

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: Haro 59

Event #: 2

Ship: Tully

UTC Date (dd mmm yyyy): 09 Feb 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments							
			Target Pressure	Confirmed Pressure	DIC	Oxy	Nut-fr	Sal												
1	1	1	Bot-10	✓ 225	x	x	x													
2	2	2	200	✓ 201	xx	x	x													
3	3	3	175	✓	x	x	x													
4	4	4	150	✓	x	x	x													
5	5	5	125	✓	x	xx	x													
6	6	6	100	✓ 101	x	x	x													
7	7	7	80	✓	xx	x	xx													
8	8	8	60	✓	x	x	x													
9	9	9	50	✓	x	x	x													
10	10	10	40	✓	x	x	x													
11	11	11	30	✓	x	x	x													
12	12	12	20	✓	x	x	x													
13	13	13	10	✓	xx	x	x													
14	14	14	5	✓	x	xx	x													
15	15	15	0	✓ 2.8	x	x	x													
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

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

Bottom Depth:	235	m
Transmisso Cleaned:	Y	N

Time	UTC	Local
Start	7:44	23:44
Bottom	7:53	
End	8:10	

Positional Information
Start
Lat: 48 ° 36.91 N
Lon: 123 ° 14.86 W

Bottom
Lat: 48 ° 36.85 N
Lon: 123 ° 14.93 W

End
Lat: 48 ° 37.14 N
Lon: 123 ° 14.90 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: JF2 Event #: 5 Ship: Tully UTC Date (dd/mmm/yyyy): 9 Feb 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed Pressure	DIC	Oxy	Nut-fr	Sal		Chl	HPLC						
					RS/KS	NR	RT			NR	SS						
1	1	16	Bot-10	✓	177	x	x	x									DIC MIGHT HAVE 2 SHOTS Hgcl.
2	2	17	150	✓	150	xx	x	x									
3	3	18	125	✓	125	x	x	x									
4	4	19	100	✓	101	x	x	x									
5	5	20	80	✓	80	x	xx	x									
6	6	21	60	✓	60	xx	x	x									
7	7	22	50	✓	50	x	x	xx									
8	8	23	40	✓		x	x	x									
9	9	24	30	✓		x	x	x			xx	xx					
10	10	25	20	✓		xx	x	x									
11	11	26	10	✓		x	x	x									
12	12	27	5	✓		x	x	x			xx	xx					
13	13	28	0	✓		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: 183 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1416	0616
Bottom	1419	
End	1434	

Positional Information

Lat: 48 ° 17 94 N

Lon: 123 ° 59 99 W

Lat: 48 ° 17 96 N

Lon: 123 ° 59 94 W

Lat: 48 ° 17 95 N

Lon: 123 ° 59 72 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P1

Event #:

8

Ship:

Tully

UTC Date (dd|mmm|yyyy):

09 | 02 | 2016

Cruise ID: 2016-01			Station: P1		Event #: 0		Camp: 0000												Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC	DIC	Oxy	pH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): DY GC

Bottom Depth:	m
Transmisso Cleaned:	Y / N

Time	UTC	Local
Start	2038	1238
Bottom	2041	
End	2046	

Positional Information		
Start	Lat: 48 ° 34.53 N	Lon: 125 ° 30.09 W
	▼	
Bottom	Lat: 48 ° 34.56 N	Lon: 125 ° 30.11 W
	▼	
End	Lat: 48 ° 34.59 N	Lon: 125 ° 30.14 W

Extra comments:
Will also have loops for Oxy x2
Chl x2 and Sal x1

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P2

Event #:

11

Ship:

Tully

UTC Date (dd/mm/yyyy):

9/2/2016

Cruise ID: 2018-01			Station: 12		Event: 1										Sample: 1				Comments
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials														
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	Phyto	DA		UVic					
				✓			t	d											
1	1	32	100	✓	100	x	x	x	xx	x					x				
2	2	33	75	✓	75	x			x	x					x				
3	3	34	50	✓	50	x			x	x					x				
4	4	35	40	✓	40	x			x	x									
5	5	36	30	✓	30					xx	xx								
6	6	37	30	✓		x			x	x									
7	7	38	25	✓	25	x			x	x									
8	8	39	20	✓	20	xx	xx	xx	x	x					x				
9	9	40	15	✓	15					xx	xx								Slow leak on vent
10	10	41	15	✓		x			x	x									
11	11	42	10	✓	10	x			x	x					x				
12	12	43	5	✓	5					xx	xx	x	x						
13	13	44	5	✓		x	x	x	x	x					x				
14	14	45	0			x	x	x	x	x									
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

DY/GC

Bottom Depth:

113 m

Transmisso Cleaned:

Y / N

Time

UTC

Local

Start

2258

1458

Bottom

2301

End

2314

Positional Information

Start

Lat: 48° 36.00

N

Lon:

126° 0.07

W

Bottom

Lat: 48° 35.99

N

Lon:

126° 0.07

W

End

Lat: 48° 36.00

N

Lon:

126° 0.16

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: 2016-01

Station: P2

Event #: 14

Ship: Tully

UTC Date (dd/mm/yyyy): 9/2/2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							RT					Comments
			Target Pressure	Confirmed Pressure	Oxy	Nut-F	Nut-C	Sal	DIC	pH		UBC					
				✓		DY	DY	DY	RT/MK	GC		gases					
1	1	46	Bot-10	✓	106	x x	x		x	x							
2	2	47	100	✓	100	x	x		x	x							
3	3	48	75	✓	75	x	x		x x	x							
4	4	49	75	✓		x	x		x	x							
5	5	50	50	✓	50	x	x		x	x x x							
6	6	51	25	✓	25	x	x x		x	x							
7	7	52	10	✓	10	x	x		x	x		x x					
8	8	53	5	✓		x	x	x	x	x							
9																	
10																	
11																	
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18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): DY MK JD GC

Bottom Depth: 112 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2351	1551
Bottom	2354	
End	0003	

Positional Information

Lat:	48 ° 36.05	N
Lon:	126 ° 0.02	W

Start

Lat:	48 ° 36.06	N
Lon:	126 ° 0.00	W

Bottom

Lat:	48 ° 36.12	N
Lon:	125 ° 59.97	W

End

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

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P3 Event #: 16 Ship: Tully UTC Date (dd|mmm|yyyy): 10 | 2 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments							
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC												
1		54	30	✓ 29	x		x x	x x												
2		55	5	✓ 6	x	x	x x	x x												
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
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19																				
20																				
21																				
22																				
23																				
24																				

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

Watchkeeper(s): dy

Bottom Depth: 820 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	<u>0140</u>	<u>1740</u>
Bottom	<u>0157</u>	
End	<u>0212</u>	

Positional Information

Start

Lat: 48 ° 37.48 N

Lon: 126 ° 20.10 W

Bottom

Lat: 48 ° 37.52 N

Lon: 126 ° 20.06 W

End

Lat: 48 ° 37.52 N

Lon: 126 ° 20.11 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P4

Event #:

17

Ship:

Tully

UTC Date (dd:mmm:yyyy): 10/2/2016

Cruise ID:			2016-01		Station:		P4		Event #:		P4		Camp:		P4		Comments	
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													
			Target Pressure	Confirmed Pressure	Cesium													
1	1	56	500	✓	500		x											
2	2	57	500	✓			x											
3	3	58	500	✓			x											
4	4	59	500	✓			x											
5	5	60	500	✓			x											
6	6	61	500	✓			x											
7	7	62	400	✓	400		x											
8	8	63	400	✓			x											
9	9	64	400	✓			x											
10	10	65	400	✓			x											
11	11	66	400	✓			x											
12	12	67	400	✓			x											
13	13	68	300	✓	300		x											
14	14	69	300	✓			x											
15	15	70	300	✓			x											
16	16	71	300	✓			x											
17	17	72	300	✓			x											
18	18	73	300	✓			x											
19	19	74	200	✓	201		x											Bottom cap fouled
20	20	75	200	✓			x											
21	21	76	200	✓			x											
22	22	77	200	✓			x											
23	23	78	200	✓			x											
24	24	79	200	✓			x											

http://www.pa

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

Bottom Depth:	<u>1328</u> m
Transmisso Cleaned:	☒ Y / ☐ N

Time	UTC	Local
Start	<u>0403</u>	<u>2003</u>
Bottom	<u>0414</u>	
End	<u>0431</u>	

Positional Information		
Start	Lat: <u>48° 38.95</u>	N
	Lon: <u>126° 40.03</u>	W
▼		
Bottom	Lat: <u>48° 38.95</u>	N
	Lon: <u>126° 40.05</u>	W
▼		
End	Lat: <u>48° 38.95</u>	N
	Lon: <u>126° 40.02</u>	W

Extra comments:
Deep Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01

Station: P4

Event #: 19

Ship: Tully

UTC Date (dd mmm yyyy): 10 2 2016

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				
1	1	99	Bot-10	✓ 1323	x	x	x		x	x		x	xx	x				
2	2	100	1250	✓ 1251	x	x	x	x	xx	x		x	xx	x				
3	3	101	1250	✓	xx	x	x	xx	x	x								
4	4	102	1000	✓ 1000	x	x	x	xx	x	x		x	xx	x				
5	5	103	800	✓ 799	x	x	x	x	x	x		x	xx	x				
6	6	104	600	✓ 600	x	xx	xx		x	x		x	xx	x				
7	7	105	400	✓ 400	x	x	x		x	x		x	xx	x				
8	8	106	300	✓ 300	x	x			x	x		x	xx	x				
9	9	107	250	✓ 250	x	x			x	xxx								
10	10	108	200	✓ 200	x	x			x	x		x	xx	x				
11	11	109	175	✓ 175	x	x			x	x								
12	12	110	150	✓ 150	x	x			x	x		x	xx	x				
13	13	111	125	✓ 125	x	xx			x	x								
14	14	112	100	✓ 100	x	x			x	x		x	xx	x				
15	15	113	75	✓ 75	xx	x			x	x								
16	16	114	50	✓ 50	x	x			x	x		x	xx	x				
17	17	115	25	✓ 26	x	x			x	x		x	xx	x				
18	18	116	10	✓ 10	x	x			x	x		x	xx	x				
19	19	117	5	✓ 5	x	x		x	x	xxx								
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth:	1328	m
Transmisso Cleaned:	Y	N

Time	UTC	Local
Start	0615	0615
Bottom	0639	
End	0723	

Positional Information	
Lat: 48° 38.96	N
Lon: 126° 40.00	W

Start

Bottom

End

Lat: 48° 38.94	N
Lon: 126° 40.06	W

Lat: 48° 38.98	N
Lon: 126° 39.95	W

Extra comments:
Deep cast

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P4

Event #:

18

Ship:

Tully

UTC Date (dd|mmm|yyyy):

10 | 2 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC	Phyto	DA		UVic			
1		80	300	✓ 300	x			x										
2		81	250	✓ 250				x							x			
3		82	200	✓ 200	x	x	x	x										
4		83	175	✓ 177	x	x	x	x										
5		84	150	✓ 150				x							x			
6		85	100	✓ 100	x	x	x	x		x								
7		86	75	✓ 75	x			x		x								
8		87	50	✓ 50	x			x		x					x			
9		88	40	✓ 40	x			x		x								
10		89	30	✓ 30						x x	x x							
11		90	30	✓ 30	x			x										
12		91	25	✓ 24	x			x		x								
13		92	20	✓ 20	x x	x x	x x	x		x					x			
14		93	15	✓ 15						x x	x x							
15		94	15	✓ 15	x			x										
16		95	10	✓ 10	x			x x		x					x			
17		96	5	✓ 5						x x	x x	x x x	x					
18		97	5	✓ 5	x	x	x	x							x			
19		98	0	✓ 2	x	x	x	x		x								
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth:	<u>1328</u> m
Transmisso Cleaned:	☒ Y ☐ N

Time	UTC	Local
Start	<u>0509</u>	<u>2109</u>
Bottom	<u>0517</u>	
End	<u>0537</u>	

Positional Information
Start
Lat: <u>48</u> ° <u>38.87</u> N
Lon: <u>126</u> ° <u>40.03</u> W

Bottom
Lat: <u>48</u> ° <u>38.90</u> N
Lon: <u>126</u> ° <u>39.99</u> W

End
Lat: <u>48</u> ° <u>38.94</u> N
Lon: <u>126</u> ° <u>39.92</u> W

Extra comments:
DMS cast & UVic

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P4 Event #: 22 Ship: Tully UTC Date (dd|mmm|yyyy): 10 Feb 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	UBC										
1	1	118	Bot-10	✓ 1330	x										
2	2	119	Bot-10	✓ ↓											
3	3	120	Bot-10	✓ ↓											
4	4	121	Bot-10	✓ ↓											
5	5	122	1000	✓ 1000	x										
6	6	123	1000	✓ ↓											
7	7	124	1000	✓ ↓											
8	8	125	1000	✓ ↓											
9	9	126	500	✓ 500	x										
10	10	127	500	✓ ↓											
11	11	128	500	✓ ↓											
12	12	129	500	✓ ↓											
13	13	130	10	✓ 10	x										
14	14	131	10	✓ ↓											
15	15	132	10	✓ ↓											
16	16	133	10	✓ ↓											
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth:	1331	m
Transmisso Cleaned:	(Y) / N	

Time	UTC	Local
Start	10 28	02 28
Bottom	10 49	
End	11 16	

Positional Information	
Lat:	48 ° 38 91 N
Lon:	126 ° 40 12 W

Start	
Lat:	48 ° 38 88 N
Lon:	126 ° 40 06 W

Bottom	
Lat:	48 ° 38 92 N
Lon:	126 ° 40 03 W

Extra comments:
Jade's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P4 Event #: 23 Ship: Tully UTC Date (dd|mmm|yyyy): 10 | Feb | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Cesium										
1	1	134	150	✓	150	x									
2	2	135	150	✓		x									
3	3	136	150	✓		x									
4	4	137	150	✓		x									
5	5	138	150	✓		x									
6	6	139	150	✓		x									
7	7	140	100	✓	100	x									
8	8	141	100	✓		x									
9	9	142	100	✓		x									
10	10	143	100	✓		x									
11	11	144	100	✓		x									
12	12	145	100	✓		x									
13	13	146	50	✓	50	x									
14	14	147	50	✓		x									
15	15	148	50	✓		x									
16	16	149	50	✓		x									
17	17	150	50	✓		x									
18	18	151	50	✓		x									
19	19	152	5	✓	6	x									
20	20	153	5	✓		x									
21	21	154	5	✓		x									
22	22	155	5	✓		x									
23	23	156	5	✓		x									
24	24	157	5	✓		x									

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

Watchkeeper(s): MB

Bottom Depth: 1331 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1145	0345
Bottom	1148	
End	1155	

Positional Information

Lat: 48 ° 38 96 N

Lon: 126 ° 40 10 W

Lat: 48 ° 38 97 N

Lon: 126 ° 40 11 W

Lat: 48 ° 38 99 N

Lon: 126 ° 40 08 W

Extra comments:

Shallow Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P5 Event #: 25 Ship: Tully UTC Date (dd mmm yyyy): 10 FEB 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC		NH4						
1	1	158	400	✓						x						
2	2	159	250	✓						x						
3	3	160	30	✓		x		xx	xx							
4	4	161	5	✓		x	x	xx	xx							
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 2101 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1427	0627
Bottom	1502	
End	1538	

Positional Information
 Start
 Lat: 48° 41' 47" N
 Lon: 127° 10' 00" W

Bottom
 Lat: 48° 41' 38" N
 Lon: 127° 10' 04" W

End
 Lat: 48° 41' 32" N
 Lon: 127° 09' 95" W

Extra comments:
 water for ammonia

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P6

Event #:

26

Ship:

Tully

UTC Date (dd mmm yyyy): 10 FEB 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC		Uvic						
1	1	162	30	✓ 30	x		x x	x x								
2	2	163	10	✓ 10						x x						
3	3	164	5	✓ 5	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:	2555	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	1802	10 02
Bottom	1846	
End	1940	

Positional Information		
Start	Lat: 48 ° 44 61 N	
	Lon: 127 ° 40 09 W	
	▼	
Bottom	Lat: 48 ° 44 68 N	
	Lon: 127 ° 40 08 W	
	▼	
End	Lat: 48 ° 44 65 N	
	Lon: 127 ° 39 99 W	

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P7 Event #: 27 Ship: Tully UTC Date (dd mmm yyyy): 10 2 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments									
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC										
1		165	30	☒ 30	x		x x	x x										
2		166	5	☒ 5	x	x	x x	x x										
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 2518 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2217	1417
Bottom	2251	
End	2322	

Positional Information

Lat:	48 ° 46.65	N
Lon:	128 ° 9.99	W

▼

Lat:	48 ° 46.67	N
Lon:	128 ° 10.03	W

▼

Lat:	48 ° 46.70	N
Lon:	128 ° 10.02	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P8

Event #:

28

Ship:

Tully

UTC Date (dd|mm|yyyy):

11|2|2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Oxy	Sal	Nut Fr	Nut C	Chl	HPLC	DA	Phyto	UBC gases	UVic			
1		167	2000	✓ 2000	x x	x x	x	x					x x				
2		168	1500	✓ 1500	x	x	x	x					x x				
3		169	1250	✓ 1250	x	x	x x	x x					x x				
4		170	1000	✓ 1000	x	x x	x	x					x x				
5		171	800	✓ 800	x	x	x	x					x x				
6		172	600	✓ 598	x		x	x					x x				
7		173	400	✓ 400	x		x	x					x x				
8		174	300	✓ 301	x		x						x x				
9		175	250	✓ 250	x x		x							x			
10		176	200	✓ 200	x		x						x x				
11		177	175	✓ 175	x		x										
12		178	150	✓ 150	x		x x						x x	x			
13		179	125	✓ 124	x		x										
14		180	100	✓ 100	x		x		x				x x				
15		181	75	✓ 74	x		x		x								
16		182	50	✓ 50	x		x						x x				
17		183	50	✓ 50	x		x		x x	x x				x			
18		184	25	✓ 27	x x		x		x				x x				
19		185	20	✓ 20	x		x		x x	x x				x			
20		186	10	✓ 10	x		x		x				x x	x			
21		187	5	✓ 5	x	x	x							x			
22		188	5	✓ 5					x x	x x	x	x					
23																	
24																	

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

Bottom Depth:	<u>2531</u> m
Transmisso Cleaned:	☒ Y ☐ N

Time	UTC	Local
Start	<u>0147</u>	<u>1747</u>
Bottom	<u>0223</u>	
End	<u>0324</u>	

Positional Information		
Start	Lat: <u>48</u> ° <u>49.98</u>	N
	Lon: <u>128</u> ° <u>40.01</u>	W

Bottom	Lat: <u>48</u> ° <u>48.95</u>	N
	Lon: <u>128</u> ° <u>40.06</u>	W

End	Lat: <u>48</u> ° <u>48.99</u>	N
	Lon: <u>128</u> ° <u>40.20</u>	W

Extra comments:

Will have loops for 2x Oxy,
2x Chl and 1x Sal.

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

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P9

Event #:

31

Ship:

Tully

UTC Date (dd:mmm:yyyy): 11 FEB 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments									
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC										
1	1	189	50	✓ 50	x		xx	xx										
2	2	190	5	✓ 5	x	x	xx	xx										
3																		
4																		
5																		
6																		
7																		
8																		
9																		
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21																		
22																		
23																		
24																		

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

Bottom Depth: 2335 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0743	2343
Bottom	0822	
End	0854	

Positional Information

Lat:	48 ° 51 41	N
Lon:	129 ° 9 98	W

Bottom

Lat:	48 ° 51 46	N
Lon:	129 ° 10 04	W

End

Lat:	48 ° 51 55	N
Lon:	129 ° 10 00	W

Extra comments:

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

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P10 Event #: 32 Ship: Tully UTC Date (dd mmm yyyy): 11 FEB 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Cesium												
1	1	191	300	300	x												
2	2	192	300		x												
3	3	193	300		x												
4	4	194	300		x												
5	5	195	300		x												
6	6	196	300		x												
7	7	197	200	200	x												
8	8	198	200		x												
9	9	199	200		x												
10	10	200	200		x												
11	11	201	200		x												
12	12	202	200		x												
13	13	203	150	150	x												
14	14	204	150		x												
15	15	205	150		x												
16	16	206	150		x												
17	17	207	150		x												
18	18	208	150		x												
19	19	209	100	100	x												
20	20	210	100		x												
21	21	211	100		x												
22	22	212	100		x												
23	23	213	100		x												
24	24	214	100		x												

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

Bottom Depth: 2656 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	1124	0324
Bottom	1130	
End	1141	

Positional Information
Start
Lat: 48 ° 53 63 N
Lon: 129 ° 39 94 W

Bottom
Lat: 48 ° 53 63 N
Lon: 129 ° 39 98 W

End
Lat: 48 ° 53 67 N
Lon: 129 ° 39 96 W

Extra comments:
Cesium cast

Water Properties Group

Rosette Log

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

Cruise ID: 2016-01 Station: P10 Event #: 33 Ship: TULLY UTC Date (dd mmm yyyy): 11 FEB 2016

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	ML HPLC	CS	UBC GASES				
1	215			50	✓ 50						×					} CS
2	216			↓	✓ ↓						×					
3	217			↓	✓ ↓						×					
4	218			↓	✓ ↓						×					
5	219			↓	✓ ↓						×					
6	220			↓	✓ ↓						×					} IOS
7	221			50	✓ ↓		×		xx	xx						
8	222			10	✓ 10							xx				UBC
9	223			5	✓ 5						×					} CS
10	224			↓	✓ ↓						×					
11	225			↓	✓ ↓						×					
12	226			↓	✓ ↓						×					
13	227			↓	✓ ↓						×					
14	228			↓	✓ ↓						×					} IOS
15	229			5	✓ ↓		×	×	xx	xx						
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): MS

Bottom Depth: 2656 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	12 12	04 12
Bottom	12 53	
End	13 29	

Positional Information

Start Lat: 48 ° 53 69 N
Lon: 129 ° 40 07 W

Bottom Lat: 48 ° 53 82 N
Lon: 129 ° 40 10 W

End Lat: 48 ° 53 98 N
Lon: 129 ° 40 32 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: _____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P11 Event #: 34 Ship: Tully UTC Date (dd/mm/yyyy): 11 Feb 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC								
1	1	230	50	✓ 50	x		xx	xx								
2	2	231	5	✓ 5	x	x	xx	xx								
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: 2766 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	15 55	0755
Bottom	16 32	
End	17 07	

Positional Information

Start Lat: 48 ° 56 04 N
Lon: 130 ° 9 97 W

Bottom Lat: 48 ° 55 87 N
Lon: 130 ° 9 99 W

End Lat: 48 ° 55 82 N
Lon: 130 ° 9 80 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P12

Event #:

35

Ship:

Tully

UTC Date (dd mmm yyyy): 11 FEB 2016

Cruise ID:			2016-01		Station:		P12		Event #:		25		Camp:		2		Comments	
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC	Phyto	DA		UVic			
				✓														
1	1	232	300	✓	300	x			x									
2	2	233	250	✓	250				x							x		
3		234	200	✓	200	x	x	x	x									
4		235	175	✓	175	x	x	x	x									
5		236	150	✓	150				x							x		
6		237	100	✓	100	x	x	x	x		x							
7		238	75	✓	75	x			x		x							
8		239	50	✓	50					xx	xx					x		
9		240	50	✓	50	x			x									
10		241	40	✓	40	x			x		x							
11		242	30	✓	30	x			xx		x							
12		243	25	✓	25	x			x		x							
13		244	20	✓	19	xx	xx	xx	x									
14		245	20	✓	19					xx	xx					x		
15		246	15	✓	15	x			x		x							
16		247	10	✓	10	x			x		x					x		
17		248	5	✓	5					xx	xx	x	x					
18		249	5	✓	5	x	x	x	x							x		
19		250	0	✓	3	x	x	x	x		x							
20																		
21																		
22																		
23																		
24																		

http://www.pa

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

Bottom Depth: 3245 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	19 34	11 35
Bottom	19 40	
End	20 00	

Positional Information

Lat:	48 ° 58 25 N
Lon:	130 ° 40 95 W

Bottom

Lat:	48 ° 58 25 N
Lon:	130 ° 39 96 W

End

Lat:	48 ° 58.36 N
Lon:	130 ° 39.77 W

Extra comments:
DMS cast & UVic

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P12

Event #:

36

Ship:

Tully

UTC Date (dd:mmm:yyyy):

11/2/2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							SAGs			DNA			Gases			Comments
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH		UBC	UBC	UBC	UBC	UBC	UBC				
1		251	Bot-10	✓	3273	x		x	x	x		x	x	xx							
2		252	3000	✓	2999	xx	xx	x	x	xx	x										
3		253	3000	✓	2999	x	x	x	x	x	x		x	x	xx						
4		254	2500	✓	2498	x	xx	x	x	x	xxx										
5		255	2000	✓	2000	x	x	x	x	x	x		x	x	xx						
6		256	1500	✓	1500	x	xx	x	x	x	x		x	x	xx						
7		257	1250	✓	1251	x	x	xx	xx	x	x		x	x	xx						
8		258	1000	✓	1000	x	xx	x	x	x	x		x	x	xx						
9		259	800	✓	800	xx		x	x	x	x		x	x	xx						
10		260	600	✓	600	x		x	x	x	x		x	x	xx						
11		261	400	✓	400	x		x	x	x	x		x	x	xx						
12		262	300	✓	300	x		x		x	x										
13		263	250	✓	250	x		x		x	x										
14		264	200	✓	199	x		x		x	x		x	x	xx						
15		265	175	✓	175	xx		x		x	x										
16		266	150	✓	150	x		x		x	x		x	x	xx						
17		267	125	✓	125	x		x		x	xxx										
18		268	100	✓	100	x		xx		x	x		x	x	xx						
19		269	75	✓	76	x		x		x	x										
20		270	50	✓	50	x		x		x	x		x	x	xx						
21		271	25	✓	25	x		x		x	x										
22		272	10	✓	10	x		x		x	x		x	x	xx						
23		273	5			xx	x	x		x	x										
24																					

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

Bottom Depth: 3245 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	<u>2045</u>	<u>1245</u>
Bottom	<u>2159</u>	
End	<u>2217</u>	

Positional Information

Lat:	<u>48° 58.25</u>	<u>N</u>
Lon:	<u>130° 40.07</u>	<u>W</u>

Start

Lat:	<u>48° 58.28</u>	<u>N</u>
Lon:	<u>130° 40.01</u>	<u>W</u>

Bottom

Lat:	<u>48° 58.30</u>	<u>N</u>
Lon:	<u>130° 40.00</u>	<u>W</u>

End

Extra comments:
Deep cast

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P12

Event #:

37

Ship:

Tully

UTC Date (dd/mm/yyyy):

12 / 2 / 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments
			Target	Confirmed	UBC													
			Pressure	✓ Pressure														
1	1	274	2000	✓	2001		x											
2	2	275	2000	✓														
3	3	276	2000	✓														
4	4	277	2000	✓														
5	5	278	1000	✓	1000		x											
6	6	279	1000	✓														
7	7	280	1000	✓														
8	8	281	1000	✓														
9	9	282	500	✓			x											
10	10	283	500	✓														
11	11	284	500	✓														
12	12	285	500	✓														
13	13	286	10	✓	5275		*											
14	14	287	10				x											
15	15	288	10															
16	16	289	10															
17	17	289	10															
18																		
19																		
20																		
21																		
22																		
23																		
24																		

1000
via pump
attentally!
-accidental
trip

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

Bottom Depth:	3246	m
Transmisso Cleaned:	1	N

Time	UTC	Local
Start	0045	1645
Bottom	0120	
End	2000	

Positional Information	
Start	
Lat: 48.58.28	N
Lon: 130.39.95	W

Bottom	
Lat: 48.58.29	N
Lon: 130.39.83	W

End	
Lat: 48.58.17	N
Lon: 130.39.10	W

Extra comments:
Jade's cast

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P13

Event #:

39

Ship:

Tully

UTC Date (dd|mmm|yyyy): 12 | FEB | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC								
1	1	290	50	✓ 50	x		xx	xx								
2	2	291	5	✓ 5	x	x	xx	xx								
3																
4																
5																
6																
7																
8																
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24																

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

Bottom Depth: 3010 m
 Transmisso Cleaned: Y / N
 unknown

	UTC	Local
Start	0714	2314
Bottom	0751	
End	0827	

Positional Information

Start	Lat: 49 ° 2 69 N
	Lon: 131 ° 40 03 W

Bottom

	Lat: 49 ° 2 63 N
	Lon: 131 ° 39 99 W

End

	Lat: 49 ° 2 70 N
	Lon: 131 ° 40 03 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P14 Event #: 40 Ship: Tully UTC Date (dd mmm yyyy): 12 FEB 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target	Confirmed	Nut-F	Sal	Chl	HPLC	OXY	UBC									
			Pressure	✓ Pressure															
1		292	50	✓	48	x		x x	x x										
2		293	10	✓	10						x x								
3		294	5	✓		x	x	x x	x x	x x									
4																			
5																			
6																			
7																			
8																			
9																			
10																			
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20																			
21																			
22																			
23																			
24																			

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

Bottom Depth:	3327	m
Transmisso Cleaned:	(Y) 1	N

Time	UTC	Local
Start	1258	0458
Bottom	1333	
End	1415	

Positional Information
Start
Lat: 49° 7 44 N
Lon: 132° 39 94 W

Bottom
Lat: 49° 7 50 N
Lon: 132° 39 90 W

End
Lat: 49° 7 49 N
Lon: 132° 39 74 W

Extra comments:
Will also have loops for 2x Oxy
2x Chl, Sal

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P15 Event #: 42 Ship: Tully UTC Date (dd mmm yyyy): 12 FEB 2016

			Rosette Operation		Samples Taken / Sampler's Initials										Comments		
Niskin #	Firing #	Sample #	Target	Confirmed	Nut-F	Sal	Chl	HPLC									
			Pressure	✓ Pressure													
1		295	50	✓	49	x		x x	x x								
2		296	5	✓	5	x	x	x x	x x								
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 3415 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1911	1111
Bottom	1943	
End	2017	

Positional Information
Start
Lat: 49 ° 11 99 N
Lon: 133 ° 39.96 W

Bottom
Lat: 49 ° 11.99 N
Lon: 133 ° 39.98 W

End
Lat: 49 ° 11.97 N
Lon: 133 ° 40.04 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P16

Event #:

44

Ship:

Tully

UTC Date (dd|mmm|yyyy):

13 | 2 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Cesium												
1	1	297	150	✓ 150	x												
2	2	298	150	✓	x												
3	3	299	150	✓	x												
4	4	300	150	✓	x												
5	5	301	150	✓	x												
6	6	302	150	✓	x												
7	7	303	100	✓ 100	x												
8	8	304	100	✓	x												
9	9	305	100	✓	x												
10	10	306	100	✓	x												
11	11	307	100	✓	x												
12	12	308	100	✓	x												
13	13	309	50	✓ 50	x												
14	14	310	50	✓	x												
15	15	311	50	✓	x												
16	16	312	50	✓	x												
17	17	313	50	✓	x												
18	18	314	50	✓	x												
19	19	315	5	✓ 5	x												
20	20	316	5	✓	x												
21	21	317	5	✓	x												
22	22	318	5	✓	x												
23	23	319	5	✓	x												
24	24	320	5	✓	x												

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

Bottom Depth:
Transmisso Cleaned:

Time	UTC	Local
Start	0059	1659
Bottom	0103	
End	0110	

Positional Information	
Start	Lat: 49 ° 17.06 N
	Lon: 134 ° 39.96 W

Bottom	Lat: 49 ° 17.05 N
	Lon: 134 ° 39.94 W

End	Lat: 49 ° 17.07 N
	Lon: 134 ° 39.97 W

Extra comments:
Shallow Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P16

Event #:

45

Ship:

Tully

UTC Date (dd mmm yyyy): 13 2 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-F	Chl	HPLC	Phyto	DA	UVic			
1	1	321	300	✓ 300	x			x								
2	2	322	250	✓ 250				x					x			
3	3	323	200	✓ 200	x	x	x	x								
4	4	324	175	✓ 175	x	x	x	xx								
5	5	325	150	✓ 150				x					x			
6	6	326	100	✓ 100	x	x	x	x	x							
7	7	327	75	✓ 75	x			x	x							
8	8	328	50	✓ 50					xx	xx			x			
9	9	329	50	✓ 50	x			x								
10	10	330	40	✓ 40	x			x	x							
11	11	331	30	✓ 30	x			x	x							
12	12	332	25	✓ 25	x			x	x							
13	13	333	20	✓ 19	xx	xx	xx	x								
14	14	334	20	✓ 20					xx	xx			x			
15	15	335	15	✓ 15	x			x	x							
16	16	336	10	✓ 9	x			x	x				x			
17	17	337	5	✓ 5					xx	xx	x	x				
18	18	338	5	✓ 5	x	x	x	x					x			
19	19	339	0	✓ 2	x	x	x	x	x							
20																
21																
22																
23																
24																

Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): <i>NY MR</i>

Bottom Depth:	<i>3611</i> m
Transmisso Cleaned:	☒ Y ☐ N

Time	UTC	Local
Start	<i>0137</i>	<i>1737</i>
Bottom	<i>0143</i>	
End	<i>0204</i>	

Positional Information		
Start	Lat: <i>49° 17.14</i>	N
	Lon: <i>134° 39.92</i>	W

Bottom	Lat: <i>49° 17.15</i>	N
	Lon: <i>134° 39.96</i>	W

End	Lat: <i>49° 17.13</i>	N
	Lon: <i>134° 39.88</i>	W

Extra comments:

DMS cast & UVic

+ LOOPS for 2+CH

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P16

Event #:

47

Ship:

Tully

UTC Date (dd mmm yyyy):

13 2 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH				Gases	SAGs	DNA			
1	1	340	Bot-10	✓	3681	x		x	x	x	x			xx	x	x			
2	2	341	3500	✓	3500	x	x	x	x	xx	x								
3	3	342	3500	✓	3501	x	x	x	x	x	xxx								
4	4	343	3000	✓	3000	x	xx	x	x	x	x			xx	x	x			
5	5	344	2500	✓	2500	xx	x	x	x	x	x								
6	6	345	2000	✓	2001	x	xx	x	x	x	x			xx	x	x			
7	7	346	1500	✓	1501	x	x	x	x	x	x			xx	x	x			
8	8	347	1250	✓	1250	x	xx	xx	xx	x	x			xx	x	x			
9	9	348	1000	✓	1001	x	x	x	x	x	x			xx	x	x			
10	10	349	800	✓	800	x		x	x	x	x			xx	x	x			
11	11	350	600	✓	600	x		x	x	x	x			xx	x	x			
12	12	351	400	✓	399	x		x	x	x	x			xx	x	x			
13	13	352	300	✓	300	xx		x		x	x			xx	x	x			
14	14	353	250	✓	250	x		x		x	xxx								
15	15	354	200	✓	200	x		x		x	x			xx	x	x			
16	16	355	175	✓	175	xx		x		x	x								
17	17	356	150	✓	150	x		x		x	x			xx	x	x			
18	18	357	125	✓	125	x		x		x	x								
19	19	358	100	✓	100	x		x		x	x			xx	x	x			
20	20	359	75	✓	75	xx		x		x	x								
21	21	360	50	✓	49	x		xx		x	x			xx	x	x			
22	22	361	25	✓	25	x		x		x	x			xx	x	x			
23	23	362	10	✓	10	x		x		x	x			xx	x	x			
24	24	363	5	✓	5	x	x	x		x	x								

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

Bottom Depth:	3609 m
Transmisso Cleaned:	Y / N

Time	UTC	Local
Start	0321	1921
Bottom	0438	
End	0603	

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

Bottom
Lat: 49 ° 17.05 N
Lon: 134 ° 39.99 W

End
Lat: 49 ° 17.07 N
Lon: 134 ° 39.77 W

Extra comments:
Deep cast
+ Loops for 1x SA,
2x Oxy

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P16 Event #: 49 Ship: Tully UTC Date (dd|mmm|yyyy): 13 Feb 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Cesium												
1	1	364	500	500	x												
2	2	365	500		x												
3	3	366	500		x												
4	4	367	500		x												
5	5	368	500		x												
6	6	369	500		x												
7	7	370	400	400	x												
8	8	371	400		x												
9	9	372	400		x												
10	10	373	400		x												
11	11	374	400		x												
12	12	375	400		x												
13	13	376	300	300	x												
14	14	377	300		x												
15	15	378	300		x												
16	16	379	300		x												
17	17	380	300		x												
18	18	381	300		x												
19	19	382	200	200	x												
20	20	383	200		x												
21	21	384	200		x												
22	22	385	200		x												
23	23	386	200		x												
24	24	387	200		x												

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

Bottom Depth: 3609 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0802	0002
Bottom	0810	
End	0824	

Positional Information
Start
Lat: 49 ° 17 03 N
Lon: 134 ° 39 90 W

Bottom
Lat: 49 ° 17 03 N
Lon: 134 ° 39 85 W

End
Lat: 49 ° 17 02 N
Lon: 134 ° 39 78 W

Extra comments:
Deep Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P17 Event #: 51 Ship: Tully UTC Date (dd/mmm/yyyy): 13 FEB 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC		NH4					
1	1	388	2000	✓ 2000						x					Amanda
2	2	389	2000	✓ ↓		x				x					IOS
3	3	390	50	✓ 50	x		xx	xx							
4	4	391	5	✓ 5	x	x	xx	xx							
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 3606 m
Transmisso Cleaned: ☒ Y ☐ N

	UTC	Local
Start	1333	0533
Bottom	1419	
End	1453	

Positional Information
Start
Lat: 49° 21' 11" N
Lon: 135° 40' 08" W

Bottom
Lat: 49° 21' 53" N
Lon: 135° 40' 21" W

End
Lat: 49° 21' 54" N
Lon: 135° 40' 20" W

Extra comments:
water for ammonia

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P18 Event #: 53 Ship: Tully UTC Date (dd|mmm|yyyy): 13 | 2 | 2016

			Rosette Operation		Samples Taken / Sampler's Initials							Comments						
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	OXY	UBC gases								
1		392	50	✓ 50	x		xx	xx										
2		393	10	✓ 10						xx								
3		394	5	✓ 6	x	x	xx	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): SY

Bottom Depth: 3798 m
 Transmisso Cleaned: 8 / N

Time	UTC	Local
Start	2034	1234
Bottom	2113	
End	2147	

Positional Information
 Start
 Lat: 49° 26.04 N
 Lon: 136° 39.97 W

Bottom
 Lat: 49° 26.00 N
 Lon: 136° 39.10 W

End
 Lat: 49° 25.96 N
 Lon: 136° 39.88 W

Extra comments:
 Will also have loops for 2x Oxy
 2x Chl, Sal

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P19

Event #:

54

Ship:

Tully

UTC Date (dd mmm yyyy):

14 2 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments									
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC														
1		395	50	✓	50	x		xx	xx													
2		396	5	✓	5	x	x	xx	xx													
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): AY

Bottom Depth: 3896 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	<u>0243</u>	<u>1843</u>
Bottom	<u>0321</u>	
End	<u>0357</u>	

Positional Information

Start	Lat: <u>49° 30.02</u>	<u>N</u>
	Lon: <u>137° 40.03</u>	<u>W</u>

Bottom

Lat: <u>49° 30.02</u>	<u>N</u>
Lon: <u>137° 40.08</u>	<u>W</u>

End

Lat: <u>49° 30.02</u>	<u>N</u>
Lon: <u>137° 40.09</u>	<u>W</u>

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P20

Event #:

57

Ship:

Tully

UTC Date (dd mmm yyyy): 14 FEB 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH								
					MB/RN	PT	JS	JS	MA/TV	GC								
1	1	397	Bot-10	✓ 4026	x		x	x	x	x			xx	x	x			
2	2	398	3500	✓ 3500	x	x	x	x	xx	x								
3	3	399	3500	✓ 3500	x	x	x	x	x	x								
4	4	400	3000	✓ 3000	x	xx	x	x	x	x			xx	x	x			
5	5	401	2500	✓ 2500	x	x	x	x	x	xxx								
6	6	402	2000	✓ 2000	x	xx	x	x	x	x			xx	x	x			
7	7	403	1500	✓ 1500	xx	x	x	x	x	x			xx	x	x			
8	8	404	1250	✓ 1250	x	xx	x	x	x	x			xx	x	x			
9	9	405	1000	✓ 1000	x	x	x	x	x	x			xx	x	x			
10	10	406	800	✓ 800	x		xx	xx	x	x			xx	x	x			
11	11	407	600	✓ 600	x		x	x	x	x			xx	x	x			
12	12	408	400	✓ 400	x		x	x	x	x			xx	x	x			
13	13	409	300	✓ 300	xx		x		x	x			xx	x	x			
14	14	410	250	✓ 250	x		x		x	x								
15	15	411	200	✓ 200	x		x		x	x			xx	x	x			
16	16	412	175	✓ 175	xx		x		x	x								
17	17	413	150	✓ 150	x		x		x	x			xx	x	x			
18	18	414	125	✓ 125	x		x		x	xxx								
19	19	415	100	✓ 100	x		x		x	x			xx	x	x			
20	20	416	75	✓ 75	xx		x		x	x								
21	21	417	50	✓ 50	x		xx		x	x			xx	x	x			
22	22	418	25	✓ 25	x		x		x	x			xx	x	x			
23	23	419	10	✓ 10	x		x		x	x			xx	x	x			
24	24	420	5	✓ 5	x	x	x		x	x								Take Loops

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

Bottom Depth:	3933	m
Transmisso Cleaned:	(Y) I	N

Time	UTC	Local
Start	0934	0134
Bottom	1046	
End	1221	

Positional Information
Start
Lat: 49 ° 34 02 N
Lon: 138 ° 39 96 W

Bottom
Lat: 49 ° 34 00 N
Lon: 138 ° 39 77 W

End
Lat: 49 ° 33 91 N
Lon: 138 ° 39 44 W

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

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P21 Event #: 59 Ship: Tully UTC Date (dd mmm yyyy): 14 2 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure			Cesium								
1		421	200	✓	199										
2		422	200	✓											
3		423	200	✓											
4		424	200	✓											
5		425	200	✓											
6		426	200	✓											
7		427	150	✓	150										
8		428	150	✓											
9		429	150	✓											
10		430	150	✓											
11		431	150	✓											
12		432	150	✓											
13		433	100	✓	99										
14		434	100	✓											
15		435	100	✓											
16		436	100	✓											
17		437	100	✓											
18		438	100	✓											
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 3827 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2024	1224
Bottom	2029	
End	2037	

Positional Information

Lat:	49° 38.04	N
Lon:	139° 39.96	W

▼

Lat:	49° 38.04	N
Lon:	139° 39.96	W

▼

Lat:	49° 38.07	N
Lon:	139° 40.01	W

Extra comments:
Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P21 Event #: 60 Ship: Tully UTC Date (dd mmm yyyy): 14 2 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC		Cesium					
1		439	300	✓ 300						x					
2		440	300	✓						x					
3		441	300	✓						x					
4		442	300	✓						x					
5		443	300	✓						x					
6		444	300	✓						x					
7		445	50	✓ 50						x					
8		446	50	✓						x					
9		447	50	✓						x					
10		448	50	✓						x					
11		449	50	✓						x					
12		450	50	✓						x					
13		451	50	✓		x		x x	x x						
14		452	5	✓ 5		x	x	x x	x x						
15		453	5	✓						x					
16		454	5	✓						x					
17		455	5	✓						x					
18		456	5	✓						x					
19		457	5	✓						x					
20		458	5	✓						x					
21															
22															
23															
24															

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

Bottom Depth: *23925* m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	<i>2104</i>	<i>1304</i>
Bottom	<i>2142</i>	
End	<i>2218</i>	

Positional Information

Lat:	<i>49° 38.06</i>	N
Lon:	<i>139° 39.95</i>	W

Start

Bottom

End

▼

Lat:	<i>49° 38.01</i>	N
Lon:	<i>139° 40.00</i>	W

▼

Lat:	<i>49° 38.01</i>	N
Lon:	<i>139° 40.02</i>	W

Extra comments:
IOS & Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P22

Event #:

61

Ship:

Tully

UTC Date (dd mmm yyyy):

15 2 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	Oxy	gases	Nut-C				
1	1	459	600	✓ 600	x						x				Nutrients carboy
2	2	460	50	✓ 50	x		xx	xx							
3	3	461	10	✓ 10						xx					Nutrients carboy
4	4	462	5	✓ 5	x										
5	5	463	5	✓	x	x	xx	xx	xx						
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth:	3905	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	0316	1916
Bottom	0351	
End	0429	

Positional Information	
Start	Lat: 49 ° 41.99 N
	Lon: 140 ° 40.70 W

Bottom	Lat: 49 ° 42.03 N
	Lon: 140 ° 40.26 W

End	Lat: 49 ° 42.08 N
	Lon: 140 ° 40.48 W

Extra comments:

water for nutrients analysis

Will also have loops for 2x Oxy

1x Sal, 2x Chl

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P23

Event #:

62

Ship:

Tully

UTC Date (dd mmm yyyy):

15 Feb 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments									
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC														
1	1	464	50	✓ 50	x		xx	xx														
2	2	465	5	✓ 60	x	x	xx	xx														
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: 4016 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0851	0051
Bottom	0926	
End	0959	

Positional Information

Lat: 49 ° 46 04 N

Lon: 141 ° 39 96 W

Bottom

Lat: 49 ° 45 99 N

Lon: 141 ° 40 01 W

End

Lat: 49 ° 45 99 N

Lon: 141 ° 40 02 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P24 Event #: 63 Ship: Tully UTC Date (dd mmm yyyy): 15 FEB 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	gases	DIC	pH	OXY						
1	1	466	2000	✓ 2000		x												
2	2	467	2000	✓		x												
3	3	468	2000	✓		x												
4	4	469	2000	✓		x												
5	5	470	2000	✓		x												leaky spigot
6	6	471	2000	✓		x												
7	7	472	2000	✓		x												leaky bottom, bad
8	8	473	2000	✓		x												
9	9	474	2000	✓		x												
10	10	475	2000	✓		x												
11	11	476	2000	✓		x												
12	12	477	2000	✓		x												
(13)	13	478	2000	✓		x												
14	22	479	50	✓ 50	x	x	xx	xx										
15	23	480	10	✓ 10		x			xx									
16	24	481	5	✓ 5	x	x	xx	xx				xx						
17	14	482	2000	✓ 2000		x												
18	15	483	2000	✓		x												
19	16	484	2000	✓		x												
20	17	485	2000	✓		x				xxx	xxx							
21	18	486	2000	✓		x				xxx	xxx							
22	19	487	2000	✓		x				xxx	xxx							leaky on bottom niske
23	20	488	2000	✓		x				xxx	xxx							
24	21	489	2000	✓		x				xxx	xxx							

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

Bottom Depth: 3256 m
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	15 14	07 14
Bottom	15 46	
End	16 30	

Positional Information
 Lat: 49 ° 50 26 N
 Lon: 142 ° 40 22 W

Start

Bottom

End

Lat: 49 ° 50 13 N
 Lon: 142 ° 40 13 W

Lat: 49 ° 49 93 N
 Lon: 142 ° 39 80 W

Extra comments:
OUT-OF-ORDER
 Also has loops for 2x OXY,
 1x SAL, 2x CHL

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P26 Event #: 65 Ship: Tully UTC Date (dd mmm yyyy): 16 Feb 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Cesium												
1	1	490	150	✓ 150	x												
2	2	491	150	↓	x												
3	3	492	150	↓	x												
4	4	493	150	↓	x												
5	5	494	150	↓	x												
6	6	495	150	↓	x												
7	7	496	100	✓ 100	x												
8	8	497	100	↓	x												
9	9	498	100	↓	x												
10	10	499	100	↓	x												
11	11	500	100	↓	x												
12	12	501	100	↓	x												
13	13	502	50	✓ 50	x												
14	14	503	50	↓	x												
15	15	504	50	↓	x												
16	16	505	50	↓	x												
17	17	506	50	↓	x												
18	18	507	50	↓	x												
19	19	508	5	✓ 5	x												
20	20	509	5	↓	x												
21	21	510	5	↓	x												
22	22	511	5	↓	x												
23	23	512	5	↓	x												
24	24	513	5	↓	x												

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

Watchkeeper(s): MB

Bottom Depth: 427 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0822	0022
Bottom	0825	
End	0832	

Positional Information

Start

Lat: 49 ° 59 98 N

Lon: 145 ° 0 01 W

Bottom

Lat: 49 ° 59 99 N

Lon: 145 ° 0 01 W

End

Lat: 49 ° 59 97 N

Lon: 145 ° 0 22 W

Extra comments:

Shallow Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P26 Event #: 66 Ship: Tully UTC Date (dd mmm yyyy): 16 FEB 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	Alk	pH			Gases					
				✓															
1	1	514	Bot-10	✓	4127	x		x x	x	x	x	x			x x	x	x		
2	2	515	4000	✓	4000	x	x	x x	x	x	x	x			x x	x	x		
3	3	516	3500	✓	3500	x	x x	xxxx	x x	x x	x	x							
4	4	517	3000	✓	3000	x	x	x x	x	x	x	x			x x	x	x		
5	5	518	2500	✓	2500	x x	x x	x x	x	x	x	x x x							
6	6	519	2000	✓	2000	x	x	x x	x	x	x	x			x x	x	x		
7	7	520	1500	✓	1500	x	x	x x	x	x	x	x			x x	x	x		
8	8	521	1250	✓	1250	x	x	x x	x	x	x	x			x x	x	x		
9	9	522	1000	✓	1000	x	x	x x	x	x	x	x			x x	x	x		
10	10	523	800	✓	800	x	x	x x	x	x	x	x			x x	x	x		
11	11	524	600	✓	600	x	x	x x	x	x	x	x			x x	x	x		
12	12	525	400	✓	400	x	x	x x	x	x	x	x			x x	x	x		
13	13	526	300	✓	300	x	x	x x		x	x	x			x x	x	x		
14	14	527	250	✓	250	x x	x	x x		x	x	x							
15	15	528	200	✓	200	x	x	x x		x	x	x			x x	x	x		
16	16	529	175	✓	175	x	x	xxxx		x	x	x							
17	17	530	150	✓	150	x	x	x x		x	x	x			x x	x	x		
18	18	531	125	✓	125	x	x	x x		x	x	x							
19	19	532	100	✓	100	x	x	x x		x	x	x			x x	x	x		leak bottom Niskin
20	20	533	75	✓	75	x x	x	x x		x	x	x x x							ALK Bottle Broke penty hose in Niskin
21	21	534	50	✓	50	x	x	x x		x	x	x			x x	x	x		
22	22	535	25	✓	25	x	x	x x		x	x	x			x x	x	x		leaky bottom
23	23	536	10	✓	10	x	x	x x		x	x	x			x x	x	x		
24	24	537	5	✓	5	x x	x	x x		x	x	x							

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

Bottom Depth: 4127 m
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0917	0117
Bottom	1030	
End	1206	

Positional Information

Lat:	49 ° 59 92	N
Lon:	145 ° 0 04	W

Start

Lat:	49 ° 59 96	N
Lon:	144 ° 59 99	W

Bottom

Lat:	50 ° 0 40	N
Lon:	149 ° 59 76	W

End

Extra comments:
 Deep cast
 Will have loop for 2xOXY 1xSal

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P26 Event #: 67 Ship: Tully UTC Date (dd mmm yyyy): 16 FEB 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	UBC										
1	1	538	2000	✓ 2000	x										
2	2	539	2000	✓											
3	3	540	2000	✓											
4	4	541	2000	✓											
5	5	542	1000	✓ 1000	x										
6	6	543	1000	✓											
7	7	544	1000	✓											
8	8	545	1000	✓											
9	9	546	500	✓ 500	x										
10	10	547	500	✓											
11	11	548	500	✓											
12	12	549	500	✓											
13	13	550	10	✓ 10	x										
14	14	551	10	✓											
15	15	552	10	✓											
16	16	553	10	✓											
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth:	4127	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	13 52	05 52
Bottom	14 29	
End	15 06	

Positional Information
Start
Lat: 50 ° 0 01 N
Lon: 144 ° 59 90 W

Bottom
Lat: 50 ° 00.20 N
Lon: 144 ° 59 91 W

End
Lat: 50 ° 0 30 N
Lon: 144 ° 59 99 W

Extra comments:

Jade's cast

Water Properties Group

Sampling Log

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

Cruise ID:

2016-01

Station:

P26

Event #:

68

Ship:

Tully

UTC Date (dd mmm yyyy): 16 FEB 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC	Phyto	DA	UVic	
1	1	554	300	✓ 300	x			x							
2	2	555	250	✓ 250				x						x	
3	3	556	200	✓ 200	x	x	x	x							
4	4	557	175	✓ 175	x	x	x	x						x	
5	5	558	150	✓ 150				x							
6	6	559	100	✓ 100	x	x	x	x		x					
7	7	560	75	✓ 75	x			x		x					
8	8	561	50	✓ 50						x	xx			x	
9	9	562	50	✓ ↓	x			xx							hooky on bottom
10	10	563	40	✓ 40	x			x		x					hooky on bottom
11	11	564	30	✓ 30	x			x		x					
12	12	565	25	✓ 25	x			x		x					
13	13	566	20	✓ 20	xx	xx	xx	x							
14	14	567	20	✓ ↓						x	xx			x	
15	15	568	15	✓ 15	x			x		x					
16	16	569	10	✓ 10	x			x		x				x	
17	17	570	5	✓ 5						xx	xx	xxx	x		
18	18	571	5	✓ ↓	x	x	x	x						x	
19	19	572	0	✓ 3	x	x	x	x		x					
20															
21															
22															
23															
24															

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

Bottom Depth: 4127 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1612	0812
Bottom	1617	
End	1637	

Positional Information

Lat:	49 ° 59 97	N
Lon:	144 ° 59 93	W

Bottom

Lat:	49 ° 59 96	N
Lon:	144 ° 59 91	W

End

Lat:	49 ° 59 89	N
Lon:	144 ° 59 84	W

Extra comments:

DMS cast & UVic

Will have loop for 2x CHL

DUPS CHL NOT SAMPLED

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

570 B	567 B	561 B
CHL	CHL	CHL
P26	P26	P26
5 m	20 m	50 m
2016-01	2016-01	2016-01
Bot 17	Bot 14	Bot 8

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P26 Event #: 69 Ship: Tully UTC Date (dd mmm yyyy): 16 FEB 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Cesium												
1	1	573	500	✓	500	x											
2	2	574	500	✓		x											
3	3	575	500	✓		x											
4	4	576	500	✓		x											
5	5	577	500	✓		x											
6	6	578	500	✓		x											
7	7	579	400	✓	400	x											
8	8	580	400	✓		x											
9	9	581	400	✓		x											
10	10	582	400	✓		x											
11	11	583	400	✓		x											
12	12	584	400	✓		x											
13	13	585	300	✓	300	x											
14	14	586	300	✓		x											
15	15	587	300	✓		x											
16	16	588	300	✓		x											
17	17	589	300	✓		x											
18	18	590	300	✓		x											
19	19	591	200	✓	200	x											
20	20	592	200	✓		x											
21	21	593	200	✓		x											
22	22	594	200	✓		x											
23	23	595	200	✓		x											
24	24	596	200	✓		x											

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

Bottom Depth: 4127 ? m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1720	0920
Bottom	1728	
End	1741	

Positional Information
Start
Lat: 49° 59.87 N
Lon: 144° 59.96 W

Bottom
Lat: 49° 59.85 N
Lon: 145° 00.02 W

End
Lat: 49° 59.79 N
Lon: 145° 00.15 W

Extra comments:
Deep Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P35 Event #: 74 Ship: Tully UTC Date (dd mmm yyyy): 16 2 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC								
1		597	50	☒ 49	x		xx	xx								
2		598	5	☒ 5	x	x	xx	xx								
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): JY

Bottom Depth: 4113 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2219	1319
Bottom	2248	
End	2318	

Positional Information

Start

Lat: 49° 59.42 N

Lon: 144° 18.27 W

Bottom

Lat: 49° 59.91 N

Lon: 144° 18.31 W

End

Lat: 49° 59.92 N

Lon: 144° 18.31 W

Extra comments:

Cruise ID: 2016-01 Station: P25 Event #: 76 Ship: Tully UTC Date (dd mmm yyyy): 17 2 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC									
1		599	50	✓ 50	x		x x	x x									
2		600	5	✓ 5	x	x	x x	x x									
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 4103 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0312	1912
Bottom	0351	
End	0427	

Positional Information

Start	Lat: 50 ° 0.06 N
	Lon: 143 ° 36.39 W
Bottom	Lat: 50 ° 0.15 N
	Lon: 143 ° 36.76 W
End	Lat: 50 ° 0.31 N
	Lon: 143 ° 36.73 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-01 Station: P20 Event #: 83 Ship: Tully UTC Date (dd mmm yyyy): 18 Feb 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC	Phyto	DA					
				✓														
1	1	601	300	✓	300	x			x									
2	2	602	250	✓	250				x							x		
3	3	603	200	✓	200	x	x	x	x									
4	4	604	175	✓	175	x	x	x	x									
5	5	605	150	✓	150				x							x		
6	6	606	100	✓	100	x	x	x	x		x							
7	7	607	75	✓	75	x			x		x							
8	8	608	50	✓	50						x x	x x				x		
9	9	609	50	↓		x			x x									
10	10	610	40	✓	40	x			x		x							
11	11	611	30	✓	30	x			x		x							
12	12	612	25	✓	25	x			x		x							
13	13	613	20	✓	20	x x	x x	x x	x									
14	14	614	20	↓							x x	x x				x		
15	15	615	15	✓	15	x			x		x							
16	16	616	10	✓	10	x			x		x					x		
17	17	617	5	✓	5						x x	x x	x	x				
18	18	618	5	↓		x	x	x	x							x		
19	19	619	0	✓	2	x	x	x	x		x							
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth:	3934	m
Transmisso Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	17 53	09 53
Bottom	18 01	
End	18 21	

Positional Information
Lat: 49 ° 33 97 N
Lon: 138 ° 40 12 W

Start

Bottom

End

Lat: 49 ° 33 96 N
Lon: 138 ° 40 21 W

Lat: 49 ° 33 92 N
Lon: 138 ° 40 18 W

Extra comments:

DMS cast & UVic

plus loops for 2x CHL