46 W

Extra comments:

Go-flo to ~1275 m

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P4 Event #: 26 Ship: Tully UTC Date (dd|mmm|yyyy): 18|08|17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure		Cesium									
1	1	122	150	✓ 150		x									
2	2	123	150	✓		x									
3	3	124	150	✓		x									
4	4	125	150	✓		x									
5	5	126	150	✓		x									
6	6	127	150	✓		x									
7	7	128	100	✓		x									
8	8	129	100	✓		x									
9	9	130	100	✓		x									
10	10	131	100	✓		x									
11	11	132	100	✓		x									
12	12	133	100	✓		x									
13	13	134	50	✓		x									
14	14	135	50	✓		x									
15	15	136	50	✓		x									
16	16	137	50	✓		x									
17	17	138	50	✓		x									
18	18	139	50	✓		x									
19	19	140	5	✓		x									
20	20	141	5	✓		x									
21	21	142	5	✓		x									
22	22	143	5	✓		x									
23	23	144	5	✓		x									
24	24	145	5	✓		x									

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

Bottom Depth: 1333 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0614	2314
Bottom	0617	
End	0624	

Positional Information

Lat:	48 °	38.81	N
Lon:	126 °	41.37	W

Start

Bottom

Lat:	48 °	38.79	N
Lon:	126 °	41.35	W

End

Lat:	48 °	38.74	N
Lon:	126 °	41.31	W

Extra comments:
Shallow Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P4 Event #: 27 Ship: Tully UTC Date (dd|mmm|yyyy): 10 | 8 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓	Pressure	Cesium									
1	1	146	500	✓		x									
2	2	147	500	✓		x									
3	3	148	500	✓		x									
4	4	149	500	✓		x									
5	5	150	500	✓		x									
6	6	151	500	✓		x									
7	7	152	400	✓		x									
8	8	153	400	✓		x									
9	9	154	400	✓		x									
10	10	155	400	✓		x									
11	11	156	400	✓		x									
12	12	157	400	✓		x									
13	13	158	300	✓		x									
14	14	159	300	✓		x									
15	15	160	300	✓		x									
16	16	161	300	✓		x									
17	17	162	300	✓		x									
18	18	163	300	✓		x									
19	19	164	200	✓		x									
20	20	165	200	✓		x									
21	21	166	200	✓		x									
22	22	167	200	✓		x									
23	23	168	200	✓		x									
24	24	169	200	✓		x									

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

Bottom Depth: 1328 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0651	2351
Bottom	0701	
End	0716	

Positional Information

Lat:	48 ° 38 91	N
Lon:	126 ° 40 64	W

Start

▼

Lat:	48 ° 38 91	N
Lon:	126 ° 40 72	W

Bottom

▼

Lat:	48 ° 38 88	N
Lon:	126 ° 40 66	W

End

Extra comments:
Deep Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P4 Event #: 29 Ship: Tully UTC Date (dd|mmm|yyyy): 18 | 8 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	UBC												
1	1	106	Bot-10	✓ 1314	x												
2	2	107	Bot-10	✓													
3	3	108	Bot-10	✓													
4	4	109	Bot-10	✓													
5	5	110	1000	✓	x												
6	6	111	1000	✓													
7	7	112	1000	✓													
8	8	113	1000	✓													
9	9	114	500	✓	x												
10	10	115	500	✓													
11	11	116	500	✓													
12	12	117	500	✓													
13	13	118	10		x												
14	14	119	10														
15	15	120	10														
16	16	121	10														
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 1304 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0820	0120
Bottom	0844	
End	0910	

Positional Information

Lat:	48 ° 38 07	N
Lon:	126 ° 39 98	W

Start

Lat:	48 ° 39 00	N
Lon:	126 ° 39 79	W

Bottom

Lat:	48 ° 39 03	N
Lon:	126 ° 39 84	W

End

Extra comments:
UBC cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P5 Event #: 30 Ship: Tully UTC Date (dd|mmm|yyyy): 18 | 0 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target	Confirmed	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto		
			Pressure	√ Pressure												
1	1	170	5			x	x	xx	xx				xx			
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 2097 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1150	0450
Bottom	1226	
End	1301	

Positional Information

Lat:	48 ° 41 50	N
Lon:	127 ° 09 98	W

▼

Lat:	48 ° 41 37	N
Lon:	127 ° 09 87	W

▼

Lat:	48 ° 41 45	N
Lon:	127 ° 09 85	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P6 Event #: 31 Ship: Tully UTC Date (dd/mmm/yyyy): 18 / 0 / 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments	
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto			
1	1	171	5			x	x	xx	xx				xx				
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

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

Time	UTC	Local
Start	1546	0846
Bottom	1619	
End	1651	

Positional Information
Start
Lat: 48 ° 44 58 N
Lon: 127 ° 40 02 W

Bottom
Lat: 48 ° 44 61 N
Lon: 127 ° 39 99 W

End
Lat: 48 ° 44 56 N
Lon: 127 ° 40 00 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P7

Event #:

32

Ship:

Tully

UTC Date (dd|mmm|yyyy): 18 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto			
1	1	172	5	☒ 5.3		x	x	xx	xx				xx				
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 2502 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1932	1232
Bottom	2005	
End	2041	

Positional Information

Start
 Lat: 48 ° 46.58 N
 Lon: 128 ° 09.80 W

Bottom
 Lat: 48 ° 46.52 N
 Lon: 128 ° 09.98 W

End
 Lat: 48 ° 46.55 N
 Lon: 128 ° 10.24 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08

Station: P8

Event #: 33

Ship: Tully

UTC Date (dd|mmm|yyyy): 18|08|17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut Fr	Nut C	Chl	HPLC	DOC acid	DOC n-filt	UBC gases	UVic				
1		173	2000	✓ 2000	x	xx	x	x			x	xx	xx					
2		174	1500	✓ 1500	x	x	x	x			x	xx	xx					
3		175	1250	✓ 1250	x	x	xx	xx			x	xx	xx					
4		176	1000	✓ 1000	x	xx	x	x			x	xx	xx					
5		177	800	✓ 799	x	x	x	x			x	xx	xx					
6		178	600	✓ 601	xx		x	x			x	xx	xx					
7		179	400	✓ 401	x		x	x			x	xx	xx					
8		180	300	✓ 300	x		x				x	xx	xx					
9		181	250	✓ 250	x		x				x	xx		x				
10		182	200	✓ 200	x		x				x	xx	xx					
11		183	175	✓ 175	x		x				x	xx						
12		184	150	✓ 150	x		xx				x	xx	xx	x				
13		185	100	✓ 101	xx		x		x		x	xx	xx					
14		186	75	✓ 75	x		x		x		x	xx						
15		187	60	✓ 60	x		x		xx	xx	x	xx						
16		188	50	✓ 50	x		x		xx	xx	x	xx	xx	x				
17		189	40	✓ 40	x		x		xx	xx	x	xx						
18		190	30	✓ 30	x		x		xx	xx	x	xx						
19		191	25	✓ 25	x		x		x		x	xx	xx					
20		192	20	✓ 20	x		x		x		x	xx		x				
21		193	15	✓ 15	x		x		xx	xx	x	xx						F 0.35
22		194	10	✓ 10	x		x		x		x	xx		x				
23		195	5	✓ 5.8	xx	x	x				x	xx	xx					
24		196	5	✓ 5.7			x		xx	xx				x				F

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

Bottom Depth: 2516 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start 232	2325	1625
Bottom	2359	
End	0059	1759

Positional Information

Lat: 48 ° 48.99	N
Lon: 128 ° 39.99	W

Bottom

Lat: 48 ° 49.06	N
Lon: 128 ° 40 12	W

End

Lat: 48 ° 48.91	N
Lon: 128 ° 40.16	W

Extra comments:
Will also have loops for Sal x1,
Nut x1, Chl x2, Oxy x2
5033A @ 1950
First sample 10st.

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P9 Event #: 37 Ship: Tully UTC Date (dd/mm/yyyy): 19/08/17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto			
1	1	197	5	✓ 5.03		x	x	xx	xx				xx				
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Watchkeeper(s): MG

Bottom Depth: 2340 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0551	1051
Bottom	0626	
End	0659	

Positional Information

Start Lat: 48 ° 51.33 N

Start Lon: 129 ° 09.95 W

Bottom Lat: 48 ° 51.37 N

Bottom Lon: 129 ° 09.86 W

End Lat: 48 ° 51.37 N

End Lon: 129 ° 09.84 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P10 Event #: 38 Ship: Tully UTC Date (dd|mmm|yyyy): 19 8 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure			Cs								
1		198	200	✓			x								
2		199	200	✓			x								
3		200	200	✓			x								
4		201	200	✓			x								
5		202	200	✓			x								
6		203	200	✓			x								
7		204	150	✓			x								
8		205	150	✓			x								
9		206	150	✓			x								
10		207	150	✓			x								
11		208	150	✓			x								
12		209	150	✓			x								
13		210	100	✓			x								
14		211	100	✓			x								
15		212	100	✓			x								
16		213	100	✓			x								
17		214	100	✓			x								
18		215	100	✓			x								
19		216	50	✓			x								
20		217	50	✓			x								
21		218	50	✓			x								
22		219	50	✓			x								
23		220	50	✓			x								
24		221	50	✓			x								

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

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

Time	UTC	Local
Start	0936	0236
Bottom	0939	
End	0949	

Positional Information

Start	Lat: 48 ° 53 54 N
	Lon: 129 ° 40 01 W

Bottom

Lat: 48 ° 53 54 N
Lon: 129 ° 40 01 W

End

Lat: 48 ° 53 54 N
Lon: 129 ° 40 02 W

Extra comments:
 Cesium 200m cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P10 Event #: 39 Ship: Tully UTC Date (dd|mmm|yyyy): 19|8|17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	chl	HPLC	Gases	Cs						
1		222	500	✓						x						
2		223	500	✓						x						
3		224	500	✓						x						
4		225	500	✓						x						
5		226	500	✓						x						
6		227	500	✓						x						
7		228	400	✓						x						
8		229	400	✓						x						
9		230	400	✓						x						
10		231	400	✓						x						
11		232	400	✓						x						
12		233	400	✓						x						
13		234	300	✓						x						
14		235	300	✓						x						
15		236	300	✓						x						
16		237	300	✓						x						
17		238	300	✓						x						
18		239	300	✓						x						
19		240	5							x						
20		241	5							x						
21		242	5							x						
22		243	5							x						
23		244	5							x						
24		245	5			x	x	xx	xx	xx	x					

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

Bottom Depth: 2637 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	1013	0313
Bottom	1047	
End	1125	

Positional Information
Start
Lat: 48 ° 53 61 N
Lon: 129 ° 40 04 W

Bottom
Lat: 48 ° 53 62 N
Lon: 129 ° 39 97 W

End
Lat: 48 ° 53 61 N
Lon: 129 ° 39 97 W

Extra comments:
Cesium + IOS cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P11 Event #: 40 Ship: Tully UTC Date (dd|mmm|yyyy): 19 | AUG | 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed √ Pressure	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto				
1	1	246	5			x	x	xx	xx				xx					
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 2750 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1350	0658
Bottom	1434	
End	1508	

Positional Information
Start
Lat: 48 ° 55.99 N
Lon: 130 ° 09.97 W

Bottom
Lat: 48 ° 56.07 N
Lon: 130 ° 09.97 W

End
Lat: 48 ° 55.99 N
Lon: 130 ° 10.03 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P12

Event #:

42

Ship:

Tully

UTC Date (dd|mmm|yyyy):

19 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target	Confirmed	Sal	Nut-fr	Nut-C	Fe	Fe	CuLi	T/Br								
			Pressure	✓ Pressure				filt	non-filt										
1		247	150			x	x		x	x		x							
2		248	100				x		x	x		x							
3		249	50				x		x	x		x							
4		250	25				x		x	x	x x x	x							
5		251	10				x		x	x		x							
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 3234 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1803	1103
Bottom	1816	
End	1833	

Positional Information

Lat:	48 ° 58.28	N
Lon:	130 ° 39.96	W

Start

Bottom

Lat:	48 ° 58.24	N
Lon:	130 ° 39.95	W

End

Lat:	48 ° 58.19	N
Lon:	130 ° 39.99	W

Extra comments:
Go-flo to 150 m

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P12 Event #: 43 Ship: Tully UTC Date (dd|mmm|yyyy): 19 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	DA	UVic			
					MR	MA	d MA	TV	AA	C2/ML	MA	TV			
1		252	300	✓ 300	x			x							ALREADY ARCHIVING @ LAUNCH
2		253	250	✓ 250				x				x			#1 NOT CLOSED @ SP100
3		254	200	✓ 200	x	x	x	x							
4		255	150	✓ 150	x	x	x	x				x			
5		256	100	✓ 100	x			x	x						
6		257	75	✓ 75	x			x	x						
7		258	60	✓ 60				x	xx	xx					Fluo 2.35
8		259	50	✓ 50	x			x	xx	xx		x			Fluo 2.21
9		260	40	✓ 40	x			x	xx	xx					Fluo 1.93
10		261	30	✓ 30	x	x	x	x	xx	xx					Fluo 0.85
11		262	25	✓ 25	x			x	x						
12		263	20	✓ 20	xx	xx	xx	x	x			x			
13		264	15	✓ 15	x			x	xx	xx					Fluo 0.61
14		265	10	✓ 10	x			xx	x			x			
15		266	5	✓ 5	x	x	x	x				x			
16		267	5	✓ 5				x	xx	xx	x				Fluo 0.35
17		268	0	✓ 1.5	x	x	x	x	x						
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 3238 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1841	1141
Bottom	1845	
End	1906	

Positional Information

Lat:	48 ° 58.18	N
Lon:	130 ° 39.99	W

Start

Bottom

Lat:	48 ° 58.19	N
Lon:	130 ° 39.99	W

End

Lat:	48 ° 58.28	N
Lon:	130 ° 40.13	W

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

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P12 Event #: 46 Ship: Tully UTC Date (dd|mmm|yyyy): 19 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target	Confirmed	Sal	Nut-fr	Nut-C	Fe	Fe	CuLi	T/Br							
			Pressure	√ Pressure														
1		269	1000		x	x	x	x	x		x							
2		270	750			x	x	x	x		x							
3		271	500			x	x	x	x		x							
4		272	300			x		x	x		x							
5		273	200			x		x	x		x							
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 3235 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2041	1341
Bottom	2133	
End	2218	

Positional Information
Start
Lat: 48 ° 38.20 N
Lon: 130 ° 39.99 W

Bottom
Lat: 48 ° 58.01 N
Lon: 130 ° 40.16 W

End
Lat: 48 ° 57.89 N
Lon: 130 ° 40.01 W

Extra comments:
Go-flo to 1000 m
Bottle dropped - no
Bottle 5 samples

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08

Station: P12

Event #: 47

Ship: Tully

UTC Date (dd|mmm|yyyy): 19 | 08 | 17

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	DOC	DOC	Gels		
				✓		MB/NT	TV/NA	TV/NA	CZ	MB/NA	GC	ALL	CZ/CUL	AA	acid	n-filt	TV/CUL	
1	1	274	Bot-10	✓	3275	x	x	x		x	x	x	xx	x	x	xx	x	
2	2	275	3000	✓	3001	xx	x	x	x	xx	x							
3	3	276	3000	✓	3000	x	x	x	xx	x	x	xx	x	x	xx	x		
4	4	277	2500	✓	2500	x	x	x	xx	x	xxx			x	xx	x		
5	5	278	2000	✓	2000	x	x	x	x	x	x	xx	x	x	xx	x		
6	6	279	1500	✓	1500	x	xx	xx	x	x	x	xx	x	x	xx	x		
7	7	280	1250	✓	1250	x	x	x	x	x	x	xx	x	x	xx	x		
8	8	281	1000	✓	1000	x	x	x	x	x	x	xx	x	x	xx	x		
9	9	282	800	✓	800	x	x	x		x	x	xx	x	x	xx	x		
10	10	283	600	✓	600	x	x	x		x	x	xx	x	x	xx	x		
11	11	284	400	✓	400	x	x	x		x	x	xx	x	x	xx	x		
12	12	285	300	✓	300	x	x			x	x	xx	x	x	xx	x		
13	13	286	250	✓	250	xx	xx			x	x			x	xx	x		
14	14	287	200	✓	200	x	x			x	x	xx	x	x	xx	x		
15	15	288	175	✓	175	x	x			x	xxx			x	xx	x		
16	16	289	150	✓	150	x	x			x	x	xx	x	x	xx	x		
17	17	290	125	✓	125	x	x			x	x			x	xx	x		
18	18	291	100	✓	100	x	x			x	x	x	xx	x	xx	x		
19	19	292	75	✓	75	x	x			x	x			x	xx	x		0.45
20	20	293	50	✓	50	x	x			x	x	x	xx	x	x	xx	x	1.85
21	21	294	25	✓	25	x	x			x	x	x	xx	x	x	xx	x	1.18
22	22	295	10	✓	11	x	x			x	x	x		x	x	xx	x	
23	23	296	5	✓	5	xx	x		x	x	x	xx		x	xx	x		
24																		

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

Bottom Depth: 3236 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2232	1532
Bottom	2332	
End	0054	

Positional Information

Lat:	48 ° 58.23	N
Lon:	130 ° 39.96	W

Bottom

Lat:	48 ° 58.21	N
Lon:	130 ° 39.95	W

End

Lat:	48 ° 58.13	N
Lon:	130 ° 40.00	W

Extra comments:
Deep cast
Plus loops 2x Oxy, 1x Sal, 1x Nut

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P12 Event #: 49 Ship: Tully UTC Date (dd/mm/yyyy): 19/08/17

			Rosette Operation		Samples Taken / Sampler's Initials										Comments		
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ☐ Pressure	Sal	Nut-fr	Nut-C	Fe	Fe	CuLi	T/Br						
1		297	3000			x	x	x	x	x		x x					
2		298	2500				x	x	x	x		x x					
3		299	2000				x	x	x	x		x x					only single T/Br
4		300	1500				x	x	x	x		x x					11
5		301	1250				x	x	x	x		x x					11
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): HIG AM/B

Bottom Depth: 3234 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0228	
Bottom	0339	
End	0510	

Positional Information

Lat:	48 ° 58.22	N
Lon:	130 ° 39.96	W

▼

Lat:	48 ° 58.10	N
Lon:	130 ° 40.00	W

▼

Lat:	48 ° 58.03	N
Lon:	130 ° 39.75	W

Extra comments:
Go-flo to 3000 m

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P12 Event #: 50 Ship: Tully UTC Date (dd|mmm|yyyy): 20 | 08 | 17

Cruise ID: 2017-08			Station: 112		Event ID: 1												Comments	
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													
			Target Pressure	Confirmed Pressure	UBC													
1		302	2000	✓	2000		x											
2		303	2000	✓														
3		304	2000	✓														
4		305	2000	✓														
5		306	1000	✓	1000		x											
6		307	1000	✓														
7		308	1000	✓														
8		309	1000	✓														
9		310	500	✓	500		x											
10		311	500	✓														
11		312	500	✓														
12		313	500	✓														
13		314	10	✓	10		x											
14		315	10	✓														
15		316	10	✓														
16		317	10	✓														
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Watchkeeper(s): MG

Bottom Depth: 3235 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0528	2228
Bottom	0600	
End	0641	

Positional Information

Start

Lat: 48 ° 58.12 N

Lon: 130 ° 40.05 W

Bottom

Lat: 48 ° 58.13 N

Lon: 130 ° 40.03 W

End

Lat: 48 ° 58.22 N

Lon: 130 ° 40.01 W

Extra comments:

UBC cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P13 Event #: 52 Ship: Tully UTC Date (dd|mmm|yyyy): 20 | 8 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto			
1	1	318	5			x	x	xx	xx				xx				
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 3083 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1256	0556
Bottom	1331	
End	1405	

Positional Information

Lat:	49 ° 02 64 N
Lon:	131 ° 40 00 W

Start

Lat:	49 ° 02 65 N
Lon:	131 ° 39 98 W

Bottom

Lat:	49 ° 00 61 N
Lon:	131 ° 39 90 W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P14 Event #: 53 Ship: Tully UTC Date (dd|mmm|yyyy): 2017-08-17

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓	Pressure	CHL	HPLC	Nut	Sal	DOC acid	DOC n-filt	Gases						
1	1	319	Bot-10	✓	3360				x	x	xx							#1 LOOKING PASSED CAP NOT SITTING PROPERLY
2	2	320	3000	✓	3001				x	x	xx							
3	3	321	2500	✓	2500				x	x	xx							
4	4	322	2250	✓	2250				x	x	xx							
5	5	323	2000	✓	2000				x	x	xx							
6	6	324	1750	✓	1750				x	x	xx							
7	7	325	1500	✓	1500				x	x	xx							
8	8	326	1250	✓	1251				x	x	xx							
9	9	327	1000	✓	1000				x	x	xx							
10	10	328	800	✓	800				x	x	xx							
11	11	329	600	✓	600				x	x	xx							
12	12	330	400	✓	401				x	x	xx							
13	13	331	300	✓	301				x	x	xx							
14	14	332	250	✓	251				x	x	xx							
15	15	333	200	✓	200				x	x	xx							
16	16	334	175	✓	175				x	x	xx							
17	17	335	150	✓	151				x	x	xx							
18	18	336	125	✓	125				x	x	xx							
19	19	337	100	✓	101				x	x	xx							
20	20	338	75	✓	75				x	x	xx							
21	21	339	50	✓	50				x	x	xx							
22	22	340	25	✓	25				x	x	xx							
23	23	341	10	✓	10				x	x	xx							
24	24	342	5	✓	5	xx	xx	x	x	x	xx	xx						

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

Bottom Depth: 3317 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1934	1234
Bottom	2034	
End	2200	

Positional Information

Lat:	49 ° 07.43	N
Lon:	132 ° 39.91	W

Start

Lat:	49 ° 07.36	N
Lon:	132 ° 40.01	W

Bottom

Lat:	49 ° 07.39	N
Lon:	132 ° 40.02	W

End

Extra comments:
 DOC cast

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P15

Event #:

55

Ship:

Tully

UTC Date (dd|mmm|yyyy):

21 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials														Comments
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto					
1	1	343	5	✓ 5		x	x	xx	xx				xx						
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

MG

Bottom Depth: 3405 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 0305 2005

Bottom 0339

End 0412

Positional Information

Lat: 49 ° 12.02 N

Lon: 133 ° 39.92 W

Lat: 49 ° 12.07 N

Lon: 133 ° 40.08 W

Lat: 49 ° 12.00 N

Lon: 133 ° 40.19 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P16 Event #: 56 Ship: Tully UTC Date (dd|mmm|yyyy): 21|8|17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Cesium										
1	1	344	500	☒	x										
2	2	345	500	☒	x										
3	3	346	500	☒	x										
4	4	347	500	☒	x										
5	5	348	500	☒	x										
6	6	349	500	☒	x										
7	7	350	400	☒	x										
8	8	351	400	☒	x										
9	9	352	400	☒	x										
10	10	353	400	☒	x										
11	11	354	400	☒	x										
12	12	355	400	☒	x										
13	13	356	300	☒	x										
14	14	357	300	☒	x										
15	15	358	300	☒	x										
16	16	359	300	☒	x										
17	17	360	300	☒	x										
18	18	361	300	☒	x										
19	13	362	200	☒	x										
20	20	363	200	☒	x										
21	21	364	200	☒	x										
22	22	365	200	☒	x										
23	23	366	200	☒	x										
24	24	367	200	☒	x										

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

Bottom Depth: 3239 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0935	
Bottom	0944	
End	0957	

Positional Information

Lat:	49 ° 17 07	N
Lon:	134 ° 40 07	W

▼

Lat:	49 ° 17 05	N
Lon:	134 ° 40 01	W

▼

Lat:	49 ° 17 06	N
Lon:	134 ° 40 02	W

Extra comments:
Deep Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P16 Event #: 57 Ship: Tully UTC Date (dd|mmm|yyyy): 21 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments	
			Target Pressure	Confirmed	Cesium														
			√	Pressure															
1	1	368	150	✓			x												
2	2	369	150	✓			x												
3	3	370	150	✓			x												
4	4	371	150	✓			x												
5	5	372	150	✓			x												
6	6	373	150	✓			x												
7	7	374	100	✓			x												
8	8	375	100	✓			x												
9	9	376	100	✓			x												
10	10	377	100	✓			x												
11	11	378	100	✓			x												
12	12	379	100	✓			x												
13	13	380	50	✓			x												
14	14	381	50	✓			x												
15	15	382	50	✓			x												
16	16	383	50	✓			x												
17	17	384	50	✓			x												
18	18	385	50	✓			x												
19	19	386	5	✓			x												
20	20	387	5	✓			x												
21	21	388	5	✓			x												
22	22	389	5	✓			x												
23	23	390	5	✓			x												
24	24	391	5	✓			x												

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

Bottom Depth: 3635 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	10 20	03 20
Bottom	10 23	
End	10 32	

Positional Information

Lat:	49 ° 17 02	N
Lon:	134 ° 39 92	W

Start

Lat:	49 ° 17 01	N
Lon:	134 ° 39 93	W

Bottom

Lat:	49 ° 17 00	N
Lon:	134 ° 39 96	W

End

Extra comments:
Shallow Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P16 Event #: 58 Ship: Tully UTC Date (dd|mmm|yyyy): 21 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed		Sal	Nut-fr	Nut-C	Fe filt	Fe non-filt	CuLi	T/Br							
				✓	Pressure														
1		392	3500			x	x	x	x	x		x x							
2		393	3000				x	x	x	x		x x							
3		394	2500				x	x	x	x		x x							only one T/Br
4		395	2000				x	x	x	x		x x							
5		396	1500				x	x	x	x		x x							
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
ROS TRM X-Niskin ☒ other?
Watchkeeper(s): AH/A.M

Bottom Depth: 3635 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1043	0343
Bottom	1200	
End	1339	

Positional Information

Lat:	49 ° 16 97	N
Lon:	134 ° 40 07	W

▼

Lat:	49 ° 16 08	N
Lon:	134 ° 40 08	W

▼

Lat:	49 ° 16 02	N
Lon:	134 ° 40 00	W

Extra comments:
Go-flo to 3500 m

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P16 Event #: 59 Ship: Tully UTC Date (dd|mmm|yyyy): 21|0|17

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	DOC acid	DOC n-filt	Gels		
1	1	397	Bot-10	✓	3621	x	x	x		x	x	x	xx	x	x	xx	x	
2	2	398	3500	✓		xx	x	x	x	xx	x							
3	3	399	3500	✓		x	x	x	xx	x	x			x	xx	x		
4	4	400	3000	✓		x	x	x	xx	x	x	x	xx	x	xx	x		
5	5	401	2500	✓		x	x	x	x	x	xxx			x	xx	x		
6	6	402	2000	✓		x	xx	xx	x	x	x	xx	x	x	xx	x		
7	7	403	1500	✓		x	x	x	x	x	x	xx	x	x	xx	x		
8	8	404	1250	✓		x	x	x	xx	x	x	x	xx	x	xx	x		
9	9	405	1000	✓		xx	x	x	x	x	x	xx	x	x	xx	x		
10	10	406	800	✓		x	x	x		x	x	x	xx	x	x	xx	x	
11	11	407	600	✓		x	x	x		x	x	x	xx	x	x	xx	x	
12	12	408	400	✓		x	x	x		x	x	x	xx	x	x	xx	x	
13	13	409	300	✓		x	x			x	x	x	xx	x	x	xx	x	
14	14	410	250	✓		x	x			x	x			x	xx	x		
15	15	411	200	✓		x	x			x	x	x	xx	x	x	xx	x	
16	16	412	175	✓		x	x			x	xxx			x	xx	x		
17	17	413	150	✓		x	x			x	x	x	xx	x	x	xx	x	
18	18	414	125	✓		xx	x			x	x			x	xx	x		
19	19	415	100	✓		x	x			x	x	x	xx	x	x	xx	x	
20	20	416	75	✓		x	xx			x	x			x	xx	x		
21	21	417	50	✓		x	x			x	x	x	xx	x	x	xx	x	
22	22	418	25	✓		x	x			x	x	x	xx	x	x	xx	x	
23	23	419	10	✓		x	x			x	x	x		x	x	xx	x	
24	24	420	5	✓		xx	x		x	x	x	xx		x	xx	x		

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

Bottom Depth: 3632 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1430	0730
Bottom	1525	
End	1655	

Positional Information

Lat:	49 ° 17 07	N
Lon:	134 ° 40 09	W

Start

Lat:	49 ° 17 04	N
Lon:	134 ° 40 07	W

Bottom

Lat:	49 ° 16 98	N
Lon:	134 ° 39 91	W

End

Extra comments:
Deep cast
Plus loops 2x Oxy, 1x Sal, 1x Nut

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08

Station: P16

Event #: 60

Ship: Tully

UTC Date (dd|mm|yyyy): 21|8|17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed	Sal	Nut-fr	Nut-C	Fe	Fe	CuLi	T/Br							
				√	Pressure				filt	non-filt								
1		421	1000			x	x	x	x	x		x						
2		422	750				x	x	x	x		x						
3		423	500				x	x	x	x		x						
4		424	300				x		x	x		x						
5		425	200				x		x	x		x					No Dup	
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Version: 25 Nov 2011

Transmissometer Initials: 11-11-11

Profile type:

ROS TRM X-Niskin ☒ other?

Watchkeeper(s):

Bottom Depth: 3635 m

Transmisso Cleaned: Y / N

Time

UTC

Local

Start

1805

1805

Bottom

1820

End

1825

Positional Information

Lat: 49 ° 17 03 N

Lon: 134 ° 39 92 W

Lat: 49 ° 17 03 N

Lon: 134 ° 39 94 W

Lat: 49 ° 17 07 N

Lon: 134 ° 39 94 W

Extra comments:

Go-flo to 1000 m

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P16 Event #: 61 Ship: Tully UTC Date (dd/mmm/yyyy): 21/08/17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC		UVic						
					MR	t	MA	d	MA	TV	AA	MA	TV	TV				
1		426	300	✓ 300	x			x										
2		427	250	✓ 250				x				x						
3		428	200	✓ 200	x	x	x	x										
4		429	150	✓ 150	x	x	x	x				x						
5		430	100	✓ 100	x			xx	x									
6		431	75	✓ 75	x			x	x									
7		432	60	✓ 60				x	xx	xx						Fluo	0.989	
8		433	50	✓ 50	x			x	xx	xx		x				Fluo	1.075	
9		434	40	✓ 40	x			x	xx	xx						Fluo	1.22	
10		435	30	✓ 30	x	x	x	x	xx	xx						Fluo	1.32	
11		436	25	✓ 25	x			x	x									
12		437	20	✓ 20	xx	xx	xx	x	x			x						
13		438	15	✓ 15	x			x	xx	xx						Fluo	0.89	
14		439	10	✓ 10	x			x	x			x						
15		440	5	✓ 5	x	x	x	x				x						
16		441	5	✓ 5.5				x	xx	xx						Fluo	0.671	
17		442	0		x	x	x	x	x							NOT CLOSED		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 3635 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1922	1222
Bottom	1928	
End	1949	

Positional Information

Lat:	49 ° 17.04	N
Lon:	134 ° 39.87	W

Start

Lat:	49 ° 17.02	N
Lon:	134 ° 39.82	W

Bottom

Lat:	49 ° 17.06	N
Lon:	134 ° 39.89	W

End

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

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P16 Event #: 65 Ship: Tully UTC Date (dd|mmm|yyyy): 21 | AUG | 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Nut-C	Fe	Fe	CuLi	T/Br							
								filt	non-filt									
1		443	150	✓		x	x		x	x		x						
2		444	100	✓			x		x	x		x						
3		445	50	✓			x		x	x		x						
4		446	25	✓			x		x	x	xxx	x						
5		447	10				x		x	x		x						
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 3635 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2155	1455
Bottom	2212	
End	2235	

Positional Information

Lat:	49 °	16.89	N
Lon:	134 °	40.19	W

▼

Lat:	49 °	16.84	N
Lon:	134 °	40.09	W

▼

Lat:	49 °	16.84	N
Lon:	134 °	39.97	W

Extra comments:
Go-flo to 150 m

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P17 Event #: 66 Ship: Tully UTC Date (dd|mmm|yyyy): 22 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target	Confirmed	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto	NH ₄	
			Pressure	✓ Pressure												
1	1	448	2000	✓ 2001		x									x x	Water for NH ₄ blanks
2	2	449	2000	✓ 2000		x									x	Water for NH ₄ blanks
3	3	450	5	✓ 5		x	x	x x	x x				x x			
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 3625 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0400	2100
Bottom	0436	
End	0514	

Positional Information

Lat:	49 ° 21.03	N
Lon:	135 ° 40.02	W

Start

Bottom

Lat:	49 ° 21.04	N
Lon:	135 ° 40.09	W

End

Lat:	49 ° 21.03	N
Lon:	135 ° 40.08	W

Extra comments:
NH₄ blank water in three 4-l
amber glass jugs

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P18 Event #: 67 Ship: Tully UTC Date (dd|mmm|yyyy): 22 | 8 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ✓ Pressure	CHL	HPLC	Nut	Sal	DOC acid	DOC n-filt	Gases								
1	1	451	Bot-10	✓	3891					x	x x								
2	2	452	3500	✓					x	x	x x								
3	3	453	3000	✓					x x	x	x x								
4	4	454	2500	✓					x	x	x x								
5	5	455	2000	✓					x	x	x x								
6	6	456	1500	✓						x	x x								
7	7	457	1250	✓						x	x x								
8	8	458	1000	✓						x	x x								
9	9	459	800	✓						x	x x								
10	10	460	600	✓						x	x x								
11	11	461	400	✓						x	x x								
12	12	462	300	✓						x	x x								
13	13	463	200	✓						x	x x							TOP CAP LEAK	
14	14	464	150	✓						x	x x								
15	15	465	125	✓						x	x x								
16	16	466	100	✓						x	x x								
17	17	467	75	✓						x	x x								
18	18	468	50	✓						x	x x								
19	19	469	25	✓						x	x x								
20	20	470	5	✓			x x	x x	x	x	x x	x x							
21																			
22																			
23																			
24																			

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

Bottom Depth: 3835 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1036	0336
Bottom	1143	
End	1310	

Positional Information

Lat:	49 ° 26 02 N
Lon:	136 ° 40 01 W

Start

Bottom

Lat:	49 ° 25 99 N
Lon:	136 ° 40 00 W

End

Lat:	49 ° 25 98 N
Lon:	136 ° 40 09 W

Extra comments:
DOC cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P19 Event #: 69 Ship: Tully UTC Date (dd|mmm|yyyy): 22|8|17

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials								Comments						
			Target Pressure	Confirmed ✓	Pressure	CHL	HPLC	Nut	Sal	DIC	pH	Gases								
						MG	MG		AA	RJ	GC	CZ								
1	1	471	2005	✓	2005				x	x x x	x x x									
2	2	472	2005	✓	↓				x	x x x	x x x									
3	3	473	2005	✓	↓				x	x x x	x x x							LEAKY VENT		
4	4	474	2005	✓	↓				x	x x x	x x x									
5	5	475	2005	✓	2006				x	x x x	x x x							LEAKY LID		
6	6	476	2005	✓	2005				x											
7	7	477	2005	✓	↓				x											
8	8	478	2005	✓	↓				x											
9	9	479	2005	✓	↓				x											
10	10	480	2005	✓	↓				x											
11	11	481	2005	✓	↓				x											
12	12	482	2005	✓	↓				x											
13	13	483	2005	✓	2004				x											
14	14	484	2005	✓	2005				x											
15	15	485	2005	✓	↓				x											
16	16	486	2005	✓	↓				x											
17	17	487	2005	✓	↓				x											
18	18	488	2005	✓	↓				x											
19	19	489	2005	✓	↓				x											
20	20	490	2005	✓	↓				x											
21	21	491	2005	✓	↓				x											
22	22	492	2005	✓	2004				x											
23	23	493	2005	✓	2005				x											
24	24	494	5	✓	5	x x	x x	x	x			x x								

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

Bottom Depth: 3928 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1828	1128
Bottom	1900	
End	1938	

Positional Information

Lat:	49 ° 30 09	N
Lon:	136 ° 39 92	W

137 ▼

Start

Bottom

End

Lat:	49 ° 30.03	N
Lon:	136 ° 39.89	W

137 ▼

Lat:	49 ° 30.01	N
Lon:	136 ° 39.94	W

137

Extra comments:
Calibration cast

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P22

Event #:

71

Ship:

Tully

UTC Date (dd|mmm|yyyy): 23 | 8 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	CHL	HPLC	Nut	Sal	DOC acid	DOC n-filt	Gases				
1	1	495	Bot-10	✓	3981				x	xx					
2	2	496	3500	✓				x	x	xx					
3	3	497	3000	✓	2500			xx	x	xx					
4	4	498	2500	✓				x	x	xx					
5	5	499	2000	✓				x	x	xx					
6	6	500	1500	✓					x	xx					
7	7	501	1250	✓					x	xx					
8	8	502	1000	✓					x	xx					
9	9	503	800	✓					x	xx					
10	10	504	600	✓					x	xx					
11	11	505	400	✓					x	xx					
12	12	506	300	✓					x	xx					
13	13	507	200	✓					x	xx					
14	14	508	150	✓					x	xx					
15	15	509	125	✓					x	xx					
16	16	510	100	✓					x	xx					
17	17	511	75	✓					x	xx					
18	18	512	50	✓					x	xx					
19	19	513	25	✓					x	xx					
20	20	514	5	✓		xx	xx	x	x	x	xx	xx			
21															
22															
23															
24															

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): HMBottom Depth: 3940 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	13 55	06 55
Bottom	15 00	
End	16 25	

Positional Information
Start
Lat: 49 ° 42 '00" N
Lon: 140 ° 40 '00" WBottom
Lat: 49 ° 42 '05" N
Lon: 140 ° 39 '97" WEnd
Lat: 49 ° 41 '99" N
Lon: 140 ° 40 '04" WExtra comments:
DOC cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P23 Event #: 72 Ship: Tully UTC Date (dd|mmm|yyyy): 23 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto		
1	2	515	5	✓ 255		x	x	xx	xx				xx			
2	1			✓ 2005												
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 4083 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2132	1432
Bottom	2206	
End	2239	

Positional Information

Lat:	49 ° 46.06	N
Lon:	141 ° 39.83	W

Start

Bottom

Lat:	49 ° 45.98	N
Lon:	141 ° 40.01	W

End

Lat:	49 ° 46.05	N
Lon:	141 ° 40.03	W

Extra comments:
ACCIDENTAL TRIP OF BOT1
@ 2005 m

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P24

Event #:

74

Ship:

Tully

UTC Date (dd|mmm|yyyy):

24 | 08 | 17

Cruise ID: 2017-06			Station: 124		Event: 1										Comments		
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials						Gases						
			Target Pressure	Confirmed ✓ Pressure	CHL	HPLC	Nut	Sal	DOC acid	DOC n-filt							
1	1	516	Bot-10	✓	4042					x	xx						
2	2	517	3500	✓	3500					x	x	xx					
3	3	518	3000	✓	3000					xx	x	xx					
4	4	519	2500	✓	2500					x	x	xx					
5	5	520	2000	✓	2000					x	x	xx					
6	6	521	1500	✓	1500						x	xx					
7	7	522	1250	✓	1250						x	xx					
8	8	523	1000	✓	1001						x	xx					
9	9	524	800	✓	801						x	xx					
10	10	525	600	✓	600						x	xx					
11	11	526	400	✓	400						x	xx					
12	12	527	300	✓	300						x	xx					
13	13	528	200	✓	201						x	xx					
14	14	529	150	✓	150						x	xx					
15	15	530	125	✓	125						x	xx					
16	16	531	100	✓	100						x	xx					
17	17	532	75	✓	75						x	xx					
18	18	533	50	✓	50						x	xx					
19	19	534	25	✓	25						x	xx					
20	20	535	5	✓	5.5	xx	xx	x	x	x	xx	xx					
21																	
22																	
23																	
24																	

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

Bottom Depth: 4003 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0401	2101
Bottom	0515	
End	0647	

Positional Information

Start
Lat: 49 ° 50.20 N
Lon: 142 ° 39.99 W

Bottom
Lat: 49 ° 50.32 N
Lon: 142 ° 40.20 W

End
Lat: 49 ° 50.48 N
Lon: 142 ° 40.67 W

Extra comments:

DOC cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08

Station: P25

Event #: 76

Ship: Tully

UTC Date (dd|mmm|yyyy): 24 | 0 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto		
1	1	536	5			x	x	xx	xx				xx			TOP VENT LOOSE
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth:	3999	m
Transmisso Cleaned:	☒ Y / ☐ N	

Time	UTC	Local
Start	10 56	03 56
Bottom	11 29	
End	12 04	

Positional Information
Lat: 50 ° 00 04 N
Lon: 143 ° 36 24 W

Start

Lat: 50 ° 00 04 N
Lon: 143 ° 36 17 W

Bottom

Lat: 50 ° 00 01 N
Lon: 143 ° 36 23 W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08

Station: P35

Event #:

78

Ship: Tully

UTC Date (dd|mmm|yyyy): 24 | 8 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ☐ Pressure	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto			
1	1	537	5			x	x	xx	xx								
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): H.7

Bottom Depth:	4001	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	15 39	08 39
Bottom	16 13	
End	16 47	

Positional Information	
Lat:	50 ° 00 06 N
Lon:	144 ° 18 24 W

Start

Lat:	50 ° 00 01 N
Lon:	144 ° 18 19 W

Bottom

Lat:	50 ° 00 00 N
Lon:	144 ° 18 22 W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P26 Event #: 79 Ship: Tully UTC Date (dd|mmm|yyyy): 24 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓	Pressure	Sal	Nut-fr	Nut-C	Fe filt	Fe non-filt	CuLi	T/Br			
1		538	150			x	x		x	x		x			
2		539	100				x		x	x		x			
3		540	50				x		x	x		x			MESSENGER DID NOT
4		541	25				x		x	x	xxx	x			DEPLOY FROM BOT3
5		542	10				x		x	x		x			SEND REMAINING 2
6															DOWN TO PROPER DEPTH
7															AND NEW MESSENGER
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): 81

Bottom Depth: 4250 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2000	1300
Bottom	2014	
End	2039	

Positional Information

Start

Lat: 50 ° 00.00 N

Lon: 144 ° 59.93 W

Bottom

Lat: 49 ° 59.95 N

Lon: 144 ° 59.90 W

End

Lat: 49 ° 59.86 N

Lon: 144 ° 59.85 W

Extra comments:

Go-flo to 150 m

538
Nut-Fr
P26
150 m
2017-08
Bot 1

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P26

Event #:

80

Ship:

Tully

UTC Date (dd|mm|yyyy):

24 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	Phyto	UVic	DA	bugs			
				✓	MR	t	MA	d	MA	AA	AA	MR	MR	TV	MR	TV	
1	1	543	300	✓	301	x			x								
2	2	544	250	✓	250				x			x					wrong Depth
3	3	545	200			x	x	x	x								
4	4	546	150	✓	150	x	x	x	xx			x					
5	5	547	100	✓	101	x			x	x					x		
6	6	548	100	✓	101												
7	7	549	75	✓	75	x			x	x							Fluo 0.439
8	8	550	60	✓	60				x	xx	xx				x		
9	9	551	50	✓	50												Fluo 0.598
10	10	552	50	✓	50	x			x	xx	xx	x					Fluo 0.818
11	11	553	40	✓	40	x			x	xx	xx						Fluo 3.164
12	12	554	30	✓	30	x	x	x	x	xx	xx						3.660
13	13	555	25	✓	25	x			x	x							3.602
14	14	556	20	✓	20	xx	xx	xx	x	x		x					Fluo 3.220
15	15	557	15	✓	15	x			x	xx	xx						2.721
16	16	558	10	✓	10	x			x	x		x					Fluo 1.71
17	17	559	5	✓	5				x	xx	xx	xxx	x				
18	18	560	5	✓	5									x			
19	19	561	5	✓	5	x	x	x									
20	20	562	0	✓	119	x	x	x	x	x							
21																	
22	3	545	200	✓	200	x	x	x	x								
23																	
24																	

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

MG

Bottom Depth: 4251 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2046	1346
Bottom	2052	
End	2115	

Positional Information

Lat:	49 ° 59.90	N
Lon:	144 ° 59.90	W
▼		
Lat:	49 ° 59.93	N
Lon:	144 ° 59.92	W
▼		
Lat:	49 ° 59.99	N
Lon:	144 ° 59.92	W

Extra comments:

DMS cast

Will also have loops for Chl x2

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P26 Event #: 82 Ship: Tully UTC Date (dd|mmm|yyyy): 24 | 08 | 17

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	TV DOC acid	TV DOC n-filt	Gels	Alk	
1	1	563	Bot-10	✓ 4317	x	x	x		x	x	x	xx	x	x	xx	x	x	
2	2	564	4000	✓ 4000	xx	x	x	x	x	x	x	xx	x	x	xx	x	x	
3	3	565	3500	✓ 3501	x	x	x	xx	xx	x				x	xx	x	x	
4	4	566	3000	✓ 3000	x	xx	xx		x	x	x	xx	x	x	xx	x	x	
5	5	567	2500	✓ 2500	x	x	x	xx	x	xxx				x	xx	x	x	
6	6	568	2000	✓ 2000	x	x	x		x	x	x	xx	x	x	xx	x	x	
7	7	569	1500	✓ 1501	x	x	x		x	x	x	xx	x	x	xx	x	x	
8	8	570	1250	✓ 1251	x	x	x	x	x	x	x	xx	x	x	xx	x	x	
9	9	571	1000	✓ 1000	xx	x	x		x	x	x	xx	x	x	xx	x	x	
10	10	572	800	✓ 800	x	x	x		x	x	x	xx	x	x	xx	x	x	
11	11	573	600	✓ 600	x	x	x		x	x	x	xx	x	x	xx	x	x	
12	12	574	400	✓ 400	x	x	x		x	x	x	xx	x	x	xx	x	x	
13	13	575	300	✓ 300	x	x			x	x	x	xx	x	x	xx	x	x	
14	14	576	250	✓ 251	x	x			x	x				x	xx	x	x	
15	15	577	200	✓ 201	x	x			x	x	x	xx	x	x	xx	x	x	
16	16	578	175	✓ 175	x	x			x	x				x	xx	x	x	
17	17	579	150	✓ 150	x	x			x	x	x	xx	x	x	xx	x	x	
18	18	580	125	✓ 125	xx	x			x	x				x	xx	x	x	
19	19	581	100	✓ 100	x	x			x	x	x	xx	x	x	xx	x	x	
20	20	582	75	✓ 75	x	xx			x	xxx				x	xx	x	x	
21	21	583	50	✓ 50	x	x			x	x	x	xx	x	x	xx	x	x	
22	22	584	25	✓ 25	x	x			x	x	x	xx	x	x	xx	x	x	
23	23	585	10	✓ 10	x	x			x	x	x		x	x	xx	x	x	
24	24	586	5	✓ 5	xx	x		x	x	x		xx		x	xx	x	x	

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

Bottom Depth: 4252 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2213	1513
Bottom	2331	
End	0105	

Positional Information

Lat:	50 °	00.01	N
Lon:	144 °	59.99	W

Start

Bottom

End

Lat:	49 °	59.99	N
Lon:	144 °	59.92	W

Lat:	49 °	59.98	N
Lon:	144 °	59.97	W

Extra comments:
Deep cast + Bucket
Plus loops 2x Oxy, 1x Sal, 1x Nut
WATER HAS A GREEN? LOOK
TAPE GONE

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P26 Event #: 83 Ship: Tully UTC Date (dd|mmm|yyyy): 25 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Nut-C	Fe filt	Fe non-filt	CuLi	T/Br					
1		587	1000		x	x	x	x x	x		x					
2		588	750			x	x	x	x		x					
3		589	500		x	x	x	x	x		x					
4		590	300			x		x	x		x					
5		591	200			x		x	x		x					
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 4251 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0148	1848
Bottom	0226	
End	0307	

Positional Information
Start
Lat: 50 ° 00.02 N
Lon: 144 ° 59.92 W

Bottom
Lat: 49 ° 59.88 N
Lon: 145 ° 00.00 W

End
Lat: 49 ° 59.80 N
Lon: 145 ° 00.07 W

Extra comments:
Go-flo to 1000 m
Dopes + 1 sal added.

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P26

Event #:

86

Ship:

Tully

UTC Date (dd/mm/yyyy):

25 / 08 / 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Cesium										
1	1	592	500	✓	500	x									
2	2	593	500	✓		x									
3	3	594	500	✓		x									
4	4	595	500	✓		x									
5	5	596	500	✓		x									
6	6	597	500	✓		x									
7	7	598	400	✓	400	x									
8	8	599	400	✓		x									
9	9	600	400	✓		x									
10	10	601	400	✓		x									
11	11	602	400	✓		x									
12	12	603	400	✓		x									
13	13	604	300	✓	300	x									
14	14	605	300	✓		x									
15	15	606	300	✓		x									
16	16	607	300	✓		x									
17	17	608	300	✓		x									
18	18	609	300	✓		x									
19	19	610	200	✓	200	x									
20	20	611	200	✓		x									
21	21	612	200	✓		x									
22	22	613	200	✓		x									
23	23	614	200	✓		x									
24	24	615	200	✓		x									

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

Bottom Depth: 4251 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0517	2217
Bottom	0526	
End	0540	

Positional Information

Start
Lat: 49 ° 59.99 N
Lon: 144 ° 59.88 W

Bottom
Lat: 49 ° 59.99 N
Lon: 144 ° 59.88 W

End
Lat: 49 ° 59.99 N
Lon: 144 ° 59.83 W

Extra comments:
Deep Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P26 Event #: 87 Ship: Tully UTC Date (dd|mmm|yyyy): 25 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials											Comments		
			Target	Confirmed		Sal	Nut-fr	Nut-C	Fe	Fe	CuLi	T/Br							
			Pressure	✓	Pressure														
1		616	2250			x	x	x	x	x		x x							
2		617	2000				x	x	x	x		x x							
3		618	1750				x	x	x	x		x x							
4		619	1500				x	x	x	x		x x							
5		620	1250				x	x	x	x		x x							
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 4251 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0555	2255
Bottom	0652	
End	0803	

Positional Information

Lat:	50 °	00.02	N
Lon:	144 °	59.89	W

Start

Lat:	49 °	59.85	N
Lon:	144 °	59.68	W

Bottom

Lat:	49 °	59.69	N
Lon:	144 °	59.68	W

Extra comments:
Go-flo to 2250 m

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P26

Event #: 88

Ship: Tully

UTC Date (dd|mmm|yyyy): 25 | 8 | 17

Cruise ID:			2017-08		Station:		P26		Event #:										Ship:		Party:		Comments	
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials																			
			Target Pressure	Confirmed Pressure	Cesium																			
				✓																				
1	1	621	150	✓	150		x																	
2	2	622	150	✓			x																	
3	3	623	150	✓			x																	
4	4	624	150	✓			x																	
5	5	625	150	✓			x																	
6	6	626	150	✓			x																	
7	7	627	100	✓			x																	
8	8	628	100	✓			x																	
9	9	629	100	✓			x																	
10	10	630	100	✓			x																	
11	11	631	100	✓			x																	
12	12	632	100	✓			x																	
13	13	633	50	✓			x																	
14	14	634	50	✓			x																	
15	15	635	50	✓			x																	
16	16	636	50	✓			x																	
17	17	637	50	✓			x																	
18	18	638	50	✓			x																	
19	19	639	5	✓			x																	
20	20	640	5	✓			x																	
21	21	641	5	✓			x																	
22	22	642	5	✓			x																	
23	23	643	5	✓			x																	
24	24	644	5	✓			x																	

http://www.pa

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

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

Time	UTC	Local
Start	0815	0115
Bottom	0818	
End	0824	

Positional Information

Lat:	50 ° 00 06	N
Lon:	144 ° 59 94	W

Start

Lat:	50 ° 00 04	N
Lon:	144 ° 59 93	W

Bottom

Lat:	50 ° 00 02	N
Lon:	144 ° 59 95	W

End

Extra comments:
 Shallow Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P26 Event #: 89 Ship: Tully UTC Date (dd|mmm|yyyy): 25 | 8 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	UBC										
1		645	2000	✓		x									
2		646	2000	✓											
3		647	2000	✓											
4		648	2000	✓											
5		649	1000	✓		x									
6		650	1000	✓											
7		651	1000	✓											
8		652	1000	✓											
9		653	500	✓		x									
10		654	500	✓											
11		655	500	✓											
12		656	500	✓											
13		657	10	✓		x									
14		658	10	✓											
15		659	10	✓											
16		660	10	✓											
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0846	0146
Bottom	0919	
End	0954	

Positional Information

Lat:	49 ° 59 91 N
Lon:	144 ° 59 05 W

Start

Lat:	49 ° 59 91 N
Lon:	144 ° 59 98 W

Bottom

Lat:	49 ° 59 08 N
Lon:	144 ° 59 99 W

End

Extra comments:
UBC cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P26 Event #: 90 Ship: Tully UTC Date (dd|mmm|yyyy): 25 | 8 | 17

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments				
			Target	Confirmed		Sal	Nut-fr	Nut-C	Fe	Fe	CuLi	T/Br								
			Pressure	✓	Pressure															filt
1		661	4000			x	x	x	x x	x		x x								
2		662	3500				x	x	x	x		x x								
3		663	3000			x	x	x	x	x		x x								
4		664	2750				x		x	x		x x								
5		665	2500				x		x	x		x x								
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

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

Bottom Depth: 250 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1009	0309
Bottom	1128	
End	1323	

Positional Information
 Start
 Lat: 50 ° 00 04 N
 Lon: 145 ° 00 01 W

Bottom
 Lat: 49 ° 59 02 N
 Lon: 145 ° 00 01 W

End
 Lat: 50 ° 00 27 N
 Lon: 144 ° 59 31 W

Extra comments:
 Go-flo to 4000 m
 Dupes + 1 sal added

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: PA-011 Event #: 91 Ship: Tully UTC Date (dd|mmm|yyyy): 25 | 8 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	ONAr	Oxy	Sal										
					UW	IOS	IOS										
1		666	10	✓		x x	x x	x									
2		667	6	✓		x x	x x	x									
3		668	3	✓		x x	x x	x									
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): H.7

Bottom Depth: 4251 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1441	0741
Bottom	1450	
End	1503	

Positional Information

Start	Lat:	50 ° 08 13	N
	Lon:	144 ° 49 09	W
Bottom	Lat:	50 ° 08 13	N
	Lon:	144 ° 49 05	W
End	Lat:	50 ° 08 13	N
	Lon:	144 ° 49 79	W

Extra comments:
CTD to 500 m

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P21

Event #:

93

Ship:

Tully

UTC Date (dd|mmm|yyyy):

26 | 8 | 17

Cruise ID: 2017-08			Station: P21		Event #:												Comments	
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													
			Target Pressure	Confirmed ✓ Pressure			Cs											
1	1	669	200	✓	200			x										
2	2	670	200	✓				x										
3	3	671	200	✓				x										
4	4	672	200	✓				x										
5	5	673	200	✓				x										
6	6	674	200	✓				x										
7	7	675	150	✓				x										
8	8	676	150	✓				x										
9	9	677	150	✓				x										
10	10	678	150	✓				x										
11	11	679	150	✓				x										
12	12	680	150	✓				x										
13	13	681	100	✓				x										
14	14	682	100	✓				x										
15	15	683	100	✓				x										
16	16	684	100	✓				x										
17	17	685	100	✓				x										
18	18	686	100	✓				x										
19	19	687	50	✓				x										
20	20	688	50	✓				x										
21	21	689	50	✓				x										
22	22	690	50	✓				x										
23	23	691	50	✓				x										
24	24	692	50	✓				x										

http://www.pao

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

A.M

Bottom Depth:

3960

m

Transmisso Cleaned:

Y / N

Time

UTC

Local

Start

12 30

05 36

Bottom

12 34

End

12 41

Positional Information

Lat:

49 ° 38 06

N

Lon:

139 ° 39 99

W

Lat:

49 ° 38 07

N

Lon:

139 ° 40 04

W

Lat:

49 ° 38 08

N

Lon:

139 ° 40 05

W

Extra comments:

Cesium 200m cast

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P21

Event #:

94

Ship:

Tully

UTC Date (dd|mmm|yyyy):

26 | 8 | 17

Cruise ID:			2017-08			Station:			P21			Event #:			Smp:			Date:			Comments		
Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials																	
			Target Pressure	Confirmed ✓	Pressure	Nut-F	Sal	Chl	HPLC	Gases	Cs												
1	1	693	500	✓									x										
2	2	694	500	✓									x										
3	3	695	500	✓									x										
4	4	696	500	✓									x										
5	5	697	500	✓									x										
6	6	698	500	✓									x										
7	7	699	400	✓									x										
8	8	700	400	✓									x										
9	9	701	400	✓									x										
10	10	702	400	✓									x										
11	11	703	400	✓									x										
12	12	704	400	✓									x										
13	13	705	300	✓									x										
14	14	706	300	✓									x										
15	15	707	300	✓									x										
16	16	708	300	✓									x										
17	17	709	300	✓									x										
18	18	710	300	✓									x										
19	19	711	5	✓									x										
20	20	712	5	✓									x										
21	21	713	5	✓									x										
22	22	714	5	✓									x										
23	23	715	5	✓									x										
24	24	716	5	✓									x										

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

Bottom Depth: 3960 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	13 04	06 04
Bottom	13 38	
End	14 17	

Positional Information
 Start
 Lat: 49 ° 38 05 N
 Lon: 139 ° 39 94 W

Bottom
 Lat: 49 ° 38 13 N
 Lon: 139 ° 40 05 W

End
 Lat: 49 ° 38 04 N
 Lon: 139 ° 39 87 W

Extra comments:
 Cesium + IOS cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P20 Event #: 95 Ship: Tully UTC Date (dd|mmm|yyyy): 26 | 8 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments					
			Target	Confirmed	Sal	Nut-fr	Nut-C	Fe	Fe	CuLi	T/Br							
			Pressure	✓ Pressure				filt	non-filt									
1		717	150		x	x		x	x		x							
2		718	100			x		x	x		x							
3		719	50		x	x		x	x		x							
4		720	25			x		x	x	xxx	x							
5		721	10			x		x	x		x							
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 3960 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1829	1129
Bottom	1849	
End	1909	

Positional Information

Lat:	49 ° 33 99	N
Lon:	138 ° 39 99	W

Start

Lat:	49 ° 34 04	N
Lon:	138 ° 39 99	W

Bottom

Lat:	49 ° 34.02	N
Lon:	138 ° 46.01	W

End

Extra-comments:
Go-flo to 150 m

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08

Station: P20

Event #: 96

Ship: Tully

UTC Date (dd/mm/yyyy): 26/08/17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure				DIC	SAL						
1		722	5					x	x						DEFECTIVE BOTTLE
2		723	0					xxx	x						RETURN @ 1935
3		724	Loop					xxx	x						FOR NEW ONE
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth:	396	m
Transmisso Cleaned:	Y / N	

Time	UTC	Local
Start	1919	1219
Bottom		
End	2001	

Positional Information	
Start	Lat: 49 ° 34 16 N
	Lon: 138 ° 39 95 W

Bottom	Lat: ° N
	Lon: ° W

End	Lat: 49 ° 34.08 N
	Lon: 138 ° 39.48 W

Extra comments:
753 DIC experiment

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P20 Event #: 97 Ship: Tully UTC Date (dd|mmm|yyyy): 26|08|17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC		UVic							
				✓		MR	IMA	dMA	AA	MA	MF	TV							
1	1	725	300	✓	300	x			x									0.244	
2	2	726	250	✓	250				x			x						0.252	
3	3	727	200	✓	200	x	x	x	x									0.256	
4	4	728	150	✓	151	x	x	x	x			x						0.284	
5	5	729	100	✓	100	x			xx	x								0	
6	6	730	75	✓	75	x			x	x								0.622	
7	7	731	60	✓	60				x	xx	xx							Fluo 0.903	
8	8	732	50	✓	50	x			x	xx	xx	x						Fluo 1.19	
9	9	733	40	✓	40	x			x	xx	xx							Fluo 1.44	
10	10	734	30	✓	30	x	x	x	x	xx	xx							Fluo 1.43	
11	11	735	25	✓	25	x			x	x								1.22	
12	12	736	20	✓	20	xx	xx	xx	x	x		x						1.18	
13	13	737	15	✓	15	x			x	xx	xx							Fluo 1.15	
14	14	738	10	✓	10	x			x	x		x							
15	15	739	5	✓	5	x	x	x	x			x							
16	16	740	5	✓	5				x	xx	xx							Fluo 0.781	
17	17	741	0	✓	1.6	x	x	x	x	x									
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 3964 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2026	1326
Bottom	2032	
End	2054	

Positional Information

Lat:	49 ° 34.07	N
Lon:	138 ° 39.93	W

Start

Lat:	49 ° 34.07	N
Lon:	138 ° 39.94	W

Bottom

Lat:	49 ° 34.05	N
Lon:	138 ° 39.95	W

End

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

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P20 Event #: 99 Ship: Tully UTC Date (dd|mmm|yyyy): 26 | AUG | 2017

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	DOC	DOC	Gels		
					NO ₃ /AA	AA	AA	C2	MP/IN	GC	ALC	CO ₂ /C2	AA	acid	n-filt	TV		
1	1	742	Bot-10	✓	4025	x	x	x		x	x	x	xx	x	x	xx	x	
2	2	743	3500	✓	3500	xx	x	x	x	xx	x				x	xx		
3	3	744	3500	✓	3501	x	x	x	xx	x	x				x	xx	x	
4	4	745	3000	✓	3000	x	x	x	xx	x	x	x	xx	x	x	xx	x	
5	5	746	2500	✓	2500	x	x	x	x	x	xxx				xx	xx	x	
6	6	747	2000	✓	2000	x	xx	xx	x	x	x	x	xx	x	x	xx	x	
7	7	748	1500	✓	1500	x	x	x	x	x	x	x	xx	x	x	xx	x	
8	8	749	1250	✓	1250	x	x	x	xx	x	x	x	xx	x	x	xx	x	
9	9	750	1000	✓	1000	xx	x	x	x	x	x	x	xx	x	x	xx	x	
10	10	751	800	✓	800	x	x	x		x	x	x	xx	x	x	xx	x	
11	11	752	600	✓	600	x	x	x		x	x	x	xx	x	x	xx	x	
12	12	753	400	✓	400	x	x	x		x	x	x	xx	x	x	xx	x	
13	13	754	300	✓	300	x	x			x	x	x	xx	x	x	xx	x	
14	14	755	250	✓	250	x	x			x	x				xx	xx	x	
15	15	756	200	✓	200	x	x			x	x	x	xx	x	x	xx	x	
16	16	757	175	✓	175	x	x			x	xxx				x	xx	x	
17	17	758	150	✓	150	x	x			x	x	x	xx	x	x	xx	x	
18	18	759	125	✓	125	xx	x			x	x				x	xx	x	
19	19	760	100	✓	100	x	x			x	x	x	xx	x	x	xx	x	
20	20	761	75	✓	75	x	xx			x	x				xx	xx	x	
21	21	762	50	✓	49	x	x			x	x	x	xx	x	x	xx	x	1.56
22	22	763	25	✓	25	x	x			x	x	x	xx	x	x	xx	x	
23	23	764	10	✓	10	x	x			x	x	x		x	x	xx		
24	24	765	5	✓	5	xx	x		x	x	x		xx		x	xx	x	

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): MR / MLBottom Depth: 3965 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2212	1512
Bottom	2322	
End	0053	

Positional Information
Start
Lat: 49 ° 34.03 N
Lon: 138 ° 40.02 WBottom
Lat: 49 ° 34.022 N
Lon: 138 ° 40.01 WEnd
Lat: 49 ° 34.03 N
Lon: 138 ° 40.01 WExtra comments:
Deep cast
Plus loops 2x Oxy, 1x Sal, 1x Nut
BUCKET ON ROSETTE

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P20

Event #:

100

Ship:

Tully

UTC Date (dd|mmm|yyyy):

27 | Aug | 2017

Cruise ID: 2017-08			Station: P20		Event #: 766		Ship: R/V		Comments									
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													
			Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Nut-C	Fe filt	Fe non-filt	CuLi	T/Br							
1		766	1000		x	x	x	xx	x		x							
2		767	750			x	x	x	x		x							
3		768	500		x	x	x	x	x		x							
4		769	300			x		x	x		x							
5		770	200			x		x	x		x							
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

http://www.pa

Profile type:
 ROS TRM ☒ X-Niskin other?
 Watchkeeper(s): AA / B

Bottom Depth: 3966 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0139	1839
Bottom	0212	
End	0251	

Positional Information

Lat:	49 ° 34.05	N
Lon:	138 ° 39.92	W

▼

Lat:	49 ° 34.05	N
Lon:	138 ° 39.92	W

▼

Lat:	49 ° 34.05	N
Lon:	138 ° 39.92	W

Extra comments:
 Go-flo to 1000 m

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P20

Event #:

103

Ship:

Tully

UTC Date (dd|mmm|yyyy):

27 | 08 | 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target	Confirmed	Sal	Nut-fr	Nut-C	Fe	Fe	CuLi	T/Br								
			Pressure	✓ Pressure				filt	non-filt										
1		771	3500			x	x	x	x	x		xx							
2		772	3000				x	x	x	x		xx							
3		773	2500				x	x	x	x		xx							
4		774	2000				x	x	x	x		xx							
5		775	1500				x	x	x	x		xx							
6																			
7																			
8																			
9																			
10																			
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18																			
19																			
20																			
21																			
22																			
23																			
24																			

771
Fe-Nonf
P20
3500 m
2017-08
Bot 1

772
Fe-Nonf
P20
3000 m
2017-08
Bot 2

773
Fe-Nonf
P20
2500 m
2017-08
Bot 3

774
Fe-Nonf
P20
2000 m
2017-08
Bot 4

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

Bottom Depth: 3964 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	05:17	22:17
Bottom	06:30	23:30
End	08:00	

Positional Information
Start
Lat: 49 ° 34.01 N
Lon: 138 ° 39.98 W

Bottom
Lat: 49 ° 34.01 N
Lon: 138 ° 39.98 W

End
Lat: 49 ° 39 00 N
Lon: 138 ° 39 98 W

Extra comments:
Go-flo to 3500 m
Ran out of Fe-Nonf bottles
- only did 1500m sample

Water Properties Group

Sampling Log

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

Cruise ID:

2017-08

Station:

P16

Event #:

105

Ship:

Tully

UTC Date (dd mmm/yyyy):

27 08 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ☒	Pressure	S&I	Nut-fr	Nut-C	Fe	Fe	CuLi	T/Br						
1			49															
2			43															
3			37															
4			31															
5		776	25								xxx							
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): BAS / AM

Bottom Depth: 3635 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2321	1621
Bottom	2332	
End	2342	

Positional Information

Lat:	49 °	17.02	N
Lon:	134 °	39.98	W

▼

Lat:	49 °	16.97	N
Lon:	134 °	39.94	W

▼

Lat:	48 °	16.96	N
Lon:	134 °	39.93	W

Extra comments:
 Go-flo to 49 m

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P4 Event #: 111 Ship: Tully UTC Date (dd|mmm|yyyy): 29|8|17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut-F	Nut-C	Sal	CHL	HPLC		gases			
1	1	777	Bot-10	✓	1319	x	x	x							SPIGOT OPEN
2	2	778	1250	✓		x	x	x							(BUMPED)
3	3	779	1250	✓		xx	x	x							
4	4	780	1000	✓		x	x	x							
5	5	781	800	✓		x	x	x							
6	6	782	600	✓		x	xx	xx							
7	7	783	400	✓		x	x	x							
8	8	784	300	✓		x	x								
9	9	785	250	✓		x	x								
10	10	786	200	✓		x	x								
11	11	787	175	✓		xx	x								
12	12	788	150	✓		x	x								
13	13	789	125	✓		x	xx								
14	14	790	100	✓		x	x								
15	15	791	75	✓		x	x								
16	16	792	50	✓		x	x								
17	17	793	25	✓		x	x								
18	18	794	10	✓		x	x								
19	19	795	5	✓		xx	x								
20	20	796	5	✓											
21															
22															
23															
24															

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): H.M.Bottom Depth: 1304 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1435	0735
Bottom	1457	1530
End	1538	

Positional Information
Start
Lat: 48° 39' 05" N
Lon: 126° 40' 02" WBottom
Lat: 48° 39' 01" N
Lon: 126° 39' 98" WEnd
Lat: 48° 39' 03" N
Lon: 126° 39' 83" WExtra comments:
P4 return
Plus loops 2x Oxy, 1x Sal, 1x Nut
2x Chi