

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P12 Event #: 40 Ship: Tully UTC Date (dd|mmm|yyyy): 9 | 6 | 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments	
			Target Pressure	Confirmed ✓ Pressure	17O	ONAr	Oxy	18O inc	NO3 inc	NH4 inc	CHL	Nut-Fr	NH4	Sal	Phyto		UVic
1		233	O2 max	✓ 36	xx		xx							x			
2		234	5 m	✓	xx	xx	xx		x						xxx		
3																	
4		235	250	✓												x	
5		236	150	✓												x	
6		237	50	✓												x	
7		238	20	✓												x	
8		239	10	✓												x	
9		240	5	✓												x	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17		241	100%	✓ 0			xx	xxx	xxxxx		x	x					
18		242	100%	✓ 0						xxxxx			xx				
19		243	55%	✓ 0		xx	xx	xxx	x	x	x	x	xx	x			
20		244	30%	✓ 5			xx	xxx	x	x	x	x	xxxx	x			
21		245	15%	✓ 7			xx	xxx	x	x	x	x	xx	x			
22		246	1%	✓ 60			xx	xxx	x	x	x	x	xx	x			
23		247	55%	✓ 0													x
24																	

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

Bottom Depth: 3236 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0824	0124
Bottom	0828	
End	0946	

Positional Information

Lat:	48 ° 58 . 25	N
Lon:	130 ° 39 . 91	W

Start

Lat:	48 ° 58 23	N
Lon:	130 ° 39 95	W

Bottom

Lat:	48 ° 58 19	N
Lon:	130 ° 39 . 11	W

End

Extra comments: out-of-order!
Amanda, Theresa, Robert
4, 5, 22, 6, 1, 7, 8, 21, 20
9, 2, 17, 18, 19, 23

Water Properties Group

Sampling Log

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

Cruise ID:

2016-06

Station:

P13

Event #:

42

Ship:

Tully

UTC Date (dd|mmm|yyyy):

9 | 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	248	2005	✓ 2005		x						x			
2	2	249	10	✓						xx					
3	3	250	5	✓	x	x	xx	xx							
4															
5															
6															
7															
8															
9															
10															
11															
12															
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14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 3052 m
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1306	0606
Bottom	1339	
End	1412	0712

Positional Information

Start	Lat: 49 ° 02.59 N
	Lon: 131 ° 40.03 W

Bottom

	Lat: 49 ° 02.57 N
	Lon: 131 ° 39.95 W

End

	Lat: 49 ° 02.58 N
	Lon: 131 ° 40.03 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P14 Event #: 45 Ship: Tully UTC Date (dd|mmm|yyyy): 09 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	251	2005	☒	2004		x						x			
2	2	252	10	☒	10						xx					
3	3	253	5	☒	5	x	x	xx	xx							
4																
5																
6																
7																
8																
9																
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11																
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13																
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16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 3315 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1831	1131
Bottom	1903	
End	1939	

Positional Information
 Start
 Lat: 49° 07.42 N
 Lon: 132° 40.12 W

Bottom
 Lat: 49° 07.46 N
 Lon: 132° 40.21 W

End
 Lat: 49° 07.40 N
 Lon: 132° 40.11 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:

P14

Event #:

45

Ship:

Tully

UTC Date (dd|mmm|yyyy):

9 | 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	251	2005	✓ 2004		x					x					
2	2	252	10	✓ 10						xx						
3	3	253	5	✓ 5	x	x	xx	xx								
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth:
3315 m
Transmisso Cleaned:
(Y) / N

Time	UTC	Local
Start	1831	1131
Bottom	1903	
End	1939	1939

Positional Information
Start
Lat: 49 ° 7 42 N
Lon: 132 ° 0 12 W

Bottom
Lat: 49 ° 07.41 N
Lon: 132 ° 40.21 W

End
Lat: 49 ° 07.40 N
Lon: 132 ° 40.11 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: P15 Event #: 46 Ship: Tully UTC Date (dd|mmm|yyyy): 10 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	254	2005	✓	2005		x						x			
2	2	255	10	✓	10						x x					
3	3	256	5	✓	5	x	x	x x	x x							
4																
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17																
18																
19																
20																
21																
22																
23																
24																

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

Watchkeeper(s): DY

Bottom Depth: 3411 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0001	1701
Bottom	0036	
End	0114	

Positional Information

Start Lat: 49° 12.00 N

Start Lon: 133° 39 98 W

Bottom Lat: 49° 11 99 N

Bottom Lon: 133° 40.01 W

End Lat: 49° 11.97 N

End Lon: 133° 40.05 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P15 Event #: 46 Ship: Tully UTC Date (dd|mmm|yyyy): 10/6/2016

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	254	2005	✓ 2005		x					x					
2	2	255	10	✓ 10						xx						
3	3	256	5	✓ 5	x	x	xx	xx								
4																
5																
6																
7																
8																
9																
10																
11																
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15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: m 3411
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0001	
Bottom	0036	
End	0114	

Positional Information

Start	Lat: 49	12 00 N
	Lon: 133	39 98 W

Bottom

Lat: 49	16 99 N
Lon: 133	40 01 W

End

Lat: 49	16 97 N
Lon: 133	40 05 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P16 Event #: 47 Ship: Tully UTC Date (dd|mmm|yyyy): 10 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		257	50			x	x	x	x							
2		258	40					x	x							
3		259	25					x	x							
4		260	10					x	x							
5																
6																
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9																
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13																
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15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0555	22:55
Bottom	0608	23:08
End	0615	23:15

Positional Information

Lat:	49° 17.01	N
Lon:	134° 40.03	W

Bottom

Lat:	49° 16.98	N
Lon:	134° 40.11	W

End

Lat:	49° 17.00	N
Lon:	134° 40.20	W

Extra comments:
 Go-flo 50

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P16 Event #: 49 Ship: Tully UTC Date (dd|mmm|yyyy): 10 | 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		261	200			x	x	x	x							
2		262	150					x	x							
3		263	100					x	x							
4		264	75					x	x							
5																
6																
7																
8																
9																
10																
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18																
19																
20																
21																
22																
23																
24																

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

Time	UTC	Local
Start	0750	00:50
Bottom	0810	01:10
End	0830	01:30

Positional Information
Start
Lat: 49 ° 17.03 N
Lon: 134 ° 40.00 WBottom
Lat: ° N
Lon: ° WEnd
Lat: 49 ° 17.05 N
Lon: 134 ° 40.03 WExtra comments:
Go-flo 200

Water Properties Group

Sampling Log

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

Cruise ID:

2016-06

Station:

P16

Event #:

50

Ship:

Tully

UTC Date (dd|mmm|yyyy):

10 | 6 | 16

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments			
			Target Pressure	Confirmed ✓ Pressure	17O	ONAr	Oxy	18O ind	NO3 ind	NH4 ind	CHL	Nut-Fr	NH4	Sal	Phyto	UVic	C14			
1		265	O2 max	✓ 24 250	xx		xx							x						
2		266	5 m	✓ 8	xx	xx	xx		x						xxx					
3			O2 MAX	✓ 24																
4		267	250	✓												x				
5		268	150	✓												x				
6		269	50	✓												x				
7		270	20	✓												x				
8		271	10	✓												x				
9		272	5	✓												x				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17		273	100%	✓ 0			xx	xxx	xxxxx		x	x								
18		274	100%	✓ 0						xxxxx			xx							
19		275	55%	✓ 8		xx	xx	xxx	x	x	x	x	xx	x						
20		276	30%	✓ 12			xx	xxx	x	x	x	x	xxxx	x						
21		277	15%	✓ 18			xx	xxx	x	x	x	x	xx	x						
22		278	1%	✓ 45			xx	xxx	x	x	x	x	xx	x						
23		279	55%	✓ 8													x			
24																				

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

H.7

Bottom Depth: 3635 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0838	0130
Bottom	0843	
End	0902	

Positional Information

Start
Lat: 49 ° 17 . 03 N
Lon: 134 ° 39 . 94 W

Bottom
Lat: 49 ° 17 . 03 N
Lon: 134 ° 39 . 93 W

End
Lat: 49 ° 17 . 01 N
Lon: 134 ° 39 . 96 W

Extra comments: out-of-order!

Amanda, Theresa, Robert

4, 5, 6, 22, 8, 7, 21, 20
8, 19, 23, 2, 9, 17, 18

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P16 Event #: 52 Ship: Tully UTC Date (dd|mmm|yyyy): 09 | JUN | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments	
			Target Pressure	Confirmed	Sal	Nut-fr	Fe	Fe	Nut-C									
				√	Pressure			filt	unfilt									
1		280	800			x	x	x	x	x								
2		281	600					x x	x x									
3		282	400					x	x									
4		283	300					x	x									
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Version: 25 Nov 2011

Transmissometer to be used at 11.1

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

Bottom Depth: _____ m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0950	02:50
Bottom	0027	03:27
End	1130	04:30

Positional Information
Lat: 49 ° 17.02 N
Lon: 134 ° 40.04 W

Start
Bottom
End

Lat: 49 ° 17.03 N
Lon: 134 ° 39.99 W

Lat: 49 ° 16.94 N
Lon: 134 ° 40.02 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: P16 Event #: 53 Ship: Tully UTC Date (dd|mmm|yyyy): 10 | 6 | 16

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		Paw16	
					MR/HR BY	MR	MR	RR/KV	GL				SS/RT JS	ALL			BY	
1		284	Bot-10	✓ 3686	x		x	x	x	x			xx	x	x		x	
2		285	3500	✓	x	xx	xx	xx	xx	x								
3		286	3500	✓	xx	x	x	x	x	x							x	
4		287	3000	✓	x	xx	x	x	x	x			xx	x	x		x	
5		288	2500	✓ 2500	x	x	x	x	x	xxx							x	
6		289	2000	✓ 2000	x	xx	x	x	x	x			xx	x	x		x	
7		290	1500	✓	x	x	x	x	x	x			xx	x	x		x	
8		291	1250	✓	x	xx	x	x	x	x			xx	x	x		x	
9		292	1000	✓	x	xx	x	x	x	x			xx	x	x		x	
10		293	800	✓	xx		x	x	x	x			xx	x	x		x	
11		294	600	✓	x		x	x	x	x			xx	x	x		x	
12		295	400	✓	x		x	x	x	x			xx	x	x		x	
13		296	300	✓	x		x		x	x			xx	x	x		x	
14		297	250	✓	x		x		x	xxx							x	
15		298	200	✓	x		x		x	x			xx	x	x		x	
16		299	175	✓	xx		x		x	x							x	
17		300	150	✓	x		x		x	x			xx	x	x		x	
18		301	125	✓	x		xx		x	x							x	
19		302	100	✓	x		x		x	x			xx	x	x		x	
20		303	75	✓	x		x		x	x							x	
21		304	50	✓	x		x		x	x			xx	x	x		x	
22		305	25	✓	xx		x		x	x			xx	x	x		x	
23		306	10	✓	x		x		x	x			xx	x	x		x	
24		307	5	✓	x	x	x		x	x							x	

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

Bottom Depth: 3636 m
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1158	0458
Bottom	1307	0607
End	1431	

Positional Information

Lat:	49 ° 17.18	N
Lon:	134 ° 40.00	W

Start

Lat:	49 ° 17.15	N
Lon:	134 ° 39.97	W

Bottom

Lat:	49 ° 16.99	N
Lon:	134 ° 39.96	W

End

Extra 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: P16

Event #: 54

Ship: Tully

UTC Date (dd|mmm|yyyy): 10 | 6 | 16

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		308	300	✓		x			x									
2		309	200	✓		x	x	x	x									
3		310	175	✓		x	x	x	x									
4		311	100	✓		x	x	x	x	x								
5		312	75	✓		x			x	x								
6		313	60	✓					x	xx	xx							Fluo
7		314	50	✓		x			x	xx	xx							Fluo
8		315	40	✓		x			x	xx	xx							Fluo
9		316	30	✓		x			x	xx	xx							Fluo
10		317	25	✓		x			x	x								
11		318	20	✓		xx	xx	xx	x	x								
12		319	15	✓		x			x	xx	xx							Fluo 1.4
13		320	10	✓		x			xx	x								
14		321	5	✓		x	x	x	x	xx	xx							Fluo
15		322	0	✓		x	x	x	x	x								
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): H.M.

Bottom Depth: 3636 m

Transmisso Cleaned: (Y) / N

Time UTC Local

Start 1537 0837

Bottom 1543

End 1600

Positional Information

Lat: 49 ° 16.99 N

Lon: 134 ° 39.92 W

Lat: 49 ° 16.99 N

Lon: 134 ° 39.93 W

Lat: 49 ° 16.99 N

Lon: 134 ° 39.92 W

Extra comments:

DMS cast

Will also have loops for Chl x2

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P17 Event #: 58 Ship: Tully UTC Date (dd mmm yyyy): 10 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	NH4 Bulk			
1	1	323	2005	✓	2005		x					x	x			
2	2	324	10	✓	10						xx					
3	3	325	5	✓	5	x	x	xx	xx							
4																
5																
6																
7																
8																
9																
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20																
21																
22																
23																
24																

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

Watchkeeper(s): DRY

Bottom Depth: 3648 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2101	1401
Bottom	2138	
End	2213	

Positional Information

Start Lat: 49° 21.04 N

Start Lon: 135° 40.08 W

Bottom Lat: 49° 21.03 N

Bottom Lon: 135° 39.97 W

End Lat: 49° 21.01 N

End Lon: 135° 40.03 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P17 Event #: 58 Ship: Tully UTC Date (dd|mmm|yyyy): 10 | 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	NH4				
1	1	323	2005	✓	2005		x					x	X				
2	2	324	10	✓	10						xx						
3	3	325	5	✓	5	x	x	xx	xx								
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2101	
Bottom	2101	
End	2213	

Positional Information

Start	Lat: 49 21.04	N
	Lon: 135 40.08	W
Bottom	Lat: 49 21.04	N
	Lon: 135 39.97	W
End	Lat: 49 21.01	N
	Lon: 135 40.03	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P18 Event #: 59 Ship: Tully UTC Date (dd mmm yyyy): 11 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	0xy					
1	1	326	2005	✓ 2006		x						x						
2	2	327	10	✓ 11						xx								
3	3	328	5	✓ 5	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): DRY

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

Time	UTC	Local
Start	0233	1933
Bottom	0308	
End	0344	

Positional Information
Start
Lat: 49° 26.09 N
Lon: 136° 40.01 W

Bottom
Lat: 49° 26.04 N
Lon: 136° 40.12 W

End
Lat: 49° 26.01 N
Lon: 136° 40.06 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P18 Event #: 59 Ship: Tully UTC Date (dd|mmm|yyyy):

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	326	2005	✓ 2006		x						x						
2	2	327	10	✓ 11						xx								
3	3	328	5	✓ 5	x	x	xx	xx					xx					
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
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18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start		0203
Bottom		0308
End		0344

Positional Information

Lat:	49° 26' 09" N
Lon:	136° 40' 01" W

Start

Lat:	49° 26' 04" N
Lon:	136° 01' 12" W

Bottom

Lat:	49° 26' 01" N
Lon:	136° 01' 06" W

End

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P19 Event #: 62 Ship: Tully UTC Date (dd|mmm|yyyy): 11 | 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	329	2005	✓		x					x				
2	2	330	10	✓						xx					
3	3	331	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: 3923 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0815	0115
Bottom	0847	
End	0920	

Positional Information
Start
Lat: 49 ° 29 . 92 N
Lon: 137 ° 39 . 92 W

Bottom
Lat: 49 ° 29 . 98 N
Lon: 137 ° 39 . 95 W

End
Lat: 49 ° 29 . 99 N
Lon: 137 ° 40 . 00 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2016-06-

Station:

P20

Event #:

64

Ship:

Tully

UTC Date (dd|mmm|yyyy): 11 | 6 | 16

Cruise ID: 2016-06-			Station: P20		Event #: 64		Ship: Rully		Comments										
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										C14				
			Target Pressure	Confirmed Pressure	17O	ONAr	Oxy	18O ind	NO3 ind	NH4 ind	CHL	Nut-Fr	NH4	Sal			Phyto	UVic	
1		332	O2 max	✓ 32	xx		xx							x					
2		333	5 m	0	xx	xx	xx		x						xxx				
3																x			
4		334	250	✓												x			
5		335	150	✓												x			
6		336	50	✓												x			
7		337	20	✓												x			
8		338	10	✓												x			
9		339	5																
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17		340	100%	0			xx	xxx	xxxxx			x	x						
18		341	100%	0						xxxxx				xx					
19		342	55%	✓ 8		xx	xx	xxx	x	x	x	x	xx	x					
20		343	30%	✓ 14			xx	xxx	x	x	x	x	xxxx	x					
21		344	15%	✓ 21			xx	xxx	x	x	x	x	xx	x					
22		345	1%	✓ 59			xx	xxx	x	x	x	x	xx	x				x	
23		346	55%	0															
24																			

http://www

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

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): H.MBottom Depth: 3966 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1405	0705
Bottom	1411	
End	1432	

Positional Information		
Lat:	49 ° 34.00	N
Lon:	138 ° 40.14	W
▼		
Lat:	49 ° 34.03	N
Lon:	138 ° 40.16	W
▼		
Lat:	49 ° 34.07	N
Lon:	138 ° 40.17	W

Extra comments: out-of-order!
Amanda, Theresa, Robert
4, 5, 22, 6, 1, 21, 7, 20
8, 19, 23, 9, 17, 18, 2

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P20 Event #: 65 Ship: Tully UTC Date (dd|mmm|yyyy): 11 | 06 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt								
1		347	50		x	x	x	x								
2		348	40				xx	xx								
3		349	25				x	x								
4		350	10				x	x								
5																
6																
7																
8																
9																
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12																
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14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: _____ m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	15:20	08:20
Bottom	15:30	08:30
End	15:38	08:38

Positional Information
Start
Lat: 49 ° 34.04 N
Lon: 138 ° 39.98 W

Bottom
Lat: ° N
Lon: ° W

End
Lat: 49 ° 34.05 N
Lon: 138 ° 39.95 W

Extra comments:
Go-flo 50

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P20 Event #: 67 Ship: Tully UTC Date (dd|mmm|yyyy): 11 | 06 | 2016

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments	
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt								
1		351	200		x	x	x	x								
2		352	150				x	x								
3		353	100				x	x								
4		354	75				x	x								
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	17:25	10:25
Bottom	17:40	10:40
End	17:52	10:52

Positional Information

Lat:	49 ° 34.02	N
Lon:	138 ° 39.99	W

Start

Lat: 49 ° 34.01 N
Lon: 138 ° 40.03 W

Bottom

Lat: 49 ° 33.99 N
Lon: 138 ° 39.96 W

End

Extra comments:
Go-flo 200
75m sampling bottle
leaking badly from
lower ball-valve.

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P20 Event #: 68 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	OXY	Sal	Nut-F	Nut-C	DIC	pH			Gases	SAGs	DNA		Paw16	
1		355	Bot-10	✓ 4025	x		x	x	x	x			xx	x	x		x	
2		356	3500	✓ 3500	x	xx	xx	xx	xx	x								
3		357	3500	✓ 3500	xx	x	x	x	x	x							x	
4		358	3000	✓ 3000	x	xx	x	x	x	x			xx	x	x		x	
5		359	2500	✓ 2499	x	x	x	x	x	xxx							x	
6		360	2000	✓ 1999	x	xx	x	x	x	x			xx	x	x		x	
7		361	1500	✓ 1500	x	x	x	x	x	x			xx	x	x		x	
8		362	1250	✓ 1249	x	xx	x	x	x	x			xx	x	x		x	
9		363	1000	✓ 1001	x	xx	x	x	x	x			xx	x	x		x	
10		364	800	✓ 800	xx	x	x	x	x	x			xx	x	x		x	
11		365	600	✓ 600	x	x	x	x	x	x			xx	x	x		x	
12		366	400	✓ 400	x	x	x	x	x	x			xx	x	x		x	
13		367	300	✓ 300	x	x	x		x	x			xx	x	x		x	
14		368	250	✓ 250	x	x	x		x	xxx							x	
15		369	200	✓ 200	x	x	x		x	x			xx	x	x		x	
16		370	175	✓ 174	xx	x	x		x	x							x	
17		371	150	✓ 150	x	x	x		x	x			xx	x	x		x	
18		372	125	✓ 125	x	x	xx		x	x							x	
19		373	100	✓ 101	x	x	x		x	x			xx	x	x		x	
20		374	75	✓ 75	x	x	x		x	x							x	
21		375	50	✓ 50	x	x	x		x	x			xx	x	x		x	
22		376	25	✓ 25	xx	x	x		x	x			xx	x	x		x	
23		377	10	✓ 10	x	x	x		x	x			xx	x	x		x	
24		378	5	✓ 5	x	x	x		x	x							x	

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

Bottom Depth: 3965 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1802	1102
Bottom	1928	
End	2056	

Positional Information

Lat:	49 ° 33.98	N
Lon:	138 ° 39.94	W

Start

Lat:	49 ° 34.07	N
Lon:	138 ° 39.96	W

Bottom

Lat:	49 ° 34.02	N
Lon:	138 ° 39.90	W

End

Extra 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:

P20

Event #:

69

Ship:

Tully

UTC Date (dd|mmm|yyyy): 11 | 06 | 2016

Cruise ID: 2019-05			Rosette Operation		Samples Taken / Sampler's Initials										Comments		
Niskin #	Firing #	Sample #	Target	Confirmed	Sal	Nut-fr	Fe	Fe	Nut-C								
			Pressure	√ Pressure			filt	unfilt									
1		379	800		x	x	x	x	x								
2		380	600				x	x									
3		381	400				x	x									
4		382	300				x	x									
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

the form each cast, do not use Ammonia products

<http://www.pa>

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

Watchkeeper(s):

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	21:34	14:34
Bottom	22:00	15:00
End	22:28	15:28

Positional Information

Start Lat: 49 ° 34.02 N

Start Lon: 138 ° 39.94 W

Bottom Lat: 49 ° 33.72 N

Bottom Lon: 138 ° 39.97 W

End Lat: 49 ° 34.10 N

End Lon: 138 ° 39.63 W

Extra comments:

Go-flo 800
Spigot on 400m bottle may have been left open during deployment.

Water Properties Group

Sampling Log

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

Cruise ID:

2016-06

Station:

P20

Event #:

70

Ship:

Tully

UTC Date (dd|mmm|yyyy):

11 | 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				
1		383	300	✓ 299	x			x							
2		384	200	✓ 200	x	x	x	x							
3		385	175	✓ 175	x	x	x	xx							
4		386	100	✓ 100	x	x	x	x	x						
5		387	75	✓ 75	x			x	x						Fluo
6		388	60	✓ 60				x	xx	xx					Fluo
7		389	50	✓ 50	x			x	xx	xx					Fluo
8		390	40	✓ 40	x			x	xx	xx					Fluo
9		391	30	✓ 30	x			x	xx	xx					
10		392	25	✓ 25	x			x	x						
11		393	20	✓ 20	xx	xx	xx	x	x						Fluo
12		394	15	✓ 15	x			x	xx	xx					
13		395	10	✓ 10	x			x	x						Fluo
14		396	5	✓ 5	x	x	x	x	xx	xx					
15		397	0	✓ 3	x	x	x	x	x						
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

DY

Bottom Depth: 3965 m

Transmisso Cleaned: Y / N

	UTC	Local
Start	2240	1540
Bottom	2245	
End	2304	

Positional Information

Lat:	49° 34.00	N
Lon:	138° 39.80	W

Lat:	49° 34.01	N
Lon:	138° 40.00	W

Lat:	49° 34.01	N
Lon:	138° 40.04	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:

P21

Event #:

72

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	398	2005	✓ 2005		x				x					
2	2	399	10	✓ 10					xx						
3	3	400	5	✓ 5	x	x	xx	xx							
4															
5															
6															
7															
8															
9															
10															
11															
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14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): DRY

Bottom Depth: 3959 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0435	2135
Bottom	0510	
End	0545	

Positional Information

Start Lat: 49° 37.99 N
Lon: 139° 40.05 W

Bottom Lat: 49° 38.01 N
Lon: 139° 39.95 W

End Lat: 49° 38.10 N
Lon: 139° 39.97 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2016-06 Station: P21 Event #: 72 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	Paw-16				
1	1	398	2005	✓ 2005		x					x				
2	2	399	10	✓ 10						xx					
3	3	400	5	✓ 5	x	x	xx	xx							
4															
5															
6															
7															
8															
9															
10															
11															
12															
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14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 3959 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0435	2135
Bottom	0540	
End	0545	

Positional Information
Start
Lat: 49° 47.99' N
Lon: 139° 40.05' W

Bottom
Lat: 49° 38.01' N
Lon: 139° 39.95' W

End
Lat: 49° 38.10' N
Lon: 139° 39.97' W

Extra comments: