

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: SI03 Event #: 01 Ship: Tully UTC Date (dd mmm/yyyy): 08 02 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	XXIX	OXY	Nut-F			HRDNA	LVDNA				
1		1	200	✓	216						x				
2		2	200	✓	200						x				
3		3	185	✓	185	x	x			x					
4		4	165	✓	185	x	x			x					
5		5	150	✓	150						x				
6		6	150	✓	150						x				
7		7	135	✓	135						x				
8		8	135	✓	135						x				
9		9	120	✓	120						x				
10		10	120	✓	120						x				
11		11	110	✓	110	x	x			x					
12		12	100	✓	100						x				
13		13	100	✓	100						x				
14		14	97	✓	97	x	x			x					
15		15	90	✓	90	x	x			x					
16		16	85	✓	85	x	x			x					
17		17	75	✓	75	x	x			x					
18		18	60	✓	60	x	x			x					
19		19	40	✓	40	x	x			x					
20		20	20	✓	20	x	x			x					
21		21	10	✓	10						x				
22		22	10	✓	10						x				
23															

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

Bottom Depth: 228 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2230	1430
Bottom	2242	
End	2301	1501

Positional Information

Lat:	48 ° 35.44	N
Lon:	123 ° 30 29	W

Start

Lat:	48 ° 35 43	N
Lon:	123 ° 30 30	W

Bottom

Lat:	48 ° 35 43	N
Lon:	123 ° 30 29	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: 59 Event #: 2 Ship: Tully UTC Date (dd/mm/yyyy): 9 / 02 / 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	OXY	SAL	Nut-F	CHL	HPLC	DIC	CR					
1		23	Bot-5	✓ 229	x		x			x	x					
2		24	200	✓	x		x			xx	x					
3		25	150	✓	xx		x			x	x					
4		26	100	✓	x		x			x	x					
5		27	75	✓	x		xx			x	x					
6		28	50	✓	x		x	x		x	x					
7		29	40	✓	x		x	x			x					
8		30	30	✓	x		x	x		x	x					
9		31	20	✓	x		x	x		xx	x					
10		32	10	✓	x		x	xx		x	x					
11		33	5	✓	xx		x	x		x	x					
12		34	0	✓	x		x			x	x					
13		35	0	✓			x	x	xx							
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																

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

Bottom Depth: 235 m
Transmisso Cleaned: x2 y1 N

Time	UTC	Local
Start	0130	1730
Bottom	0142	
End	0157	

Positional Information

Lat:	48 ° 36 82	N
Lon:	123 ° 14 . 00	W

▼

Lat:	48 ° 36 73	N
Lon:	123 ° 14 76	W

▼

Lat:	48 ° 36 20	N
Lon:	123 ° 14 49	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: JF2 Event #: 6 Ship: Tully UTC Date (dd:mmm/yyyy): 9 FEB 2019

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed	dAgF												
			√	Pressure													
1		36	180			xx											NOT SAMPLED
2		37	160			xx											
3		38	140			xx											
4		39	120			xx											
5		40	100			xx											
6		41	80			xx											
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 187 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0743	
Bottom	0806	
End	0835	

Positional Information

Lat:	48 ° 17 92	N
Lon:	123 ° 55 83	W

▼

Lat:	48 ° 17 91	N
Lon:	123 ° 59 41	W

▼

Lat:	48 ° 17 77	N
Lon:	123 ° 59 11	W

Extra comments:
TM

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P1 Event #: 12 Ship: Tully UTC Date (dd|mmm|yyyy): 9 Feb 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	OXY	SAL	Nut-F	CHL	HPLC	DIC					
1	1	42	Bot-10	☒ 118	x		x			x					
2	2	43	30	☒ 30	x		x			xx					
3	3	44	5	☒ 5	xx		x			x					
4	4	45	5	☒ 5			x	xx	xx						
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 122 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1743	0943
Bottom	1745	
End	1749	

Positional Information

Start	Lat: 48 ° 34 490 N
	Lon: 125 ° 30 020 W
Bottom	Lat: 48 ° 34 480 N
	Lon: 125 ° 30 030 W
End	Lat: 48 ° 34 460 N
	Lon: 125 ° 30 030 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P2 Event #: 13 Ship: Tully UTC Date (dd/mm/yyyy): 9 02 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							Comments						
			Target Pressure	Confirmed ✓ Pressure		MS	MS	MS	SS	SS	MS							
						DMS	DMSP-t	DMSP-d	Nut-F	CHL	HPLC							
1		46	100	✓	100	x	x	x	x	x								
2		47	75	✓		x			x	x								
3		48	50	✓		x			x	x								
4		49	40	✓		x			x	xx								
5		50	30	✓		x			x	x	xx						Fluo	0.2821
6		51	25	✓		x			x	x	xx						Fluo	0.3773
7		52	20	✓		xx	xx	xx	x	x	xx						Fluo	0.5018
8		53	15	✓		x			xx	x	xx						Fluo	0.6999
9		54	10	✓		x			x	x	xx						Fluo	0.8168
10		55	5	✓		x	x	x	x	xx	xx						Fluo	0.7436
11		56	0	✓		x	x	x	x	x							BOTTOM CAP NOT GOOD	
12		FIRE	IN CASE	✓		NOT USED NOT NEEDED												
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: 119 m
Transmisso Cleaned: ☒ (Y) ☐ (N)

Time	UTC	Local
Start	2006	1206
Bottom	2008	
End	20 22	1222

Positional Information

Lat:	48 ° 35 93	N
Lon:	128 5 ° 59 93	W

▼

Lat:	48 ° 35 93	N
Lon:	128 5 ° 59 91	W

▼

Lat:	48 ° 35 93	N
Lon:	128 5 ° 59 93	W

Extra comments:
DMS

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P2 Event #: 15 Ship: Tully UTC Date (dd mmm/yyyy): 9 2 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed ✓ Pressure	HMSS		HMSS		HMSS	SJ	SJ	SJ	HR	HR	HMSS			
					OXY	SAL	NUT-F	Nut-C	DIC	DOC-S	TOC-S	CDOM-S	DOC-H	CDOM-H	CR			
1		57	Bot-10	✓		x		x		x					x			
2		58	Bot-10	✓						x	x	xx	x	x				
3		59	100	✓		xx		x		xx			x	x	x			
4		60	75	✓		x		x		x								
5		61	75	✓		x		x					x	x	x			
6		62	50	✓		x		xx		x								
7		63	50	✓						x	x	x	x	x	x			
8		64	25	✓		xx		x		x			x	x				
9		65	10	✓		x		x		x			x	x	x			
10		66	5	✓		x		x		x			x	x	x			
11		67	0	✓						xx	x	x						
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 119 m
Transmisso Cleaned: x2 (✓) 1 N

Time	UTC	Local
Start	2058	1258
Bottom	2100	
End	2109	1303

Positional Information
Start
Lat: 48 ° 35 87 N
Lon: 125 ° 59 95 W

Bottom
Lat: 48 ° 35 87 N
Lon: 125 ° 59 93 W

End
Lat: 48 ° 35 88 N
Lon: 125 ° 59 97 W

Extra comments:
Deep

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P3 Event #: 16 Ship: Tully UTC Date (dd:mmm/yyyy): 9 2 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	NUT-F	SAL	CHL	HPLC									
1		68	5	✓	x		xx	xx									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 835 m
Transmisso Cleaned: Y (Y) / N

Time	UTC	Local
Start	2316	1516
Bottom	2330	
End	2346	1546

Positional Information

Start	Lat: 48 ° 37 36 N
	Lon: 126 ° 20 00 W
Bottom	Lat: 48 ° 37 33 N
	Lon: 126 ° 20 15 W
End	Lat: 48 ° 37 31 N
	Lon: 126 ° 20 23 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2020-001

Station:

P4 - DMS

Event #:

17

Ship:

Tully

UTC Date (dd/mm/yyyy): 16 / 2 / 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed Pressure	MA	MA	MA	MA	MA	MA	MA	MA	MA	MA		
					DMS	DMSP-l	DMSP-d	NUT-F	CHL	HPLC	Phyto	EDOC	Cr			
1		69	300	✓				X				X				
2		70	250	✓								X				
3		71	200	✓		X	X	X	X			X				
4		72	175	✓								X				
5		73	150	✓		X	X	X	X			X	X			
6		74	125	✓								X	X			
7		75	100	✓		X			X	X		X	X			
8		76	75	✓		X			X	XX		X				
9		77	60	✓					XX	X	XX					
10		78	50	✓		X			X	X	XX	X				
11		79	40	✓		X			X	X	XX					
12		80	30	✓		X	X	X	X	X	XX					
13		81	25	✓		X			X	X		X	X			
14		82	20	✓		XX	XX	XX	X	XX						
15		83	15	✓		X			X	X	XX					
16		84	10	✓		X			X	X		X	X			
17		85	5	✓		X	X	X	X			X				
18		86	5	✓					X	X	XX	XXX	X			
19		87	0			X	X	X	X	X						
20																
21																
22																
23																
24																

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

Bottom Depth: 1320 m

Transmisso Cleaned: X2 Y / N

Time	UTC	Local
Start	0205	1005
Bottom	0211	
End	0233	1033

Positional Information

Start
Lat: 48 ° 39 08 N
Lon: 126 ° 39 63 W

Bottom
Lat: 48 ° 39 13 N
Lon: 126 ° 39 59 W

End
Lat: 48 ° 39 21 N
Lon: 126 ° 39 33 W

Extra comments:

DMS

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P4 - UBC Event #: 18 Ship: Tully UTC Date (dd/mm/yyyy):

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure		UBC	Cr										
1		88	Bot-10			x											
2		89	Bot-10			X											
3		90	Bot-10			X											
4		91	Bot-10			X											
5		92	Bot-10				x										
6		93	1250				x										
7		94	1000				x										
8		95	1000			x											
9		96	1000			X											
10		97	1000			X											
11		98	1000			X											
12		99	800				x										
13		100	600				x										
14		101	500			x											
15		102	500			X											
16		103	500			X											
17		104	500			X											
18		105	400				x										
19		106	10			x											
20		107	10			X											
21		108	10			X											
22		109	10			X											
23																	
24																	

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

Bottom Depth: m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Lat:	°	N
Lon:	°	W

▼

Lat:	°	N
Lon:	°	W

▼

Lat:	°	N
Lon:	°	W

Extra comments:
UBC

CANCELLED

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P4 Event #: 18 Ship: Tully UTC Date (dd/mm/yyyy): 10 FEB 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments					
			Target Pressure	Confirmed ^{HM} Pressure	Oxy OXY	SAL	^{HM} Nut-F	^{HM} NUT-C	^{HM/HA} DIC	^{SS} DOC-H	ST CDOM-H	DNA		CR				
1		88	Bot-10	✓	1315	xx		x	x	x	x	x	x					
2		89	1250	✓	1250	x	x	x	x	xx			x					
3		90	1250	✓	1250	x	xx	x	x	x	x	x	x					
4		91	1000	✓	1000	x	xx	xx	xx	x	x	x	x					
5		92	800	✓		x	x	x	x	x	x	x	x					
6		93	600	✓		x		x	x	x	x	x	x					
7		94	400	✓		x		x	x	x	x	x	x					
8		95	300	✓		x		x		x	x	x	x					
9		96	250	✓		xx		x		x	x	x			x			
10		97	200	✓		x		x		x	x	x	x		x			
11		98	175	✓		x		x		x	x	x			x			
12		99	150	✓		x		x		x	x	x	x					
13		100	125	✓		x		x		x	x	x						
14		101	100	✓		x		x		x	x	x	x					
15		102	75	✓		xx		x		x	x	x			x			
16		103	50	✓		x		x		x	x	x	x		x			
17		104	25	✓		x		x		x	x	x	x					
18		105	10	✓		x		x		x	x	x	x					
19		106	5	✓		xx	x	x		x	x	x						
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 1322 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0350	1950
Bottom	0413	
End	0452	2052

Positional Information

Lat:	48 ° 38.97	N
Lon:	126 ° 39.94	W

Start

▼

Lat:	48 ° 38.96	N
Lon:	126 ° 39.90	W

Bottom

▼

Lat:	48 ° 39.05	N
Lon:	126 ° 39.94	W

End

Extra comments:
Deep

Sampling Log

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

Cruise ID: 2020-001 Station: P4 Event #: 19 Ship: Tully UTC Date (dd mmm yyyy): 10 02 20

[illegible]

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): D.

Bottom Depth: 1320 m

Transmisso Cleaned: NA Y / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start	0510	2110
Bottom	0553	
End	0624	

Positional Information

Start	Lat:	40 ° 39 07	N
	Lon:	126 ° 39 40	W

Bottom	Lat:	40 ° 34 17	N
	Lon:	126 ° 34 95	W

End	Lat:	48	°	39	33	N
	Lon:	126	°	39	99	W

Extra comments:

TM-deep

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

10 FEB 1970

Extra comments:

TM-shallow

Water Properties Group

Sampling Log

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

Cruise ID:

2020-001

Station:

P4

Event #:

23

Ship:

Tully

UTC Date (dd|mmm|yyyy): 10 FEB 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments
			Target Pressure	Confirmed ☒ Pressure	DNA	RNA	CHL						
1	5	118	35	✓ 35	xxx	xxx	xxx						
2	6	119	35	✓									
3	7	120	35	✓									
4	8	121	35	✓									
5	9	122	35	✓									
6	10	123	10	✓ 10	xxx	xxx	xxx						
7	11	124	10	✓									
8	12	125	10	✓									
9	13	126	10	✓									
10	14	127	10	✓									
11	1	128	1250	✓ 1250				xxx					
12	2	129	1000	✓ 1000				xxx					
13	3	130	800	✓ 800				xxx					
14	4	131	600	✓ 600				xxx					
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													

Profile type:

ROS ☒ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): MB

Bottom Depth: 1312 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1038	0238
Bottom	1058	
End	1124	

Positional Information

Start	Lat: 48 ° 39 005 N
	Lon: 126 ° 39 995 W
	▼
Bottom	Lat: 48 ° 39 016 N
	Lon: 126 ° 39 955 W
	▼
End	Lat: 48 ° 38 987 N
	Lon: 126 ° 39 949 W

Extra comments:

Racquelle ✓ CR

OUT-OF-ORDER!

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P4 Event #: 24 Ship: Tully UTC Date (dd/mm/yyyy): 10 Feb 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure		VAR											
1	1	132	Chl Max	✓	41	X											
2	2	133	Chl Max	✓		X											
3	3	134	Chl Max	✓		X											
4	4	135	Chl Max	✓		X											
5	5	136	5	✓	5	X											
6	6	137	5	✓		X											
7	7	138	5	✓		X											
8	8	139	5	✓		X											
9	9	140	5	✓		X											
10	10	141	5	✓		X											
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 1320 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1429	0625
Bottom	1432	
End	1437	

Positional Information
Start
Lat: 48 ° 38 970 N
Lon: 126 ° 39 940 W

Bottom
Lat: 48 ° 38 990 N
Lon: 126 ° 39 970 W

End
Lat: 48 ° 39 040 N
Lon: 126 ° 39 920 W

Extra comments:
Productivity

Water Properties Group

Sampling Log

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

Cruise ID:

2020-001

Station:

P5

Event #:

25

Ship:

Tully

UTC Date (dd|mmm|yyyy): 10 FEB 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed ☒ Pressure	NUT-F	SAL	CHL	HPLC								
1	1	142	2005	☒ 2005		X								Salinity storage experiment		
2	2	143	2005	☒ 2005		X								Salinity storage experiment		
3	3	144	2005	☒ 2005		X								Salinity storage experiment		
4	4	145	5	☒ 5	X	X	XX	XX								
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 2115 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1746	0946
Bottom	1818	
End	1852	

Positional Information

Start
Lat: 48 ° 41 450 N
Lon: 127 ° 9 850 W

Bottom
Lat: 48 ° 41 430 N
Lon: 127 ° 9 770 W

End
Lat: 48 ° 41.47 N
Lon: 127 ° 09.82 W

Extra comments:

Will also have loops for
1x Nut-F, 1x Sal, 2x Chl

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P6 Event #: 26 Ship: Tully UTC Date (dd|mmm|yyyy): 11 Feb 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure	NUT-F		CHL	HPLC									
1		146	5		x		xx	xx									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 2573 m
 Transmisso Cleaned: XZ (Y) N

Time	UTC	Local
Start	21 23	13 23
Bottom	21 57	13 57
End	22 31	

Positional Information
 Start
 Lat: 49 ° 44 55 N
 Lon: 127 ° 39 90 W

Bottom
 Lat: 48 ° 44 48 N
 Lon: 127 ° 40 00 W

End
 Lat: 48 ° 44 43 N
 Lon: 127 ° 40 21 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P7 Event #: 27 Ship: Tully UTC Date (dd|mmm|yyyy): 11 | FEB | 2020

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials														Comments
			Target Pressure	Confirmed √	Pressure	NUT-F	SAL	CHL	HPLC											
1		147	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): HM

Bottom Depth: 2531 m
Transmisso Cleaned: 72 ☒ Y / ☐ N

Time	UTC	Local
Start	0051	1651
Bottom	0125	1725
End	0159	1759

Positional Information

Start	Lat: 48 ° 46.56	N
	Lon: 128 ° 09.99	W

Bottom

Lat: 48 ° 46.56	N
Lon: 128 ° 10.10	W

End

Lat: 48 ° 46.53	N
Lon: 128 ° 10.30	W

Extra comments:

Will also have loops for
1x Nut-F, 1x Sal, 2x Chl

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001

Station: P8

Event #: 28

Ship: Tully

UTC Date (dd mmm/yyyy): 11 / 2 / 20

			Rosette Operation		Samples Taken / Sampler's Initials										Comments			
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	OXY	SAL	NUT-F	NUT-C	CHL	HPLC	HR DOC	HR CDOM	CR					
1		148	2000	✓ 2001	x	xx	x	x			x	x	xxx					
2		149	1500	✓	x	x	x	x			x	x	xxx					
3		150	1250	✓	x	x	x	x			x	x	xxx					
4		151	1000	✓	x	xx	x	x			x	x	xxx					
5		152	800	✓	xx	x	xx	xx			x	x	xxx					
6		153	600	✓	x		x	x			x	x	xxx					
7		154	400	✓	x		x	x			x	x	xxx					
8		155	300	✓	x		x				x	x	xxx					
9		156	250	✓	x		x				x	x	xxx					
10		157	200	✓	x		x				x	x	xxx					
11		158	150	✓	x		x				x	x	xxx					
12		159	100	✓	x		x		x		x	x						
13		160	75	✓	x		x		x		x	x						
14		161	60	✓	x		xx		x	xx								
15		162	50	✓	x		x				x	x	xxx					
16		163	50	✓	x		x		x	xx								
17		164	40	✓	xx		x		x	xx								
18		165	30	✓	x		x		x	xx								
19		166	25	✓	x		x		xx		x	x	xxx					
20		167	20	✓	x		x		x									
21		168	15	✓	xx		x		x	xx								
22		169	10	✓	x		x		xx		x	x	xxx					
23		170	5	✓	x	x	x				x	x	xxx					
24		171	5	✓			x		x	xx								

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

Bottom Depth: 2544 m
Transmisso Cleaned: x2 (Y) / N

Time	UTC	Local
Start	0411	2011
Bottom	0446	
End	0543	

Positional Information
Start
Lat: 48 ° 49 03 N
Lon: 128 ° 39 06 W

Bottom
Lat: 48 ° 48 96 N
Lon: 128 ° 39 02 W

End
Lat: 48 ° 49 04 N
Lon: 128 ° 39 58 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P9 Event #: 31 Ship: Tully UTC Date (dd|mmm|yyyy): 11 | Feb | 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	NUT-F	SAL	CHL	HPLC									
1	1	172	5	✓ 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): MB

Bottom Depth: 2376 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0941	0141
Bottom	1014	
End	1046	

Positional Information
Start
Lat: 48 ° 51 427 N
Lon: 129 ° 9 970 W

Bottom
Lat: 48 ° 51 400 N
Lon: 129 ° 10 025 W

End
Lat: 48 ° 51 383 N
Lon: 129 ° 9 990 W

Extra comments:

Will also have loops for
1x Nut-F, 1x Sal, 2x Chl

Sampling Log

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

Cruise ID: 2020-001 Station: P10 Event #: 32 Ship: Tully UTC Date (dd mmm yyyy): 11 FEB 2020

[illegible]

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): *MS*

Bottom Depth: 2669 m

Transmisso Cleaned: (Y) Y N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start	1341	0541
Bottom	1414	
End	1446	

Positional Information

Lat:	48	°	53	580	N
Lon:	129	°	39	990	W

Start	Lat:	48	°	53	580	N
	Lon:	129	°	39	990	W

▼

Bottom	Lat:	48	°	53	550	N
	Lon:	129	°	40	000	W

End	Lat:	48 ° 53' 610 N
	Lon:	129 ° 40' 110 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P11 Event #: 34 Ship: Tully UTC Date (dd|mmm|yyyy): 11 FEB 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	NUT-F	SAL	CHL	HPLC									
1	1	174	5	✓ 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): MB

Bottom Depth: 2781 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1737	0937
Bottom	1810	
End	1844	

Positional Information
Start
Lat: 48 ° 56 010 N
Lon: 130 ° 9 900 W

Bottom
Lat: 48 ° 56 010 N
Lon: 130 ° 9 990 W

End
Lat: 48 ° 55 940 N
Lon: 130 ° 10 120 W

Extra comments:

Will also have loops for
1x Nut-F, 1x Sal, 2x Chl

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P12 Event #: 35 Ship: Tully UTC Date (dd/mmm/yyyy): 11 / 2 / 20

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials														Comments
			Target	Confirmed		DMS	DMSP-t	DMSP-d	NUT-F	CHL	HPLC	SJ	SJ	SJ						
			Pressure	✓	Pressure							TOC	DOC	CDOM						
1		175	300	✓		x			x											
2		176	200	✓		x	x	x	xx											
3		177	150	✓		x	x	x	x											
4		178	100	✓		x			x	x										
5		179	75	✓		x			x	x										
6		180	60	✓					x	x	xx									
7		181	50	✓		x			x	x	xx									
8		182	50	✓								x	x	x						
9		183	40	✓		x			x	x	xx									
10		184	30	✓		x	x	x	x	x	xx									
11		185	25	✓		x			x	xx										
12		186	20	✓		xx	xx	xx	x	x										
13		187	15	✓		x			x	x	xx									
14		188	10	✓		x			x	xx										
15		189	5	✓		x	x	x	x											
16		190	5	✓					x	x	xx									
17		191	0	✓		x	x	x	x	x										
18		192	0	✓								x	xx	xx						
19																				
20																				
21																				
22																				
23																				
24																				

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

Bottom Depth: 3264 m

Transmisso Cleaned: x2 (Y) N

Time	UTC	Local
Start	21 22	13 22
Bottom	21 28	
End	21 47	

Positional Information

Start
Lat: 48 ° 58 17 N
Lon: 130 ° 39 38 WBottom
Lat: 48 ° 58 18 N
Lon: 130 ° 39 36 WEnd
Lat: 48 ° 58 15 N
Lon: 130 ° 39 33 W

Extra comments:

DMS

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

Cruise ID: 2020-001 Station: P12 Event #: 36 Ship: Tully UTC Date (dd/mmm/yyyy): 11/2/20

Extra comments:
TM-shallow
Go. FLO 5

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P12 Event #: 37 Ship: Tully UTC Date (dd|mmm|yyyy): 11 | 2 | 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓	Pressure	OXY	SAL	NUT-F	NUT-C	DIC	CDOM-H	DOC-H		SAGs	DNA	SJ TOC-S	SJ DOC-S	SJ CDOM-S
1		198	Bot-10	✓	3276											xx	x	x
2		199	Bot-10	✓	3276	x		x	x	x	x	x						
3		200	3000	✓		x	xx	x	x	xx								
4		201	3000	✓		x	x	x	x	x	x	x						
5		202	2500	✓		xx	x	xx	xx	x	x	x						
6		203	2000	✓		x	x	x	x	x	x	x						
7		204	1500	✓		x	xx	x	x	x	x	x						
8		205	1250	✓		x	x	x	x	x	x	x						
9		206	1000	✓		x	xx	x	x	x	x	x						
10		207	800	✓		xx		x	x	x	x	x						
11		208	600	✓		x		x	x	x	x	x						
12		209	400	✓		x		x	x	x	x	x						
13		210	300	✓		x		x		x	x	x						
14		211	250	✓		xx		x		x	x	x						
15		212	200	✓		x		x		x	x	x						
16		213	175	✓		x		xx		x	x	x						
17		214	150	✓		x		x		x	x	x						
18		215	125	✓		x		x		x	x	x						
19		216	100	✓		x		x		x	x	x						
20		217	75	✓		xx		x		x	x	x						
21		218	50	✓		x		x		x	x	x						
22		219	25	✓		x		x		x	x	x						
23		220	10	✓		x		x		x	x	x						
24		221	5	✓		x	x	x		x	x	x						

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

Bottom Depth: 3264 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	22 41	14 41
Bottom	23 35	
End	00 55	

Positional Information
Lat: 48 ° 58 10 N
Lon: 130 ° 39 60 W

Lat: 48 ° 57 97 N
Lon: 130 ° 39 69 W

Lat: 48 ° 57 72 N
Lon: 130 ° 39 02 W

Extra comments:
Deep

Sampling Log

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

Cruise ID: 2020-001 **Station:** P12 **Event #:** 38 **Ship:** Tully **UTC Date (ddmmm/yyyy):** 12 Feb 2020

[illegible]

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): D C

Bottom Depth: 3263 m

Transmisso Cleaned: Y /

Time	UTC	Local
Start	0147	1747
Bottom	0219	
End	0244	

Positional Information

Start	Lat:	48 ° 58 09
	Lon:	130 ° 40 04
Bottom	Lat:	48 ° 58 07
	Lon:	130 ° 40 06
End	Lat:	48 ° 57 94
	Lon:	130 ° 40 08

Extra comments:

TM-deep

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P12 Event #: 39 Ship: Tully UTC Date (dd|mmm|yyyy): 11th | 2 | 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure													
				✓			VAR										
1		227	Chl Max	✓	30		X										
2		228	Chl Max	✓	30		X										
3		229	Chl Max	✓	30		X										
4		230	Chl Max	✓	30		X										
5		231	5				X										
6		232	5				X										
7		233	5				X										
8		234	5				X										
9		235	5				X										
10		236	5				X										
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	

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

Bottom Depth: 3264 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0256	1852
Bottom	0258	
End	0305	1905

Positional Information
Start
Lat: 48° 57.93 N
Lon: 130° 40.04 W

Bottom
Lat: 48° 57.92 N
Lon: 130° 40.05 W

End
Lat: 48° 57.91 N
Lon: 130° 40.05 W

Extra comments:
Productivity

Water Properties Group

Sampling Log

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

Cruise ID:

2020-001

Station:

P13

Event #: 41

Ship: Tully

UTC Date (dd/mm/yyyy): 12 / 2 / 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	NUT-F	SAL	CHL	HPLC									
1	1	237	5	✓ 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																	

Profile type:

ROS ☒ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): HM/MB

Bottom Depth: 3121 m

Transmisso Cleaned: x 2 (Y) / N

Time UTC Local

Start 0743 2343

Bottom 0817

End 0848

Positional Information

Start Lat: 48° 02' 62" N

Lon: 131° 39' 37" W

Bottom Lat: 48° 02' 65" N

Lon: 131° 39' 66" W

End Lat: 48° 02' 65" N

Lon: 131° 39' 87" W

Extra comments:

Will also have loops for

1x Nut-F, 1x Sal, 2x Chl

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P14 Event #: 42 Ship: Tully UTC Date (dd|mmm|yyyy): 12 FEB 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	NUT-F	SAL	CHL	HPLC	CDOM	DOC								
1	1	238	Bot-10	✓ 3358					X	X								
2	2	239	3000	✓ 3000		X			X	X								
3	3	240	2500	✓ 2500		X			X	X								
4	4	241	2250	✓ 2250		X			X	X								
5	5	242	2000	✓ 2000		XX			X	X								
6	6	243	1750	✓ 1750		X			X	X								
7	7	244	1500	✓ 1500		X			X	X								
8	8	245	1250	✓ 1248		X			X	X								
9	9	246	1000	✓ 1000		XX			X	X								
10	10	247	800	✓ 800		X			X	X								
11	11	248	600	✓ 602		X			X	X								
12	12	249	400	✓ 400		X			X	X								
13	13	250	300	✓ 300		X			X	X								
14	14	251	250	✓ 250		X			X	X								
15	15	252	200	✓ 200		X			X	X								
16	16	253	175	✓ 175		X			X	X								
17	17	254	150	✓ 150		X			X	X								
18	18	255	125	✓ 125		X			X	X								
19	19	256	100	✓ 100		X			X	X								
20	20	257	75	✓ 75		X			X	X								
21	21	258	50	✓ 50		X			X	X								
22	22	259	25	✓ 25		X			X	X								
23	23	260	10	✓ 10		X			X	X								
24	24	261	5	✓ 5	X	X	XX	XX	X	X								

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

Bottom Depth: 3345 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1248	0448
Bottom	1341	
End	1457	

Positional Information
Start
Lat: 49 ° 7 380 N
Lon: 132 ° 40 000 WBottom
Lat: 49 ° 7 390 N
Lon: 132 ° 40 030 WEnd
Lat: 49 ° 7 400 N
Lon: 132 ° 40 120 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P15 Event #: 43 Ship: Tully UTC Date (dd|mm|yyyy): 12 FEB 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	NUT-F	SAL	CHL	HPLC									
1	1	262	5	✓ 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																	

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

Bottom Depth: 3431 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1857	1037
Bottom	1910	
End	1942	

Positional Information
Start
Lat: 49 ° 12 050 N
Lon: 133 ° 39 910 W

Bottom
Lat: 49 ° 12 050 N
Lon: 133 ° 39 900 W

End
Lat: 49 ° 12 020 N
Lon: 133 ° 39 870 W

Extra comments:

Will also have loops for
1x Nut-F, 1x Sal, 2x Chl

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P16 Event #: 44 Ship: Tully UTC Date (dd|mmm|yyyy): 12 | 2 | 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments				
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP-t	DMSP-d	NUT-F	CHL	HPLC							
1		263	200	✓		x	x	x									
2		264	150	✓		x	x	x									
3		265	100	✓				x	xx								
4		266	75	✓				x	x								
5		267	60	✓				x	x	xx							
6		268	50	✓				x	x	xx							
7		269	40	✓				x	x	xx							
8		270	30	✓		x	x	x	x	xx							
9		271	20	✓		xx	xx	x	x								
10		272	15	✓				x	x	xx							
11		273	10	✓				x	x								
12		274	5	✓		x	x	x	x	xx							
13		275	0	✓		x	x	x	xx								
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 3659 m
Transmisso Cleaned: x2 ☒ Y ☐ N

Time	UTC	Local
Start	23 46	15 46
Bottom	23 50	
End	00 08	16 08

Positional Information
Lat: 49 ° 17 02 N
Lon: 134 ° 39 77 W

Lat: 49 ° 16 99 N
Lon: 134 ° 39 73 W

Lat: 49 ° 16 93 N
Lon: 134 ° 39 65 W

Extra comments:
DMS

Sampling Log

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

Cruise ID: 2020-001 Station: P16 Event #: 45 Ship: Tully UTC Date (dd mmm yyyy): 13 FEB 2020

[illegible]

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): DC

Bottom Depth: 3660 m

Transmisso Cleaned: Y / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
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Start	0018	1618
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Bottom	0034
--------	------

End	0047
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Positional Information

Lat: 49° 16.86

Lon: 134 ° 39' 48"

Lat: 49 ° 16 77

Lon: 134 ° 39 29

Lat: 49 ° 16 . 67

Lon: 134. 39 17

Extra comments:

TM-shallow

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P16 Event #: 46 Ship: Tully UTC Date (dd/mm/yyyy): 13/2/20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments							
			Target Pressure	Confirmed ✓ Pressure	OXY	SAL	NUT-F	NUT-C		HR CDOM	HR DOC	HR EDOC		SAGs	DNA	CR				
1		281	Bot-10	✓ 3684	x		x	x		x	x									
2		282	3500	✓	x	xx	x	x		x	x									
3		283	3500	✓	x	x	x	x		x	x									
4		284	3000	✓	x	x	xx	xx		x	x									
5		285	2500	✓	xx	xx	x	x		x	x									
6		286	2000	✓	x	x	x	x		x	x									
7		287	1500	✓	x	x	x	x		x	x									
8		288	1250	✓	xx	x	x	x		x	x									
9		289	1000	✓	x	xx	x	x		x	x									
10		290	800	✓	x		x	x		x	x									
11		291	600	✓	x		x	x		x	x									
12		292	400	✓	x		x	x		x	x									
13		293	300	✓	x		x			x	x	x								
14		294	250	✓	xx		x			x	x	x								
15		295	200	✓	x		x			x	x	x								
16		296	175	✓	x		x			x	x	x								
17		297	150	✓	x		x			x	x	x								
18		298	125	✓	x		x			x	x	x								
19		299	100	✓	x		xx			x	x	x								
20		300	75	✓	x		x			x	x	x								
21		301	50	✓	x		x			x	x	x								
22		302	25	✓	xx		x			x	x	x								
23		303	10	✓	x		x			x	x	x								
24		304	5	✓	x	x	x			x		x								

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

Bottom Depth: 3660 m
Transmisso Cleaned: 2 (Y) 1 N

Time	UTC	Local
Start	0147	1747
Bottom	0248	
End	0415	

Positional Information
Lat: 49 ° 16 91 N
Lon: 134 ° 39 05 W

Lat: 49 ° 16 57 N
Lon: 134 ° 39 93 W

Lat: 49 ° 16 07 N
Lon: 134 ° 40 32 W

Extra comments:
Deep

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

Cruise ID:

2020-001

Station:

P16

Event #: 47

Ship: Tully

Tully

UTC Date (dd mmm yyyy): 13 2 20

UTC Date (ddmmm yyyy):

13 2 20

ZC

[illegible]**Profile type:**

ROS TRM X-Niskin other?

Watchkeeper(s): A C

Bottom Depth: 3660 m

Transmisso Cleaned: **NA** Y / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
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Start	0514	2114
-------	------	------

Bottom	0543	
--------	------	--

End	0611
-----	------

Positional Information

Lat: 49 ° 17 04 N

Lon: 134 ° 40 10 W

Lat: 49 ° 17 06 N

Lon: 134 ° 40 27 W

Lat: 49 ° 17 ' 04 " N

End Lon: 134 ° 40 34 W

Extra comments:

TM-deep

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P16 Event #: 48 Ship: Tully UTC Date (dd/mm/yyyy): 13 / 2 / 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure		VAR											
1		310	Chl Max	✓	90		x										
2		311	Chl Max	✓	90		x										
3		312	Chl Max	✓	90		x										
4		313	Chl Max	✓	90		x										
5		314	5	✓			x										
6		315	5	✓			x										
7		316	5	✓			x										
8		317	5	✓			x										
9		318	5	✓			x										
10		319	5	✓			x										
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: 3660 m
Transmisso Cleaned: x2 (✓) / N

Time	UTC	Local
Start	0623	2223
Bottom	0626	
End	0632	

Positional Information

Lat:	49 ° 17 06	N
Lon:	134 ° 40 32	W

▼

Lat:	49 ° 17 06	N
Lon:	134 ° 40 31	W

▼

Lat:	49 ° 17 03	N
Lon:	134 ° 40 30	W

Extra comments:
Productivity

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P17 Event #: 50 Ship: Tully UTC Date (dd mmm yyyy): 13 Feb 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	NUT-F	SAL	CHL	HPLC									
1	1	320	5	✓ 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): MB

Bottom Depth: 3691 m
Transmisso Cleaned: Y/N

Time	UTC	Local
Start	1244	0444
Bottom	1316	
End	1346	

Positional Information

Start	Lat: 49 ° 21 000 N
	Lon: 135 ° 39 990 W

Bottom

Lat: 49 ° 21 000 N
Lon: 135 ° 40 020 W

End

Lat: 49 ° 21 000 N
Lon: 135 ° 40 010 W

Extra comments:

Will also have loops for
1x Nut-F, 1x Sal, 2x Chl

Sampling Log

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

Cruise ID: 2020-001

Station: P19

Event #: 53

Ship: Tully

UTC Date (dd mmm yyyy): 14 2 20

[illegible]**Profile type:**

ROS TRM X-Niskin other?

Watchkeeper(s): H. M.

Bottom Depth: 3447 m

Transmisso Cleaned: 72 / Y / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
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Start	0713	2313
-------	------	------

Bottom	07 30
--------	-------

End	0748	23 48
-----	------	-------

Positional Information

Lat: 49 ° 30 04 N

Lon: 137 ° 39.86 W

Start

Bottom

Lat: 49 ° 30 04 N

Lon: 137 ° 39' 06" W

End

Lat: 49 ° 30 15 N

Lon: 137° 39' 93" W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P20 Event #: 54 Ship: Tully UTC Date (dd|mmm|yyyy): 14 FEB 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure		VAR									
1	1	322	Chl Max	✓ 90		X									
2	2	323	Chl Max	✓		X									
3	3	324	Chl Max	✓		X									
4	4	325	Chl Max	✓		X									
5	5	326	5	✓ 5		X									
6	6	327	5	✓		X									
7	7	328	5	✓		X									
8	8	329	5	✓		X									
9	9	330	5	✓		X									
10	10	331	5	✓		X									
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): MB

Bottom Depth: 3987 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1329	0529
Bottom	1337	
End	1338	

Positional Information

Start Lat: 49 ° 34 00 N

Start Lon: 138 ° 39 97 W

Bottom Lat: 49 ° 33 98 N

Bottom Lon: 138 ° 39 97 W

End Lat: 49 ° 33 92 N

End Lon: 138 ° 39 98 W

Extra comments:

Productivity

Sampling Log

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

Cruise ID: 2020-001 Station: P20 Event #: 56 Ship: Tully UTC Date (dd mmm yyyy): 14 Feb 2020

[illegible]

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

Bottom Depth: 3986 m

Transmisso Cleaned: Y / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start	1446	0646
Bottom	1505	
End	1526	

Positional Information

Lat:	49 ° 33.79	N
Lon:	138 ° 39.89	W

Lat:	49° 33.67	N
Lon:	138° 39.75	W

Lat:	49 ° 33.52	N
Lon:	138 ° 39.71	W

Extra comments:
TM-shallow

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P20 Event #: 57 Ship: Tully UTC Date (dd/mm/yyyy): 14 FEB 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ✓ Pressure		MB/ML	SK	SK	SK	MR/MA	HR	HR							
						OXY	SAL	NUT-F	NUT-C	DIC	CDOM	DOC			SAGs	DNA	CR		
1	1	337	Bot-10	✓ 4025		xx		xx	xx	x	x	x							
2	2	338	3500	✓ 3500		x	x	x	x	xx	x	x							
3	3	339	3500	✓ 3500		x	x	x	x	x	x	x							
4	4	340	3000	✓ 3000		x	x	x	x	x	x	x							
5	5	341	2500	✓ 2500		x	xx	x	x	x	x	x							
6	6	342	2000	✓ 2000		xx	x	x	x	x	x	x							
7	7	343	1500	✓ 1500		x	x	x	x	x	x	x							
8	8	344	1250	✓ 1250		x	x	x	x	x	x	x							
9	9	345	1000	✓ 1000		x	xx	x	x	x	x	x							
10	10	346	800	✓ 800		xx	x	x	x	x	x	x							
11	11	347	600	✓ 600		x		x	x	x	x	x							
12	12	348	400	✓ 400		x		x	x	x	x	x							
13	13	349	300	✓ 300		x		x		x	x	x							
14	14	350	250	✓ 250		x		x		x	x	x							
15	15	351	200	✓ 200		x		x		x	x	x							
16	16	352	175	✓ 175		x		x		x	x	x							
17	17	353	150	✓ 150		x		x		x	x	x							
18	18	354	125	✓ 125		x		x		x	x	x							
19	19	355	100	✓ 100		x		x		x	x	x							
20	20	356	75	✓ 75		x		x		x	x	x							
21	21	357	50	✓ 50		x		xx		x	x	x							
22	22	358	25	✓ 25		x		x		x	x	x							
23	23	359	10	✓ 10		xx		x		x	x	x							
24	24	360	5	✓ 5		x	x	x		x	x	x							

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

Bottom Depth: 3956 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1614	0814
Bottom	1716	
End	1839	

Positional Information

Lat:	49 ° 33 942	N
Lon:	138 ° 39 920	W

Start

Bottom

Lat:	49 ° 33 990	N
Lon:	138 ° 39 920	W

End

Lat:	49 ° 33 970	N
Lon:	138 ° 39 850	W

Extra comments:
 Deep

Sampling Log

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

Cruise ID: 2020-001 Station: P20 Event #: 58 Ship: Tully UTC Date (dd|mmm|yyyy): 14 | FEB | 2020

[illegible]

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s):

Bottom Depth: 3958.01 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	18:51	
Bottom	19:12	
End	1944	

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 ° 33. 94	N
	Lon:	138 ° 39 87	W

Extra comments:

TM-deep

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001

Station: P20

Event #: 59

Ship: Tully

UTC Date (dd/mmm/yyyy): 14 / 2 / 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP-t	DMSP-d	NUT-F	CHL	HPLC					
1		366	200	✓		x	x	x							
2		367	150	✓		x	x	x							
3		368	100	✓				x	xx						
4		369	75	✓				xx	x						
5		370	60	✓				x	x	xx					
6		371	50	✓				x	x	xx					
7		372	40	✓				x	x	xx					
8		373	30	✓		x	x	x	x	xx					
9		374	20	✓		xx	xx	x	x						
10		375	15	✓				x	x	xx					
11		376	10	✓				x	x						
12		377	5	✓		x	x	x	x	xx					
13		378	0	✓		x	x	x	xx						
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 3958 m
Transmisso Cleaned: 72 Y / N

Time	UTC	Local
Start	2010	1210
Bottom	2014	
End	2032	

Positional Information

Lat:	49 ° 34 08 N
Lon:	138 ° 39 01 W

Start

Lat:	49 ° 34 09 N
Lon:	138 ° 39 70 W

Bottom

Lat:	49 ° 34 09 N
Lon:	138 ° 39 77 W

Extra comments:

DMS

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P21 Event #: 60 Ship: Tully UTC Date (dd mmm/yyyy): 15 2 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	NUT-F	SAL	CHL	HPLC									
1		379	2005	✓ 2006													Bulk water for Sophie
2		380	2005	✓													Bulk water for Sophie
3		381	2005	✓													Bulk water for Sophie
4		382	2005	✓													Bulk water for Sophie
5		383	5	✓	x	x	xx	xx									
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: 3953 m

Transmisso Cleaned: 72(Y)1 N

Time	UTC	Local
Start	0309	1908
Bottom	0344	
End	0419	

Positional Information

Start Lat: 49 ° 37 97 N

Start Lon: 139 ° 39 92 W

Bottom Lat: 49 ° 37 75 N

Bottom Lon: 139 ° 40 21 W

End Lat: 49 ° 37 57 N

End Lon: 139 ° 40 37 W

Extra comments:

Will also have loops for
1x Nut-F, 1x Sal, 2x Chl

Water Properties Group

Sampling Log

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

Cruise ID:

2020-001

Station:

P22

Event #:

61

Ship:

Tully

UTC Date (dd/mm/yyyy):

15 Feb 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target	Confirmed	NUT-F	SAL	CHL	HPLC	HR	HR									
			Pressure	✓ Pressure					CDOM	DOC									
1	1	384	Bot-10	✓	3977						X	X							
2	2	385	3500	✓	3500		X				X	X							
3	3	386	3000	✓	3000		XX				X	X							
4	4	387	2500	✓	2500		X				X	X							
5	5	388	2000	✓	2000		X				X	X							
6	6	389	1750	✓	1750		X				X	X							
7	7	390	1500	✓	1500		X				X	X							
8	8	391	1250	✓	1250		X				X	X							
9	9	392	1000	✓	1000		X				X	X							
10	10	393	800	✓	800						X	X							
11	11	394	600	✓	600						X	X							
12	12	395	400	✓	400						X	X							
13	13	396	300	✓	300						X	X							
14	14	397	250	✓	250						X	X							
15	15	398	200	✓	200						X	X							
16	16	399	175	✓	175						X	X							
17	17	400	150	✓	150						X	X							
18	18	401	125	✓	125						X	X							
19	19	402	100	✓	100						X	X							
20	20	403	75	✓	75						X	X							
21	21	404	50	✓	50						X	X							
22	22	405	25	✓	25						X	X							
23	23	406	10	✓	10						X	X							
24	24	407	5	✓	5	X		XX	XX		X	X							

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

MB

Bottom Depth: 3892 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 0841 0041

Bottom 0942

End 1108

Positional Information

Lat: 49° 41' 992 N

Lon: 140° 39' 910 W

Lat: 49° 41' 980 N

Lon: 140° 40' 016 W

Lat: 49° 41' 986 N

Lon: 140° 40' 038 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2020-001

Station:

P23

Event #:

602

Ship:

Tully

UTC Date (dd:mmm/yyyy): 15 FEB 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	NUT-F	SAL	CHL	HPLC							
1	1	408	600	✓ 600	x										Bulk water for Nutrients
2	2	409	120	✓ 120		x									Salinity storage exp 33.12
3	3	410	120	✓ 120		x									Salinity storage exp
4	4	411	120	✓ 120		x									Salinity storage exp ↓
5	5	412	5	✓ 5	x										Bulk water for Nutrients
6	6	413	5	✓ 5	x	x	xx	xx							
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): ML

Bottom Depth: 4043 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1555	0755
Bottom	1626	
End	1700	

Positional Information

Lat:	49 ° 45 960 N
Lon:	141 ° 39 980 W

Start

Lat:	49 ° 45 840 N
Lon:	141 ° 40 000 W

Bottom

Lat:	49 ° 45 850 N
Lon:	141 ° 39 950 W

End

Extra comments:

Will also have loops for
 1x Nut-F, 1x Sal, 2x Chi

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P24 Event #: 63 Ship: Tully UTC Date (dd|mmm|yyyy): 15 | 2 | 20

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ✓	Pressure	CHL	HPLC	NUT-F	Sal			HR	HR		AF	AF	AF	AF	AF	
												CDOM-H	DOC-H			TOC-A	DOC-A	CDOM-A	PIC	
1		414	Bot-10	✓	4044							X	X							
2		415	3500	✓					X			X	X							
3		416	3000	✓					XX			X	X							
4		417	2500	✓					X			X	X							
5		418	2000	✓					X			X	X							
6		419	1500	✓					X			X	X							
7		420	1000	✓					X			X	X							
8		421	800	✓								X	X							
9		422	400	✓								X	X		X	X	X	X	X	
10		423	300	✓								X	X		X	X	X	X	X	
11		424	250	✓								X	X							
12		425	200	✓								X	X		X	X	X	X	X	
13		426	175	✓								X	X		X	X	X	X	X	
14		427	150	✓								X	X		X	X	X	X	X	
15		428	125	✓								X	X							
16		429	100	✓								X	X		X	X	X	X	X	
17		430	75	✓								X	X		X	X	X	X	X	
18		431	50	✓								X	X		X	X	X	X	X	
19		432	25	✓											XXX	XXX	XXX	XXX		
20		433	25	✓								X	X						XXX	
21		434	10	✓								X	X		X	X	X	X	X	
22		435	5	✓								X	X		X	X	X	X	X	
23		436	5	✓				XX	XX	X										
24		437	0									X	X		XXX	XXX	XXX	X	X	

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

Bottom Depth: 3976 m
Transmisso Cleaned: Y ☒ N ☐

Time	UTC	Local
Start	2146	1346
Bottom	2248	1448
End	0016	

Positional Information
Lat: 49 ° 50 22 N
Lon: 142 ° 39 78 W

Lat: 49 ° 50 17 N
Lon: 142 ° 39 62 W

Lat: 49 ° 49 94 N
Lon: 142 ° 39 27 W

Extra comments:

Sampling Log

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

Cruise ID: 2020-001 Station: Eddy Event #: 64 Ship: Tully UTC Date (dd mmm yyyy): 16 FEB 2020

[illegible]

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

Bottom Depth: 4080 m

Transmisso Cleaned: Y / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start		
Bottom		
End	0259	

Positional Information		
Lat:	°	N
Lon:	°	W

Start

Bottom

End

Lat:	°	N
Lon:	°	W

Lat:	49	°	53.	92	N
Lon:	142	°	59	86	W

Extra comments:

TM-shallow

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: Eddy Event #: 65 Ship: Tully UTC Date (dd|mmm|yyyy): 16 | 02 | 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	OXY	SAL	NUT-F	NUT-C	CHL	HPLC	Phyto	DIC					
1		443	2000	✓ 1999	x	xx	x	x				xx					
2		444	1750	✓	x	x	xx	xx				x					
3		445	1500	✓	x	x	x	x				x					
4		446	1250	✓	xx	x	x	x				x					
5		447	1000	✓	x	x	x	x				x					
6		448	800	✓	x		x	x				x					
7		449	600	✓	x		x	x				x					
8		450	400	✓	x		x	x				x					
9		451	300	✓	x		x					x					
10		452	250	✓	xx		x					x					
11		453	200	✓	x		x					x					
12		454	175	✓	x		xx					x					
13		455	150	✓	x		x					x					
14		456	125	✓	x		x					x					
15		457	100	✓	x		x		x			x					
16		458	75	✓	xx		x		xx			x					
17		459	50	✓	x		x		x			x					
18		460	40	✓	x		x		x			x					
19		461	30	✓	x		x		x			x					
20		462	20	✓	x		x		xx			x					
21		463	10	✓	x		x		x			x					
22		464	5	✓	xx		x					x					
23		465	5	✓			x		x	xx	x						
24		466															

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

Bottom Depth: 4054 m
 Transmisso Cleaned: Y2(Y) / N

Time	UTC	Local
Start	0308	1908
Bottom	0342	
End	0438	

Positional Information
 Start
 Lat: 49 ° 53 93 N
 Lon: 142 ° 59 01 W

Bottom
 Lat: 49 ° 53 92 N
 Lon: 142 ° 59 73 W

End
 Lat: 49 ° 53 06 N
 Lon: 142 ° 59 79 W

Extra comments:

Sampling Log

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

Cruise ID: 2020-001 **Station:** Eddy **Event #:** 66

Ship: Tully

UTC Date (dd mmm yyyy): 16 / FEB / 2020

[illegible]

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

Bottom Depth: 4081 m

Transmisso Cleaned: Y / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start	4:54	
Bottom	5:18	
End	5:47	

Positional Information

Lat:	49 ° 41' 53" 856" N
Lon:	142 ° 59' 189" W

Start	Lat: 49 ° 53.856" N
	Lon: 142 ° 59.789" W
Bottom	Lat: 49 ° 53.88 N
	Lon: 142 ° 59.77 W

Lat:	49 ° 53.81	N
Lon:	142 ° 59.69	W

Extra comments:

TM-deep

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001

Station: P25

Event #: 68

Ship: Tully

UTC Date (dd/mm/yyyy): 16 Feb 2020

Event #		Ship		Tully		UTC Date (dd/mm)										
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed Pressure	AF TOC	AF DOC	AF CDOM	CHL	HPLC	NUT-F						
1	1	472	400	✓ 400	x	x	x									
2	2	473	300	✓ 300	x	x	x									
3	3	474	250	✓ 250	x	x	x									
4	4	475	200	✓ 200	x	x	x									
5	5	476	175	✓ 175	x	x	x									
6	6	477	150	✓ 150	x	x	x									
7	7	478	125	✓ 125	x	x	x									
8	8	479	100	✓ 100	x	x	x									
9	9	480	75	✓ 75	x	x	x									
10	10	481	50	✓ 50	x	x	x									
11	11	482	25	✓ 25	x	x	x									
12	12	483	25	✓ 25												
13	13	484	10	✓ 10	x	x	x									
14	14	485	5	✓ 5	x	x	x									
15	15	486	5	✓ 5												
16	16	487	0	✓ 2.2	xxx	xxx	xxx				xx	xx	x			
17																
18																
19																
20																
21																
22																
23																
24																

Version: 25 Nov 2014

Transducer to host

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

Bottom Depth: 4135 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0930	0130
Bottom	1004	
End	1046	

Positional Information

Lat:	49 ° 59 951 N
Lon:	143 ° 36 224 W

Start

Lat:	50 ° 0 016 N
Lon:	143 ° 36 198 W

Bottom

Lat:	50 ° 0 100 N
Lon:	143 ° 36 212 W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2020-001

Station:

P35

Event #:

69

Ship:

Tully

UTC Date (dd|mmm|yyyy):

16 FEB 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments			
			Target Pressure	Confirmed ✓ Pressure	OXY	AF TOC	AF DOC	AF CDOM	AF PIC	AF POC		CHL	HPLC	NUT-F					
1	1	488	400	✓ 400	x	x	x	x	x	x				x					
2	2	489	300	✓ 300	xx	x	x	x	x	x				x					
3	3	490	250	✓ 250	x	x	x	x						xx					
4	4	491	200	✓ 200	x	x	x	x	x	x				x					
5	5	492	175	✓ 175	x	x	x	x	x	x				x					
6	6	493	150	✓ 150	x	x	x	x	x	x				x					
7	7	494	125	✓ 125	x	x	x	x						x					
8	8	495	100	✓ 100	x	x	x	x	x	x				x					
9	9	496	75	✓ 75	x	x	x	x	x	x				x					
10	10	497	50	✓ 50	x	x	x	x	x	x				x					
11	11	498	25	✓ 25		xxx	xxx	xxx	xxx										
12	12	499	25	✓ 25	xx					xxx				x					
13	13	500	10	✓ 10	x	x	x	x	x	x				x					
14	14	501	5	✓ 5	x	x	x	x	x	x									
15	15	502	5	✓ 5								xx	xx	x					
16		503	0	✓ 2.6	x	xxx	xxx	xxx	x	x				x					
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

MB

Bottom Depth: 4140 m

Transmisso Cleaned: (Y) / N

Time UTC Local

Start 1431 0631

Bottom 1505

End 1545

Positional Information

Lat: 49 ° 59 977 N

Lon: 144 ° 18 094 W

Lat: 49 ° 59 862 N

Lon: 144 ° 18 071 W

Lat: 49 ° 59 761 N

Lon: 144 ° 18 173 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P26 Event #: 70 Ship: Tully UTC Date (dd:mmm/yyyy): 16 FEB 2020

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP-t	DMSP-d	NUT-F	CHL	HPLC	Phyto						
1	1	504	200	✓ 200		x	x	x									
2	2	505	150	✓ 150		x	x	x									
3	3	506	100	✓ 100				x	xx								
4	4	507	75	✓ 75				xx	x								
5	5	508	60	✓ 60				x	x	xx							
6	6	509	50	✓ 50				x	x	xx							
7	7	510	40	✓ 40				x	x	xx							
8	8	511	30	✓ 30		x	x	x	x	xx							
9	9	512	20	✓ 20		xx	xx	x	x								
10	10	513	15	✓ 15				x	x	xx							
11	11	514	10	✓ 10				x	x								
12	12	515	5	✓ 5		x	x	x	x	xx	xxx						
13	13	516	0	✓ 2.2		x	x	x	xx								
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 4257 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	19 14	11 14
Bottom	19 18	
End	19 33	

Positional Information
Start
Lat: 49 ° 59 950 N
Lon: 144 ° 59 960 W

Bottom
Lat: 49 ° 59 930 N
Lon: 144 ° 59 990 W

End
Lat: 49 ° 59 940 N
Lon: 145 ° 0 000 W

Extra comments:
DMS

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

UTC Date (dd mmm yyyy): 16 2 20

Extra comments:
Deep

Sampling Log

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

Cruise ID:

2020-001

Station:

P26

Event #:

72

Ship:

Tully

UTC Date (dd mmm yyyy): 16 2 20

[illegible]**Profile type:**

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

Bottom Depth: 4240 m

Transmisso Cleaned: ☒ Y / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
-------------	------------	--------------

Start	23:18
-------	-------

Bottom	23:46
--------	-------

End	00:19
-----	-------

Positional Information

Lat: 49.59.66 N

Lon: 144 ° 59.66 W

Lat: 49 ° 59.60 N

Lon: 144 ° 59.60 W

Lat: 49° 59.60' N

End Lon: 144.59:60 W

Extra comments:

TM-deep

Water Properties Group

Sampling Log

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

Cruise ID:

2020-001

Station:

P26

Event #: 73

Ship: Tully

UTC Date (dd:mmm/yyyy): 17 2 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed Pressure			HR	HR		AF	AF	AF				
				✓			CDOM-H	DOC-H		TOC-A	DOC-A	CDOM-A	POC	PIC		
1		547	400	✓	400			X	X		X	X	X	X		
2		548	300	✓				X	X		X	X	X	X		
3		549	250	✓				X	X		X	X	X			
4		550	200	✓				X	X		X	X	X	X		
5		551	175	✓	175			X	X		X	X	X	X		
6		552	150	✓	150			X	X		X	X	X	X		
7		553	125	✓	125			X	X		X	X	X			
8		554	100	✓	100			X	X		X	X	X	X		
9		555	75	✓	75			X	X		X	X	X	X		
10		556	50	✓	51			X	X		X	X	X	X		
11		557	25	✓	25			X	X		X	X	X			
12		558	25	✓	25								xxx	xxx		
13		559	10	✓	10			X	X		X	X	X	X		
14		560	5	✓	5			X	X		X	X	X	X		
15		561	0	✓	2			X	X		xxx	xxx	xxx	X	X	
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): H.M.

Bottom Depth: 4240 m

Transmisso Cleaned: X2(Y) / N

Time

UTC

Local

Start 0107 1707

Bottom 0114

End 0135 1735

Positional Information

Start
Lat: 50° 00' 01" N
Lon: 149° 59' 96" WBottom
Lat: 49° 59' 99" N
Lon: 149° 59' 96" WEnd
Lat: 49° 59' 97" N
Lon: 149° 59' 86" W

Extra comments:

Chemistry

Sampling Log

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

Cruise ID: 2020-001 Station: P26 Event #: 74 Ship: Tully UTC Date (dd/mm/yyyy): 17 2 20

[illegible]

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): AC DC

Bottom Depth: 4260 m

Transmisso Cleaned: Y/T

Time	UTC	Local
Start	0145	1745
Bottom	0200	
End	0213	

Positional Information

Start	Lat: 49 ° 59 98
	Lon: 144 ° 59 76

Bottom	Lat:	49	°	59	99
	Lon:	144	°	59	66

End	Lat:	49 ° 59 . 96
	Lon:	144 ° 59 57

Extra comments:

TM-shallow

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001 Station: P26 Event #: 77 Ship: Tully UTC Date (dd/mm/yyyy): 17 2 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure		VAR									
1		567	Chl Max	✓ 115		X									
2		568	Chl Max	✓		X									
3		569	Chl Max	✓		X									
4		570	Chl Max	✓		X									
5		571	5	✓ 5		X									
6		572	5	✓		X									
7		573	5	✓		X									
8		574	5	✓		X									
9		575	5	✓		X									
10		576	5	✓		X									
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: 4250 m

Transmisso Cleaned: YZ ☒ Y ☐ N

Time	UTC	Local
Start	0433	2033
Bottom	0436	
End	0441	

Positional Information

Start Lat: 50 ° 00 03 N

Start Lon: 144 ° 59 78 W

Bottom Lat: 50 ° 00 04 N

Bottom Lon: 144 ° 59 77 W

End Lat: 50 ° 00 04 N

End Lon: 144 ° 59 12 W

Extra comments:

Productivity

Sampling Log

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

Cruise ID: 2020-001 Station: P26 Event #: 78 Ship: Tully UTC Date (dd|mmm|yyyy): 17 2 20

[illegible]

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): DC

Bottom Depth: 4250 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0449	2048
Bottom	0459	
End	0504	

Positional Information

Lat:	50 ° 00 03	N
Lon:	144 ° 59 61	W

Start	Lat:	50 ° 00 03	N
	Lon:	144 ° 59 61	W
▼			
Bottom	Lat:	50 ° 00 00	N
	Lon:	144 ° 59 54	W

End	Lat:	49° 59' 99"	N
	Lon:	144° 59' 49"	W

Extra comments:

TM bulk water

Water Properties Group

Sampling Log

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

Cruise ID: 2020-001

Station: PA-013

Event #: 80

Ship: Tully

UTC Date (dd/mmm/yyyy): 17 / 2 / 20

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy												
1		580	15	✓ 15	xx												
2		581	10	✓	xx												
3		582	5	✓	xx												
4		583	0	✓	xx												
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 4211 m
Transmissio Cleaned: x2(Y) N

	UTC	Local
Start	06 37	22 37
Bottom	06 43	
End	06 53	

Positional Information

Start	Lat: 50 ° 07 74 N
	Lon: 144 ° 48 47 W
Bottom	Lat: 50 ° 07 68 N
	Lon: 144 ° 48 48 W
End	Lat: 50 ° 07 63 N
	Lon: 144 ° 48 44 W

Extra comments:

CTD to 350 m