

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							3.55
14		14	0	✓	xx		x	xx	x	x							
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

Lat: 48 ° 18.17 N

Lon: 123 ° 59.91 W

Lat: 48 ° 18.24 N

Lon: 123 ° 59.94 W

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																	

30
DA
P1
5 m
2017-08
Bot 4

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

Bottom Depth: 120 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1042	
Bottom	1045	
End		

Positional Information

Lat:	48 ° 34 55 N
Lon:	125 ° 30 16 W

Bottom

Lat:	48 ° 34 55 N
Lon:	125 ° 30 16 W

End

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 TV	DOC TV					
1		31	Bot-10	✓ 107	x		x		x	x		x	x					
2		32	100	✓	xx		x		x	x		x	x					
3		33	75	✓	x		x		xx	x		x	x					
4		34	75	✓	x		x		x	xxx								
5		35	50	✓	x		x		x	x		x	x					
6		36	25	✓	x		xx		x	x		x	x					
7		37	10	✓	x		x		x	x		x	x					
8		38	5	✓	x	x	x		x	x	xx	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

Lat: 48 ° 35 99 N

Lon: 125 ° 59 96 W

Lat: 48 ° 35 97 N

Lon: 125 ° 59 98 W

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			
1		39	100	✓								x					
2		40	100	✓		x	x	x	x		x						
3		41	75	✓		x			x		x						
4		42	50	✓		x			x		x						Closed @ 75!
5		43	50	✓								x					
6		44	40	✓		x			x								
7		45	30	✓		x	x	x	xx	xx							Fluo 1
8		46	25	✓		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): H.N.

Bottom Depth: 114 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 1505 0805

Bottom 1507

End 1521

Positional Information

Lat: 48 ° 36 00 N

Lon: 125 ° 59 94 W

Lat: 48 ° 36 00 N

Lon: 125 ° 59 94 W

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: 208.815 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	17 57	10 57
Bottom	18 07	
End	17	

Positional Information

Start	Lat: 48 ° 37 50 N
	Lon: 126 ° 20 03 W
Bottom	Lat: 48 ° 37 45 N
	Lon: 126 ° 19 47 W
End	Lat: 48 ° 37 N
	Lon: 126 ° 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: 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 filt	CuLi	T/Br					
1		55	100		x	x		x		x					
2		56	50			x		x		x					
3		57	25			x		x	xxx	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	2031	1310
Bottom		
End	2101	

Positional Information
Start
Lat: 48 ° 38.96 N
Lon: 126 ° 39.89 W

Bottom
Lat: ° N
Lon: ° W

End
Lat: 48 ° 38.93 N
Lon: 126 ° 39.94 W

Extra comments:
Go-flo to 100 m
STARTED ARCHIVED PROBABLY
SO TAKEN SLACK IN 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|mmm|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
2		60	250	✓					x						Back 50 300 To Trip
3		61	200	✓		x	x	x	x						BOTTLES
4		62	150	✓		x	x	x	xx			x			
5		63	100	✓		x			x	x				x	
6		64	100	✓											
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				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

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 ACC GOOD!

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

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

Watchkeeper(s):

Transmisso Cleaned: Y / N

Start	2301	1601
Bottom	2331	
End	2359	

Lat:	48 ° 39.08	N
Lon:	126 ° 39.91	W

Bottom

Bottom

Lat:	48 ° 39.83	N
Lon:	126 ° 39.83	W

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

Go-flo to 500 m

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

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

Water Properties Group

Sampling Log

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

Cruise ID: 2017-08 Station: P4 Event #: 23 Ship: Tully UTC Date (dd|mmm|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/AF	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	x	xx	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	x	xx	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

Start
Lat: 48 ° 39.01 N
Lon: 126 ° 39.97 WBottom
Lat: 48 ° 39.00 N
Lon: 126 ° 39.99 WEnd
Lat: 48 ° 39.06 N
Lon: 126 ° 39.95 WExtra 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 filt	CuLi	T/Br					
1		102	1252 1275		x	x	x	x		xx					
2		103	1150			x	x	x		xx					
3		104	1000			x	x	xx		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

Lat: 48 °

39.02

N

Lon: 126 °

40.56

W

Start

Lat: 48 °

39.04

N

Bottom

Lon: 126 °

41.03

W

End

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	0314
Bottom	0617	
End	0624	

Positional Information

Lat:	48 °	38.81	N
Lon:	126 °	41.37	W

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): 18/08/17

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	69	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): 16 | 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.A.

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

Time	UTC	Local
Start	0820	0120
Bottom	0844	
End	0910	

Positional Information
Start
Lat: 48 ° 38 07 N
Lon: 126 ° 39 98 W

Bottom
Lat: 48 ° 39 00 N
Lon: 126 ° 39 79 W

End
Lat: 48 ° 39 03 N
Lon: 126 ° 39 84 W

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 Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto				
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):

Bottom Depth: 2097 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1150	0450
Bottom	1226	
End	1301	

Positional Information
Start
Lat: 48 ° 41 50 N
Lon: 127 ° 09 98 W

Bottom
Lat: 48 ° 41 37 N
Lon: 127 ° 09 87 W

End
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 | 9 | 17

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials												Comments	
			Target	Confirmed	Pressure	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto				
			Pressure	√															
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	<u>1932</u>	<u>1232</u>
Bottom	<u>2005</u>	
End	<u>2041</u>	

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-flt	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						
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				

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

Bottom Depth: 2516 m
Transmissio Cleaned: Y / N

Time	UTC	Local
Start	2325	1625
Bottom	2359	
End	0059	1759

Positional Information

Start	Lat: 48 ° 48.99 N
Start	Lon: 128 ° 39.99 W

Bottom

Bottom	Lat: 48 ° 49.06 N
Bottom	Lon: 128 ° 40 12 W

End

End	Lat: 48 ° 48.91 N
End	Lon: 128 ° 40.16 W

Extra comments:

Will also have loops for Sal x1,

Nut x1, Chl x2, Oxy x2

5033A @ 1950
First sample 10 st.

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	Lon: 129 ° 09.95 W
Bottom	Lat: 48 ° 51.37 N	Lon: 129 ° 09.86 W
End	Lat: 48 ° 51.37 N	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	Nut-F	Sal	Chl	HPLC	Gases	Cs									
				✓ Pressure															
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

Lat: 48 ° 53 61 N
Lon: 129 ° 40 04 W

Lat: 48 ° 53 62 N
Lon: 129 ° 39 97 W

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.19.

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 Pressure	Confirmed		Sal	Nut-fr	Nut-C	Fe filt	Fe non-filt	CuLi	T/Br							
				✓	Pressure														
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	AM/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

Lat:	48 ° 58.24	N
Lon:	130 ° 39.95	W

Bottom

Lat:	48 ° 58.19	N
Lon:	130 ° 39.99	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: 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	t	MA	d	MA	TV	AA	C2/mL	MR	TV	
1		252	300	✓	300	x			x						
2		253	250	✓	250				x			x			ALREADY ARCHIVING @ LAUNCH
3		254	200	✓	200	x	x	x	x						#1 NOT CLOSED @ SPIGOT
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): MGBottom Depth: 3238 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1841	1141
Bottom	1845	
End	1906	

Positional Information
Start
Lat: 48 ° 58.18 N
Lon: 130 ° 39.99 W

Start

Bottom
Lat: 48 ° 58.19 N
Lon: 130 ° 39.99 W

Bottom

End
Lat: 48 ° 58.28 N
Lon: 130 ° 40.13 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: 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 Pressure	Confirmed		Sal	Nut-fr	Nut-C	Fe	Fe	CuLi	T/Br							
				√	Pressure				filt	non-filt									
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																			

273
Nut-Fr
P12
200 m
2017-08
Bot 5

273
Fe-filt
P12
200 m
2017-08
Bot 5

273
T/Br
P12
200 m
2017-08
Bot 5

273
Fe-Nonf
P12
200 m
2017-08
Bot 5

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 ° 58.20 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	
					TV/NA	TV/NA	TV/NA	CZ	NA/NA	GC	NA	CB/NA	AD	acid	n-filt	TV/NA	
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	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	x	xx	x	x	xx	x	
6	6	279	1500	✓ 1500	x	xx	xx	x	x	x	x	xx	x	x	xx	x	
7	7	280	1250	✓ 1250	x	x	x	x	x	x	x	xx	x	x	xx	x	
8	8	281	1000	✓ 1000	x	x	x	x	x	x	x	xx	x	x	xx	x	
9	9	282	800	✓ 800	x	x	x		x	x	x	xx	x	x	xx	x	
10	10	283	600	✓ 600	x	x	x		x	x	x	xx	x	x	xx	x	
11	11	284	400	✓ 400	x	x	x		x	x	x	xx	x	x	xx	x	
12	12	285	300	✓ 300	x	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	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	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	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

Start

Lat: 48 ° 58.21	N
Lon: 130 ° 39.95	W

Bottom

Lat: 48 ° 58.13	N
Lon: 130 ° 40.00	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: P12

Event #: 49

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
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): HG AM/B

Bottom Depth: 3234 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0228	
Bottom	0339	
End	0510	

Positional Information

Start
Lat: 48 ° 58.22 N
Lon: 130 ° 39.96 W

Bottom
Lat: 48 ° 58.10 N
Lon: 130 ° 40.00 W

End
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: P12		Event #: 2017-08-17												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																		

http://www.pac

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

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	Confirmed √	Pressure	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto				
			Pressure																
1	1	318	5				x	x	x x	x x				x x					
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 308.3 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1256	0556
Bottom	1331	
End	1405	

Positional Information
Start
Lat: 49 ° 02 64 N
Lon: 131 ° 40 00 W

Bottom
Lat: 49 ° 02 65 N
Lon: 131 ° 39 98 W

End
Lat: 49 ° 00 61 N
Lon: 131 ° 39 98 W

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): 20|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 RASGED CAP NOT SITTING PROPER
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): MGBottom Depth: 3317 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1934	1234
Bottom	2034	
End	2200	

Positional Information
Start
Lat: 49 ° 07.43 N
Lon: 132 ° 39.91 WBottom
Lat: 49 ° 07.36 N
Lon: 132 ° 40.01 WEnd
Lat: 49 ° 07.39 N
Lon: 132 ° 40.02 WExtra 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
Start
Lat: 49 ° 12.02 N
Lon: 133 ° 39.92 W

Bottom
Lat: 49 ° 12.07 N
Lon: 133 ° 40.08 W

End
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|mm|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: 3639 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

Start

▼

Lat:	49 ° 17 05	N
Lon:	134 ° 40 01	W

Bottom

▼

Lat:	49 ° 17 06	N
Lon:	134 ° 40 02	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: P16

Event #: 51

Ship: Tully

UTC Date (dd|mmm|yyyy): 21 | 08 | 17

Cruise ID: 2017-06			Station: 110		Event ID: 110													Comments	
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials														
			Target Pressure	Confirmed Pressure	Cesium														
				✓															
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.M.

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	Confirmed		Sal	Nut-fr	Nut-C	Fe	Fe	CuLi	T/Br								
			Pressure	√	Pressure															filt
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): AM/AM

Bottom Depth: 3635 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1043	0343
Bottom	1200	
End	1339	

Positional Information

Start
Lat: 49 ° 16 97 N
Lon: 134 ° 40 07 W

Bottom
Lat: 49 ° 16 88 N
Lon: 134 ° 40 08 W

End
Lat: 49 ° 16 82 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	DOC	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	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	x	xx	x	x	xx	x		
7	7	403	1500	✓	x	x	x	x	x	x	x	xx	x	x	xx	x		
8	8	404	1250	✓	x	x	x	xx	x	x	x	xx	x	x	xx	x		
9	9	405	1000	✓	xx	x	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|mmm|yyyy): 21 | 8 | 17

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		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

Transmembrane Transport

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				
						MP	t	MA	d	MA	TV	AA	MP	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	1.022
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		Sal	Nut-fr	Nut-C	Fe filt	Fe non-filt	CuLi	T/Br							
				✓	Pressure														
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: 3655 m

Transmissio 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

Start

Bottom

End

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 Pressure	Confirmed ☒ Pressure	Oxy	Sal	Nut-Fr	HPLC	CHL	DA	DIC	pH	Gases	Phyto	NH ₄		
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

Lat:

49 ° 21.04 N

Bottom

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	CHL	HPLC	Nut	Sal	DOC	DOC	Gases							
				√	Pressure					acid	n-filt							
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 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

▼

Lat:	49 °	25 99	N
Lon:	136 °	40 00	W

▼

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	xxx	xxx							
2	2	472	2005	✓					x	xxx	xxx							
3	3	473	2005	✓					x	xxx	xxx						WEAKY VENT	
4	4	474	2005	✓					x	xxx	xxx							
5	5	475	2005	✓	2006				x	xxx	xxx						WEAKY 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	xx	xx	x	x			xx						

Profile type:

(ROS) TRM X-Niskin other?

Watchkeeper(s): H.M/MG

Bottom Depth: 3928 m

Transmisso Cleaned: (Y) / N

Time UTC Local

Start 1828 1128

Bottom 1900

End 1938

Positional Information

Lat: 49 ° 30 69 N

Lon: 126 ° 39 92 W

137 ▼

Lat: 49 ° 30.03 N

Lon: 126 ° 39.89 W

137 ▼

Lat: 49 ° 30.01 N

Lon: 126 ° 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): HM

Bottom 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	W

Bottom

Lat: 49 ° 42 05	N
Lon: 140 ° 39 97	W

End

Lat: 49 ° 41 99	N
Lon: 140 ° 40 04	W

Extra 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	✓ 2005		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

Start
Lat: 49 ° 46.06 N
Lon: 141 ° 39.83 W

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 BOT 1
@ 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/mm/yyyy):

24 08 17

Cruise ID:			2017-08		Station:		P24										Event in:		Date:		Time:		Comments					
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Gases													
			Target Pressure	Confirmed ✓ Pressure	CHL	HPLC	Nut	Sal	DOC acid	DOC B-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																												

http://www.pac

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

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 | 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	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.A.

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

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

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

Bottom
 Lat: 50 ° 00 04 N
 Lon: 143 ° 36 17 W

End
 Lat: 50 ° 00 01 N
 Lon: 143 ° 36 23 W

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 15	
End	16 47	

Positional Information

Start	Lat: 50 ° 00 06	N
	Lon: 144 ° 18 24	W
Bottom	Lat: 50 ° 00 01	N
	Lon: 144 ° 18 19	W
End	Lat: 50 ° 00 00	N
	Lon: 144 ° 18 22	W

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|mm|yyyy):

24 | 08 | 17

Cruise ID:			2017-08		Station:		P26		Event #:		Smp:		Date:		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		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 BOT 3
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																

538

Nut-Fr

P26

150 m

2017-08

Bot 1

<http://www.pac>

538
Nut-Fr
P26
150 m
2017-08
Bot 1Profile 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 WBottom
Lat: 49 ° 59.95 N
Lon: 144 ° 59.90 WEnd
Lat: 49 ° 59.86 N
Lon: 144 ° 59.85 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:

P26

Event #:

80

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	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						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		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

Start
Lat: 49 ° 59.90 N
Lon: 144 ° 59.90 WBottom
Lat: 49 ° 59.93 N
Lon: 144 ° 59.92 WEnd
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	DOC	DOC	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		Sal	Nut-fr	Nut-C	Fe	Fe	CuLi	T/Br								
				√	Pressure				filt	non-filt										
1		587	1000			x	x	x	✕ x	x		x								
2		588	750				x	x	x	x		x								
3		589	500			✕	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

Dups + 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

Cruise ID:			2017-08		Station:		Event #:		P26		Camp:		Date:		Time:		Comments	
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													
			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												

http://www.pao

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

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

Time	UTC	Local
Start	0517	0217
Bottom	0526	
End	0540	

Positional Information

Lat:	49 ° 59.99	N
Lon:	144 ° 59.88	W

Start

Lat:	49 ° 59.99	N
Lon:	144 ° 59.88	W

Bottom

Lat:	49 ° 59.99	N
Lon:	144 ° 59.83	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: P26

Event #: 87

Ship: Tully

UTC Date (dd|mmm|yyyy): 25 | 08 | 17

			Rosette Operation		Samples Taken / Sampler's Initials										Comments		
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Nut-C	Fe filt	Fe non-filt	CuLi	T/Br						
1		616	2250		x	x	x	x	x		xx						
2		617	2000			x	x	x	x		xx						
3		618	1750			x	x	x	x		xx						
4		619	1500			x	x	x	x		xx						
5		620	1250			x	x	x	x		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): AB/B

Bottom Depth: 4251 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0555	2255
Bottom	0652	
End	0803	

Positional Information

Start
Lat: 50 ° 00.02 N
Lon: 144 ° 59.89 W

Bottom
Lat: 49 ° 59.85 N
Lon: 144 ° 59.68 W

End
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

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			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										

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

Bottom

Lat:	50 ° 00 04	N
Lon:	144 ° 59 93	W

End

Lat:	50 ° 00 02	N
Lon:	144 ° 59 95	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: 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	0959	

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 Pressure	Confirmed	Sal	Nut-fr	Nut-C	Fe	Fe	CuLi	T/Br							
				√ Pressure				filt	non-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: 4250 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 1009 0309

Bottom 1128

End 1323

Positional Information

Lat: 50 ° 00 04 N

Lon: 145 ° 00 01 W

Lat: 49 ° 59 02 N

Lon: 145 ° 00 01 W

Lat: 50 ° 00 27 N

Lon: 144 ° 59 31 W

Extra comments:

Go-flo to 4000 m

Duges + 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.M.

Bottom Depth: 425 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1441	0741
Bottom	1450	
End	1503	

Positional Information

Lat:	50 ° 08 13	N
Lon:	144 ° 49 89	W

Start

Lat:	50 ° 08 13	N
Lon:	144 ° 49 05	W

Bottom

Lat:	50 ° 08 13	N
Lon:	144 ° 49 79	W

End

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 | 08 | 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure				Cs									
1	1	669	200	✓	210			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									

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

Start	Lat: 49 ° 38 06 N
	Lon: 139 ° 39 99 W

Bottom

	Lat: 49 ° 38 07 N
	Lon: 139 ° 40 04 W

End

	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

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			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	x	xx	xx	x					

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

H.M.

Bottom Depth: 3960 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 1304 0604

Bottom 1338

End 1417

Positional Information

Lat: 49 ° 38 05 N

Lon: 139 ° 39 94 W

Lat: 49 ° 38 13 N

Lon: 139 ° 40 05 W

Lat: 49 ° 30 04 N

Lon: 139 ° 39 07 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 Pressure	Confirmed ☒	Pressure	Sal	Nut-fr	Nut-C	Fe filt	Fe non-filt	CuLi	T/Br						
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	x x x	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
Start
Lat: 49 ° 33 99 N
Lon: 138 ° 39 99 WBottom
Lat: 49 ° 34 04 N
Lon: 138 ° 39 99 WEnd
Lat: 49 ° 34.02 N
Lon: 138 ° 46.01 WExtra 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|mmm|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					x x x	x								RETURN @ 1935
3		724	Loop					x x x	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	19 19	12 19
Bottom		
End	20 01	

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	MA	MA	AA	MA	MA		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
Transmissio 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
Bottom
End

Lat: 49 ° 34.07 N
Lon: 138 ° 39.94 W

Lat: 49 ° 34.05 N
Lon: 138 ° 39.95 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: P20 Event #: 99 Ship: Tully UTC Date (dd/mm/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/AN	GC	ALC	CO ₂ /C2	AA	acid	n-filt	TV/ENV	
1	1	742	Bot-10	✓ 4625	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/MC

Bottom Depth: 3965 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2212	1512
Bottom	2322	
End	0053	

Positional Information
Lat: 49 ° 34.03 N
Lon: 138 ° 40.02 W

Start

Lat: 49 ° 34.022 N
Lon: 138 ° 40.01 W

Bottom

Lat: 49 ° 34.03 N
Lon: 138 ° 40.01 W

End

Extra 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 #: 700		Ship: Tully		Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

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

Bottom Depth: 3966 m
Transmisso Cleaned: Y / N

	UTC	Local
Start	0139	1839
Bottom	0212	
End	0251	

Positional Information

Start	Lat: 49 ° 34.05	N
	Lon: 138 ° 39.92	W

Bottom

	Lat: 49 ° 34.05	N
	Lon: 138 ° 39.92	W

End

	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
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																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
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	0800	

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|mm|yyyy): 27 | 08 | 17

Cruise ID: 2017-08			Station: 140		Date: 11/10/17													Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

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

Start	Lat: 49 ° 17.02 N	Lon: 134 ° 39.98 W
Bottom	Lat: 49 ° 16.97 N	Lon: 134 ° 39.94 W
End	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			x					
15	15	791	75	✓		x	x			x					
16	16	792	50	✓		x	x			xx	xx				
17	17	793	25	✓		x	x			x					
18	18	794	10	✓		x	x			x					
19	19	795	5	✓		xx	x			x		xx			
20	20	796	5	✓						xx	xx				
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	1550
End	1538	

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