

Water Properties Group

Sampling Log

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

Cruise ID:

2017-01

Station:

P3

Event #:

16

Ship:

Tully

UTC Date (dd mmm yyyy): 7 FEB 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut-fr	CHL	HPLC						
1	1	104	Bot-10	✓ 808	x										
2	2	105	O ₂ Max	✓ 100	x										
3	3	106	5	✓ 6	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): MB

Bottom Depth: 814 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1452	0652
Bottom	1505	
End	1521	

Positional Information
Start
Lat: 48 ° 37 45 N
Lon: 126 ° 20 01 W

Bottom
Lat: 48 ° 37 59 N
Lon: 126 ° 20 01 W

End
Lat: 48 ° 37 55 N
Lon: 126 ° 19 96 W

Extra comments:

~~Shallow Cesium cast~~P3 + O₂ sensor chk.

Cruise ID: 2017-01 Station: P4 Event #: 17 Ship: Tully UTC Date (dd mmm yyyy): 7 Feb 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Cesium										
1	1	1	500	✓ 500	x										
2	2	2	500	✓	x										
3	3	3	500	✓	x										
4	4	4	500	✓	x										
5	5	5	500	✓	x										
6	6	6	500	✓	x										
7	7	7	400	✓ 400	x										
8	8	8	400	✓	x										
9	9	9	400	✓	x										
10	10	10	400	✓	x										
11	11	11	400	✓	x										
12	12	12	400	✓	x										
13	13	13	300	✓ 301	x										
14	14	14	300	✓	x										
15	15	15	300	✓	x										
16	16	16	300	✓	x										
17	17	17	300	✓	x										
18	18	18	300	✓	x										
19	19	19	200	✓ 202	x										
20	20	20	200	✓	x										
21	21	21	200	✓	x										
22	22	22	200	✓	x										
23	23	23	200	✓	x										
24	24	24	200	✓	x										

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

Bottom Depth: 132 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1641	0841
Bottom	1650	
End	1704	

Positional Information

Lat:	48 ° 38 91	N
Lon:	126 ° 40 03	W

Bottom

Lat:	48 ° 38 92	N
Lon:	126 ° 40 07	W

End

Lat:	48 ° 38 97	N
Lon:	126 ° 40 09	W

Extra comments:
Deep Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID:

2017-01

Station:

P4

Event #: 18

Ship:

Tully

UTC Date (dd mmm yyyy): 7 Feb 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							Comments				
			Target Pressure	Confirmed Pressure	Oxy	Nut-F	Nut-C	Sal	DIC	DOC	DNA	gases	SAGs			
					HB/RB	LH	LH	WB	HR/RW	ALL		IS/WB	SS			
1	1	25	Bot-10	✓ 1315	x	x	x		x	xx	x	xx	x			
2	2	26	1250	✓ 1250	x	x	x	x	xx		x	xx	x			
3	3	27	1250	✓ 1250	xx	x	x	xx	x	xx						
4	4	28	1000	✓ 1000	x	x	x	xx	x	xx	x	xx	x			
5	5	29	800	✓ 800	x	x	x	x	x	xx	x	xx	x			
6	6	30	600	✓ 600	x	xx	xx		x	xx	x	xx	x			
7	7	31	400	✓ 400	x	x	x		x	xx	x	xx	x			
8	8	32	300	✓ 300	x	x			x	xx	x	xx	x			
9	9	33	250	✓ 250	x	x			x	xx						
10	10	34	200	✓ 200	x	x			x	xx	x	xx	x			
11	11	35	175	✓ 175	xx	x			x	xx						
12	12	36	150	✓ 150	x	x			x	xx	x	xx	x			
13	13	37	125	✓ 125	x	xx			x	xx						
14	14	38	100	✓ 100	x	x			x	xx	x	xx	x			
15	15	39	75	✓ 75	x	x			x	xx						
16	16	40	50	✓ 50	x	x			x	xx	x	xx	x			
17	17	41	25	✓ 25	x	x			x	xx	x	xx	x			
18	18	42	10	✓ 10	x	x			x	xx	x		x			
19	19	43	5	✓ 5	xx	x		x	x	xx		xx				
20																
21																
22																
23																
24																

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

Watchkeeper(s): MB

Bottom Depth: 1325 m

Transmisso Cleaned: ☒ Y ☐ N

	UTC	Local
Start	1729	0929
Bottom	1747	
End	1832	

Positional Information

Start

Lat: 48 ° 38 93 N

Lon: 126 ° 39 96 W

Bottom

Lat: 48 ° 39 04 N

Lon: 126 ° 39 92 W

End

Lat: 48 ° 38 04 N

Lon: 126 ° 40 02 W

Extra comments:

Deep cast

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

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P4 Event #: 21 Ship: Tully UTC Date (dd mmm yyyy): 7 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed Pressure	UBC													
1	1	44	Bot-10	✓	1315		x											
2	2	45	Bot-10	✓														
3	3	46	Bot-10	✓														
4	4	47	Bot-10	✓														
5	5	48	1000				x											
6	6	49	1000															
7	7	50	1000															
8	8	51	1000															
9	9	52	500				x											
10	10	53	500															
11	11	54	500															
12	12	55	500															
13	13	56	10				x											
14	14	57	10															
15	15	58	10															
16	16	59	10															
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 1310 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start	Lat: °	N
	Lon: °	W
	▼	
Bottom	Lat: °	N
	Lon: °	W
	▼	
End	Lat: °	N
	Lon: °	W

Extra comments:
Jade's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P4 Event #: 22 Ship: Tully UTC Date (dd mmm yyyy): 7 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	Phyto	UVic		bugs			
1		60	300	✓ 300	x			x									
2		61	250	✓ 250				x				x					
3		62	200	✓ 200	x	x	x	x									
4		63	150	✓ 150	x	x	x	xx				x					
5		64	100	✓ 100	x			x	x								
6		65	75	✓ 74	x			x	x								
7		66	60	✓ 61				x	xx	xx						Fluo	
8		67	50	✓ 50	x			x	xx	xx		x				Fluo	
9		68	40	✓ 40	x			x	xx	xx						Fluo	
10		69	30	✓ 30	x	x	x	x	xx	xx						Fluo	
11		70	25	✓ 24	x			x	x								
12		71	20	✓ 20	xx	xx	xx	x	x			x					
13		72	15	✓ 14	x			x	xx	xx						Fluo	
14		73	10	✓ 10	x			x	x			x					
15		74	5	✓ 5				x	xx	xx	xxx			x		Fluo	
16		75	5	✓ 5	x	x	x					x					
17		76	0		x	x	x	x	x								
18		77	100	✓ 100										x			
19		78	50	✓ 51										x			
20		79	5	✓ 5										x			
21																	
22																	
23																	
24																	

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

Bottom Depth: 1300 m
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2248	1448
Bottom	2256	
End	2321	

Positional Information
 Start
 Lat: 48° 39.07 N
 Lon: 126° 39.91 W

Bottom
 Lat: 48° 39.12 N
 Lon: 126° 39.89 W

End
 Lat: 48° 39.11 N
 Lon: 126° 40.20 W

Extra comments:
 DMS cast - OUT OF ORDER!
 Will also have loops for Chl x2
 1 to 5; 18; 6; 7; 8; 19; 9 to 16; 20;
 17

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01

Station: P4

Event #: 23

Ship: Tully

UTC Date (dd mmm yyyy): 08 FEB 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure		UBC											
1	1	44	Bot-10	✓	1301		x										
2	2	45	Bot-10	✓	1301												
3	3	46	Bot-10	✓	1301												
4	4	47	Bot-10	✓	1306												
5	5	48	1000	✓	1000		x										
6	6	49	1000	✓	1000												
7	7	50	1000	✓	1000												
8	8	51	1000	✓	1000												
9	9	52	500	✓	500		x										
10	10	53	500	✓	500												
11	11	54	500	✓	501												
12	12	55	500	✓	501												
13	13	56	10	✓	10		x										
14	14	57	10	✓	10												
15	15	58	10	✓	10												
16	16	59	10	✓	10												
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 1314 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0005	1605
Bottom	0026	
End	0052	

Positional Information

Start	Lat: 48° 39.02 N	Lon: 126° 40.13 W
Bottom	Lat: 48° 39.03 N	Lon: 126° 40.11 W
End	Lat: 48° 39.04 N	Lon: 126° 40.11 W

Extra comments:
Jade's cast Take 2

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P4 Event #: 25 Ship: Tully UTC Date (dd mmm yyyy): 8 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Cesium												
1	1	80	150	✓ 150	x												
2	2	81	150	✓	x												
3	3	82	150	✓	x												
4	4	83	150	✓	x												
5	5	84	150	✓	x												
6	6	85	150	✓	x												
7	7	86	100	✓ 98	x												
8	8	87	100	✓	x												
9	9	88	100	✓	x												
10	10	89	100	✓	x												
11	11	90	100	✓	x												
12	12	91	100	✓	x												
13	13	92	50	✓ 50	x												
14	14	93	50	✓	x												
15	15	94	50	✓	x												
16	16	95	50	✓	x												
17	17	96	50	✓	x												
18	18	97	50	✓	x												
19	19	98	5	✓ 5	x												
20	20	99	5	✓	x												
21	21	100	5	✓	x												
22	22	101	5	✓	x												
23	23	102	5	✓	x												
24	24	103	5	✓	x												

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

Bottom Depth: 1317 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0142	1742
Bottom	0145	
End	0153	

Positional Information

Lat:	48° 38.93	N
Lon:	126° 40.03	W

▼

Lat:	48° 38.93	N
Lon:	126° 40.02	W

▼

Lat:	48° 38.93	N
Lon:	126° 39.99	W

Extra comments:
Shallow Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P20 Event #: 32 Ship: Tully UTC Date (dd mmm yyyy): 9 FEB 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed ✓ Pressure	OXY	Sal	Nut-F	Nut-C	DIC	DOC				Gases	SAGs	DNA			
					dy		LH	LH	RN/NA					SS/WB					
1	1	107	Bot-10	✓ 4025	x		x	x	x	xx				xx	x	x			
2	2	108	3500	✓ 3500	x	x	x	x	xx	xx									
3	3	109	3500	✓	xx	x	x	x	x										
4	4	110	3000	✓ 3000	x	xx	x	x	x	xx				xx	x	x			
5	5	111	2500	✓ 2501	x	x	x	x	x	xx									
6	6	112	2000	✓ 2003	x	xx	x	x	x	xx				xx	x	x			
7	7	113	1500	✓ 1499	x	x	x	x	x	xx				xx	x	x			
8	8	114	1250	✓ 1251	x	xx	x	x	x	xx				xx	x	x			
9	9	115	1000	✓ 1000	x	x	x	x	x	xx				xx	x	x			
10	10	116	800	✓ 799	x	x	xx	xx	x	xx				xx	x	x			
11	11	117	600	✓ 600	xx	x	x	x	x	xx				xx	x	x			
12	12	118	400	✓ 400	x	x	x	x	x	xx				xx	x	x			
13	13	119	300	✓ 301	x	x	x		x	xx				xx	x	x			
14	14	120	250	✓ 251	x	x	x		x	xx									
15	15	121	200	✓ 202	x	x	x		x	xx				xx	x	x			
16	16	122	175	✓ 175	x	x	x		x	xx									
17	17	123	150	✓ 149	x	x	x		x	xx				xx	x	x			
18	18	124	125	✓ 125	xx	x	x		x	xx									
19	19	125	100	✓ 102	x	x	x		x	xx				xx	x	x			
20	20	126	75	✓ 75	x	x	x		x	xx									
21	21	127	50	✓ 51	x	x	xx		x	xx				xx	x	x			
22	22	128	25	✓ 25	x	x	x		x	xx				xx	x	x			
23	23	129	10	✓ 10	x	x	x		x	xx					x	x			
24	24	130	5	✓ 5	xx	x	x		x	xx				xx					

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

Bottom Depth: 3968 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1949	1149
Bottom	2112	
End	2305	

Positional Information
Start
Lat: 49 ° 34.02 N
Lon: 138 ° 40.11 W

Start

Bottom
Lat: 49 ° 34.01 N
Lon: 138 ° 39.95 W

Bottom

End
Lat: 49 ° 34.05 N
Lon: 138 ° 39.96 W

End

Extra comments:
Deep cast
plus loops for 2x oxy, 1x Sal,
1 x Nut

Water Properties Group

Sampling Log

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

Cruise ID:

2017-01

Station:

P20

Event #: 33

Ship: Tully

UTC Date (dd mmm yyyy): 10 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target	Confirmed	DMS	DMSP	Nut-Fr	Chl	HPLC	UVic	DA					
			Pressure	✓ Pressure												
1		131	300	✓ 300	x			x								
2		132	250	✓ 250				x		x						
3		133	200	✓ 201	x	x		x								
4		134	150	✓ 151	x	x		x		x						
5		135	100	✓ 100	x			x	x							
6		136	75	✓ 74	x			x	x							
7		137	60	✓ 60				x	xx	xx					Fluo	
8		138	50	✓ 50	x			x	xx	xx		x			Fluo	
9		139	40	✓ 40	x			x	xx	xx					Fluo	
10		140	30	✓ 30	x	x		x	xx	xx					Fluo	
11		141	25	✓ 25	x			x	x							
12		142	20	✓ 20	xx	xx		x	x		x					
13		143	15	✓ 15	x			x	xx	xx					Fluo	
14		144	10	✓ 10	x			xx	x		x					
15		145	5	✓ 5	x	x		x	xx	xx		x	x		Fluo	
16		146	0	✓ 3	x	x		x	x							
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 3966 m
Transmisso Cleaned: Y / N

	UTC	Local
Start	0038	1638
Bottom	0046	
End	0108	

Positional Information

Lat:	49 ° 34.04	N
Lon:	138 ° 40.01	W

Bottom

Lat:	49 ° 34.04	N
Lon:	138 ° 39.98	W

End

Lat:	49 ° 34.02	N
Lon:	138 ° 40.00	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: 2017-01 Station: P21 Event #: 36 Ship: Tully UTC Date (dd mmm yyyy): 10 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments
			Target Pressure	Confirmed Pressure			Cs											
1		147	200	✓	200			x										
2		148	200	✓				x										
3		149	200	✓				x										
4		150	200	✓				x										
5		151	200	✓				x										
6		152	200	✓				x										
7		153	150	✓	150			x										
8		154	150	✓				x										
9		155	150	✓				x										
10		156	150	✓				x										
11		157	150	✓				x										
12		158	150	✓				x										
13		159	100	✓	100			x										
14		160	100	✓				x										
15		161	100	✓				x										
16		162	100	✓				x										
17		163	100	✓				x										
18		164	100	✓				x										
19		165	50	✓	50			x										
20		166	50	✓				x										
21		167	50	✓				x										
22		168	50	✓				x										
23		169	50	✓				x										
24		170	50	✓				x										

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

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

Time	UTC	Local
Start	0619	2219
Bottom	0625	
End	0635	

Positional Information 38

Lat:	49 ° 30.01	N
Lon:	139 ° 39.98	W

Start

Lat:	49 ° 38.00	N
Lon:	139 ° 40.01	W

Bottom

Lat:	49 ° 37.96	N
Lon:	139 ° 40.07	W

End

Extra comments:
 Cesium 200m cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P21 Event #: 37 Ship: Tully UTC Date (dd mmm yyyy): 10 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC		Cs					
1	1	171	500	✓ 500						x					
2	2	172	500	✓						x					
3	3	173	500	✓						x					
4	4	174	500	✓						x					
5	5	175	500	✓						x					
6	6	176	500	✓						x					
7	7	177	400	✓ 400						x					
8	8	178	400	✓						x					
9	9	179	400	✓						x					
10	10	180	400	✓						x					
11	11	181	400	✓						x					
12	12	182	400	✓						x					
13	13	183	300	✓ 300						x					
14	14	184	300	✓						x					
15	15	185	300	✓						x					
16	16	186	300	✓						x					
17	17	187	300	✓						x					
18	18	188	300	✓						x					
19	19	189	5	✓ 5						x					
20	20	190	5	✓						x					
21	21	191	5	✓						x					
22	22	192	5	✓						x					
23	23	193	5	✓						x					
24	24	194	5	✓	x	x	xx	xx		x					

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

Bottom Depth: 3960 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0702	2302
Bottom	0747	
End	0843	

Positional Information

Lat:	49 ° 38.00	N
Lon:	139 ° 40.01	W

Start

Bottom

End

Lat: 49 ° 37.99 N
 Lon: 139 ° 40.04 W

Lat: 49 ° 38.01 N
 Lon: 139 ° 40.33 W

Extra comments:
 Cesium + IOS cast

Water Properties Group

Sampling Log

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

Cruise ID:

2017-01

Station:

P22

Event #:

28

Ship:

Tully

UTC Date (dd mmm yyyy):

10 Feb 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC									
1	1	195	600	✓ 600	x												Nut carboy
2	2	196	5	✓ 5	x												Nut carboy
3	3	197	5	✓ 5	x	x	xx	xx									
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

MB

Bottom Depth: 3948 m

Transmisso Cleaned: (Y) / N

	UTC	Local
Start	1407	0607
Bottom	1442	
End	1527	

Positional Information

Start
Lat: 49° 41' 95" N
Lon: 140° 40' 06" WBottom
Lat: 49° 41' 90" N
Lon: 140° 40' 06" WEnd
Lat: 49° 41' 92" N
Lon: 140° 40' 07" W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2017-01

Station:

P23

Event #:

40

Ship:

Tully

UTC Date (dd mmm yyyy): 10 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	DIC						
1		198	2005	✓	2005		x		x x x						
2		199	2005	✓			x		x x x						
3		200	2005	✓			x		x x x						
4		201	2005	✓			x		x x x						
5		202	2005	✓			x		x x x						
6		203	2005	✓			x								
7		204	2005	✓			x								
8		205	2005	✓			x								
9		206	2005	✓			x								
10		207	2005	✓			x								
11		208	2005	✓			x								
12		209	2005	✓			x								
13		210	2005	✓			x								
14		211	2005	✓			x								
15		212	2005	✓			x								
16		213	2005	✓			x								
17		214	2005	✓			x								
18		215	2005	✓			x								
19		216	2005	✓			x								
20		217	2005	✓			x								
21		218	2005	✓			x								
22		219	2005	✓			x								
23		220	2005	✓			x								
24		221	5	✓	5	x	x	x x	x x						

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

Bottom Depth: _____ m
Transmisso Cleaned: Y / N

	UTC	Local
Start	2054	1254
Bottom	2137	
End	2222	

Positional Information

Lat:	49 ° 46.03	N
Lon:	141 ° 39.87	W

Start

Lat:	49 ° 46.03	N
Lon:	141 ° 40.01	W

Bottom

Lat:	49 ° 46.12	N
Lon:	141 ° 40.17	W

End

Extra comments:

Sampling Log

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

Cruise ID: 2017-01 Station: P24 Event #: 42 Ship: Tully UTC Date (dd mmm yyyy): 11 2 2017

[illegible]

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): DY/TV

Bottom Depth: 3985 m

Transmisso Cleaned: (Y) / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start	0336	1936
Bottom	0422	
End	0506	

Positional Information		
Start	Lat: 49 ° 50.27	N
	Lon: 142 ° 39.96	W
▼		
Bottom	Lat: 49 ° 50.24	N
	Lon: 142 ° 39.94	W
▼		
End	Lat: 49 ° 50.19	N
	Lon: 142 ° 40.23	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P25 Event #: 43 Ship: Tully UTC Date (dd mmm yyyy): 11 Feb 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials														Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC											
1	1	223	5	✓		x	x	xx	xx										Leaky bottom
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 4152 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0936	0136
Bottom	1014	
End	1047	

Positional Information

Start	Lat: 50 ° 0 06 N
	Lon: 143 ° 36 28 W
Bottom	Lat: 50 ° 0 01 N
	Lon: 143 ° 36 24 W
End	Lat: 50 ° 0 03 N
	Lon: 143 ° 36 23 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P35 Event #: Ship: Tully UTC Date (dd mmm yyyy):

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments						
			Target	Confirmed	Nut-F	Sal	Chl	HPLC											
			Pressure	✓ Pressure															
1		224	5			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																			

Version: 25 Nov 2011

Transmissometer to be cleaned before each cast, do not use a wet cloth to clean the sensor.

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

Bottom Depth: m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Lat:	°	N
Lon:	°	W

▼

Lat:	°	N
Lon:	°	W

▼

Lat:	°	N
Lon:	°	W

Exti

224
CHI
P35
5 m
201
2017-01
Bot 1

224
CHI
P35
5 m
201
2017-01
Bot 1

224
CHI
P35
5 m
201
2017-01
Bot 1

Water Properties Group

Sampling Log

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

Cruise ID:

2017-01

Station:

P26

Event #:

44

Ship:

Tully

UTC Date (dd mmm yyyy): 12 2 2017

Cruise ID: 2017-01			Station: P26		Event #: 1		Ship: R/V		Date: 1/1/17		Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			Target Pressure	Confirmed Pressure	UBC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
1	1	225	2000	✓ 2000		x																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									</

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): DY/TV

Bottom Depth: 4252 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0614	2214
Bottom	0658	
End	0743	

Positional Information

Lat:	50 ° 0.11	N
Lon:	144 ° 59.91	W

Lat:	50 ° 0.11	N
Lon:	144 ° 59.91	W

Lat:	50 ° 0.11	N
Lon:	144 ° 59.91	W

Extra comments:

Jade's cast

Water Properties Group

Sampling Log

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

Cruise ID:

2017-01

Station:

P26

Event #:

47

Ship:

Tully

UTC Date (dd mmm yyyy):

12 FEB 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Cesium												
1	1	241	150	/	150	x											
2	2	242	150	/		x											
3	3	243	150	/		x											
4	4	244	150	/		x											
5	5	245	150	/		x											
6	6	246	150	/		x											
7	7	247	100	/	100	x											
8	8	248	100	/		x											
9	9	249	100	/		x											
10	10	250	100	/		x											
11	11	251	100	/		x											
12	12	252	100	/		x											
13	13	253	50	/	50	x											
14	14	254	50	/		x											
15	15	255	50	/		x											
16	16	256	50	/		x											
17	17	257	50	/		x											
18	18	258	50	/		x											
19	19	259	5	/	5	x											
20	20	260	5	/		x											
21	21	261	5	/		x											
22	22	262	5	/		x											
23	23	263	5	/		x											
24	24	264	5	/		x											

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

Bottom Depth:	<u>4255</u> m
Transmisso Cleaned:	☒ Y ☐ N

Time	UTC	Local
Start	<u>0933</u>	<u>0147</u>
Bottom	<u>0936</u>	
End	<u>0944</u>	

Positional Information
Start
Lat: <u>50</u> ° <u>0</u> ' <u>11</u> N
Lon: <u>144</u> ° <u>59</u> ' <u>91</u> W

Bottom
Lat: <u>50</u> ° <u>0</u> ' <u>11</u> N
Lon: <u>144</u> ° <u>59</u> ' <u>91</u> W

End
Lat: <u>50</u> ° <u>0</u> ' <u>11</u> N
Lon: <u>144</u> ° <u>59</u> ' <u>91</u> W

Extra comments:

Shallow Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P26 Event #: 48 Ship: Tully UTC Date (dd mmm yyyy): 12 Feb 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments	
			Target Pressure	Confirmed ✓ Pressure	Cesium														
1	1	265	500	/	500		x												
2	2	266	500	/			x												
3	3	267	500	/			x												
4	4	268	500	/			x												
5	5	269	500	/			x												
6	6	270	500	/			x												
7	7	271	400	/	400		x												
8	8	272	400	/			x												
9	9	273	400	/			x												
10	10	274	400	/			x												
11	11	275	400	/			x												
12	12	276	400	/			x												
13	13	277	300	/	300		x												
14	14	278	300	/			x												
15	15	279	300	/			x												
16	16	280	300	/			x												
17	17	281	300	/			x												
18	18	282	300	/			x												
19	19	283	200	/	200		x												
20	20	284	200	/			x												
21	21	285	200	/			x												
22	22	286	200	/			x												
23	23	287	200	/			x												
24	24	288	200	/			x												

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

Bottom Depth: 4255 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1007	0207
Bottom	1018	
End	1032	

Positional Information

Lat:	50 ° 0 06 N
Lon:	144 ° 59 95 W

Start

▼

Lat:	50 ° 0 06 N
Lon:	144 ° 59 96 W

Bottom

▼

Lat:	50 ° 0 06 N
Lon:	144 ° 59 95 W

End

Extra comments:
 Deep Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID:

2017-01

Station:

P26

Event #:

50

Ship:

Tully

UTC Date (dd mmm yyyy): 12 Feb 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Gases	DNA	SAGs	Comments
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	Alk	DOC							
1	1	289	Bot-10	✓ 4317	x		xx	xx	x	x	xx			xx	x	x		
2	2	290	4000	✓ 4001	x	x	xx	xx	x	x	xx			xx	x	x		
3	3	291	3500	✓ 3500	x	xx	xxxx	xxxx	xx	x	xx							
4	4	292	3000	✓ 3000	x	x	xx	xx	x	x	xx			xx	x	x		
5	5	293	2500	✓ 2501	xx	xx	xx	xx	x	x	xx							
6	6	294	2000	✓ 2000	x	x	xx	xx	x	x	xx			xx	x	x		
7	7	295	1500	✓ 1500	x	xx	xx	xx	x	x	xx			xx	x	x		
8	8	296	1250	✓ 1252	x	x	xx	xx	x	x	xx			xx	x	x		
9	9	297	1000	✓ 1002	x	xx	xx	xx	x	x	xx			xx	x	x		
10	10	298	800	✓ 800	x	x	xx	xx	x	x	xx			xx	x	x		
11	11	299	600	✓ 600	x		xx	xx	x	x	xx			xx	x	x		
12	12	300	400	✓ 400	x		xx	xx	x	x	xx			xx	x	x		
13	13	301	300	✓ 300	x		xx		x	x	xx			xx	x	x		
14	14	302	250	✓ 250	xx		xx		x	x	xx							
15	15	303	200	✓ 201	x		xx		x	x	xx			xx	x	x		
16	16	304	175	✓ 175	x		xxxx		x	x	xx							
17	17	305	150	✓ 150	x		xx		x	x	xx			xx	x	x		
18	18	306	125	✓ 125	x		xx		x	x	xx							
19	19	307	100	✓ 100	x		xx		x	x	xx			xx	x	x		
20	20	308	75	✓ 75	xx		xx		x	x	xx							
21	21	309	50	✓ 50	x		xx		x	x	xx			xx	x	x		
22	22	310	25	✓ 25	x		xx		x	x	xx			xx	x	x		
23	23	311	10	✓ 10	x		xx		x	x	xx				x	x		
24	24	312	5	✓ 5	xx		xx		x	x	xx			xx				

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

Bottom Depth:	4255	m
Transmisso Cleaned:	Y	N

	UTC	Local
Start	1209	0409
Bottom	1326	
End	1510	

DP MODE ☺

Positional Information			
Lat:	50 °	0	01 N
Lon:	145 °	0	00 W

Start

Lat:	50 °	0	01 N
Lon:	145 °	0	00 W

Bottom

Lat:	50 °	0	01 N
Lon:	145 °	0	00 W

End

Lat:	50 °	0	01 N
Lon:	145 °	0	00 W

Extra comments:

Deep cast

Will have loop for 2xOXY 1xSal

1 x Nut

Water Properties Group

Sampling Log

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

Cruise ID:

2017-01

Station:

P26

Event #:

51

Ship:

Tully

UTC Date (dd mmm yyyy): 12 Feb 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	DMS	DMSP	Nut-Fr	Chl	HPLC	Phyto	UVic	DA	bugs				
1	1	313	300	✓ 299	x		x										
2	2	314	250	✓ 250			x				x						
3	3	315	200	✓ 202	x	x	x										
4	4	316	150	✓ 150	x	x	x				x						
5	5	317	100	✓ 100	x		x	x									
6	6	318	75	✓ 75	x		x	x									
7	8	319	60	✓ 60			x	xx	xx								Fluo
8	9	320	50	✓ 50	x		x	xx	xx		x						Fluo
9	11	321	40	✓ 40	x		xx	xx	xx								Fluo
10	12	322	30	✓ 30	x	x	x	xx	xx								
11	13	323	25	✓ 25	x		x	x									
12	14	324	20	✓ 20	xx	xx	x	x			x						
13	15	325	15	✓ 15	x		x	xx	xx								Fluo
14	16	326	10	✓ 10	x		x	x			x						
15	17	327	5	✓ 5			x	xx	xx	xxx		x					Fluo
16	18	328	5	✓ 5	x	x					x						
17	20	329	0		x	x	x	x									
18	6	330	100	✓ 100									x				
19	10	331	50	✓ 50									x				
20	19	332	5	✓ 5									x				
21																	
22																	
23																	
24																	

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

Bottom Depth: 4255 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1636	0836
Bottom	1643	
End	1705	

Positional Information

Start	Lat: 50 ° 0 01 N
	Lon: 145 ° 0 02 W

Bottom

	Lat: 50 ° 0 01 N
	Lon: 145 ° 0 01 W

End

	Lat: 50 ° 0 01 N
	Lon: 145 ° 0 02 W

Extra comments:
DMS cast - OUT OF ORDER!
Will also have loops for Chl x2 -
1 to 5; 18; 6; 7; 8; 19; 9 to 16; 20;
17

Water Properties Group

Sampling Log

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

Cruise ID:

2017-01

Station:

P19

Event #:

59

Ship:

Tully

UTC Date (dd mmm yyyy):

15 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments											
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC																
1		333	5	✓	6	x	x	xx	xx															
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
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19																								
20																								
21																								
22																								
23																								
24																								

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): DY / TV

Bottom Depth: ~3925 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0305	1905
Bottom	0249	
End	0428	

Positional Information

Start
Lat: 49° 30.06 N
Lon: 137° 40.04 W

Bottom
Lat: 49° 30.08 N
Lon: 137° 40.14 W

End
Lat: 49° 30.08 N
Lon: 137° 40.13 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2017-01

Station:

P18

Event #:

62

Ship:

Tully

UTC Date (dd mmm yyyy):

15 FEB 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments									
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC														
1	1	334	2005	✓ 2005		x																
2	2	335	1500	✓ 1500		x																
3	3	336	5	✓ 5	x	x	xx	xx														
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						
18																						
19																						
20																						
21																						
22																						
23																						
24																						

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

Bottom Depth: 3835 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0854	0054
Bottom	0929	
End	10 03	

Positional Information

Start	Lat:	49 ° 26 10	N
	Lon:	136 ° 40 10	W

Bottom

	Lat:	49 ° 26 12	N
	Lon:	136 ° 40 14	W

End

	Lat:	49 ° 26 16	N
	Lon:	136 ° 40 15	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P17 Event #: 63 Ship: Tully UTC Date (dd mmm yyyy): 15 FEB 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments											
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC																
1	1	337	5	✓ 5	x	x	xx	xx																
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								
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16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								

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

Watchkeeper(s): MB

Bottom Depth: 3566 m

Transmissio Cleaned: ☒ Y / ☐ N

	UTC	Local
Start	1403	0603
Bottom	1444	
End	1518	

Positional Information

Start Lat: 49 ° 20 98 N

Start Lon: 135 ° 39 95 W

Bottom Lat: 49 ° 20 95 N

Bottom Lon: 135 ° 39 86 W

End Lat: 49 ° 20 95 N

End Lon: 135 ° 39 81 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P16

Event #: 64

Ship: Tully

UTC Date (dd mmm yyyy): 15 FEB 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP		Nut-Fr	Chl	HPLC	DA	UVic				
1	1	338	300	✓ 300	x			x								
2	2	339	250	✓ 250				x				x				
3	3	340	200	✓ 200	x	x		x								
4	4	341	150	✓ 150	x	x		x				x				
5	5	342	100	✓ 101	x			x	x							
6	6	343	75	✓ 75	x			x	x							
7	7	344	60	✓ 60				xx	xx	xx						Fluo
8	8	345	50	✓ 50	x			x	xx	xx		x				Fluo
9	9	346	40	✓ 40	x			x	xx	xx						Fluo
10	10	347	30	✓ 30	x	x		x	xx	xx						Fluo
11	11	348	25	✓ 26	x			x	x							
12	12	349	20	✓ 20	xx	xx		x	x			x				
13	13	350	15	✓ 15	x			x	xx	xx						Fluo
14	14	351	10	✓ 10	x			x	x			x				
15	15	352	5	✓ 5	x	x		x	xx	xx	4x	x				Fluo
16	16	353	0	✓ 2	x	x		x	x		x					no water for DA
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): MS/04

Bottom Depth: 3633 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1923	1123
Bottom	1929	
End	1952	

Positional Information

Lat:	49° 17 00	N
Lon:	134° 40 00	W

Start

Lat:	49° 16 99	N
Lon:	134° 40 01	W

Bottom

Lat:	49° 17.02	N
Lon:	134° 40.14	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: 2017-01 Station: P16 Event #: 68 Ship: Tully UTC Date (dd mmm yyyy): 15 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	OXY	Sal	Nut-F	Nut-C	DIC	DOC				Gases	SAGs	DNA		
1		354	Bot-10	✓ 3684	x		x	x	x	xx				xx	x	x		
2		355	3500	✓ 3501	x	xx	xx	xx	xx	xx								
3		356	3500	✓	xx	x	x	x	x	xx								
4		357	3000	✓ 3000	x	xx	x	x	x	xx				xx	x	x		
5		358	2500	✓ 2500	x	x	x	x	x	xx								
6		359	2000	✓ 2000	x	xx	x	x	x	xx				xx	x	x		
7		360	1500	✓ 1503	x	x	x	x	x	xx				xx	x	x		
8		361	1250	✓ 1251	x	xx	x	x	x	xx				xx	x	x		
9		362	1000	✓ 1001	x	xx	x	x	x	xx				xx	x	x		
10		363	800	✓ 800	xx		x	x	x	xx				xx	x	x		
11		364	600	✓ 601	x		x	x	x	xx				xx	x	x		
12		365	400	✓ 400	x		x	x	x	xx				xx	x	x		
13		366	300	✓ 300	x		x		x	xx				xx	x	x		
14		367	250	✓ 251	x		x		x	xx								
15		368	200	✓ 200	x		x		x	xx				xx	x	x		
16		369	175	✓ 175	xx		x		x	xx								
17		370	150	✓ 150	x		x		x	xx				xx	x	x		
18		371	125	✓ 125	x		x		x	xx								
19		372	100	✓ 100	x		x		x	xx				xx	x	x		
20		373	75	✓ 75	x		x		x	xx								
21		374	50	✓ 51	x		x		x	xx				xx	x	x		
22		375	25	✓ 25	x		xx		x	xx				xx	x	x		
23		376	10	✓ 10	x		x		x	xx					x	x		
24		377	5	✓ 5	xx	x	x		x	xx				xx				

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

Bottom Depth: 3640 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2302	1502
Bottom	0030	
End	0209	

Positional Information

Lat:	49° 16.99	N
Lon:	134° 40.04	W

Start

Bottom

End

Lat: 49° 16.99 N
 Lon: 134° 40.09 W

Lat: 49° 17.07 N
 Lon: 134° 40.12 W

Extra comments:
 Deep cast
 Will also have loops for Sal x1,
 Oxy x2, Nut x1

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P16 Event #: 69 Ship: Tully UTC Date (dd mmm yyyy): 16 2 2017

			Rosette Operation		Samples Taken / Sampler's Initials												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Cesium												
1	1	378	500	✓	500	x											
2	2	379	500	✓		x											
3	3	380	500	✓		x											
4	4	381	500	✓		x											
5	5	382	500	✓		x											
6	6	383	500	✓		x											
7	7	384	400	✓	400	x											
8	8	385	400	✓		x											
9	9	386	400	✓		x											
10	10	387	400	✓		x											
11	11	388	400	✓		x											
12	12	389	400	✓		x											
13	13	390	300	✓	300	x											
14	14	391	300	✓		x											
15	15	392	300	✓		x											
16	16	393	300	✓		x											
17	17	394	300	✓		x											
18	18	395	300	✓		x											
19	19	396	200	✓	200	x											
20	20	397	200	✓		x											
21	21	398	200	✓		x											
22	22	399	200	✓		x											
23	23	400	200	✓		x											
24	24	401	200	✓		x											

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

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

Time	UTC	Local
Start	0311	1911
Bottom	0323	
End	0339	

Positional Information

Lat:	49 ° 16.99	N
Lon:	134 ° 39.93	W

Bottom

Lat:	49 ° 17.00	N
Lon:	134 ° 39.90	W

End

Lat:	49 ° 17.03	N
Lon:	134 ° 40.08	W

Extra comments:
Deep Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01

Station: P16

Event #: 70

Ship: Tully

UTC Date (dd mmm yyyy): 16 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Cesium												
1	1	402	150	✓ 150	x												
2	2	403	150	✓	x												
3	3	404	150	✓	x												
4	4	405	150	✓	x												
5	5	406	150	✓	x												
6	6	407	150	✓	x												
7	7	408	100	✓ 100	x												
8	8	409	100	✓	x												
9	9	410	100	✓	x												
10	10	411	100	✓	x												
11	11	412	100	✓	x												
12	12	413	100	✓	x												
13	13	414	50	✓ 50	x												
14	14	415	50	✓	x												
15	15	416	50	✓	x												
16	16	417	50	✓	x												
17	17	418	50	✓	x												
18	18	419	50	✓	x												
19	19	420	5	✓ 5	x												
20	20	421	5	✓	x												
21	21	422	5	✓	x												
22	22	423	5	✓	x												
23	23	424	5	✓	x												
24	24	425	5	✓	x												

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

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

Time	UTC	Local
Start	0403	2003
Bottom	0408	
End	0416	

Positional Information

Lat:	49 ° 17.01	N
Lon:	134 ° 39.96	W

Start

▼

Lat:	49 ° 17.00	N
Lon:	134 ° 39.98	W

Bottom

▼

Lat:	49 ° 16.99	N
Lon:	134 ° 40.07	W

End

Extra comments:
Shallow Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P15 Event #: 72 Ship: Tully UTC Date (dd mmm yyyy): 16 FEB 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC										
1	1	426	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): MS

Bottom Depth: 3460 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0832	0032
Bottom	0913	
End	0954	

Positional Information

Lat:	49 ° 12 04 N
Lon:	133 ° 39 98 W

▼

Lat:	49 ° 12 05 N
Lon:	133 ° 39 92 W

▼

Lat:	49 ° 12 05 N
Lon:	133 ° 39 94 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P14 Event #: 73 Ship: Tully UTC Date (dd mmm yyyy): 16 FEB 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC									
1	1	427	5	✓ 5	x	x	xx	xx									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

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

Time	UTC	Local
Start	1357	0557
Bottom	1432	
End	1510	

Positional Information
Start
Lat: 49° 7' 30" N
Lon: 132° 40' 03" W
▼
Bottom
Lat: 49° 07' 28" N
Lon: 132° 40' 09" W
▼
End
Lat: 49° 7' 27" N
Lon: 132° 40' 07" W

Extra comments:

Sampling Log

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

Cruise ID: 2017-01 Station: P13 Event #: 741 Ship: Tully UTC Date (dd mmm yyyy): 16 FEB 2017

[illegible]

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 3014 m

Transmisso Cleaned: (Y) / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start	1920	1120
Bottom	1955	
End	2035	

Positional Information

Lat:	49	°	2	49
Lon:	131	°	39	97

Bottom	Lat: 49° 2.49
	Lon: 131° 39.96

End	Lat: 49 ° 2.49
	Lon: 131 ° 39.96

Extra comments:

- extra (space) riskin
tripped

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01

Station: P12

Event #: 75

Ship: Tully

UTC Date (dd mmm yyyy): 17 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	DMS	DMSP	Nut-Fr	Chl	HPLC	DA	UVic				
1	1	429	300	✓ 300	x			x							
2	2	430	250	✓ 250				x			x				
3	3	431	200	✓ 200	x	x		x							
4	4	432	150	✓ 150	x	x		x			x				
5	5	433	100	✓ 100	x			x	x						
6	6	434	75	✓ 75	x			x	x						
7	7	435	60	✓ 60				x	xx	xx					Fluo
8	8	436	50	✓ 50	x			x	xx	xx		x			Fluo
9	9	437	40	✓ 40	x			x	xx	xx					Fluo
10	10	438	30	✓ 30	x	x		x	xx	xx					Fluo
11	11	439	25	✓ 25	x			x	x						
12	12	440	20	✓ 20	xx	xx		x	x		x				
13	13	441	15	✓ 15	x			x	xx	xx					Fluo
14	14	442	10	✓ 10	x			xx	x		x				
15	15	443	5	✓ 5	x	x		x	xx	xx	x	x			Fluo
16	16	444	0	✓ 0	x	x		x	x						
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth:	3235 m
Transmisso Cleaned:	☒ Y / ☐ N

Time	UTC	Local
Start	0043	1643
Bottom	0051	
End	0114	

Positional Information	
Lat: 48° 58.19	N
Lon: 130° 40.00	W

Start

Lat: 48° 58.19	N
Lon: 130° 40.00	W

Bottom

Lat: 48° 58.19	N
Lon: 130° 40.00	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: 2017-01 Station: P12 Event #: 77 Ship: Tully UTC Date (dd mmm yyyy): 17 FEB 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	OXY	Sal	Nut-F	Nut-C	DIC	DOC			SAGs UBC	DNA UBC	Gases UBC			
1	1	445	Bot-10	✓ 3273	x		x	x	x	xx			x	x	xx			
2	2	446	3000	✓ 3000	x	xx	x	x	xx	xx								
3	3	447	3000	✓	x	x	x	x	x	xx			x	x	xx			
4	4	448	2500	✓ 2499	xx	xx	xx	xx	x	xx								
5	5	449	2000	✓ 2001	x	x	x	x	x	xx			x	x	xx			
6	6	450	1500	✓ 1500	x	xx	x	x	x	xx			x	x	xx			
7	7	451	1250	✓ 1249	x	x	x	x	x	xx			x	x	xx			
8	8	452	1000	✓ 1000	x	xx	x	x	x	xx			x	x	xx			
9	9	453	800	✓ 800	x		x	x	x	xx			x	x	xx			
10	10	454	600	✓ 601	xx		x	x	x	xx			x	x	xx			
11	11	455	400	✓ 400	x		x	x	x	xx			x	x	xx			
12	12	456	300	✓ 300	x		x		x	xx			x	x	xx			
13	13	457	250	✓ 250	x		x		x	xx								
14	14	458	200	✓ 200	x		x		x	xx			x	x	xx			
15	15	459	175	✓ 176	x		x		x	xx								
16	16	460	150	✓ 149	x		x		x	xx			x	x	xx			
17	17	461	125	✓ 124	xx		x		x	xx								
18	18	462	100	✓ 100	x		x		x	xx			x	x	xx			
19	19	463	75	✓ 75	x		xx		x	xx								
20	20	464	50	✓ 50	x		x		x	xx			x	x	xx			
21	21	465	25	✓ 25	x		x		x	xx			x	x	xx			
22	22	466	10	✓ 10	x		x		x	xx			x	x				
23	23	467	5	✓ 5	xx	x	x		x	xx					xx			
24																		

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): MK/07

Bottom Depth:	3236 m
Transmisso Cleaned:	☒ Y / ☐ N

Time	UTC	Local
Start	0205	1805
Bottom	0317	
End	0449	

Positional Information
Lat: 48 ° 58.20 N
Lon: 130 ° 40.01 W

Start

Bottom

End

Lat: 48 ° 58.20 N
Lon: 130 ° 40.00 W

Lat: 48 ° 58.20 N
Lon: 130 ° 40.00 W

Extra comments:
Deep cast
Will also have loops for Sal x1,
Nut x1, Oxy x2

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P12 Event #: 81 Ship: Tully UTC Date (dd mmm yyyy): 17 FEB 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments		
			Target	Confirmed	UBC														
			Pressure	✓ Pressure															
1	1	468	2000	✓	2000		x												
2	2	469	2000	✓	↓														
3	3	470	2000	✓	↓														
4	4	471	2000	✓	↓														
5	5	472	1000	✓	1000		x												
6	6	473	1000	✓	↓														
7	7	474	1000	✓	↓														
8	8	475	1000	✓	↓														
9	9	476	500	✓	501		x												
10	10	477	500	✓	↓														
11	11	478	500	✓	↓														
12	12	479	500	✓	↓														
13	13	480	10	✓	10		x												
14	14	481	10	✓	↓														
15	15	482	10	✓	↓														
16	16	483	10	✓	↓														
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 3234 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0821	0021
Bottom	0855	
End	0931	

Positional Information

Start	Lat: 48 ° 58 17 N
	Lon: 130 ° 39 93 W
Bottom	Lat: 48 ° 58 17 N
	Lon: 130 ° 39 92 W
End	Lat: 48 ° 58 17 N
	Lon: 130 ° 39 93 W

Extra comments:
Jade's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P11 Event #: 82 Ship: Tully UTC Date (dd mmm yyyy): 17 Feb 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC								
1	1	484	5	✓ 5	x	x	xx	xx								
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Watchkeeper(s): MB

Bottom Depth: 2756 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	11 37	08 37
Bottom	12 20	
End	13 01	

Positional Information

Start	Lat: 48 ° 56 06 N
	Lon: 130 ° 10 06 W
Bottom	Lat: 48 ° 56 04 N
	Lon: 130 ° 10 11 W
End	Lat: 48 ° 56 04 N
	Lon: 130 ° 10 22 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P10 Event #: 83 Ship: Tully UTC Date (dd mmm yyyy): 17 Feb 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure			Cs								
1	1	485	200	/ 200			x								
2	2	486	200	/			x								
3	3	487	200	/			x								
4	4	488	200	/			x								
5	5	489	200	/			x								
6	6	490	200	/			x								
7	7	491	150	/ 150			x								
8	8	492	150	/			x								
9	9	493	150	/			x								
10	10	494	150	/			x								
11	11	495	150	/			x								
12	12	496	150	/			x								
13	13	497	100	/ 100			x								
14	14	498	100	/			x								
15	15	499	100	/			x								
16	16	500	100	/			x								
17	17	501	100	/			x								
18	18	502	100	/			x								
19	19	503	50	/ 50			x								
20	20	504	50	/			x								
21	21	505	50	/			x								
22	22	506	50	/			x								
23	23	507	50	/			x								
24	24	508	50	/			x								

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

Bottom Depth: 2639 m
Transmissio Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1508	0708
Bottom	1511	
End	1519	

Positional Information

Lat:	48 ° 53 58	N
Lon:	129 ° 40 02	W

Start

Bottom

End

Lat: 48 ° 53 59 N
Lon: 129 ° 40 07 W

Lat: 48 ° 53 59 N
Lon: 129 ° 40 09 W

Extra comments:
Cesium 200m cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01

Station: P10

Event #: 84

Ship: Tully

UTC Date (dd mmm yyyy): 17 Feb 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC		Cs					
1	1	509	500	✓ 500						x					
2	2	510	500	✓						x					
3	3	511	500	✓						x					
4	4	512	500	✓						x					
5	5	513	500	✓						x					
6	6	514	500	✓						x					
7	7	515	400	✓ 400						x					
8	8	516	400	✓						x					
9	9	517	400	✓						x					
10	10	518	400	✓						x					
11	11	519	400	✓						x					
12	12	520	400	✓						x					
13	13	521	300	✓ 300						x					
14	14	522	300	✓						x					
15	15	523	300	✓						x					
16	16	524	300	✓						x					
17	17	525	300	✓						x					
18	18	526	300	✓						x					
19	19	527	5	✓ 5						x					
20	20	528	5	✓						x					
21	21	529	5	✓						x					
22	22	530	5	✓						x					
23	23	531	5	✓						x					
24	24	532	5	✓		x	x	xx	xx	x					

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

Bottom Depth: 2640 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1537	0837
Bottom	1612	
End	1653	

Positional Information

Start	Lat: 48 ° 53 64 N
	Lon: 129 ° 40 06 W

Bottom

Lat: 48 ° 53 61 N
Lon: 129 ° 40 10 W

End

Lat: 48 ° 53 60 N
Lon: 129 ° 40 20 W

Extra comments:
 Cesium + IOS cast

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P9 Event #: 85 Ship: Tully UTC Date (dd mmm yyyy): 17 FEB 2017

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials												Comments	
			Target	Confirmed		Nut-F	Sal	Chl	HPLC										
			Pressure	✓	Pressure														
1	1	533	5	✓	5	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): MB

Bottom Depth: 2350 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1858	1058
Bottom	1938	
End	2021	

Positional Information
Start
Lat: 48 ° 51 39 N
Lon: 129 ° 10 01 W

Bottom
Lat: 48 ° 51 36 N
Lon: 129 ° 10 09 W

End
Lat: 48 ° 51 39 N
Lon: 129 ° 10 08 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2017-01

Station:

P8

Event #:

90

Ship:

Tully

UTC Date (dd mmm yyyy):

18 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut Fr	Nut C	Chl	HPLC	DOC	DA	UBC gases	UVic				
1	1	534	2000	✓ 2000	x	xx	x	x			xx		xx					
2	2	535	1500	✓ 1500	x	x	x	x			xx		xx					
3	3	536	1250	✓ 1250	x	x	xx	xx			xx		xx					
4	4	537	1000	✓ 1001	xx	xx	x	x			xx		xx					
5	5	538	800	✓ 801	x	x	x	x			xx		xx					
6	6	539	600	✓ 600	x		x	x			xx		xx					
7	7	540	400	✓ 400	x		x	x			xx		xx					
8	8	541	300	✓ 301	xx		x				xx		xx					
9	9	542	250	✓ 250	x		x				xx			x				
10	10	543	200	✓ 200	x		x				xx		xx					
11	11	544	175	✓ 175	x		x				xx							
12	12	545	150	✓ 150	x		x				xx		xx	x				
13	13	546	100	✓ 101	xx		x		x		xx		xx					
14	14	547	75	✓ 75	x		x		x		xx							
15	15	548	60	✓ 61	x		xx		xx	xx	xx							
16	16	549	50	✓ 51	x		x		xx	xx	xx		xx	x				
17	17	550	40	✓ 41	x		x		xx	xx	xx							
18	18	551	30	✓ 30	x		x		xx	xx	xx							
19	19	552	25	✓ 25	x		x		x		xx		xx					
20	20	553	20	✓ 20	x		x		x		xx			x				
21	21	554	15	✓ 14	x		x		xx	xx	xx							
22	22	555	10	✓ 9	x		x		x		xx			x				
23	23	556	5	✓ 5	xx	x	x				xx		xx					
24	24	557	5	✓ 5			x		xx	xx		x		x				

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

DY/TV

Bottom Depth: 2517 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0111	1711
Bottom	0150	
End	0254	

Positional Information

Lat:	48° 49.03	N
Lon:	128° 40.20	W

Start

Lat:	48° 49.10	N
Lon:	128° 40.20	W

Bottom

Lat:	48° 49.02	N
Lon:	128° 40.29	W

End

Extra comments:

Will also have loops for Sal x1,
Nut x1, Chl x2, Oxy x2.

Water Properties Group

Sampling Log

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

Cruise ID:

2017-01

Station:

P7

Event #:

92

Ship:

Tully

UTC Date (dd mmm yyyy):

18 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC									
1	1	558	5	✓ 5	x	x	xx	xx									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 2502m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0509	2109
Bottom	0549	
End	0630	

Positional Information

Lat:	48 ° 46.68	N
Lon:	128 ° 9.91	W

Start

▼

Lat:	48 ° 46.67	N
Lon:	128 ° 9.90	W

Bottom

▼

Lat:	48 ° 46.66	N
Lon:	128 ° 9.95	W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P6 Event #: 93 Ship: Tully UTC Date (dd mmm yyyy): 18 Feb 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC									
1	1	559	5	✓ 5	x	x	xx	xx									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 2541 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0825	0025
Bottom	0908	
End	0949	

Positional Information
Start
Lat: 48 ° 41 64 N
Lon: 127 ° 39 96 W

Bottom
Lat: 48 ° 44 06 N
Lon: 127 ° 39 95 W

End
Lat: 48 ° 44 64 N
Lon: 127 ° 39 96 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P5 Event #: 95 Ship: Tully UTC Date (dd mmm yyyy): 18 Feb 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	
1	1	560	5	✓ 5	x	x	xx	xx	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

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

Bottom Depth:	2086	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	1142	0342
Bottom	1215	
End	1247	

Positional Information
Start
Lat: 48 ° 41 48 N
Lon: 127 ° 10 04 W

Bottom
Lat: 48 ° 41 52 N
Lon: 127 ° 9 93 W

End
Lat: 48 ° 41 46 N
Lon: 127 ° 9 08 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01

Station: P4

Event #: 99

Ship: Tully

UTC Date (dd mmm yyyy): 18 FEB 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut-F	Nut-C	Sal	CHL	HPLC	gases	DMJ						
1	1	561	Bot-10	✓ 1312	x	x	x				x x							
2	2	562	1250	✓ 1250	x	x	x	x x			x x							
3	3	563	1000	✓ 1000	x x	x	x	x			x x							
4	4	564	800	✓ 800	x	x	x	x			x x							
5	5	565	600	✓ 600	x	x x	x x				x x							
6	6	566	400	✓ 400	x	x	x				x x							
7	7	567	300	✓ 300	x	x					x x							
8	8	568	200	✓ 200	x	x					x x							
9	9	569	150	✓ 150	x x	x					x x							
10	10	570	100	✓ 100	x	x					x x							
11	11	571	50	✓ 50	x	x			x x		x x	x						
12	12	572	25	✓ 25	x	x			x		x x							
13	13	573	5	✓ 5	x	x			x x	x x	x x							
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 1305 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1854	1054
Bottom	1917	
End	1953	

Positional Information

Lat:	48 ° 39 03	N
Lon:	126 ° 39 91	W

Start

Bottom

Lat:	48 ° 39 03	N
Lon:	126 ° 39 95	W

End

Lat:	48 ° 39 04	N
Lon:	126 ° 40 13	W

Extra comments:

P4 - return;

plus 2 Oxy loops

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: P3 Event #: 100 Ship: Tully UTC Date (dd mmm yyyy): 18 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments											
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC																
1	(	574	5	✓ 6	x	x	xx	xx																
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
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16																								
17																								
18																								
19																								
20																								
21																								
22																								
23																								
24																								

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

Bottom Depth: 808 m
 Transmisso Cleaned: Y / ☒ N

	UTC	Local
Start	2128	1328
Bottom	2147	
End	2206	

Positional Information

Start	Lat: 48 ° 37.49 N
	Lon: 126 ° 20.00 W

Bottom

	Lat: 48 ° 37.61 N
	Lon: 126 ° 20.02 W

End

	Lat: 48 ° 37.66 N
	Lon: 126 ° 20.06 W

Extra comments:
 P3 - return

Water Properties Group

Sampling Log

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

Cruise ID:

2017-01

Station:

P2

Event #:

101

Ship:

Tully

UTC Date (dd mmm yyyy):

18 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	DMS	DMSP		Nut-Fr	Chl	HPLC	UVic	Bugs	DA					
1	1	575	100	✓ 100								x						
2	2	576	100	✓	x	x		x	x		x							
3	3	577	75	✓ 75	x			x	x		x							
4	4	578	50	✓ 50	x			x	x		x							
5	5	579	50	✓ 50								x						
6	6	580	40	✓ 40	x			x	x									
7	7	581	30	✓ 30	x	x		x	xx	xx							Fluo	
8	8	582	25	✓ 25	x			x	xx	xx							Fluo	
9	9	583	20	✓ 20	xx	xx		x	xx	xx	x						Fluo	
10	10	584	15	✓ 15	x			xx	xx	xx							Fluo	
11	11	585	10	✓ 10	x			x	xx	xx	x						Fluo	
12	12	586	5	✓ 5	x	x		x					x					
13	13	587	5	✓					xx	xx	x						Fluo	
14	14	588	5	✓								x						
15	15	589	0	✓ 2	x	x		x	x									
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 117 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2338	1538
Bottom	2342	
End	2357	

Positional Information

Start
Lat: 48° 35.99 N
Lon: 126° 0.01 W

Bottom
Lat: 48° 35.99 N
Lon: 125° 59.99 W

End
Lat: 48° 35.98 N
Lon: 125° 59.90 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: 2017-01 Station: P2 Event #: 105 Ship: Tully UTC Date (dd mmm yyyy): 19 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials														Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
			Target Pressure	Confirmed Pressure	Oxy	Nut-F	Nut-C	Sal	DIC	DOC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): DY/TJ

Bottom Depth: 116 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0054	1654
Bottom	2056	
End	0106	

Positional Information

Lat:	48° 35.97	N
Lon:	125° 59.86	W

Start

Bottom

End

Lat:	48° 35.96	N
Lon:	125° 59.87	W

Lat:	48° 35.93	N
Lon:	125° 59.87	W

Extra comments:
Deep cast
Will also have loops for Oxy x2

Water Properties Group

Sampling Log

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

Cruise ID:

2017-01

Station:

P1

Event #:

106

Ship:

Tully

UTC Date (dd mmm yyyy):

19 2 17

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	DIC	Oxy	DOC						
1	1	598	Bot-10	✓	101	x				x x	x	x x					
2	2	599	30	✓	30	x				x	x	x x					
3	3	600	5	✓	5		x			x	x x	x x					
4	4	601	5	✓	5	x		x x	x x								
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
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17																	
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19																	
20																	
21																	
22																	
23																	
24																	

Version: 25 Nov 2011

Transmissometer to be cleaned before use

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

Bottom Depth: 113 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0313	1913
Bottom	0316	
End	0322	

Positional Information

Lat:	48° 34.56	N
Lon:	125° 30.01	W

Start

Bottom

End

Lat: 48° 34.57 N
Lon: 125° 30.01 W

Lat: 48° 34.58 N
Lon: 125° 30.00 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2017-01 Station: 102 Event #: 109 Ship: Tully UTC Date (dd mmm yyyy): 19 2 2017

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Sal	Nut-F	Chl	HPLC						
1	1	602	Bot-5	✓ 252	x		x								
2	2	603	200	✓ 201	x		x								
3	3	604	175	✓ 176	x		xx								
4	4	605	150	✓ 151	xx		x								
5	5	606	125	✓ 125	x		x								
6	6	607	100	✓ 99	x		x								
7	7	608	75	✓ 75	x		x								
8	8	609	50	✓ 50	x		x								
9	9	610	40	✓ 40	x		x								
10	10	611	30	✓ 30	x		x								
11	11	612	20	✓ 20	x		xx	xx							
12	12	613	10	✓ 10	xx		x	xx							
13	13	614	5	✓ 5	x	x	x								
14	14	615	0	✓ 1	x		x	xx	xx						
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth:	256	m
Transmisso Cleaned:	(Y) / N	

Time	UTC	Local
Start	0709	2309
Bottom	0715	
End	0739	

Positional Information		
Start	Lat: 48 ° 30.00	N
	Lon: 124 ° 44.14	W

Start

Bottom	Lat: 48 ° 30.00	N
	Lon: 124 ° 44.09	W

Bottom

End	Lat: 48 ° 29.92	N
	Lon: 124 ° 44.14	W

End

Extra comments:
