

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P22 Event #: 74 Ship: Tully UTC Date (dd mmm yyyy): 12 Jun 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC		UBC gases	Paw-16				
1	1	401	2005	☒		x					x				
2	2	402	10	☒						xx					
3	3	403	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): HM

Bottom Depth: 3894 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1344	0644
Bottom	1418	
End	1449	

Positional Information

Start	Lat: 49° 42.07	N
	Lon: 140° 40.01	W

Bottom

Lat: 49° 42.00	N
Lon: 140° 39.96	W

End

Lat: 49° 42.10	N
Lon: 140° 39.98	W

Extra comments:
Will also have loops for Chl x2
Sal x1, OxyLab x2,
and OxyT x2

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06

Station: P22

Event #: 74

Ship: Tully

UTC Date (dd|mmm|yyyy): 12 | 6 | 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC		UBC gases	Paw-16				
1	1	401	2005	✓		x					x				
2	2	402	10	✓						xx					
3	3	403	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): H.M.

Bottom Depth: 38.5 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	1344	0644
Bottom	13	
End	1444	0744

Positional Information

Lat:	49	7	N
Lon:	140	40	01 W

Start

Lat:	49	42	00	N
Lon:	140	39	96	W

Bottom

Lat:	49	42	10	N
Lon:	140	39	98	W

End

Lat:	49	42	10	N
Lon:	140	39	98	W

Extra comments:
Will also have loops for Chl x2
Sal x1, OxyLab x2, 7
and OxyT x2

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P23 Event #: 75 Ship: Tully UTC Date (dd|mmm|yyyy): 12 JUN 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC	UBC gases	pH	DIC	Paw16	Oxy				
1		404	2000	✓	2000		x			x x x	x x x	x					
2		405	2000	✓			x x			x x x	x x x						
3		406	2000	✓			x			x x x	x x x						
4		407	2000	✓			x			x x x	x x x						
5		408	2000	✓			x			x x x	x x x						
6		409	2000	✓			x						x x				
7		410	2000	✓			x						x x				
8		411	2000	✓			x						x x				
9		412	2000	✓			x						x x				
10		413	2000	✓			x						x x				
11		414	2000	✓			x						x x				
12		415	2000	✓			x										
13		416	2000	✓			x										
14		417	2000	✓			x										
15		418	2000	✓			x										
16		419	2000	✓			x										
17		420	2000	✓			x										
18		421	2000	✓			x										
19		422	2000	✓			x										
20		423	2000	✓			x										
21		424	2000	✓			x										
22		425	2000	✓			x										
23		426	10	✓	10							x x					
24		427	5	✓	5	x	x	x x	x x								

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

Bottom Depth: 4052 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2049	1349
Bottom	2127	
End	2208	

Positional Information

Lat:	49° 46 00	N
Lon:	141° 39.97	W

Start

Lat:	49° 46 00	N
Lon:	141° 39.98	W

Bottom

Lat:	49° 46.01	N
Lon:	141° 40 00	W

End

Extra comments:
Calibration cast
Will also have loops for Chl x2
Sal x1

Water Properties Group

Sampling Log

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

Cruise ID:

2016-06

Station:

P23

Event #:

75

Ship:

Tully

UTC Date (dd|mmm|yyyy):

12 | 6 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC	UBC gases	pH	DIC	Paw16	Oxy					
1		404	2000	✓ 2000		x				x x x	x x x	x						
2		405	2000	✓		x x				x x x	x x x							
3		406	2000	✓		x				x x x	x x x							
4		407	2000	✓		x				x x x	x x x							
5		408	2000	✓		x				x x x	x x x							
6		409	2000	✓		x							x x					
7		410	2000	✓		x							x x					
8		411	2000	✓		x							x x					
9		412	2000	✓		x							x x					
10		413	2000	✓		x							x12					
11		414	2000	✓		x							x x					
12		415	2000	✓		x												
13		416	2000	✓		x												
14		417	2000	✓		x												
15		418	2000	✓		x												
16		419	2000	✓		x												
17		420	2000	✓		x												
18		421	2000	✓		x												
19		422	2000	✓		x												
20		423	2000	✓		x												
21		424	2000	✓		x												
22		425	2000	✓		x												
23		426	10	✓ 10					x x									
24		427	5	✓ 5		x	x	x x	x x									

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

Bottom Depth: 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:
Calibration cast
Will also have loops for Chl x2
Sal x1

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P24 Event #: 76 Ship: Tully UTC Date (dd|mmm|yyyy): 13 JUN 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ☒ Pressure		Nut-F	Sal	Chl	HPLC	Oxy	UBC gases		Paw-16					
1	1	428	2005	☒ 2005			x						x					
2	2	429	10	☒ 10							xx							
3	3	430	5	☒ 5		x	x	xx	xx	xx								
4																		
5																		
6																		
7																		
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19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 3986 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0320	2020
Bottom	0357	
End	0432	

Positional Information
Start
Lat: 49° 50.24 N
Lon: 142° 39.97 W

Bottom
Lat: 49° 50.21 N
Lon: 142° 39.96 W

End
Lat: 49° 50.18 N
Lon: 142° 39.99 W

Extra comments:
Will also have loops for Chl x2
Sal x1, OxyLab x2,
and OxyT x2

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P24 Event #: 76 Ship: Tully UTC Date (dd|mmm|yyyy): 13|6|2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC		UBC gases		Paw-16				
1	1	428	2005	✓ 2005		x						x				
2	2	429	10	✓ 10						xx						
3	3	430	5	✓ 5	x	x	xx	xx					xx			
4																
5																
6																
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9																
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22																
23																
24																

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

Bottom Depth: m
 Transmisso Cleaned: Y / N

Time UTC Local
 Start
 Bottom
 End

Positional Information
 Lat: ° N
 Lon: ° W

Lat: ° N
 Lon: ° W

Lat: ° N
 Lon: ° W

Extra comments:
 Will also have loops for Chl x2
 Sal x1, OxyLab x2,
 and OxyT x2

SORRY

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P25 Event #: 79 Ship: Tully UTC Date (dd|mmm|yyyy): 13 JUN 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC		UBC gases	Paw-16				
1	1	431	2005	✓		x					x				
2	2	432	10	✓						xx					
3	3	433	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): HM

Bottom Depth: 4143 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1039	0339
Bottom	1117	
End	1151	

Positional Information
Start
Lat: 49° 59.99 N
Lon: 143° 36.15 W

Bottom
Lat: 49° 59.94 N
Lon: 143° 36.24 W

End
Lat: 49° 59.98 N
Lon: 143° 36.24 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06

Station: P25

Event #: 79

Ship: Tully

UTC Date (dd|mmm|yyyy): 13 | 06 | 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC		UBC gases	Paw-16					
1	1	431	2005	✓		x					x					
2	2	432	10	✓						xx						
3	3	433	5	✓		x	x	xx	xx							
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
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16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): 11M

Bottom Depth: 4149 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	0339	0339
Bottom	0339	0339
End		1151

Positional Information

Lat: 49	59	99 N
Lon: 143	36	15 W

Start

Lat: 49	59	94 N
Lon: 143	36	24 W

Bottom

Lat: 49	59	98 N
Lon: 143	36	24 W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P35 Event #: 80 Ship: Tully UTC Date (dd/mmm/yyyy): 13/6/16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ☒ Pressure	Nut-F	Sal	Chl	HPLC						Paw-16	
1	1	434	2005	☒		x								x	
2	2	435	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): H.M.

Bottom Depth: 4151 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1631	0931
Bottom	1707	
End	1741	

Positional Information

Start	Lat: 49 ° 59. 96 N
	Lon: 144 ° 18. 16 W
Bottom	Lat: 49 ° 59. 98 N
	Lon: 144 ° 18. 23 W
End	Lat: 49 ° 59. 99 N
	Lon: 144 ° 18. 15 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06

Station: P26

Event #: 81

Ship: Tully

UTC Date (dd|mmm|yyyy): 13 | 6 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-Fr	Chl	HPLC	Phyto							
				✓			t	d										
1		436	300	✓	300	x			x									Valve not closed
2		437	200	✓	200	x	x	x	x									
3		438	175	✓	175	x	x	x	x									
4		439	100	✓	100	x	x	x	xx	x								
5		440	75	✓	75	x			x	x								
6		441	60	✓	60				x	xx	xx							
7		442	50	✓	50	x			x	xx	xx							Fluo
8		443	40	✓	40	x			x	xx	xx							Fluo
9		444	30	✓	30	x			x	xx	xx							Fluo
10		445	25	✓	25	x			x	x								Fluo
11		446	20	✓	20	xx	xx	xx	x	x								
12		447	15	✓	15	x			x	xx	xx							
13		448	10	✓	10	x			x	x								Fluo
14		449	5	✓	5	x	x	x	x	xx	xx	xxx						
15		450	0	✓	2	x	x	x	x	x								Fluo
16																		
17																		
18																		
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

Bottom Depth: 4088 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2235	1535
Bottom	2242	
End		

Positional Information

Lat:	50 ° 0.01	N
Lon:	144 ° 59.97	W

Start

Bottom

End

Lat:	50 ° 0.00	N
Lon:	144 ° 59.96	W

Lat:	49 ° 59.96	N
Lon:	144 ° 59.98	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: 2016-06 Station: P26 Event #: 82 Ship: Tully UTC Date (dd|mmm|yyyy): 13 | 6 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target	Confirmed	OXY	Sal	Nut-F	Nut-C	DIC	Alk	pH	Paw16	Gases	DNA		SAGs		
			Pressure	✓ Pressure														
					DY	DY	Jade	Jade	Jade	Jade	Jade	Jade	Jade	Jade	Jade	Jade		
1	1	451	Bot-10	✓	4319	x		xx	x	x	x	x		x	xx	x	x	
2	2	452	4000	✓	4000	x	x	xx	x	x	x	x		x	xx	x	x	
3	3	453	3500	✓	3499	x	xx	xxxx	xx	xx	x	x		x				
4	4	454	3000	✓	3000	x	x	xx	x	x	x	x		x	xx	x	x	
5	5	455	2500	✓	2500	xx	xx	xx	x	x	x	xxx		x				
6	6	456	2000	✓	2000	x	x	xx	x	x	x	x		x	xx	x	x	
7	7	457	1500	✓	1499	x	x	xx	x	x	x	x		x	xx	x	x	
8	8	458	1250	✓	1250	x	x	xx	x	x	x	x		x	xx	x	x	
9	9	459	1000	✓	999	x	x	xx	x	x	x	x		x	xx	x	x	
10	10	460	800	✓	800	x		xx	x	x	x	x		x	xx	x	x	
11	11	461	600	✓	600	x		xx	x	x	x	x		x	xx	x	x	
12	12	462	400	✓	400	x		xx	x	x	x	x		x	xx	x	x	
13	13	463	300	✓	300	x		xx		x	x	x		x	xx	x	x	
14	14	464	250	✓	250	xx		xx		x	x	x		x				
15	15	465	200	✓	200	x		xx		x	x	x		x	xx	x	x	
16	16	466	175	✓	175	x		xxxx		x	x	x		x				
17	17	467	150	✓	150	x		xx		x	x	x		x	xx	x	x	
18	18	468	125	✓	125	x		xx		x	x	x		x				
19	19	469	100	✓	100	x		xx		x	x	x		x	xx	x	x	
20	20	470	75	✓	75	xx		xx		x	x	xxx		x				
21	21	471	50	✓	50	x		xx		x	x	x		x	xx	x	x	
22	22	472	25	✓	25	x		xx		x	x	x		x	xx	x	x	
23	23	473	10	✓	10	x		xx		x	x	x		x	xx	x	x	
24	24	474	5	✓	5	xx	x	xx		x	x	x		x				

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): DYBottom Depth: 4253 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2346	1646
Bottom	0102	
End	0242	

Positional Information
Start
Lat: 50 ° 0.03 N
Lon: 144 ° 59.96 WBottom
Lat: 49 ° 59.98 N
Lon: 144 ° 59.98 WEnd
Lat: 50 ° 0.00 N
Lon: 144 ° 59.98 WExtra comments:
Deep cast
Will also have loops for Sal x1,
OxyLab x2 and OxyT x2

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P26

Event #: 83

Ship: Tully

UTC Date (dd|mmm|yyyy): 14 | 6 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure											
1		475	200	✓ 200											
2		476	150	✓ 150											
3		477	100	✓ 100											
4		478	75	✓ 75											
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: 4254 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0400	2100
Bottom	0404	
End	0411	

Positional Information

Start	Lat: 50° 0.03 N	Lon: 144° 59.94 W
Bottom	Lat: 50° 0.401 N	Lon: 144° 59.96 W
End	Lat: 50° 0.03 N	Lon: 144° 59.96 W

Extra comments:
 17 O cast of Paul Quay
 200 m cast

Cruise ID: 2016-06 Station: P26 Event #: 84 Ship: Tully UTC Date (dd|mmm|yyyy): 14 | 6 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure											
1		479	50	✓	50									xx	
2		480	25	✓	25									xx	
3		481	10	✓	10									xx	
4		482	5	✓	5									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): DY

Bottom Depth: 4253 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	0441	2141
Bottom	0444	
End	0451	

Positional Information

Start

Lat: 50° 0.00 N

Lon: 144° 59.94 W

Bottom

Lat: 50° 0.02 N

Lon: 144° 59.93 W

End

Lat: 50° 0.04 N

Lon: 144° 59.10 W

Extra comments:

¹⁷O cast of Paul Quay

150 m CTD cast

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P26 Event #: 85 Ship: Tully UTC Date (dd|mmm|yyyy): 14 | 6 | 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials													Comments
			Target Pressure	Confirmed Pressure	170	ONAr	Oxy	180 ind	NO3 ind	NH4 ind	CHL	Nut-Fr	NH4	Sal	C14	UVic	TM	
1		483	O2 max	✓ 45.44	xx		xx							x				
2		484	5		xx	xx	xx		x									
3																		
4		485	250	✓												x		
5		486	150	✓												x		
6		487	50	✓												x		
7		488	20	✓												x		
8		489	10	✓												x		
9		490	5													x		
10																		
11		491	100	✓													x	
12		492	50	✓													x	
13		493	5														x	
14																		
15		494	10	✓													xx	
16																		
17		495	100%	0			xx	xxx	xxxxx		x	x						
18		496	100%	0						xxxxx			xx					
19		497	55%	0.5		xx	xx	xxx	x	x	x	x	xx	x				
20		498	30%	6			xx	xxx	x	x	x	x	xxxx	x				
21		499	15%	9			xx	xxx	x	x	x	x	xx	x				
22		500	1%	41			xx	xxx	x	x	x	x	xx	x				
23		501	55%	5											x			
24		502	10	✓													xx	

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

Bottom Depth: 4215 m

Transmisso Cleaned: y / N

Time	UTC	Local
Start	11 04	0406
Bottom	11 11	
End	11 34	

Positional Information

Start
Lat: 50 ° 00 . 06 N
Lon: 144 ° 59 . 06 WBottom
Lat: 50 ° 00 . 00 N
Lon: 144 ° 59 . 86 WEnd
Lat: 50 ° 00 . 02 N
Lon: 144 ° 59 . 90 W

Extra comments:

Amanda, Theresa, Robert
4, 5, 11, 12, 6, 1, 22, 7, 8, 24
15, 21, 20, 23, 19, 2, 9, 13
17, 18

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P26 Event #: 86 Ship: Tully UTC Date (dd|mmm|yyyy): 14 | Jun | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed √ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt	Ligs									
1		503	40			X	X	x	x	8								
2		504	25			X	X	x	x									
3		505	10					x	x	xxxx								
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 ☒ Niskin other?
Watchkeeper(s): ABottom Depth: 1250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1405	07:05
Bottom	1425	07:25
End	1445	07:45

Positional Information
Start
Lat: 50 ° 00.0236 N
Lon: 144 ° 59.9638 WBottom
Lat: 50 ° 00.1450 N
Lon: 144 ° 59.5683 WEnd
Lat: ° N
Lon: ° WExtra comments:
Go-flo 40
No water left for Sal
and Nut-Fr at 40m,
so Sal and Nut-Fr
collected from 25m.

Water Properties Group

Sampling Log

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

Cruise ID:

2016-06

Station:

P26

Event #:

87

Ship:

Tully

UTC Date (dd|mmm|yyyy): 14 | JUN | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments	
			Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt						
1		506	100		x	x	x	x						
2		507	75				x	x						
3		508	50				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):

AR

Bottom Depth: 4250 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1540	08:40
Bottom	1550	08:50
End	1605	09:05

Positional Information

Start
Lat: 50 ° 00.25 N
Lon: 144 ° 59.80 WBottom
Lat: 50 ° 00.17 N
Lon: 144 ° 59.81 WEnd
Lat: 50 ° 00.19 N
Lon: 144 ° 59.79 W

Extra comments:

Go-flo 100

75m. bottle failed to trip.
Re-deployed during extra
cast at 12:26 (50°00.02'N,
145°00.02'W) to 12:45
(50°00.01'N, 145°00.04'W)

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P26 Event #: 88 Ship: Tully UTC Date (dd|mmm|yyyy): 14 JUN 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt								
1		509	300		x	x	xx	xx								
2		510	200				x	x								
3		511	150				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): AR

Bottom Depth: 4250 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1630	09:30
Bottom	1640	09:40
End	1709	10:09

Positional Information
 Start
 Lat: 50 ° 00.14 N
 Lon: 144 ° 59.77 W

Bottom
 Lat: 50 ° 00.07 N
 Lon: 144 ° 59.82 W

End
 Lat: 49 ° 59.89 N
 Lon: 145 ° 00.12 W

Extra comments:
 Go-flo 300

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P26 Event #: 89 Ship: Tully UTC Date (dd|mmm|yyyy): 14 JUN 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed √ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt	Nut-C									
1		512	800			x	x	x x	x x	x								
2		513	600					x	x									
3		514	400					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 ☒ Niskin other?
Watchkeeper(s): AR

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1746	10:46
Bottom	1813	11:13
End	1840	11:40

Positional Information
Start
Lat: 50 ° 00.12 N
Lon: 145 ° 00.05 W

Bottom
Lat: 49 ° 59.99 N
Lon: 145 ° 00.08 W

End
Lat: 49 ° 59.83 N
Lon: 145 ° 00.09 W

Extra comments:
Go-flo 800

Water Properties Group

Sampling Log

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

Cruise ID:

2016-06

Station:

P26

Event #:

93

Ship:

Tully

UTC Date (dd|mmm|yyyy):

14 | 6 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure		UBC		ONAr									
1		518	2000	✓ 2000		x											
2		519	2000	✓													
3		520	2000	✓													
4		521	2000	✓													
5		522	1000	✓ 1000		x											
6		523	1000	✓													
7		524	1000	✓													
8		525	1000	✓													
9		526	500	✓ 500		x											
10		527	500	✓													
11		528	500	✓													
12		529	500	✓													
13		530	10	✓ 10		x											
14		531	10	✓													
15		532	10	✓													
16		533	10	✓													
17																	
18		534	4000	✓ 4002				xx									
19		535	3500	✓ 3499				xx									
20		536	3000	✓ 3000				xx									
21		537	2500	✓ 2500				xx									
22		538	2000	✓ 2000				xx									
23																	
24																	

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

DY

Bottom Depth: 4252 m

Transmisso Cleaned: (Y) N

Time UTC Local

Start 2159 1609

Bottom 2309

End 0026

Positional Information

Start Lat: 50° 0.01 N

Lon: 144° 59.97 W

Bottom Lat: 50° 0.01 N

Lon: 145° 0.10 W

End Lat: 50° 0.05 N

Lon: 144° 59.95 W

Extra comments: out-of-order

Jade and ONAr cast

18 to 22 then 1 to 16

Water Properties Group

wrong name in RL
↓
Sampling Log

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

Cruise ID: 2016-06

Station: PA-010

Event #: 95

Ship: Tully

UTC Date (dd|mmm|yyyy): 16 | 6 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	ONAr UW	Oxy UW	Salt UW	DIC UW		DIC IOS	pH IOS					
1		539	10	✓ 10				xx		xx	xxx					
2		540	10	✓ 10	xx	xx	x									
3		541	5	✓ 5	xx	xx	x									
4		542	5	✓ 5				xx		xxx	xxx					
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): DY

Bottom Depth: 4230 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0303	2003
Bottom	0312	
End	0322	

Positional Information

Lat:	50°	1.47	N
Lon:	144°	52.74	W

Start

Bottom

Lat:	50°	1.46	N
Lon:	144°	52.76	W

End

Lat:	50°	1.43	N
Lon:	144°	52.80	W

Extra comments:
CTD to 500 m
flooding site?

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P26 Event #: 96 Ship: Tully UTC Date (dd|mmm|yyyy): 16 | JUN | 2016

Niskin #	Firing #	Sample #	Rosette Operation			Samples Taken / Sampler's Initials										Comments		
			Target Pressure	Confirmed ☒	Pressure	Sal	Nut-fr	Fe <i>filt</i>	Fe <i>unfilt</i>	Nut-C								
1	3	515	2000			x	x	x	x	x								
2	2	516	1500					x	x									
3	1	517	1000					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 ☒ Niskin other?
Watchkeeper(s): A.R., D.Y.

Bottom Depth: m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	04:18	21:18
Bottom	05:00	22:00
End	05:55	22:55

Positional Information
Start
Lat: 50° 00.03 N
Lon: 145° 00.00 W

Bottom
Lat: 49° 59.99 N
Lon: 145° 00.26 W

End
Lat: 49° 59.97 N
Lon: 145° 00.25 W

Extra comments:
Go-flo 2000

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: PA-009 Event #: 97 Ship: Tully UTC Date (dd|mmm|yyyy): 16 | JUN | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials							Comments						
			Target	Confirmed	ONAr	Oxy	Salt											
			Pressure	✓ Pressure	UW	UW	UW											
1		543	10	✓ 10	xx	xx	x											
2		544	5	✓ 5	xx	xx	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): MR

Bottom Depth: 4227 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1340	0640
Bottom	1348	
End	1358	

Positional Information
Start
Lat: 50 ° 07.85 N
Lon: 144 ° 52.20 W

Bottom
Lat: 50 ° 07.83 N
Lon: 144 ° 52.21 W

End
Lat: 50 ° 07.80 N
Lon: 144 ° 52.24 W

Extra comments:
CTD to 500 m

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P4 Event #: 105 Ship: Tully UTC Date (dd|mmm|yyyy): 19 JUN 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed √ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt	Nut-C									
1	3	545	400			x	x	x	x	x								
2	2	546	200					x	x									
3	1	547	100					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): AR/HM

Bottom Depth: 1326 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	<u>08:35</u>	<u>01:35</u>
Bottom	<u>08:50</u>	<u>01:50</u>
End	<u>09:03</u>	<u>02:03</u>

Positional Information

Lat:	<u>48 ° 38.99</u>	<u>N</u>
Lon:	<u>126 ° 39.93</u>	<u>W</u>

Start

Lat:	<u>48 ° 38.92</u>	<u>N</u>
Lon:	<u>126 ° 39.91</u>	<u>W</u>

Bottom

Lat:	<u>48 ° 38.83</u>	<u>N</u>
Lon:	<u>126 ° 39.84</u>	<u>W</u>

End

Extra comments:
P4-return
Deep go-flo

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P4 Event #: 106 Ship: Tully UTC Date (dd|mmm|yyyy): 19 | 6 | 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut-F	Nut-C	Sal	Chl	gases	Paw16							
1		548	Bot-10	✓	1325	x	x	x				x						
2		549	1000	✓		x	x	x	x			x						
3		550	800	✓		x x	x	x	x x			x						
4		551	600	✓		x	x	x	x			x						
5		552	400	✓		x	x x	x x										
6		553	300	✓		x	x					x						
7		554	200	✓		x	x											
8		555	150	✓		x	x					x						
9		556	100	✓		x x	x											
10		557	75	✓		x	x			x		x						
11		558	50	✓		x	x			x								
12		559	25	✓		x	x			x x		x						
13		560	10	✓		x	x x			x	x x							
14		561	5	✓		x	x		x	x		x						
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 1327 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0914	0214
Bottom	0936	
End	1009	

Positional Information
Start
Lat: 48 ° 38.92 N
Lon: 126 ° 40.00 W

Bottom
Lat: 48 ° 38.87 N
Lon: 126 ° 39.83 W

End
Lat: 48 ° 38.77 N
Lon: 126 ° 39.78 W

Extra comments:
P4 return
Loop for Chlx2 and Salx1
Oxy Lab x2, Oxy Tr x 2

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P4 Event #: 107 Ship: Tully UTC Date (dd|mmm|yyyy): 19 JUN 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt	Ligs									
1	3	562	40			x	x	x	x	xxxx								
2	2	563	25					x	x									
3	1	564	10					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 ☒ Niskin other?
Watchkeeper(s): AR/HM

Bottom Depth: 132 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	10:25	03:25
Bottom	10:44	03:44
End	10:49	03:49

Positional Information
Start
Lat: 48 ° 38.84 N
Lon: 126 ° 39.99 WBottom
Lat: 48 ° 38.81 N
Lon: 126 ° 39.97 WEnd
Lat: 48 ° 38.80 N
Lon: 126 ° 39.96 WExtra comments:
P4-return
Shallow go-flo