

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P20

Event #:

76

Ship:

Tully

UTC Date (dd|mmm|yyyy): 26 08 15

			Rosette Operation		Samples Taken / Sampler's Initials								Comments									
Niskin #	Firing #	Sample #	Target	Confirmed	Sal	Nut-fr	Fe	Fe														
			Pressure	✓			Pressure	filt													unfilt	
1		636	75			x	x	x	x													
2		637	40					x	x													
3		638	10					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):

KS HM

Bottom Depth: 3563 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	14:45	7:45
Bottom	14:57	7:57
End	15:11	8:11

Positional Information

Start	Lat: 49 ° 34.59 N
	Lon: 138 ° 40.53 W

Bottom	Lat: 49 ° 34.11 N
	Lon: 138 ° 40.97 W

End	Lat: 49 ° 34.08 N
	Lon: 138 ° 40.03 W

Extra comments:

Go-flo 75

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P20

Event #:

78

Ship:

Tully

UTC Date (dd mmm yyyy):

26 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt									
1		639	100		x	x	x x	x x									
2		640	50				x	x									
3		641	15				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): KS HM

Bottom Depth: 3960 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1845	0850
Bottom	1606	0806
End	1616	0946

Positional Information

Lat:	49 °	34.09	N
Lon:	138 °	39.93	W

Bottom

Lat:	49 °	34.05	N
Lon:	138 °	40.01	W

End

Lat:	49 °	34.04	N
Lon:	138 °	40.02	W

Extra comments:

Go-flo 100

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P20 Event #: 79 Ship: Tully UTC Date (dd mmm yyyy): 26 0 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments				
			Target	Confirmed	OXY	Sal	Nut-F	Nut-C	DIC	pH			Gases	DNA	SAGs	NH4			
			Pressure	✓ Pressure	SR/MS	MB	SA/MA	SP	MS/MS	GC			MS/MS	GC	MR	GC/MS	MS/MS		
1		642	Bot-10	✓ 4015	x		x	x	x	x			xx	x	x	x			
2		643	3500	✓	x	x	x	x	xx	x			xx			x			
3		644	3500	✓	x	x	x	x	x	xxx						x			
4		645	3000	✓	x	xx	x	x	x	x			xx	x	x	x			
5		646	2500	✓	xx	x	x	x	x	x			xx			x			
6		647	2000	✓	x	xx	x	x	x	x			xx	x	x	x			
7		648	1500	✓	x	x	x	x	x	x			xx	x	x	x			DIC MAY HAVE BEEN FROM #6
8		649	1250	✓	x	x	x	x	x	x			xx	x	x	x			
9		650	1000	✓	xx	xx	x	x	x	x			xx	x	x	x			
10		651	800	✓	x	x	x	x	x	x			xx	x	x	x			
11		652	600	✓	x	x	x	x	x	x			xx	x	x	x			
12		653	400	✓ 400	x	x	xx	xx	x	x			xx	x	x	x			
13		654	300	✓ 300	x	x	x		x	x			xx	x	x	x			
14		655	250	✓ 250	x	x	x		x	xxx						x			
15		656	200	✓ 200	x	x	x		x	x			xx	x	x	x			
16		657	175	✓ 175	xx	x	x		x	x						x			
17		658	150	✓ 150	x	x	x		x	x			xx	x	x	x			
18		659	125	✓ 125	x	x	x		x	x						x			
19		660	100	✓ 100	x	x	x		x	x			xx	x	x	x			
20		661	75	✓ 75	x	x	x		x	x			xx			x			
21		662	50	✓ 50	x	x	xx		x	x			xx	x	x	x			
22		663	25	✓ 25	x	x	x		x	x			xx	x	x	x			
23		664	10	✓ 10	x	x	x		x	x			xx	x	x	x			
24		665	5	✓ 5	xx	x	x		x	x						x			

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

Bottom Depth: 3963 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1626	0926
Bottom	1736	1036
End	1915	1215

Positional Information

Lat:	49 ° 34.01	N
Lon:	138 ° 40.06	W

Start

Lat:	49 ° 34.10	N
Lon:	138 ° 40.16	W

Bottom

Lat:	49 ° 34.03	N
Lon:	138 ° 40.06	W

Extra comments:

Deep cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P20 Event #: 81 Ship: Tully UTC Date (dd mmm yyyy): 26 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt									
1		666	300		x	x	x x	x x									
2		667	200				x	x									
3		668	150				x	x									
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
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15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 3962 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2125	14:25
Bottom		14:45
End	2205	15:05

Positional Information
Start
Lat: 49 ° 34 42 N
Lon: 138 ° 39 75 W

Bottom
Lat: 49 ° 34 43 N
Lon: 138 ° 39 79 W

End
Lat: 49 ° 34 45 N
Lon: 138 ° 39 88 W

Extra comments:
Go-flo 300

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P20 Event #: 82 Ship: Tully UTC Date (dd mmm yyyy): 26 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed ✓ Pressure	DMS	DMSP	DMSP	Nut-F		Chl	HPLC	Nd				
1		669	300	✓ 300	x			x					valve open			
2		670	200	✓ 200	x	x	x	x								
3		671	175	✓ 175	x	x	x	x								
4		672	100	✓ 100	x	x	x	x		x						
5		673	75	✓ 75	x			x		x						
6		674	50	✓ 50	x			x		x x						
7		675	40	✓ 40	x			x		x						
8		676	30	✓ 30	x			x		x						
9		677	25	✓ 25	x			x		x						
10		678	20	✓ 20	x x	x x	x x	x		x						
11		679	15	✓ 15	x			x		x						
12		680	10	✓ 10	x			x x		x						
13		681	5	✓ 5	x	x	x	x		x						
14		682	0	✓ 2	x	x	x	x		x						
15		683	50 (M)	✓ 50						x x	x x					
16		684	40 (M)	✓ 40						x x	x x					
17		685	5	✓ 5						x x	x x					
18		686	$\sigma = 27.22$	✓ 740								x	$\sigma = 27.22$ was at 759 at P17 740			
19		687	$\sigma = 26.52$	✓ 153								x	$\sigma = 26.52$ was at 171 at P17 150			
20		688	$\sigma = 25.69$	✓ 87								x	$\sigma = 25.69$ was at 96 at P17 90			
21		689	5	✓ 5								x				
22																
23																
24																

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

Bottom Depth: 3963 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	22:11	15:11
Bottom	22:31	15:31
End	23:09	16:09

Positional Information

Lat:	49 ° 34.46	N
Lon:	138 ° 39.87	W

Start

Bottom

End

Lat: 49 ° 34.49 N
Lon: 138 ° 39.93 W

Lat: 49 ° 34.43 N
Lon: 138 ° 39.90 W

Extra comments:
DMS & Aram cast
OUT-OF-ORDER
18-1-2-3-19-4-20-5
6-15-7-16-8-9-10

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P20

Event #: 83

Ship:

Tully

UTC Date (dd mmm yyyy):

26 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt									
1		690	800		x	x	x x	x x									
2		691	600				x	x									
3		692	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 X-Niskin other?

Watchkeeper(s):

K8

Bottom Depth: 3962 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 23:15 16:15

Bottom 23:46 16:46

End 00:20 17:20

Positional Information

Start Lat: 49 ° 34.41 N

Lon: 138 ° 39.87 W

Bottom Lat: 49 ° 34.50 N

Lon: 138 ° 39.93 W

End Lat: 49 ° 34.65 N

Lon: 138 ° 39.98 W

Extra comments:

Go-flo 800

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P24 Event #: 85 Ship: Tully UTC Date (dd:mmm:yyyy): 27 8 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments			
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC		AML								
1		693	2000	✓			x x			x								
2		694	2000	✓						x								
3		695	2000	✓						x								
4		696	2000	✓						x								
5		697	2000	✓						x								
6		698	2000	✓						x								
7		699	2000	✓						x								
8		700	2000	✓						x								
9		701	2000	✓						x								
10		702	2000	✓						x								
11		703	2000	✓						x								
12		704	2000	✓						x								
13		705	2000	✓						x								
14		706	2000	✓						x								
15		707	2000	✓						x								
16		708	2000	✓						x								
17		709	2000	✓						x								
18		710	2000	✓						x								
19		711	2000	✓						x								
20		712	2000	✓						x								
21		713	2000	✓						x								
22		714	2000	✓						x								
23		715	50 (Max)	✓	38	x		x x	x x									
24		716	5	✓		x	x	x x	x x									

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

Bottom Depth: 3985 m
Transmisso Cleaned: ✓ i N

Time	UTC	Local
Start	1715	1015
Bottom	1751	
End	1828	

Positional Information

Lat:	49 ° 50.23	N
Lon:	142 ° 39.96	W

Start

Bottom

End

Lat: 49 ° 50.19 N
Lon: 142 ° 39.99 W

Lat: 49 ° 50.22 N
Lon: 142 ° 39.96 W

Extra comments:
IOS and water for AML

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P25 Event #: 90 Ship: Tully UTC Date (dd|mmm|yyyy): 27 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials						K5/MR						Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC	pH	DIC	DIC	DIC	DIC	DIC			
										HgCl	NoHgC	CuCl-1	CuCl-5	CuCl-10			
					MG	MG/ML	MG	MG		GC	HgCl	NoHgC	CuCl-1	CuCl-5	CuCl-10		
1	1	717	2000	✓ 2000		x				x x x	x x x	x x x					
2	2	718	2000	✓ 2000		x				x x x	x x x		x x x				final conc. 1.34uM CuCl ₂
3	3	719	2000	✓ 2000		x				x x x	x x x			x x x			final conc. 4.8 uM CuCl ₂
4	4	720	2000	✓ 2000		x				x x x	x x x				x x x		final conc. 9.6 uM CuCl ₂
5	5	721	2000	✓ 2000		x				x x x	x x x						
6	6	722	2000	✓ 2000		x											
7	7	723	2000	✓ 2000		x											
8	8	724	2000	✓ 2000		x											
9	9	725	2000	✓ 2000		x											
10	10	726	2000	✓ 2000		x											
11	11	727	2000	✓ 2000		x											
12	12	728	2000	✓ 2000		x											
13	13	729	2000	✓ 2000		x											
14	14	730	2000	✓ 2000		x											
15	15	731	2000	✓ 2000		x											
16	16	732	2000	✓ 2000		x											
17	17	733	2000	✓ 2000		x											Sal calib Container A
18	18	734	2000	✓ 2000		x											Sal calib Container A
19	19	735	2000	✓ 2000		x											Sal calib Container A
20	20	736	2000	✓ 2000		x											Sal calib Container C
21	21	737	2000	✓ 2000		x											Sal calib Container C
22	22	738	2000	✓ 2000		x											Sal calib Container C
23	23	739	50 / Max	✓ 50	x	x	x x	x x									
24	24	740	5	✓ 5	x	x	x x	x x									

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

Bottom Depth: 4145 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2307	16:07
Bottom	2341	16:41
End	0017	17:17

Positional Information
Start
Lat: 50 ° 0.06 N
Lon: 143 ° 36.30 W

Start

Bottom
Lat: 50 ° 0.04 N
Lon: 143 ° 36.29 W

Bottom

End
Lat: 50 ° 0.05 N
Lon: 143 ° 36.41 W

End

Extra comments:
Calibration cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P26 Event #: 91 Ship: Tully UTC Date (dd mmm yyyy): 28 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt									
1		741	75		x	x	xx	xx									
2		742	40				x	x									
3		743	10				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): KS SP

Bottom Depth: 4251 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	06:30	23:30
Bottom	06:46	23:46
End	06:54	23:54

Positional Information
Start
Lat: 49 ° 59.92 N
Lon: 144 ° 59.91 W

Bottom
Lat: 49 ° 59.96 N
Lon: 144 ° 59.91 W

End
Lat: 49.50 ° 00.07 N
Lon: 144 ° 59.92 W

Extra comments:
Go-flo 75

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P26

Event #:

92

Ship:

Tully

UTC Date (dd mmm/yyyy): 28 8 15

Cruise ID: 2015-10			Station: F20		Event ID: 1												Comments
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												
			Target Pressure	Confirmed Pressure	Cs												
1		744	500	✓		x											
2		745	500	✓		x											
3		746	500	✓		x											
4		747	500	✓		x											
5		748	500	✓		x											
6		749	500	✓		x											
7		750	400	✓		x											
8		751	400	✓		x											
9		752	400	✓		x											
10		753	400	✓		x											
11		754	400	✓		x											
12		755	400	✓		x											
13		756	300	✓		x											
14		757	300	✓		x											
15		758	300	✓		x											
16		759	300	✓		x											
17		760	300	✓		x											
18		761	300	✓		x											
19		762	200	✓		x											
20		763	200	✓		x											
21		764	200	✓		x											
22		765	200	✓		x											
23		766	200	✓		x											
24		767	200	✓		x											

http://www.pao

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): H.M / R.H

Bottom Depth: 4250 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0704	0004
Bottom	0713	
End	0727	

Positional Information

Start	Lat: 50 ° 08 . 03 N
	Lon: 144 ° 59 . 95 W

Bottom	Lat: 50 ° 00 . 01 N
	Lon: 144 ° 59 . 98 W

End	Lat: 50 ° 00 . 02 N
	Lon: 145 ° 00 . 01 W

Extra comments:

Deep Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P26

Event #:

93

Ship:

Tully

UTC Date (dd mmm/yyyy):

28 08 15

Comments

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials														
			Target Pressure	Confirmed Pressure	Sal	Nut-fr	Fe filt	Fe unfilt											
1		768	100		x	x	x x	x x											
2		769	50				x	x											
3		770	15	25			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): KS HM

Bottom Depth: 4250 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	7:40	0:40
Bottom		0:57
End	8:10	1:10

Positional Information

Start

Lat: 50 ° 00.00 N

Lon: 114 ° 59.85 W

Bottom

Lat: 50 ° 00.05 N

Lon: 115 ° 00.10 W

End

Lat: 50 ° 50.07 N

Lon: 115 ° 00.06 W

Extra comments:

Go-flo 100

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P26 Event #: 94 Ship: Tully UTC Date (dd mmm yyyy): 28 8 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	Niko gases												
1		771	250	✓		x x											
2		772	200	✓		x x											
3		773	175	✓		x x											
4		774	150	✓		x x											
5		775	115	✓		x x											
6		776	95	✓		x x											
7		777	80	✓		x x											
8		778	70	✓		x x											
9		779	65	✓		x x											
10		780	60	✓		x x											
11		781	55	✓		x x											
12		782	50	✓		x x											
13		783	45	✓		x x											
14		784	40	✓		x x											
15		785	40	✓		x x											
16		786	35	✓		x x											
17		787	30	✓		x x											
18		788	25	✓		x x											
19		789	20	✓		x x											
20		790	15	✓		x x											
21		791	10	✓		x x											
22		792	5	✓		x x											
23		793	2	✓		x x											
24		794	2	✓		x x											

Version: 25 Nov 2011

Transmissometer to be cleaned before each use

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

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

Time	UTC	Local
Start	0820	0120
Bottom	0825	
End	0943	

Positional Information
Start
Lat: 50 ° 00 . 01 N
Lon: 145 ° 00 . 02 W

Bottom
Lat: 50 ° 00 . 00 N
Lon: 145 ° 00 . 02 W

End
Lat: 50 ° 00 . 01 N
Lon: 144 ° 59 . 95 W

Extra comments:
Niko's cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P26 Event #: 95 Ship: Tully UTC Date (dd mmm yyyy): 28 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒	Pressure	Sal	Nut-fr	Fe filt	Fe unfilt								
1		795	300			x	x	x x	x x								
2		796	200					x	x								
3		797	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): RS HM

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	09:05	2:05
Bottom	09:19	2:19
End	09:40	2:40

Positional Information

Lat:	49 ° 59 98	N
Lon:	145 ° 00 00	W

▼

Lat:	450 ° 00.01	N
Lon:	144 ° 59.95	W

▼

Lat:	50 ° 00.03	N
Lon:	144 ° 59 96	W

Extra comments:
Go-flo 300

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10

Station: P26

Event #: 96

Ship: Tully

UTC Date (dd mmm yyyy): 28 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments			
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt								
1		798	800		x	x	x x	x x								
2		799	600				x	x								
3		800	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	X-Niskin	other?
Watchkeeper(s):	KS / HM			

Bottom Depth:	4250	m
Transmisso Cleaned:	Y	/ N

Time	UTC	Local
Start	10:15	3:15
Bottom	10:39	3:39
End	11:10	4:10

Start	Positional Information		
	Lat:	49 ° 59.99	N
Bottom	Lon:	144 ° 59.92	W
	▼		
End	Lat:	50 ° 00.01	N
	Lon:	144 ° 59.96	W
	▼		
	Lat:	50 ° 00.00	N
	Lon:	144 ° 59.98	W

Extra comments:
Go-flo 800

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P26

Event #: 98

Ship: Tully

UTC Date (dd mmm yyyy): 28 8 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	18O	NO3	NH4	17O	ONAr	DO	NH4	
				✓	IOS	IOS	IOS			incub					
1	2	801	Below ML		38		x				xx				
2	1	802	1%		50	x	x	x	xxx	xx	x		xx	xx	
3	3	803	15%		9	x	x	x	xxx	xx	x		xx	xx	
4	5	804	30%		4	x	x	x	xxx	x	x		xx	xx	
5	6	805	50%		3	x	x	x	xxx	x	x		xx	xx	
6	7	806	100%		2.5	x		x		xxx	xxx			xx	
7	8	807	100%		2.5				xxx		xx	xx	xx		
8	4	808	in ML		5							xx	xx		
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/LT

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

	Time	UTC	Local
Start		1215	0515
Bottom		1218	
End		1226	

Positional Information

Lat:	50 ° 00 . 01	N
Lon:	144 ° 59 . 93	W

Start

Bottom

End

Lat: 50 ° 00 . 00 N
Lon: 144 ° 59 . 95 W

Lat: 49 ° 59 . 99 N
Lon: 145 ° 00 . 01 W

Extra comments:

Lianna's cast

OUT-OF-ORDER

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

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P26

Event #:

99

Ship:

Tully

UTC Date (dd mmm yyyy): 28 AUG 2015

Cruise ID: 2015-10			Station: P26	Event #: 121	Ship: R/V														Comments
Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										DNA	SAGs	Céline		
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	Alk	pH	Nut	MOX	Gases					
				✓		H17/H17	H17	255	H17	K6/KR	K5/KR	GC	250	Niko			NH4		
1	1	809	Bot-10	✓	4306	x		xx	x	x	x	x	H17	x	xx	x	x	x	
2	2	810	4000	✓		x	x	xx	x	x	x	x	x	x	xx	x	x	x	
3	3	811	3500	✓		x	xx	xxxx	xx	xx	x	x	x					x	
4	4	812	3000	✓		x	x	xx	x	x	x	x	x	x	xx	x	x	x	
5	5	813	2500	✓		xx	xx	xx	x	x	x	xxx	x					x	
6	6	814	2000	✓		x	x	xx	x	x	x	x	x	x	xx	x	x	x	
7	7	815	1500	✓		x	x	xx	x	x	x	x	x	x	xx	x	x	x	
8	8	816	1250	✓		x	x	xx	x	x	x	x	x	x	xx	x	x	x	
9	9	817	1000	✓		x	x	xx	x	x	x	x	x	x	xx	x	x	x	
10	10	818	800	✓		x	x	xx	x	x	x	x		x	xx	x	x	x	
11	11	819	600	✓		x	x	xx	x	x	x	x		x	xx	x	x	x	
12	12	820	400	✓		x	x	xx	x	x	x	x		x	xx	x	x	x	
13	13	821	300	✓		x	x	xx		x	x	x		x	xx	x	x	x	
14	14	822	250	✓		xx	x	xx		x	x	x						x	
15	15	823	200	✓		x	x	xx		x	x	x		x	xx	x	x	x	
16	16	824	175	✓		x	x	xxxx		x	x	x						x	
17	17	825	150	✓		x	x	xx		x	x	x		x	xx	x	x	x	
18	18	826	125	✓		x	x	xx		x	x	x						x	
19	19	827	100	✓		x	x	xx		x	x	x		x	xx	x	x	x	
20	20	828	75	✓		xx	x	xx		x	x	xxx		x	xx			x	
21	21	829	50	✓		x	x	xx		x	x	x		x	xx	x	x	x	
22	22	830	25	✓		x	x	xx		x	x	x		x	xx	x	x	x	
23	23	831	10	✓		x	x	xx		x	x	x		x	xx	x	x	x	
24	24	832	5	✓		xx	x	xx		x	x	x						x	

http://www.pac.d

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): M0/HM

Bottom Depth: 4248 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 1406 0706

Bottom 1527

End 1708

Positional Information

Lat: 50° 00.02 N

Lon: 145° 00.02 W

Lat: 50° 00.00 N

Lon: 144° 59.97 W

Lat: 50° 00.00 N

Lon: 145° 00.05 W

Extra comments:

Deep cast

Pres on deck B4: 0.75

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P26

Event #:

101

Ship:

Tully

UTC Date (dd|mmm|yyyy): 28 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure		Cs									
1	1	833	150	✓ 150		x									
2	2	834	150	✓ 150		x									
3	3	835	150	✓ 150		x									
4	4	836	150	✓ 150		x									
5	5	837	150	✓ 150		x									
6	6	838	150	✓ 150		x									
7	7	839	100	✓ 100		x									
8	8	840	100	✓ 100		x									
9	9	841	100	✓ 100		x									
10	10	842	100	✓ 100		x									
11	11	843	100	✓ 100		x									
12	12	844	100	✓ 100		x									
13	13	845	50	✓ 50		x									
14	14	846	50	✓ 50		x									
15	15	847	50	✓ 50		x									
16	16	848	50	✓ 50		x									
17	17	849	50	✓ 50		x									
18	18	850	50	✓ 50		x									
19	19	851	5	✓ 5		x									
20	20	852	5	✓ 5		x									
21	21	853	5	✓ 5		x									
22	22	854	5	✓ 5		x									
23	23	855	5	✓ 5		x									
24	24	856	5	✓ 5		x									

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

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1856	1156
Bottom	1901	1201
End	1911	1211

Positional Information
Start
Lat: 49 ° 59.99 N
Lon: 145 ° 0.10 W

Bottom
Lat: 50 ° 0.03 N
Lon: 145 ° 0.07 W

End
Lat: 50 ° 0.07 N
Lon: 145 ° 0.03 W

Extra comments:
Shallow Cesium cast

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P26

Event #: 102

Ship: Tully

UTC Date (dd mmm yyyy): 28 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials				Chl	HPLC	Phyto					Comments
			Target Pressure	Confirmed Pressure	DMS	DMSP	DMSP	Nut-F								
				✓	ms/m	ms/m	ms/m	ms/m	sp/m	sp/m	ml					
1	1	876	300	✓	300	x		x								valve top open
2	2	877	200	✓	200	x	x	x	x							top valve open
3	3	878	175	✓	175	x	x	x	x							
4	4	879	100	✓	100	x	x	x	x	x						
5	5	880	75	✓	75	x		xx	x							10 below chl max
6	6	881	50	✓	50	x		x	xx	xx						chl max
7	7	882	40	✓	40	x		x	xx	xx						
8	8	883	30	✓	30	x		x	x							
9	10	884	25	✓	25	x		x	x							
10	11	885	20	✓	20	xx	xx	xx	x	xx						
11	12	886	15	✓	15	x		x	x							
12	14	887	10	✓	10	x		x	x							
13	15	888	5	✓	5	x	x	x	x							
14	17	889	0	✓	3	x	x	x	x							
15	9	890	30 / M	✓	30				xx	xx						
16	13	891	15 / M	✓	15				xx	xx						
17	16	892	5	✓	5				xx	xx	xxx					
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 4187 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1941	1241
Bottom	1946	1246
End	2011	1311

Positional Information
 Start
 Lat: 50 ° 0.05 N
 Lon: 144 ° 59.97 W

Bottom
 Lat: 50 ° 0.05 N
 Lon: 145 ° 0.00 W

End
 Lat: 50 ° 0.04 N
 Lon: 144 ° 59.99 W

Extra comments:
 DMS cast - OUT-OF-ORDER

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P26

Event #:

103

Ship:

Tully

UTC Date (dd mmm yyyy):

28 AUG 2015

			Rosette Operation		Samples Taken / Sampler's Initials										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	UBC				H2S	170x						
1	1	857	2000		1000	x					Fired at 1000 by operator error. - not needed anyway SP					Not sampled due to high seas. changed max depth to 1000m
2	2	858	2000		1000											
3		859	2000													
4		860	2000							x						
5	3	861	1000	✓	1000	x										
6	4	862	1000	✓	1000											
7	5	863	1000	✓	1000											
8	6	864	1000	✓	1000											
9	10	865	500	✓	500	x										
10	11	866	500	✓	500											
11	12	867	500	✓	500											
12	13	868	500	✓	500											
13	15	869	10	✓	10	x										
14	16	870	10	✓	10											
15	17	871	10	✓	10											
16	18	872	10	✓	10											
17	7	873	1500	1000 ✓	1000				x							
18	8	874	4000	800 ✓	800				x							
19	9	875	600	✓	600				x							
20	14	893	400	✓	400					x						
21	19	894	10	✓	10											
22	20	895	4	✓	4											
23	21	896	4	✓	4											
24																

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

SP

Bottom Depth:

4252 m

Transmisso Cleaned:

Y / N

Time

UTC

Local

Start

2106 1406

Bottom

2123 1423

End

2148

Positional Information

Start

Lat: 50 ° 0.11 N

Lon: 145 ° 0.04 W

Bottom

Lat: 50 ° 0.10 N

Lon: 145 ° 0.03 W

End

Lat: 50 ° 0.13 N

Lon: 145 ° 0.05 W

Extra comments:

Jade's & Niko's cast

OUT-OF-ORDER

1-4; 17-18; 5-8; 19; 9-16, 20

CTD to 4005 dbar

Wat+

Sampling Log

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

Cruise ID:

2015-10

Station:

P22

Event #:

106

Ship:

Tully

UTC Date (dd mmm yyyy):

30 08 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	Sal	Chl	HPLC									
23 1	1	897	50 / Max	✓	45	x		x x	x x								original
24 2	2	898	5	✓		x	x	x x	x x								rosette start
3																	had these 2
4																	bottles triggered
5																	at 23:24
6																	Log sheet changed
7																	due to change
8																	in sampling max
9																	depth due to
10																	weather. (SP)
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth:	3895	m
Transmisso Cleaned:	Y / N	

Time	UTC	Local
Start	0131	1831
Bottom	0150	1850
End	0212	1912

Positional Information			
Start	Lat:	49 ° 42.01	N
	Lon:	140 ° 39.85	W

Bottom	Lat:	49 ° 42.01	N
	Lon:	140 ° 39.85	W

End	Lat:	49 ° 42.01	N
	Lon:	140 ° 39.87	W

Extra comments:

CTD to 1005 dbar

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P21 Event #: 107 Ship: Tully UTC Date (dd mmm yyyy): 30 AUG 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	Nut-F	Sal	Chl	HPLC		Cs					
1	1	913	150	✓ 150						x					
2	2	914	150	✓ 150						x					
3	3	915	150	✓ 150						x					
4	4	916	150	✓ 150						x					
5	5	917	150	✓ 150						x					
6	6	918	150	✓ 150						x					
7	7	919	100	✓ 100						x					
8	8	920	100	✓ 100						x					
9	9	921	100	✓ 100						x					
10	10	922	100	✓ 100						x					
11	11	923	100	✓ 100						x					
12	12	924	100	✓ 100						x					
13	13	925	50	✓ 50						x					
14	14	926	50	✓ 50						x					
15	15	927	50	✓ 50						x					
16	16	928	50	✓ 50						x					
17	17	929	50	✓ 50						x					
18	18	930	50	✓ 50	x		XX	XX		x					
19	19	931	5	✓ 5						x					
20	20	932	5	✓ 5						x					
21	21	933	5	✓ 5						x					
22	22	934	5	✓ 5						x					
23	23	935	5	✓ 5						x					
24	24	936	5	✓ 5	x	x	XX	XX		x					

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

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

Time	UTC	Local
Start	0553	2253
Bottom	0556	2256
End	0605	2305

Positional Information

Lat:	49 ° 38.20	N
Lon:	139 ° 40.15	W

Start

Bottom

End

Lat: 49 ° 38.24 N
Lon: 139 ° 40.14 W

Lat: 49 ° 38.29 N
Lon: 139 ° 40.18 W

Extra comments:
2nd half of Cesium cast
only completed 2 of
2 due to weather.
#1 cast not done

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P13 Event #: 111 Ship: Tully UTC Date (dd mmm yyyy): 31 8 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials										Comments
			Target Pressure	Confirmed Pressure	SAC	AML	Niko		Nd						
1		937	$\sigma = 27.22$	✓ 780					x						$\sigma = 27.22$ was at 723 at P13 on the way out
2		938	$\sigma = 26.52$	✓ 200					x						$\sigma = 26.52$ was at 188 at P13 on the way out → 200
3		939	$\sigma = 25.69$	✓ 110					x						$\sigma = 25.69$ was at 99 at P13 on the way out
4		940	5						x						
5		941	5	✓ 10			x								
6		942	3000	✓ 3000			x								Make sure Niko goes first
7		943	2000	✓	xx	x									DID NOT GET TAKEN
8		944	2000	✓		x									
9		945	2000	✓		x									
10		946	2000	✓		x									
11		947	2000	✓		x									
12		948	2000	✓		x									
13		949	2000	✓		x									
14		950	2000	✓		x									
15		951	2000	✓		x									
16		952	2000	✓		x									
17		953	2000	✓		x									
18		954	2000	✓		x									
19		955	2000	✓		x									
20		956	2000	✓		x									
21		957	2000	✓		x									
22		958	2000	✓		x									
23		959	2000	✓		x									
24		960	2000	✓		x									

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

Bottom Depth: 3013 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1500	0800
Bottom	1557	
End	165	

Positional Information

Lat:	49 ° 02.63	N
Lon:	131 ° 39.98	W

Start

Lat:	49 ° 02.60	N
Lon:	131 ° 39.96	W

Bottom

Lat:	49 ° 02.61	N
Lon:	131 ° 39.99	W

End

Extra comments:
Aram's cast, return
Hopefully CTD to bottom-10
OUT-OF-ORDER
6-24; 1-2-3-4-5 1,23,5,4

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P4 Event #: 113 Ship: Tully UTC Date (dd mmm yyyy): 01 9 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments	
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt						
1		961	100		x	x	xx	xx						
2		962	75				x	x						
3		963	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 ☒ Niskin other?
Watchkeeper(s): K.S. H/M

Bottom Depth: _____ m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	15:00	18:00
Bottom	15:11	08:11
End	15:18	08:18

Positional Information
Start
Lat: ° N
Lon: ° W

Bottom
Lat: 48 ° 38.74 N
Lon: 126 ° 38.81 W

End
Lat: 48 ° 38.66 N
Lon: 126 ° 39.82 W

Extra comments:
Go-flo 100
P4-return

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P4 Event #: 114 Ship: Tully UTC Date (dd mmm yyyy): 1 09 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials								Comments	
			Target Pressure	Confirmed ✓ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt						
1	10	964	300		x	x	1x 500um xx	1x 500um xx					1 x 500um 37	
2	10	965	200				x	x						
3	10	966	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 ☒ Niskin other?
Watchkeeper(s): KS. HLM

Bottom Depth: 320 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1540	0840
Bottom	1552	0852
End	1610	0908

Positional Information
Start
Lat: 48 ° 39 05 N
Lon: 126 ° 39 73 W

Start

Bottom

Lat: 48 ° 38 97 N
Lon: 126 ° 39 68 W

End

Lat: 48 ° 38 98 N
Lon: 126 ° 39 70 W

Extra comments:

Go-flo 300

P4-return

Water Properties Group

Sampling Log

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

Cruise ID:

2015-10

Station:

P25

Event #:

115

Ship:

Tully

UTC Date (dd mmm yyyy):

01 SEP 2015

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed Pressure	NVT	Plastics	chl.	Oxy	Sal	HPIC	DIC HgCl	DIC NoHgC	DIC CuCl-1	DIC CuCl-5	DIC CuCl-10	DIC CATLIN	
1	1	970	Bot-10	✓ 1324				x x									
2	4	971	1000	✓ 1000				x x	x x								final conc. 1.34uM CuCl ₂
3	5	972	800	✓ 800				x x	x x								final conc. 4.8 uM CuCl ₂
4	9	973	400	✓ 400				x x									final conc. 9.6 uM CuCl ₂
5	13	974	100	✓ 100				x x									
6	14	975	50	✓ 50				x x									
7	18	976	10	✓ 10				x x	x x								
8	19	977	5	✓ 5	x		xx	x x	x x	xx							x
9	2	978	Bot-10	✓ 1324		x											
10	3	979	1000	✓ 1000		x											
11	6	980	800	✓ 800		x											
12	7	981	600	✓ 600		x											
13	8	982	400	✓ 400		x											
14	10	983	300	✓ 300		x											
15	11	984	200	✓ 200		x											
16	12	985	100	✓ 100		x											
17	15	986	50	✓ 50		x											
18	16	987	25	✓ 25		x											
19	17	988	10	✓ 10		x											
20	20	989	5	✓ 5		x											
21	21	990	(5) Max	✓ 5					x		x x x	x x x					
22	22	991	(5) Max	✓ 5					x		x x x		x x x		TUP VALVE OPEN		final conc. 1.34uM CuCl ₂
23	23	992	(5) Max	✓ 5					x		x x x			x x x			final conc. 4.8 uM CuCl ₂
24	24	993	(5) Max	✓ 5							x x x				xxx	xxx	final conc. 9.6 uM CuCl ₂

Profile type:

☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): SP/HM

Bottom Depth: 1312 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1618	0918
Bottom	1641	0941
End	1718	1018

Positional Information

Lat:	48 ° 38.97	N
Lon:	126 ° 40.03	W

Lat:	48 ° 38.93	N
Lon:	126 ° 40.10	W

Lat:	48 ° 38.85	N
Lon:	126 ° 40.22	W

Extra comments:

P4-return

DIC exp, plastics, DO calib

OUT-OF-ORDER

1-9-10-2-3-11-12-13-4-14-15-16-5

Water Properties Group

Sampling Log

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

Cruise ID: 2015-10 Station: P4 Event #: 117 Ship: Tully UTC Date (dd mmm yyyy): 1 09 15

Niskin #	Firing #	Sample #	Rosette Operation		Samples Taken / Sampler's Initials												Comments
			Target Pressure	Confirmed ☒ Pressure	Sal	Nut-fr	Fe filt	Fe unfilt									
1	12	967	300	900	x	x	xx	xx									1x 500m
2	10	968	200	600			x	x									
3	6	969	150	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): KS HM

Bottom Depth: 1322 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	18:00	11:00
Bottom	18:22	11:22
End	18:51	11:51

Positional Information

Lat:	48 ° 39.00	N
Lon:	126 ° 40.03	W

Start

Lat:	48 ° 39.00	N
Lon:	126 ° 39.99	W

Bottom

Lat:	48 ° 39.91	N
Lon:	126 ° 39.797	W

Extra comments:

Go-flo 800

P4-return