

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P19

Event #:

48 49

Ship:

Tully

UTC Date (dd:mmm:yyyy): 13 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC	
1	1	332	50 / Max	✓ 50	x		x x	x x	No Max
2	2	333	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:	3725	m
Transmisso Cleaned:	☒ Y	☐ N

Time	UTC	Local
Start	1111	0911
Bottom	1145	
End	1229	

Positional Information
Start
Lat: 49 ° 29 99 N
Lon: 137 ° 39 92 W

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

End
Lat: 49 ° 29 98 N
Lon: 137 ° 39 98 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P20

Event #:

50

Ship:

Tully

UTC Date (dd mmm yyyy): 13 JUN 2015

Cruise ID:			2015-09		Station:		P20		Event #:		P20		Ship:		Party:		Comments				
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Gases	DNA	SAGs	Céline			
			Target Pressure	Confirmed ✓ Pressure	OXY	Sal	Nut-F	Nut-C	DIC	pH											
1	1	334	Bot-10	✓	4025	x		x	x	x	x				xx	x	x	x			
2	2	335	3500	✓	3500	x	x	x	x	xx	x				xx			x			
3	3	336	3500	✓	3500	x	x	x	x	x	xxx							x			
4	4	337	3000	✓	3000	x	xx	x	x	x	x				xx	x	x	x			
5	5	338	2500	✓	2500	xx	x	x	x	x	x				xx			x			
6	6	339	2000	✓	2000	x	xx	x	x	x	x				xx	x	x	x			
7	7	340	1500	✓	1500	x	x	x	x	x	x				xx	x	x	x			
8	8	341	1250	✓	1250	x	x	x	x	x	x				xx	x	x	x			
9	9	342	1000	✓	999	xx	xx	x	x	x	x				xx	x	x	x			
10	10	343	800	✓	800	x	x	x	x	x	x				xx	x	x	x			
11	11	344	600	✓	599	x	x	x	x	x	x				xx	x	x	x			
12	12	345	400	✓	400	x	x	xx	xx	x	x				xx	x	x	x			
13	13	346	300	✓	300	x	x	x		x	x				xx	x	x	x			
14	14	347	250	✓	250	x	x	x		x	xxx							x			
15	15	348	200	✓	200	x	x	x		x	x				xx	x	x	x			
16	16	349	175	✓	175	xx	x	x		x	x							x			
17	17	350	150	✓	150	x	x	x		x	x				xx	x	x	x			
18	18	351	125	✓	125	x	x	x		x	x							x			
19	19	352	100	✓	100	x	x	x		x	x				xx	x	x	x			
20	20	353	75	✓	75	x	x	x		x	x				xx			x			
21	21	354	50	✓	49	x	x	xx		x	x				xx	x	x	x			
22	22	355	25	✓	25	x	x	x		x	x				xx	x	x	x			
23	23	356	10	✓	10	x	x	x		x	x				xx	x	x	x			
24	24	357	5	✓	5	xx	x	x		x	x							x			

Ammonia products

http://www.pac

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

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

Time	UTC	Local
Start	1715	1015
Bottom	1828	
End	2005	

Positional Information

Lat:	49° 34.01	N
Lon:	138° 39.98	W

Start

Lat:	49° 33.99	N
Lon:	138° 39.99	W

Bottom

Lat:	49° 33.99	N
Lon:	138° 39.99	W

Extra comments:

Deep cast

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P20

Event #:

57

Ship:

Tully

UTC Date (dd mmm yyyy):

13 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC							
				✓			t	d										
1		358	300	✓	300	x			x									
2		359	200	✓	200	x	x	x	x									
3		360	175	✓	175	x	x	x	x x									
4		361	100	✓	100	x	x	x	x		x							
5		362	75	✓	75	x			x		x							
6		363	50	✓	50	x			x		x							
7		364	40	✓	40	x			x		x x							
8		365	30	✓	30	x			x		x							
9		366	25	✓	25	x			x		x							
10		367	20	✓	20	x x	x x	x x	x		x							
11		368	15	✓	15	x			x		x							
12		369	10	✓	10	x			x		x							
13		370	5	✓	5	x	x	x	x		x							
14		371	0	✓	2	x	x	x	x		x							
15		372	50 / M	✓	35						x x	x x						
16		373	20 / M	✓	25						x x	x x						
17		374	5	✓	5						x x	x x						
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 3966 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2109	1409
Bottom	2115	
End	2133	

Positional Information

Lat:	49 ° 33.99	N
Lon:	138 ° 39.98	W

Start

Bottom

Lat:	49 ° 33.99	N
Lon:	138 ° 39.98	W

End

Lat:	49 ° 33.99	N
Lon:	138 ° 39.99	W

Extra comments:
DMS cast - OUT-OF-ORDER

(-7, 15, 8, 9, 16, 18, 17, 14)

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

14 6 2015

2, 1, 3, 8, 4, 5, 6, 7

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P21 Event #: 57 Ship: Tully UTC Date (dd mmm/yyyy): 14 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC							
1	1	383	50 / Max	✓ 50	x		x x	x x							No Max
2	2	384	5	✓ 5	x	x	x x	x x							
3															
4															
5															
6															
7															
8															
9															
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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): MB

Bottom Depth: 3959 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0907	0207
Bottom	0940	
End	1038	

Positional Information

Start	Lat: 49 ° 37 98	N
	Lon: 139 ° 39 94	W

Bottom

Lat: 49 ° 38 00	N
Lon: 139 ° 39 90	W

End

Lat: 49 ° 37 98	N
Lon: 139 ° 39 86	W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P22 Event #: 59 Ship: Tully UTC Date (dd mmm yyyy): 14 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC							
1	1	385	50 / Max	✓ 51	x		x x	x x							no Max
2	2	386	5	✓ 5	x	x	x x	x x							
3															
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): MB

Bottom Depth: 3899 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	15 35	0835
Bottom	16 01	
End	16 46	

Positional Information
Start
Lat: 49 ° 41 95 N
Lon: 140 ° 39 95 W

Bottom
Lat: 49 ° 41 99 N
Lon: 140 ° 39 99 W

End
Lat: 49 ° 41 99 N
Lon: 140 ° 39 99 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P23

Event #:

63

Ship:

Tully

UTC Date (dd mmm yyyy):

14 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC	DIC	pH								
1	1	387	2000	✓	2000		x			x x x	x x x							
2	2	388	2000	✓			x			x x x	x x x							
3	3	389	2000	✓			x			x x x	x x x							
4	4	390	2000	✓			x			x x x	x x x							
5	5	391	2000	✓			x			x x x	x x x							
6	6	392	2000	✓			x											
7	7	393	2000	✓			x											
8	8	394	2000	✓			x											
9	9	395	2000	✓			x											
10	10	396	2000	✓			x											
11	11	397	2000	✓			x											
12	12	398	2000	✓			x											
13	13	399	2000	✓			x											
14	14	400	2000	✓			x											
15	15	401	2000	✓			x											
16	16	402	2000	✓			x											
17	17	403	2000	✓			x											
18	18	404	2000	✓			x											
19	19	405	2000	✓			x											
20	20	406	2000	✓			x											
21	21	407	2000	✓			x											
22	22	408	2000	✓			x											
23	23	409	50 (Max)	✓	30	x		x x	x x									
24	24	410	5	✓	5	x	x	x x	x x									

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

Bottom Depth:
4051 m
Transmisso Cleaned:
Y / N

Time	UTC	Local
Start	2138	1438
Bottom	2211	
End	2247	

Positional Information
Lat: 49 ° 45 95 N
Lon: 141 ° 39 97 W

Bottom
Lat: 49 ° 45.99 N
Lon: 141 ° 39.96 W

End
Lat: 49 ° 46 04 N
Lon: 141 ° 39.90 W

Extra comments:
CALIBRATION CAST

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P24 Event #: 65 Ship: Tully UTC Date (dd mmm yyyy): 15 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC									
1	1	411	50 / Max	✓	50	x		x x	x x								Very weak max?
2	2	412	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): DY

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

Time	UTC	Local
Start	0313	2013
Bottom		
End	0419	

Positional Information
Start
Lat: 49° 50.24 N
Lon: 142° 39.95 W

Bottom
Lat: 49° 50.27 N
Lon: 142° 40.02 W

End
Lat: 49° 50.25 N
Lon: 142° 40.19 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P25

Event #:

68

Ship:

Tully

UTC Date (dd mmm yyyy): 15 JUN 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC					
1	1	413	50 / (Max)	✓ 30	x		xx	xx					21 Max @ ~30
2	2	414	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): MS

Bottom Depth: 4149 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	08 43	0143
Bottom	09 18	
End	10 08	

Positional Information
 Start
 Lat: 49 ° 59 98 N
 Lon: 143 ° 36 26 W

Bottom
 Lat: 49 ° 59 98 N
 Lon: 143 ° 36 29 W

End
 Lat: 49 ° 59 98 N
 Lon: 143 ° 36 37 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P35 Event #: 70 Ship: Tully UTC Date (dd|mmm|yyyy): 15 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC							
1	1	415	50 // Max	✓	50	x		x x	x x						No Max
2	2	416	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: 4148 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1321	0621
Bottom	1355	
End	1430	

Positional Information
Start
Lat: 49 ° 59 89 N
Lon: 144 ° 18 22 W

Bottom
Lat: 49 ° 59 91 N
Lon: 144 ° 18 27 W

End
Lat: 49 ° 59 96 N
Lon: 144 ° 18 38 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: PA-009 Event #: 76 Ship: Tully UTC Date (dd mmm/yyyy): 16 6 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target	Confirmed	ONAr	Oxy	Salt	DIC											
			Pressure	✓ Pressure	UW	UW	UW	UW											
1	1	417	10	✓ 10	x x	x x	x												
2	4	418	5	✓ 5	x x	x x	x												
3	5	419	0	✓ 2.6	x x	x x	x												
4	2	420	10	✓ 10				x x											
5	3	421	5	✓ 5				x x											
6	6	422	0	✓ 2.6				x x											
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: 4219 m
Transmisso Cleaned: Y/N

Time	UTC	Local
Start	0007	1707
Bottom	0016	
End	0028	

Positional Information
Start
Lat: 50° 8.09 N
Lon: 144° 50.63 W

Bottom
Lat: 50° 8.09 N
Lon: 144° 50.69 W

End
Lat: 50° 8.07 N
Lon: 144° 50.68 W

Extra comments:
CTD to 500 m
OUT-OF-ORDER
1-4-5-2-3-6

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P26

Event #:

78

Ship:

Tully

UTC Date (dd mmm yyyy):

16 6 2015

Cruise ID:			2015-09		Station:		120		Event:		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120		120			
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Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): DY

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0219	1919
Bottom	0326	
End	0521	

Positional Information

Lat:	49° 59.99	N
Lon:	145° 0.00	W

Start

Lat:	49° 59.99	N
Lon:	145° 0.00	W

Bottom

Lat:	49° 59.99	N
Lon:	145° 0.00	W

End

Lat:	49° 59.99	N
Lon:	144° 59.99	W

Extra comments:

Deep cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P26 Event #: 79 Ship: Tully UTC Date (dd mmm yyyy): 16 June 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure		Niko gases									
1	1	447	200	✓ 200		x x									
2	2	448	175	✓ 176		x x									
3	3	449	150	✓ 150		x x									
4	4	450	125	✓ 125		x x									
5	5	451	110	✓ 110		x x									
6	6	452	95	✓ 95		x x									
7	7	453	80	✓ 80		x x									
8	8	454	70	✓ 71		x x									
9	9	455	65	✓ 65		x x									
10	10	456	60	✓ 60		x x									
11	11	457	55	✓ 55		x x									
12	12	458	50	✓ 51		x x									
13	13	459	45	✓ 45		x x									
14	14	460	40	✓ 41		x x									
15	15	461	35	✓ 35		x x									
16	16	462	25 30	✓ 30											
17	17	463	30	✓ 30		x x									
18	18	464	25	✓ 25		x x									
19	19	465	20	✓ 20		x x									
20	20	466	15	✓ 15		x x									
21	21	467	10	✓ 10		x x									
22	22	468	5	✓ 5		x x									
23	23	469	2	✓ 2.5		x x									
24	24	470	2	✓ 2.5											

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

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0652	2352
Bottom	0657	
End	0721	

Positional Information
Start
Lat: 50 ° 00 12 N
Lon: 144 ° 59 86 W

Bottom
Lat: 49 ° 59 99 N
Lon: 144 ° 59 80 W

End
Lat: 49 ° 59 91 N
Lon: 144 ° 59 41 W

Extra comments:
Niko's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: PA-008 Event #: 82 Ship: Tully UTC Date (dd mmm yyyy): 16 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed ✓ Pressure	ONAr UW	Oxy UW	Salt UW	DIC UW								
1	1	471	10	✓ 10	xx	xx	x									
2	4	472	5	✓ 5	xx	xx	x									
3	5	473	0	✓ 2.5	xx	xx	x									
4	2	474	10	✓ 10				xx								
5	3	475	5	✓ 5				xx								
6	6	476	0	✓ 2.5				xx								
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Profile type:
☒ ROS ☐ TRM ☐ X-Niskin ☐ other?
Watchkeeper(s): <u>MR</u>

Bottom Depth:	<u>4230</u> m
Transmisso Cleaned:	☒ Y ☐ N

Time	UTC	Local
Start	<u>1500</u>	<u>0800</u>
Bottom	<u>1505</u>	
End	<u>15</u>	

Positional Information
Start
Lat: <u>50</u> ° <u>02 26</u> N
Lon: <u>144</u> ° <u>53 64</u> W

Bottom
Lat: <u>50</u> ° <u>02 27</u> N
Lon: <u>144</u> ° <u>53 64</u> W

End
Lat: <u>50</u> ° <u>02 29</u> N
Lon: <u>144</u> ° <u>53 62</u> W

Extra comments:
CTD to <u>350</u> m
OUT-OF-ORDER
<u>1-4-5-2-3-6</u>

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P26 Event #: 85 Ship: Tully UTC Date (dd mmm yyyy): 16 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure													
1		477	3000	✓ 3000													
2		478	1500	✓ 1500													
3		479	1250	✓ 1250													
4		480	1250	✓ 1250													
5		481	1000	✓ 1000													
6		482	1000	✓ 1000													
7		483	800	✓ 800													
8		484	800	✓ 800													
9		485	600	✓ 600													
10		486	400	✓ 400													
11		487	200	✓ 200													
12		488	100	✓ 100													
13		489	50	✓ 50													
14		490	10	✓ 10													
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 4250 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2346	1646
Bottom	0038	
End	0138	

Positional Information

Start	Lat: 49 ° 59.99 N
	Lon: 144 ° 59.99 W
Bottom	Lat: 49 ° 59.99 N
	Lon: 144 ° 59.98 W
End	Lat: 49 ° 59.99 N
	Lon: 144 ° 59.99 W

Extra comments:
Céline's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P26 Event #: 86 Ship: Tully UTC Date (dd mmm yyyy): 17 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	UBC										
1		491	2000	✓ 2000	x										
2		492	2000	✓											
3		493	2000	✓											
4		494	2000	✓											
5		495	1000	✓ 1000	x										
6		496	1000	✓											
7		497	1000	✓											
8		498	1000	✓											
9		499	500	✓ 500	x										
10		500	500	✓											
11		501	500	✓											
12		502	500	✓											
13		503	10	✓ 10	x										
14		504	10	✓											
15		505	10	✓											
16		506	10	✓											
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0233	1935
Bottom	0324	
End	0425	

Positional Information
Start
Lat: 49° 59.99 N
Lon: 144° 59.98 W

Bottom
Lat: 49° 59.99 N
Lon: 144° 59.98 W

End
Lat: 49° 59.99 N
Lon: 144° 59.98 W

Extra comments:
Jade's cast

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P26

Event #:

87

Ship:

Tully

UTC Date (dd mmm/yyyy): 17 6 2015

Cruise ID:			2015-09		Station:		P26		Event #:		01		Ship:		Ferry:		Comments
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												
			Target Pressure	Confirmed Pressure	Plastics												
				✓													
1	1	507	Bot-10	✓	4317				x								
2	2	508	4000	✓	4000				x								
3	3	509	3500	✓	3500				x								
4	4	510	3000	✓	3000				x								
5	5	511	2500	✓	2500				x								
6	6	512	2000	✓	2000				x								
7	7	513	1500	✓	1500				x								
8	8	514	1250	✓	1250				x								
9	9	515	1000	✓	1000				x								
10	10	516	800	✓	800				x								
11	11	517	600	✓	600				x								
12	12	518	400	✓	400				x								
13	13	519	300	✓	300				x								
14	14	520	250	✓	249				x								
15	15	521	200	✓	200				x								
16	16	522	175	✓	175				x								
17	17	523	150	✓	150				x								
18	18	524	125	✓	125				x								
19	19	525	100	✓	100				x								
20	20	526	75	✓	75				x								overflowed vizal lost some
21	21	527	50	✓	50				x								
22	22	528	25	✓	25				x								
23	23	529	10	✓	10				x								
24	24	530	5	✓	5				x								

http://www.pac

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

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0456	2156
Bottom	0607	
End	0745	

Positional Information

Lat:	49 ° 59.99	N
Lon:	144 ° 59.98	W

Start

Lat:	49 ° 59.99	N
Lon:	144 ° 59.98	W

Bottom

Lat:	49 ° 59.99	N
Lon:	144 ° 59.98	W

End

Lat:	49 ° 59.99	N
Lon:	144 ° 59.98	W

Extra comments: Laundry off
Plastics cast
Took 2 control sample
left a sieve out on deck
while sampling.

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09

Station: P26

Event #: 89/90

Ship: Tully

UTC Date (dd mmm yyyy): 17 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments		
			Target	Confirmed	Nut-F	Sal	Chl	180	NO3	NH4	170	ONAr	DO	NH4			
			Pressure	✓ Pressure	IOS	IOS	IOS			incub							
1	1	531	Below ML	✓ 40		x						x x					
2	2	532	1%	✓ 35	x	x	x										
3	3	533	1%	✓ 35					x x x	x x	x			x x	x x		
4	4	534	15%	✓ 14	x	x	x		x x x	x x	x			x x	x x		
5	6	535	30%	✓ 7	x	x	x		x x x	x	x			x x	x x		
6	7	536	50%	✓ 4	x	x	x		x x x	x	x			x x	x x		
7	8	537	100%	✓ 3	x		x			x x x	x x x				x x		
8	9	538	100%	✓ 3					x x x			x x	x x	x x	x x		
9	5	539	in ML	✓ 10									x x	x x			
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth:	<u>4250</u>	m
Transmissio Cleaned:	☒ Y ☐ N	

Time	UTC	Local
Start	<u>1100</u>	<u>0400</u>
Bottom	<u>1109</u>	
End	<u>1118</u>	

Positional Information		
Start	Lat: <u>49 ° 59 99</u>	N
	Lon: <u>145 ° 00 00</u>	W

Bottom	Lat: <u>49 ° 59 99</u>	N
	Lon: <u>144 ° 59 99</u>	W

End	Lat: <u>50 ° 00 00</u>	N
	Lon: <u>145 ° 00 00</u>	W

Extra comments:
Amanda's cast
OUT-OF-ORDER
<u>1-4, 9, 5-8</u>

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P26 Event #: 91 Ship: Tully UTC Date (dd mmm yyyy): 17 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure			17O	DO	Sal						
							UW	UW	UW						
1	1	540	50	✓ 51			xx	xx	x						
2	2	541	25	✓ 26			xx	xx	x						
3	3	542	5	✓ 5			xx	xx	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: 4280 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1519	0819
Bottom	1522	
End	1529	

Positional Information

Lat:	49 °	59 99	N
Lon:	144 °	59 95	W

Start

Bottom

Lat:	50 °	00 00	N
Lon:	144 °	59 94	W

End

Lat:	50 °	00 01	N
Lon:	144 °	59 96	W

Extra comments:

Mariela's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P26 Event #: 94 Ship: Tully UTC Date (dd mmm yyyy): 17 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC	Phyto		17O	DO	Sal			
				✓			t	d							UW	UW		UW	
1		543	300	✓	300	x			x										
2		544	200	✓	200	x	x	x	x										
3		545	175	✓	175	x	x	x	xx										
4		546	100	✓	100	x	x	x	x		x								
5		547	75	✓	75	x			x		x								
6		548	50	✓	50	x			x		x								
7		549	40	✓	40	x			x		xx								
8		550	30	✓	30	x			x		x								
9		551	25	✓	25	x			x		x								
10		552	20	✓	20	xx	xx	xx	x		x								
11		553	15	✓	15	x			x		x								
12		554	10	✓	10	x			x		x								
13		555	5	✓	5	x	x	x	x		x								
14		556	0	✓	2	x	x	x	x		x								
15		557	50 (M)	✓	40						xx	xx							
16		558	20 (M)	✓	30						xx	xx							Max +10 (deeper)
17		559	5	✓	5						xx	xx	xxx						
18																			
19																			
20		560	200	✓	200									xx	xx	xx			
21		561	150	✓	150									xx	xx	xx			
22		562	100	✓	100									xx	xx	xx			
23																			
24																			

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): 77

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2059	1359
Bottom	2105	
End	2123	

Positional Information

Lat:	49° 59.94	N
Lon:	144° 59.93	W

Start
Bottom
End

Lat: 49° 59.93 N
Lon: 144° 59.92 W

Lat: 49° 59.93 N
Lon: 144° 59.89 W

Extra comments:
DMS and Mariela's cast
OUT-OF-ORDER
1-2-20-3-21-22-4-5-6-7-15-
16-18-19-13, 17, 14

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P7 Event #: 102 Ship: Tully UTC Date (dd mmm yyyy): 20 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC							
1	1	563	30 m	✓			xx	xx							
2	2	564	5	✓		x	xx	xx							
3															
4															
5															
6															
7															
8															
9															
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15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): MB/04

Bottom Depth: 2500 m

Transmisso Cleaned: ☒ / N

Time	UTC	Local
Start	1842	1142
Bottom	1915	
End	1950	

Positional Information

Start Lat: 48 ° 46.58 N

Start Lon: 128 ° 9.93 W

Bottom Lat: 48 ° 46.60 N

Bottom Lon: 128 ° 9.97 W

End Lat: 48 ° 46.57 N

End Lon: 128 ° 10.08 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P6

Event #:

103

Ship:

Tully

UTC Date (dd:mmm/yyyy):

20 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC					
1	1	565	30/Max	✓ 30	x		xx	xx					
2	2	566	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: 2541 m

Transmisso Cleaned:

Y / N

Time

UTC

Local

Start

2159

1459

Bottom

2233

End

2311

Positional Information

Start Lat: 48° 44.62 N

Lon: 127° 40.01 W

Bottom Lat: 48° 44.60 N

Lon: 127° 40.04 W

End Lat: 48° 44.57 N

Lon: 127° 40.00 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P5

Event #:

104

Ship:

Tully

UTC Date (dd/mm/yyyy): 21/6/2015

Comments

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials																	
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC														
1	1	567	30 / Max	✓ 40	x		xx	xx														
2	2	568	5	✓ 5	x	x	xx	xx														
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
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16																						
17																						
18																						
19																						
20																						
21																						
22																						
23																						
24																						

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

Bottom Depth: 2081 m
 Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0121	1821
Bottom	0156	
End	0233	

Positional Information

Start	Lat: 48° 41.53' N	Lon: 127° 10.00' W
-------	-------------------	--------------------

Bottom

Lat: 48° 41.53' N	Lon: 127° 10.12' W
-------------------	--------------------

End

Lat: 48° 41.53' N	Lon: 127° 10.17' W
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Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P4

Event #:

106

Ship:

Tully

UTC Date (dd mmm/yyyy):

28 6 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed ✓ Pressure	Oxy	Nut-F	Sal	CHL	HPLC	Niko	Celine NH4	DNA			
1		569	Bot-10	✓ 1321						1x11					
2		570	Bot-10	✓ 1321	x										
3		571	1250	✓ 1250	x x		x x								
4		572	1000	✓ 1000	x		x			x					
5		573	800	✓ 800	x										
6		574	600	✓ 600	x										
7		575	400	✓ 400	x										
8		576	200	✓ 200	x										
9		577	100	✓ 100	x										
10		578	75	✓ 75	x										
11		579	50	✓ 50	x	x						x			
12		580	25	✓ 25	x	x						x			
13		581	10	✓ 10	x	x						x			
14		582	5	✓ 5	x	x	x								
15		583	0	✓ 0		x		x x	x x						
16		584	0	✓ 2						x					
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): DY/MB

Bottom Depth: 1311 m

Transmisso Cleaned: 2/ N

Time	UTC	Local
Start	0539	2239
Bottom	0600	
End	0636	

Positional Information

Lat:	48° 38.99	N
Lon:	126° 39.97	W

Lat:	48° 38.99	N
Lon:	126° 40.02	W

Lat:	48° 38.94	N
Lon:	126° 40.04	W

Extra comments:

Cast at end of cruise, 2nd visit

Water Properties Group

Sampling Log

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

Cruise ID:

2015-09

Station:

P2

Event #:

108

Ship:

Tully

UTC Date (dd mmm yyyy): 21 Jun 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed Pressure	Oxy	Nut-F	CHL	HPLC								
1	1	585	Bot-10	✓	109	x	x									
2	2	586	100	✓	100	x	x									
3	3	587	75	✓	75	x	x									
4	4	588	50	✓	50	x x	x									
5	5	589	25	✓	25	x	x									
6	6	590	10	✓	10	x	x									
7	7	591	5	✓	5	x	x	x x	x x							
8	8	592	0	✓	2.1		x	x x	x x							
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 118 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0957	0257
Bottom	0959	
End	1007	

Positional Information

Start	Lat: 48 ° 35 99 N
	Lon: 126 ° 00 01 W

Bottom

Lat: 48 ° 35 99 N
Lon: 126 ° 00 01 W

End

Lat: 48 ° 35 97 N
Lon: 125 ° 59 77 W

Extra comments:

Deep cast + Céline?

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: LC01 Event #: 113 Ship: Tully UTC Date (dd mmm yyyy): 21 JUN 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure		Nut-F	CHL	HPLC							
1	1	593	0	✓ 26		x	xx	xx							+ 1 L For N ₂ O
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 95 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1421	0721
Bottom	1422	
End	1425	

Positional Information
Start
Lat: 48 ° 50.92 N
Lon: 125 ° 27.65 W

Bottom
Lat: 48 ° 50.91 N
Lon: 125 ° 27.63 W

End
Lat: 48 ° 50.89 N
Lon: 125 ° 27.62 W

Extra comments:

Water Properties Group

Sampling Log

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

Cruise ID: 2015-09 Station: P1 Event #: 114 Ship: Tully UTC Date (dd|mmm|yyyy): 21|JUN|2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials											Comments	
			Target Pressure	Confirmed ✓ Pressure		Nut-F	Sal	CHL	HPLC	Niko Ben	Nat	Oxy UVic	ONAr UVic	DNA UBC			
1	1	594	50	✓	50									x			
2	2	595	25	✓	25									x			
3	3	596	10	✓	10									x			
4	4	597	5	✓	5		x					xx	xx				
5	5	598	0	✓								xx	xx				
6	6	599	0	✓							x						
7	7	600	0	✓						x							
8	8	601	0	✓		x		xx	xx							FLUO: 1.5	
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: 135 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1607	0907
Bottom	1609	
End	1616	

Positional Information
Start
Lat: 48 ° 34 44 N
Lon: 125 ° 30 07 W

Bottom
Lat: 48 ° 34 43 N
Lon: 125 ° 30 08 W

End
Lat: 48 ° 34 43 N
Lon: 125 ° 30 12 W

Extra comments:
Cast at end of cruise, 2nd visit