

Cruise ID: 2023-088

Station: Haro59

Event #: 4

Ship: JP Tully

UTC Date (dd-mm-yyyy): 10-Aug-2023

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples										Comments
			Target Pressure	Confirmed	OXY	Nut-F	DIC	CHL	HPLC	Biotox	DA	Lugol's								
			✓	Pressure																
																		Save sheet after printing labels.		
																		YES		
1		1	Bot-5	/ 225	x	x	x													
2		2	200	/ 200	x	x	xx													
3		3	150	/ 150	xx	x	x													
4		4	100	/ 100	x	x	x													
5		5	75	/ 75	x	x	x													
6		6	50	/ 50	x	x	x													
7		7	30	/ 30	xx	x	x													
8		8	20	/ 20	x	xx	x	xx												
9		9	10	/ 10	x	x	xx	x												
10		10	5	/ 5	x	x	x	x												
11		11	0	/ 1	x	x	x													
12		12	0	/ 1				x	xx	xx	x	x						Biotox: 2 labels, 1 sample		
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Profile type: ROS

Watchkeeper(s): SN

Bottom Depth: 232

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	0141	1841
Bottom	0146	
End	0209	

Positional Information

Start	Lat: 48 ° 36.855 N
	Lon: 123 ° 14.813 W
Bottom	Lat: 48 ° 36.84 N
	Lon: 123 ° 14.808 W
End	Lat: 48 ° 36.87 N
	Lon: 123 ° 14.934 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments	
			Target Pressure	Confirmed Pressure	CHL	HPLC	Lugol's	Biotox	DA	Trans							Save sheet after printing labels: YES	
1		13	50	✓ 50	x													
2		14	20	✓ 20	xx													
3		15	10	✓ 10	x													
4		16	5	✓ 5	x													
5		17	5	✓ 5						X							Trans + Ribo	
6		18	0	✓ 2	x	xx	x	xx	x								Biotox: 2 labels, 1 sample	
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: ROS

Watchkeeper(s): M

Bottom Depth: 186

Trans Clean: Y / N FI. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	0725	0025
Bottom	0733	0033
End	0750	

Positional Information

Start	Lat: 48 ° 18.042	N
	Lon: 124 ° 00.102	W
Bottom	Lat: 48 ° 18.059	N
	Lon: 124 ° 00.11	W
End	Lat: 48 ° 18.065	N
	Lon: 124 ° 00.234	W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments	
			Target Pressure	Confirmed Pressure	OXY	Nut-F	DIC	CHL	HPLC						Save sheet after printing labels.	YES
1		19	Bot-10	✓ 119	x	x	x									
2		20	30	✓ 31	xx	x	xx									
3		21	5	✓ 5	x	x	x									
4		22	5	✓ 5				x	xx							
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type: ROS

Watchkeeper(s): MG

Bottom Depth: 136 121

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	1458	0758
Bottom	1502	
End	1515	

Positional Information

Start	Lat: 48 ° 34.492 N
	Lon: 125 ° 30.035 W
Bottom	Lat: 48 ° 34.492 N
	Lon: 125 ° 30.036 W
End	Lat: 48 ° 34.477 N
	Lon: 125 ° 30.022 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments	
			Target Pressure	Confirmed Pressure	MA		D	—	1AN	—	1AN						Save sheet after printing labels:	YES
1		23	Bot-10	✓	108	x	x	x	x	x	x							
2		24	100	✓	101	x	xx	x	x	x	x							
3		25	75	✓	76	x	x	x										
4		26	75	✓	76	x	x	x	x	x	x							
5		27	50	✓	50	x	x	x	xx	xx	xx							
6		28	25	✓	50	x	x	x	x	x	x							
7		29	10	✓	11	xx	x	x	x	x	x							
8		30	5	✓	6	x	x	xx	x	x	x							
9		31	5	✓	6							x						
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: ROS

Watchkeeper(s): MB

Bottom Depth: 115

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time UTC Local

Start 1742 1042

Bottom 1745

End 1805

Positional Information

Start Lat: 48 ° 35.97 N Lon: 125 ° 59.89 W

Bottom Lat: 48 ° 35.995 N Lon: 125 ° 59.912 W

End Lat: 48 ° 35.996 N Lon: 125 ° 59.952 W

Extra comments:

Deep

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments				
			Target Pressure	Confirmed Pressure	DMS	DMSP-d	DMSP-t	Nut-F	CHL	HPLC	Lugol's	DA	Biotox		Save sheet after printing labels:	YES			
1		32	100	100	x	x	x	x	x										
2		33	75	75	x			x	x										
3		34	50	50	x			x	x										
4		35	40	40	x			x	xx										
5		36	30	30	x			x	x	xx									
6		37	25	25	x			x	x	xx									
7		38	20	20	xx	xx	xx	x	x	xx									
8		39	15	15	x			xx	x	xx									
9		40	10	10	x			x	x	xx									
10		41	5	5	x	x	x	x	x										
11		42	5	5				x		xx	x	x	xx						Biotox: 1 sample 2 labels
12		43	0	2	x	x	x	x	xx										
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS

Watchkeeper(s): SM

Bottom Depth: 115

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time

UTC

Local

Start

1851

1151

Bottom

1854

End

1914

Positional Information

Start

Lat: 48 ° 35.992 N

Lon: 125 ° 59.931 W

Bottom

Lat: 49 ° 35.98 N

Lon: 125 ° 59.91 W

End

Lat: 48 ° 35.989 N

Lon: 125 ° 59.832 W

Extra comments:

DMS

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken			Sample Lists: Core_Samples								Comments	
			Target Pressure	Confirmed ✓ Pressure	Nut-F	CHL	HPLC									Save sheet after printing labels:	YES
1	1	44	5	✓ S	x	x	xx										
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

Watchkeeper(s): SK

Bottom Depth: 817

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	2123	1428
Bottom	2143	
End	2158	

Positional Information

Start

Lat: 48 ° 37.473 N

Lon: 126 ° 19.937 W

Bottom

Lat: 48 ° 37.503 N

Lon: 126 ° 19.933 W

End

Lat: 48 ° 37.523 N

Lon: 126 ° 19.956 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core Samples								Comments	
			Target Pressure	Confirmed Pressure	DMS	DMSP-d	DMSP-t	Nut-F	Nut-C	CHL	HPLC	Lugol's	Glut	Form	DA	Biotox	Save sheet after printing labels: YES		
1		45	600	✓ 600	xx	x	x	x	x										
2		46	300	✓ 300	xx			x	x										
3		47	200	✓ 200	xx	x	x	x											
4		48	150	✓ 150	xx	x	x	x											
5		49	100	✓ 100	xx			x		x									
6		50	75	✓ 75	xx			x		x									
7		51	60	✓ 60				x		x	xx								
8		52	50	✓ 50	xx			x		x	xx								
9		53	40	✓ 40	xx			x		x	xx								
10		54	30	✓ 30	xx	x	x	x		x	xx								
11		55	25	✓ 25	xx			x		xx									
12		56	20	✓ 20	xxx	xx	xx	x		x									
13		57	15	✓ 15	xx			xx		x	xx								
14		58	10	✓ 10	xx			x		xx									
15		59	5	✓ 5	xx	x	x	x											
16		60	5	✓ 5				x		x	xx	x	x	x	x	xx		Biotox: 1 sample 2 labels	
17		61	0	✓ 2	xx	x	x	x		x									
18																			
19																			
20																			
21																			
22																			
23																			
24																			

60

Glut

P4

2023-088

5

Profile type: ROS

Watchkeeper(s): 81

Bottom Depth: 1315

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time

UTC

Local

Start

0049

1749

Bottom

0103

End

0140

Positional Information

Start

Lat: 49° 38.999 N

Lon: 126° 39.917 W

Bottom

Lat: 49° 38.977 N

Lon: 126° 39.922 W

End

Lat: 49° 39.969 N

Lon: 126° 39.991 W

Extra comments:

DMS

60
Glut
P4
2023-088
5 m
bot 16
missed

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments		
			Target Pressure	Confirmed													Save sheet after printing labels: YES	
				✓	Pressure	Nut-F	CHL	HPLC	DOC	TOC	CDOM	ONAr	Sal	Cr				
1		62	500											X				
2		63	400											X				
3		64	200											X				
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: PUMPS

Watchkeeper(s): SR

Bottom Depth: 1315

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time

UTC

Local

Start

01:50:00

Bottom

02:12:00

End

05:31:00

Positional Information

Start

Lat: 48 38.97 N

Lon: 126 39.91 W

Bottom

Lat: 48 38.98 N

Lon: 126 39.95 W

End

Lat: 48 39.00 N

Lon: 126 39.97 W

Extra comments:

Pump-mid

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core Samples						Comments	
			Target Pressure	Confirmed Pressure	MG												
				✓		OXY	SAL	Nut-F	Nut-C	DIC	DOC	TOC	CDOM	Trans	ONAr	Cr	
1		65	Bot-10	✓	1320	x		x	x	x	x	x			x		NUT NO RINSE
2		66	1250	✓	1249	x	xx	x	x	x	x	x					
3		67	1000	✓	1000	x	x	x	x	x			X				
4		68	1000	✓	1000	x	x	x	x	x	x	x			x		
5		69	800	✓	800	xx	x	xx	xx	x	x	x	x				
6		70	750	✓	750										x		
7		71	600	✓	600	x		x	x	xx	x	x	x				
8		72	500	✓	500										x		
9		73	400	✓	400	x		x	x	x	x	x	x		x		
10		74	300	✓	300	x		xx		x	x	x	x				
11		75	250	✓	251	x		x		x	x	x	x				
12		76	200	✓	201	x		x		x	x	x	x		x		
13		77	175	✓	175	xx		x		x	x	x	x				
14		78	150	✓	151	x		x		x	x	x	x				
15		79	125	✓	125	x		x		xx	x	x	x				
16		80	100	✓	100	x		x		x	x	x	x		x		
17		81	75	✓	75	xx		x		x	x	x	x		x		
18		82	50	✓	50	x		x		x	x	x	x		x		
19		83	25	✓	25	x		x		x	xx	xx	xx		x		
20		84	10	✓	11	x		x		x	x	x	x				
21		85	5	✓	6	x		x		x	x	x	x		x		
22		86	5	✓	6									X	x		
23																	
24																	

Profile type: ROS

Watchkeeper(s): SW / MG

Bottom Depth: 1315

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	0609	2309
Bottom	0635	
End	0737	

Positional Information

Start	Lat: 48° 39.014	N
	Lon: 126° 39.939	W
Bottom	Lat: 48° 39.022	N
	Lon: 126° 39.977	W
End	Lat: 48° 39.004	N
	Lon: 126° 39.934	W

Extra comments:

Deep

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken					Sample Lists: Core Samples					Comments			
			Target Pressure	Confirmed	Pressure	Nut-F	CHL	HPLC	DOC	TOC	CDOM	ONAr	Sal	Cr					Save sheet after printing labels: YES
			✓																
1		87	100											X					
2		88	50											X					
3		89	5											X					
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: PUMPS

Watchkeeper(s):

Bottom Depth: 1315

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time

UTC

Local

Start

08:00:00

Bottom

08:24:00

End

11:51:00

Positional Information

Start

Lat: 48 38.97 N

Lon: 126 39.98 W

Bottom

Lat: 48 39.00 N

Lon: 126 39.64 W

End

Lat: 48 39.97 N

Lon: 126 39.73 W

Extra comments:

Pump-Shallow

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken								Sample Lists: Core_Samples				Comments	
			Target Pressure	Confirmed ☒ Pressure	Nut-F	CHL	HPLC	DOC	TOC	CDOM	ONAr	Sal	Cr				Save sheet after printing labels: YES	
1		90	Bot-10										X					
2		91	1000										X					
3		92	750										X					
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: PUMPS

Watchkeeper(s): HG

Bottom Depth: 1320

Trans Clean: Y / NFl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	1531	0831
Bottom	1603	
End	1945	

Positional Information

Start	Lat: 48 ° 38.961	N
	Lon: 126 ° 40.046	W
Bottom	Lat: 48 ° 39.005	N
	Lon: 126 ° 40.046	W
End	Lat: 48 ° 38.965	N
	Lon: 126 ° 39.982	W

Extra comments:

Pumps-deep

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments	
			Target Pressure	Confirmed	Me-d	Me-T	Lig	Nut-F	Nut-C	SAL							Save sheet after printing labels:	YES
			Pressure	✓ Pressure														
1		93	800		xx	xx		x	x	x								
2		94	600		x	x												
3		95	400		x	x												
4		96	200		x	x												
5		97	150		x	x												
6		98	100		x	x	xx											
7		99	75		x	x												
8		100	50		x	x	xx											
9		101	35		x	x	xx											
10		102	10		x	x	xx											
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: Go f/b ROS

Watchkeeper(s): DC

Bottom Depth: 1320

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	20:05	1305
Bottom	21:05	
End	22:05	

Positional Information

Lat:	°	N
Lon:	°	W

Lat:	48 ° 38 988	N
Lon:	126 ° 39 958	W

Lat:	°	N
Lon:	°	W

Extra comments:

TM-Deep

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments				
			Target Pressure	Confirmed Pressure	Nut-F	CHL	HPLC	SAL	ONAr						Save sheet after printing labels: YES				
1	103	100	5	✓ S	x	xx	xx	x											
2	104	101	5	✓ S					X										
3																			
4		5023	Loop	/		xx		x											
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS

Watchkeeper(s): JK

Bottom Depth: 2085 m

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	0222	2822
Bottom	0240	1922
End	0259	

Positional Information

Start	Lat: 48 ° 41.475	N
	Lon: 127 ° 9.544	W

Bottom	Lat: 48 ° 41.495	N
	Lon: 127 ° 9.971	W

End	Lat: 48 ° 41.503	N
	Lon: 127 ° 9.963	W

Extra comments:

+ loops

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples								Comments	
			Target Pressure	Confirmed Pressure	Nut-F	CHL	HPLC	SAL	ONAr									Save sheet after printing labels:	YES
1	105	102	5	✓ 5	x	xx	xx	x											
2	106	103	5	✓ 5					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

Watchkeeper(s): SN

Bottom Depth:

Trans Clean: (Y) N Fl. Clean: Y / N

Par Status: (On) / Off

Time	UTC	Local
Start	0523	2228
Bottom	0602	
End	0636	

Positional Information

Start	Lat: 43 ° 44.619	N
	Lon: 127 ° 39.905	W

Bottom	Lat: 43 ° 44.612	N
	Lon: 127 ° 39.933	W

End	Lat: 43 ° 44.620	N
	Lon: 127 ° 39.929	W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples								Comments	
			Target Pressure	Confirmed ✓ Pressure	Nut-F	CHL	HPLC	SAL	ONAr									Save sheet after printing labels: YES	
1	107	104	5	✓ 5	x	xx	xx	x											
2	108	105	5	✓ 5					X										
3																			
4		5025	Loop			xx		x											
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS

Watchkeeper(s): MG

Bottom Depth: 2500

Trans Clear: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time

UTC

Local

Start

0912

0212

Bottom

0932

End

0955

Positional Information

Start

Lat: 48 ° 46.633 N

Lon: 128 ° 09.925 W

Bottom

Lat: 48 ° 46.601 N

Lon: 128 ° 09.906 W

End

Lat: 48 ° 46.55 N

Lon: 128 ° 09.931 W

Extra comments:

+ loops

2 CHL 1 SAL

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments	
			Target Pressure	Confirmed	Pressure	NG	Sal	DC	DC	TJ	Hbr	DOC	IAN	CDOM	IAN	LYNN			Save sheet after printing labels:
				✓		OXY		Nut-F	Nut-C	CHL	HPLC		TOC		Trans	ONAr			
1		109	2000	✓	2001	x	xx	x	x			x	x	x					
2		110	1500	✓	1501	x	x	x	x			x	x	x					
3		111	1250	✓	1250	xx	x	x	x			x	x	x					
4		112	1000	✓	1001	x	x	x	x			x	x	x	X				
5		113	800	✓	800	x	xx	x	x			x	x	x					
6		114	600	✓	600	x		x	x			x	x	x					
7		115	400	✓	400	xx		xx	xx			x	x	x					
8		116	300	✓	301	x		x				x	x	x					
9		117	250	✓	251	x		x				x	x	x					
10		118	200	✓	200	x		x				x	x	x					
11		119	150	✓	150	x		x				x	x	x					
12		120	125	✓	125	x		x				x	x	x					
13		121	100	✓	100	x		x		x		x	x	x					
14		122	75	✓	75	x		x		xx		x	x	x					
15		123	60	✓	61	xx		x		x	xx	x	x	x					
16		124	50	✓	50	x		xx		x	xx	x	x	x					
17		125	40	✓	40	x		x		x	xx	x	x	x					
18		126	30	✓	30	x		x		x	xx	x	x	x					
19		127	25	✓	25	x		x		x		x	x	x					
20		128	20	✓	20	x		x		xx		x	x	x					
21		129	15	✓	15	xx		x		x	xx	xx	xx	xx					
22		130	10	✓	10	x		x		x		x	x	x					
23		131	5	✓	5	x		x							X	X			
24		132	5	✓	5					x	xx	x	x	x					

Profile type: ROS

Watchkeeper(s): Dr / MG

Bottom Depth: 2514

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	14:24	0724
Bottom	1500	
End	1628	

Positional Information

Start	Lat: 48 ° 49.002	N
	Lon: 128 ° 39.955	W

Bottom	Lat: 48 ° 48.96	N
	Lon: 128 ° 40.002	W

End	Lat: 48 ° 49.016	N
	Lon: 128 ° 39.968	W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples								Comments
			Target Pressure	Confirmed ☒ Pressure	Nut-F	CHL	HPLC	SAL	ONAr									
1		133	5	☒	S	x	xx	xx	x									
2		134	5	☒	S				X									
3																		
4		5030	Loop	☒			xx		x									
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: ROS

Watchkeeper(s): SL

Bottom Depth:

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	1516	1216
Bottom	1935	
End	1954	

Positional Information

Start	Lat: 48 ° 51.365	N
	Lon: 129 ° 09.964	W
Bottom	Lat: 48 ° 51.342	N
	Lon: 129 ° 9.969	W
End	Lat: 48 ° 51.391	N
	Lon: 129 ° 9.954	W

Extra comments:

+ loops

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments	
			Target Pressure	Confirmed ✓ Pressure	Nut-F	CHL	HPLC	SAL	ONAr	DMS							Save sheet after printing labels: YES	
1	1	135	2005	✓ 2005						X								Bulk water for DMS
2	2	136	5	✓ 5	x	x	xx	x										
3	3	137	5	✓ 5					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

Watchkeeper(s): Steve Romaine

Bottom Depth: 2635

Trans Clean: (Y) / N Fl. Clean: (Y) / N

Par Status: (On) / Off

Time	UTC	Local
Start	22:22:56	15:22:56
Bottom	23:02:14	16:02:14
End	23:39:39	16:39:39

Positional Information

Start	Lat: 48 ° 53.555	N
	Lon: 129 ° 40.011	W
Bottom	Lat: 48 ° 53.591	N
	Lon: 129 ° 39.979	W
End	Lat: 48 ° 53.588	N
	Lon: 129 ° 39.973	W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples								Comments	
			Target Pressure	Confirmed ✓	Pressure	Nut-F	CHL	HPLC	SAL	ONAr								Save sheet after printing labels: YES	
1	1	138	5	✓	5	x	xx	xx	x										
2	2	139	5	✓	5					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

Watchkeeper(s): SR / JB

Bottom Depth: 2747

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	02:00:15	19:00:15
Bottom	02:18:42	19:18:42
End	02:41:11	19:41:11

Positional Information

Start

Lat: 48 ° 55.998 N

Lon: 130 ° 09.963 W

Bottom

Lat: 48 ° 55.971 N

Lon: 130 ° 10.009 W

End

Lat: 48 ° 55.973 N

Lon: 130 ° 10.028 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments	
			Target Pressure	Confirmed Pressure	MG	MG	1AN	1AN	DC	—	1AN	—	1AN	LYNN	M	Save sheet after printing labels: YES
				✓	OXY	Sal	Nut-F	Nut-C	DIC	DOC	TOC	CDOM	Trans	ONAr	Cr	
1		140	Bot-10	✓ 3272	x		x	x	x	x	x	x			x	
2		141	3000	✓ 3000	x	xx	x	x	x	x	x	x			x	
3		142	2500	✓ 2500	xx	x	x	x	x	x	x	x			x	
4		143	2000	✓ 2000	x	x	xx	xx	x	x	x	x			x	
5		144	1500	✓ 1500	x	xx	x	x	x	x	x	x			x	
6		145	1250	✓ 1249	x	x	x	x	xx	x	x	x			x	
7		146	1000	✓ 1000	x	x	x	x	x	x	x	x	x		x	
8		147	800	✓ 800	xx	x	x	x	x	x	x	x			x	
9		148	600	✓ 600	x		x	x	x	x	x	x			x	
10		149	500	✓ 500											x	Do first DOC rinse here
11		150	400	✓ 401	x		x	x	x	x	x	x			x	
12		151	300	✓ 301	x		x		x	x	x	x			x	
13		152	250	✓ 251	x		x		x	x	x	x			x	
14		153	200	✓ 201	x		x		xx	x	x	x			x	
15		154	175	✓ 175	xx		xx		x	x	x	x				
16		155	150	✓ 151	x		x		x	x	x	x			x	
17		156	125	✓ 126	x		x		x	x	x	x				
18		157	100	✓ 125	x		x		x	x	x	x			x	MISFIRE SO SKIPPED 100
19		158	75	✓ 75	x		x		x	x	x	x				
20		159	50	✓ 51	x		x		x	x	x	x			x	
21		160	25	✓ 26	xx		x		x	x	x	x			x	
22		161	10	✓ 10	x		x		x	x	x	x			x	
23		162	5	✓ 5	x		x		x	xx	xx	xx				
24		163	5	✓ 5									x	x	x	

Profile type: ROS

Watchkeeper(s): SM / MC

Bottom Depth: 3222

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time

UTC

Local

Start

0501

2201

Bottom

0503

End

0745

Positional Information

Start

Lat: 48 ° 53.184 N

Lon: 130 ° 40.003 W

Bottom

Lat: 48 ° 58.238 N

Lon: 130 ° 39.953 W

End

Lat: 48 ° 58.216 N

Lon: 130 ° 39.972 W

Extra comments:

Deep

PAR OFF

Water Properties Group

Program STN List:

Line_P

Sampling Log

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

Cruise ID: 2023-088

Station: P12

Event #: 34

Ship: JP Tully

UTC Date (dd-mm-yyyy):

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken								Sample Lists: Core_Samples				Comments	
			Target Pressure	Confirmed ☐ Pressure	Nut-F	CHL	HPLC	DOC	TOC	CDOM	ONAr	Sal	Cr					Save sheet after printing labels: YES
1		164	750											X				
2		165	500											X				
3		166	250											X				
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
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15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: PUMPS

Watchkeeper(s): IB

Bottom Depth: 3237 m

Trans Clean: NA Fl. Clean: Y / N

Par Status: NA

Time UTC Local

Start 07:51:00 00:51:00

Bottom 08:17:00

End 11:52:00

Positional Information

Start

Lat: 48 58.206 N

Lon: 130 39.981 W

Bottom

Lat: 48 58.195 N

Lon: 130 39.986 W

End

Lat: 58 58.201 N

Lon: 130 39.97 W

Extra comments:

Pumps-750

Version: 01-Dec-22

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments	
			Target Pressure	Confirmed ☒ Pressure	IOS Me-d	IOS Me-T	IOS Lig	Nut-F	Nut-C	SAL							Save sheet after printing labels: YES	
1		167	100		x	x		x		x								
2		168	75		x	x												
3		169	50		x	x												
4		170	35		x	x												
5		171	10		x	x												
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: Go FLO ROS

Watchkeeper(s): DC

Bottom Depth: 3224

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	1418	0718
Bottom MR	1438	
End	1458	

Positional Information

Start	Lat: 48 ° 58.182	N
	Lon: 130 ° 39.995	W
Bottom	Lat: 48 ° 58.188	N
	Lon: 130 ° 40.022	W
End	Lat: 48 ° 58.191	N
	Lon: 130 ° 39.946	W

Extra comments:

TM-Shallow

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments		
			Target Pressure	Confirmed	Pressure	Nut-F	CHL	HPLC	DOC	TOC	CDOM	ONAr	Sal	Cr						Save sheet after printing labels: YES
			√																	
1		172	100											X						
2		173	50											X						
3		174	5											X						
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Profile type: Pumps

Watchkeeper(s): Isabelle Baconnais

Bottom Depth: 3222 m

Trans Clean: NA FI. Clean: NA

Par Status:

Time UTC Local

Start 15:52:30 08:52:30

Bottom 16:00:56

End 19:26:08

Positional Information

Start

Lat: 48 58.16 N

Lon: 130 39.989 W

Bottom

Lat: 48 58.166 N

Lon: 130 40.005 W

End

Lat: 48 58.243 N

Lon: 130 39.982 W

Extra comments:

Pump-100

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments	
			Target Pressure	Confirmed	✓	Pressure	IOS	IOS	IOS		Nut-F	Nut-C	SAL				Save sheet after printing labels: YES	
							Me-d	Me-T	Lig									
1		175	800				x	x			x	x	x					
2		176	600				xx	xx										
3		177	400				x	x										
4		178	200				x	x										
5		179	150				x	x										
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: 60-Fl0 ROS

Watchkeeper(s): DL

Bottom Depth: 3223

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time

UTC

Local

Start

2005

1305

Bottom MR

2037

End

2122

Positional Information

Start

Lat: 48 ° 58.195 N

Lon: 130 ° 40.025 W

Bottom

Lat: 48 ° 58.172 N

Lon: 130 ° 40.051 W

End

Lat: 48 ° 58.207 N

Lon: 130 ° 39.95 W

Extra comments:

TM-Deep

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID:

2023-088

Station:

P12

Event #:

40

Ship:

JP Tully

UTC Date (dd-mm-yyyy):

13-Aug-2023

Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: Core_Samples				Comments	
Target Pressure	Confirmed Pressure	DMS	DMSP-d	DMSP-t	Nut-F	CHL	HPLC			Save sheet after printing labels:	YES

Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	DMS	DMSP-d	DMSP-t	Nut-F	CHL	HPLC							
1		180	600	/ 600	xx	x	x	x									
2		181	300	/ 300	xx			x									
3		182	200	/ 200	xx	x	x	x									
4		183	150	/ 150	xx	x	x	x									
5		184	100	/ 101	xx			x	x								
6		185	75	/ 75	xx			x	xx								
7		186	60	/ 60				x	x	xx							
8		187	50	/ 50	xx			x	x	xx							
9		188	40	/ 40	xx			xx	x	xx							
10		189	30	/ 31	xx	x	x	x	x	xx							
11		190	25	/ 25	xx			x	xx								
12		191	20	/ 19	xxxx	xx	xx	x	x								
13		192	15	/ 14	xx			x	x	xx							
14		193	10	/ 10	xx			x	x								
15		194	5	/ 5	xx	x	x										
16		195	5	/ 5				x	x	xx							
17		196	0	/ 2	xx	x	x	x	x								
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:

ROS

Watchkeeper(s):

SW

Bottom Depth:

3223

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time

UTC

Local

Start

21 1438

1438

Bottom

2149

End

2224

Positional Information

Start

Lat: 48 ° 58.190 N

Lon: 130 ° 39.970 W

Bottom

Lat: 48 ° 58.188 N

Lon: 130 ° 39.99 W

End

Lat: 48 ° 58.205 N

Lon: 130 ° 39.995 W

Extra comments:

DMS

PAR on

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID:

2023-088

Station:

P12

Event #:

41

Ship:

JP Tully

UTC Date (dd-mm-yyyy):

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments		
			Target Pressure	Confirmed ✓ Pressure	Nut-F	CHL	HPLC	DOC	TOC	CDOM	ONAr	Sal	Cr				
1		197	2000										X				
2		198	1500										X				
3		199	1000										X				
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:

PUMPS

Watchkeeper(s):

IB

Bottom Depth:

3222

Trans Clean:

NO

Fl. Clean:

Y / N

Par Status:

NA

Time

UTC

Local

Start

22:51:00

15:51:00

Bottom

23:41:00

End

03:42:00

Positional Information

Start

Lat:

48 58.17 N

Lon:

130 39.968 W

Bottom

Lat:

48 58.211 N

Lon:

130 39.972 W

End

Lat:

48 58.202 N

Lon:

130 40.027 W

Extra comments:

41

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments	
			Target Pressure	Confirmed ✓ Pressure	Nut-F	CHL	HPLC	SAL	ONAr	Bulk							Save sheet after printing labels: YES	
1		200	2005	✓ 2006						X								
2		201	2005	✓ 2006						X								
3		202	2005	✓ 2007						X								
4		203	2005	✓ 2007						X								
5		204	2005	✓ 2005						X								
6		205	2005	✓ 2005						X								
7		206	2005	✓ 2006						X								
8		207	2005	✓ 2005						X								
9		208	2005	✓ 2007						X								
10		209	2005	✓ 2006						X								
11		210	2005	✓ 2007						X								
12		211	2005	✓ 2006						X								
13		212	2005	✓ 2006						X								
14		213	2005	✓ 2007						X								
15		214	2005	✓ 2005						X								
16		215	2005	✓ 2006						X								
17		216	2005	✓ 2006						X								
18		217	2005	✓ 2005						X								
19		218	2005	✓ 2006						X								
20		219	2005	✓ 2006						X								
21		220	2005	✓ 2007						X								
22		221	2005	✓ 2006						X								
23		222	2005	✓ 5	X	X	XX	X										
24		223	2005	✓ 5					X									

Profile type: ROS

Watchkeeper(s): MG

Bottom Depth: 3018

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	0830	0130
Bottom	0912	
End	1005	

Positional Information

Start

Lat: 49 ° 02.543 N

Lon: 131 ° 39.912 W

Bottom

Lat: 49 ° 02.542 N

Lon: 131 ° 39.875 W

End

Lat: 49 ° 02.551 N

Lon: 131 ° 39.890 W

Extra comments:

+ loops

Bulk water for Scott

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples				Comments	
			Target Pressure	Confirmed Pressure	Nut-F	CHL	HPLC	DOC	TOC	CDOM	ONAr	Sal	DC/K	JAN	Save sheet after printing labels:	YES
1		224	Bot-10	✓ 3361				x	x	x						
2		225	3000	✓ 2999				x	x	x		x				
3		226	2500	✓ 2501				x	x	x		xx				Bulk water for DMS
4		227	2000	✓ 1999				x	x	x		x				Bulk water for DMS
5		228	1750	✓ 1750				x	x	x		x				SMALL O ₂ SPIKE @ 1964
6		229	1500	✓ 1500				x	x	x		x				
7		230	1250	✓ 1250				x	x	x		x				
8		231	1000	✓ 999				x	x	x		x	X			
9		232	800	✓ 802				x	x	x						
10		233	600	✓ 600				x	x	x						
11		234	400	✓ 401				x	x	x						
12		235	300	✓ 301				x	x	x						
13		236	250	✓ 251				x	x	x						
14		237	200	✓ 204				x	x	x						
15		238	175	✓ 175				x	x	x						
16		239	150	✓ 150				x	x	x						
17		240	125	✓ 125				x	x	x						
18		241	100	✓ 99				x	x	x						
19		242	75	✓ 75				x	x	x						
20		243	50	✓ 50				xx	xx	xx						
21		244	25	✓ 25				x	x	x						
22		245	10	✓ 11				x	x	x						
23		246	5	✓ 5	x	x	xx	x	x	x						
24		247	5	✓ 5							x		X			

Profile type: ROS

Watchkeeper(s): MG

Bottom Depth: 3303

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	1457	
Bottom	1606	
End	1757	

Positional Information

Lat:	49 ° 07.387	N
Lon:	132 ° 39.924	W

Lat:	49 ° 07.371	N
Lon:	132 ° 39.93	W

Lat:	49 ° 07.38	N
Lon:	132 ° 39.93	W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments	
			Target Pressure	Confirmed ✓ Pressure	Nut-F	CHL	HPLC	SAL	ONAr	Bulk							Save sheet after printing labels: YES	
1	1	248	2005	✓	2006					X								
2	2	249	2005	✓	2006					X								
3	3	250	2005	✓	2006					X								
4	4	251	2005	✓	2006					X								
5	5	252	2005	✓	2005					X								
6	6	253	2005	✓	2005					X								
7	7	254	2005	✓	2006					X								
8	8	255	2005	✓	2006					X								
9	9	256	2005	✓	2005					X								
10	10	257	2005	✓	2005					X								
11	11	258	2005	✓	2006					X								
12	12	259	2005	✓	2005					X								
13	13	260	2005	✓	2005					X								
14	14	261	2005	✓	2005					X								
15	15	262	2005	✓	2007					X								
16	16	263	2005	✓	2006					X								
17	17	264	2005	✓	2005					X								
18	18	265	2005	✓	2007					X								
19	19	266	2005	✓	2006					X								
20	20	267	2005	✓	2005					X								
21	21	268	2005	✓	2006					X								
22	22	269	5	✓	5	x	xx	xx	x									
23	23	270	5	✓	5				X									
24	/	5044	Loop	✓	/		xx		x									

Profile type: ROS

Watchkeeper(s): SR

Bottom Depth:

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	22:35:36	15:36
Bottom	23:12:34	16:12
End	23:53:03	16:53

Positional Information

Start	Lat: 49 ° 12.049	N
	Lon: 133 ° 39.92	W

Bottom	Lat: 49 ° 11.988	N
	Lon: 133 ° 39.951	W

End	Lat: 49 ° 11.997	N
	Lon: 133 ° 39.996	W

Extra comments:

+ loops

Bulk water for Scott

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists:				Core_Samples				Comments
			Target Pressure	Confirmed	✓	Pressure	Nut-F	Bulk											Save sheet after printing labels:
																			YES
1		271	20				xxx	X											
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: BOT

Watchkeeper(s): Jody Klymak

Bottom Depth: 3615 m

Trans Clean: NA Fl. Clean: NA

Par Status:

Time

UTC

Local

Start

04:23:41

21:23:41

Bottom

05:53:00

End

06:19:16

Positional Information

Start

Lat: 49 17.04 N

Lon: 134 40.025 W

Bottom

Lat: 49 17.04 N

Lon: 134 40.029 W

End

Lat: 49 17.067 N

Lon: 134 40.048 W

Extra comments:

TM-Bigelow

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID: 2023-088

Station: P16

Event #: 47

Ship: JP Tully

UTC Date (dd-mm-yyyy):

15 Aug 2023

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples				Comments			
			Target Pressure	Confirmed Pressure	MCP	MOC	AN	JAN	LN	←	10H	→	JAN	LN	Save sheet after printing labels:		
				✓		OXY	Sal	Nut-F	Nut-C	DIC	DOC	TOC	CDOM	Trans	ONAr	YES	
1		272	Bot-10	✓	3685	x		x	x		x	x	x				
2		273	3500	✓	3500	x	xx	x	x		x	x	x				
3		274	3000	✓	3001	xx	x	x	x		x	x	x				
4		275	2500	✓	2499	x	x	xx	xx		x	x	x				
5		276	2000	✓	2001	x	xx	x	x		x	x	x				
6		277	1500	✓	1500	x	x	x	x		x	x	x				
7		278	1250	✓	1250	x	x	x	x		x	x	x				
8		279	1000	✓	1000	x	x	x	x		x	x	x	x			
9		280	800	✓	800	xx	x	x	x		x	x	x				
10		281	600	✓	600	x		x	x		x	x	x				
11		282	400	✓	400	x		x	x		x	x	x				
12		283	300	✓	301	x		x			x	x	x				
13		284	250	✓	250	x		x			x	x	x				
14		285	200	✓	201	x		x			x	x	x				
15		286	175	✓	175	xx		xx			x	x	x				
16		287	150	✓	150	x		x			x	x	x				
17		288	125	✓	125	x		x			x	x	x				
18		289	100	✓	101	x		x			x	x	x				
19		290	75	✓	75	x		x			x	x	x				
20		291	50	✓	50	x		x			x	x	x				
21		292	25	✓	25	xx		x			x	x	x				
22		293	10	✓	10	x		x			x	x	x				
23		294	5	✓	6	x		x			xx	xx	xx				
24		295	5	✓	5									x	x		

Profile type:

ROS

Watchkeeper(s):

SB / MG

Bottom Depth:

Trans Clean: Y / N Fl. Clean: Y / N

Par Status:

On / Off

Time

UTC

Local

Start

0636

1136

Bottom

0744

End

0934

Positional Information

Lat:

49 ° 17.008

N

Lon:

134 ° 39.978

W

Lat:

49 ° 17.019

N

Lon:

134 ° 40.016

W

Lat:

49 ° 17.03

N

Lon:

134 ° 39.986

W

Extra comments:

Deep

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments	
			Target Pressure	Confirmed	✓	Pressure	IOS	IOS	IOS								Save sheet after printing labels:	YES
							Me-d	Me-T	Lig	Nut-F	Nut-C	SAL						
1		296	800				x	x		x	x	x						
2		297	600				x	x										
3		298	400				xx	xx										
4		299	200				x	x										
5		300	150				x	x										
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: ROS

Watchkeeper(s): DC

Bottom Depth: 3615

Trans Clean: Y / N ~~FI~~-Clean: Y / N

Par Status: ☒ On / ☐ Off

Time	UTC	Local
Start	1150	0450
Bottom MR	1227	
End	1324	

Positional Information

Start	Lat: 49 ° 17.001	N
	Lon: 134 ° 39.94	W
Bottom	Lat: 49 ° 16.99	N
	Lon: 134 ° 39.983	W
End	Lat: 49 ° 16.974	N
	Lon: 134 ° 39.929	W

Extra comments:

TM-Deep

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples								Comments	
			Target Pressure	Confirmed Pressure														Save sheet after printing labels:	
				✓														YES	
1		306	600	✓	603	x	x	x	x										
2		307	300	✓	300	x			x										
3		308	200	✓	201	x	x	x	x										
4		309	150	✓	151	x	x	x	x										
5		310	100	✓	100	x			x	x									
6		311	75	✓	75	x			x	x									
7		312	60	✓	60				x	x	xx								
8		313	50	✓	50	x			x	x	xx								
9		314	40	✓	40	x			x	x	xx								
10		315	30	✓	30	x	x	x	x	x	xx								
11		316	25	✓	26	x			x	xx									
12		317	20	✓	20	xx	xx	xx	x	xx									
13		318	15	✓	15	x			x	x	xx								
14		319	10	✓	11	x			xx	x									
15		320	5	✓	5	x	x	x	x										
16		321	5	✓	5					x	xx								
17		322	0			x	x	x	x	x									
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: BOT

Watchkeeper(s): MG

Bottom Depth: 3013

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	1418	0718
Bottom	1430	
End	1511	

Positional Information

Lat:	49 ° 16.974	N
Lon:	134 ° 39.98	W

Start

Lat:	49 ° 17.0	N
Lon:	134 ° 39.981	W

Bottom

Lat:	49 ° 16.975	N
Lon:	134 ° 39.993	W

End

Extra comments:

DMS

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID: 2023-088

Station: P16

Event #: 52

Ship: JP Tully

UTC Date (dd-mm-yyyy):

15-08-23

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments	
			Target Pressure	Confirmed	Me-d	Me-T	Lig	Nut-F	Nut-C	SAL							Save sheet after printing labels:	YES
			✓	Pressure														
1		301	100		x	x	xx	x		x								
2		302	75		x	x												
3		303	50		x	x	xx											
4		304	35		x	x	xx											
5		305	10		x	x	xx											
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: ROS

Watchkeeper(s): MG

Bottom Depth: 3615

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	1521	0821
Bottom	1536	
End	1554	

Positional Information

Start	Lat:	49 ° 16.999	N
	Lon:	134 ° 39.965	W
Bottom	Lat:	49 ° 16.981	N
	Lon:	134 ° 39.968	W
End	Lat:	49 ° 16.973	N
	Lon:	134 ° 39.970	W

Extra comments:

TM-Shallow

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

10.240.237.225/bridge

Cruise ID:

2023-088

Station:

P17

Event #:

53

Ship:

JP Tully

UTC Date (dd-mm-yyyy):

15 AUG 2023

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments	
			Target Pressure	Confirmed Pressure	Nut-F	CHL	HPLC	SAL	ONAr	Bulk							Save sheet after printing labels: YES	
1	1	323	2005	✓	2005					X								
2	2	324	2005	✓	2006					X								
3	3	325	2005	✓	2007					X								
4	4	326	2005	✓	2006					X								
5	5	327	2005	✓	2006					X								
6	6	328	2005	✓	2005					X								
7	7	329	2005	✓	2006					X								
8	8	330	2005	✓	2006					X								
9	9	331	2005	✓	2006					X								
10	10	332	2005	✓	2006					X								
11	11	333	2005	✓	2005					X								
12	12	334	2005	✓	2006					X								
13	13	335	2005	✓	2006					X								
14	14	336	2005	✓	2007					X								
15	15	337	2005	✓	2006					X								
16	16	338	2005	✓	2005					X								
17	17	339	2005	✓	2005					X								
18	18	340	2005	✓	2006					X								
19	19	341	2005	✓	2007					X								
20	20	342	2005	✓	2006					X								
21	21	343	2005	✓	2006					X								
22	22	344	5	✓	5	x	xx	xx	x									
23	23	345	5	✓	5				X									
24	/	5053	Loop	✓	/		xx		x									

Profile type:

ROS

Watchkeeper(s):

SR IB

Bottom Depth:

Trans Clean: (Y) / N Fl. Clean: Y / N

Par Status: (On) / Off

Time	UTC	Local
Start	20:31:11	13:31
Bottom	21:08:56	14:08
End	21:47:45	14:47

Positional Information

Start	Lat: 49 ° 20.988	N
	Lon: 135 ° 39.983	W
Bottom	Lat: 49 ° 20.981	N
	Lon: 135 ° 39.963	W
End	Lat: 49 ° 20.992	N
	Lon: 135 ° 39.985	W

Extra comments:

+ loops

Bulk water for Scott

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID:

2023-088

Station:

P18

Event #:

54

Ship:

JP Tully

UTC Date (dd-mm-yyyy):

16 Aug 2023

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments				
			Target Pressure	Confirmed		Nut-F	CHL	HPLC	DOC	TOC	CDOM	ONAr	Sal	Trans						Save sheet after printing labels
				✓	Pressure															
1	1	346	Bot-10	✓	3891				x	x	x									
2	2	347	3500	✓	3500				x	x	x		x							
3	3	348	3000	✓	3000				x	x	x		xx							Bulk water for DMS
4	4	349	2500	✓	2500				x	x	x		x							Bulk water for DMS
5	5	350	2000	✓	2001				x	x	x		x							
6	6	351	1500	✓	1500				x	x	x		x							
7	7	352	1250	✓	1250				x	x	x		x							
8	8	353	1000	✓	1001				x	x	x		x	X						
9	9	354	800	✓	801				x	x	x		x							
10	10	355	600	✓	601				x	x	x		x							
11	11	356	400	✓	401				x	x	x		x							
12	12	357	300	✓	300				x	x	x		x							
13	13	358	250	✓	251				x	x	x		x							
14	14	359	200	✓	200				x	x	x		x							
15	15	360	175	✓	176				x	x	x		x							
16	16	361	150	✓	150				x	x	x		x							
17	17	362	125	✓	126				x	x	x		x							
18	18	363	100	✓	100				x	x	x		x							
19	19	364	75	✓	74				x	x	x		x							
20	20	365	50	✓	50				x	x	x		x							
21	21	366	25	✓	26				xx	xx	xx		x							
22	22	367	10	✓	11				x	x	x		x							
23	23	368	5	✓	6				x	x	x		x	X						
24	24	369	5	✓	6	x	x	xx				X								

Profile type: **ROS**

Watchkeeper(s): **FB**

Bottom Depth: **3835 m**

Trans Clean: **Y** / N Fl. Clean: Y / N

Par Status: On **X** Off

Time	UTC	Local
Start	02:29:37	19:27
Bottom	03:37:48	20:37
End	05:22:47	22:22

Positional Information

Lat:	49 ° 25.985	N
Lon:	136 ° 39.965	W

Start

Lat:	49 ° 26.040	N
Lon:	136 ° 39.989	W

Bottom

Lat:	49 ° 26.006	N
Lon:	136 ° 40.019	W

End

Extra comments:

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID:

2023-088

Station:

P19

Event #:

56

Ship:

JP Tully

UTC Date (dd-mm-yyyy):

16-08-2023

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments	
			Target Pressure	Confirmed Pressure	Nut-F	CHL	HPLC	SAL	ONAr							Save sheet after printing labels. YES
1		370	5	✓ 5.8	x	xx	xx	x								
2		371	5	✓ 5.3					x							
3																
4		5056	Loop			xx		x								
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:

ROS

Watchkeeper(s):

MG

Bottom Depth:

3926

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time

UTC

Local

Start

1054

0357

Bottom

1130

End

1206

Positional Information

Start

Lat: 49 ° 30.018 N

Lon: 137 ° 39.946 W

Bottom

Lat: 49 ° 29.991 N

Lon: 137 ° 39.942 W

End

Lat: 49 ° 29.949 N

Lon: 137 ° 39.895 W

Extra comments:

+ loops

1 SAL 2 CHL

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID: 2023-088

Station: P20

Event #: 57

Ship: JP Tully

UTC Date (dd-mm-yyyy): 16.08.2023

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples								Comments
			Target Pressure	Confirmed ☒ Pressure	IOS Me-d	IOS Me-T	IOS Lig	Nut-F	Nut-C	SAL									
1		372	100		x	x	xx	x		x									
2		373	75		x	x													
3		374	50		x	x	xx												
4		375	35		x	x	xx												
5		376	10		x	x	xx												
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS

Watchkeeper(s): DC

Bottom Depth: 3966

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	1648	0948
Bottom	1708	
End	1730	

Positional Information

Start	Lat: 49 ° 33.986	N
	Lon: 138 ° 39.878	W
Bottom	Lat: 49 ° 33.978	N
	Lon: 138 ° 39.883	W
End	Lat: 49 ° 34.011	N
	Lon: 138 ° 39.921	W

Extra comments:

TM-Shallow

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments	
			Target Pressure	Confirmed Pressure	DMS	DMSP-d	DMSP-t	Nut-F	CHL	HPLC					Save sheet after printing labels: YES	
1		377	600	602	x	x	x	x								
2		378	400	401	x			xx								
3		379	300	300	x			xx								
4		380	200	201	x	x	x	x								
5		381	150	150	x	x	x	x								
6		382	100	101	x			x	x							
7		383	75	74	x			x	x							
8		384	60	60				x	x	xx						
9		385	50	50	x			x	x	xx						
10		386	40	39	xx			x	x	xx						
11		387	30	30	x	x	x	x	x	xx						
12		388	25	24	x			x	xx							
13		389	20	20	xx	xx	xx	x	x							
14		390	15	15	x			x	x	xx						
15		391	10	10	x			x	xx							
16		392	5	5	x	x	x									
17		393	5	5				x	x	xx						
18		394	0	2	x	x	x	x	x							
19																
20																
21																
22																
23																
24																

Profile type: ROS

Watchkeeper(s): SN

Bottom Depth: 3935

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	2001	1307
Bottom	2011	
End	2048	

Positional Information

Lat:	49 ° 34.04	N
Lon:	133 ° 39.765	W

Lat:	49 ° 33.952	N
Lon:	133 ° 39.973	W

Lat:	49 ° 33.993	N
Lon:	133 ° 39.943	W

Extra comments:

DMS

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID:

2023-088

Station:

P20

Event #:

61

Ship:

JP Tully

UTC Date (dd-mm-yyyy):

16 Aug 2023

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments	
			Target Pressure	Confirmed Pressure	IOS Me-d	IOS Me-T	IOS Lig	Nut-F	Nut-C	SAL							Save sheet after printing labels: YES	
			✓															
1		395	800			x	x		x	x	x							
2		396	600			x	x											
3		397	400			x	x											
4		398	200			xx	xx											
5		399	150			x	x											
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Version:

01-Dec-22

Profile type:

ROS

Watchkeeper(s):

DC

Bottom Depth:

3958

Trans Clean:

Y

N

FI. Clean:

Y

N

Par Status:

On

Off

	Time	UTC	Local
Start		20:58:21	13:58:21
Bottom		21:34:00	
End		22:18:25	

Positional Information

Start

Lat: 49 ° 33.994 N

Lon: 138 ° 39.949 W

Bottom

Lat: 49 ° 33.973 N

Lon: 138 ° 39.463 W

End

Lat: 49 ° 33.974 N

Lon: 138 ° 39.982 W

Extra comments:

TM-Deep

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID: 2023-088

Station: P20

Event #: 62

Ship: JP Tully

UTC Date (dd-mm-yyyy):

16.08.2023

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: Core_Samples								Comments	
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	DOC	TOC	CDOM	Trans	ONAr			Save sheet after printing labels: YES	
1	1	400	Bot-10	✓ 4025	xx		x	x	x	x	x	x						
2	2	401	3500	✓ 3499	x	xx	x	x	x	x	x	x						
3	3	402	3000	✓ 3001	x	x	x	x	x	x	x	x						
4	4	403	2500	✓ 2501	x	xx	x	x	x	x	x	x						
5	5	404	2000	✓ 1999	xx	x	x	x	x	x	x	x						
6	6	405	1500	✓ 1500	x	x	x	x	x	x	x	x						
7	7	406	1250	✓ 1250	x	x	x	x	x	x	x	x						
8	8	407	1000	✓ 1001	xx	x	xx	xx	x	x	x	x	x					
9	9	408	800	✓ 801	x	x	x	x	x	x	x	x						
10	10	409	600	✓ 600	x		x	x	xx	x	x	x						
11	11	410	400	✓ 400	x		x	x	x	x	x	x						
12	12	411	300	✓ 301	x		x		x	x	x	x						
13	13	412	250	✓ 252	x		x		x	x	x	x						
14	14	413	200	✓ 201	x		x		x	x	x	x						
15	15	414	175	✓ 176	x		x		x	x	x	x						
16	16	415	150	✓ 150	x		x		x	x	x	x						
17	17	416	125	✓ 126	x		x		x	x	x	x						
18	18	417	100	✓ 101	xx		x		x	x	x	x						
19	19	418	75	✓ 76	x		x		x	x	x	x						
20	20	419	50	✓ 51	x		x		x	x	x	x						
21	21	420	25	✓ 26	x		x		x	xx	xx	xx						
22	22	421	10	✓ 10	x		x		xx	x	x	x						
23	23	422	5	✓ 5	x		xx		x	x	x	x						
24	24	423	5	✓ 6									x	x				

Profile type:

ROS

Watchkeeper(s):

IB / SP

Bottom Depth:

3939 m

Trans Clean:

Y

/

N

FI. Clean:

Y

/

N

Par Status:

On

/

Off

Time

UTC

Local

Start

22:56:24

15:56

Bottom

00:03

17:08

End

01:56:30

18:56

Positional Information

Lat:

49 ° 33.932

N

Lon:

138 ° 40.036

W

Bottom

Lat:

49 ° 33.933

N

Lon:

138 ° 39.974

W

End

Lat:

49 ° 33.989

N

Lon:

138 ° 39.958

W

Extra comments:

Deep

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments				
			Target Pressure	Confirmed ✓	Pressure	Nut-F	CHL	HPLC	SAL	ONAr						Save sheet after printing labels: YES			
1		424	5	✓	5	x	xx	xx	x										
2		425	5	✓	5					X									
3																			
4		5063	Loop				xx		x										
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS

Watchkeeper(s): MG

Bottom Depth: 3932 m

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	06:33:18	23:33
Bottom	0712	
End	0801	

Positional Information

Lat:	49 ° 37.989	N
Lon:	139 ° 39.999	W

Lat:	49 ° 38.031	N
Lon:	139 ° 39.954	W

Lat:	49 ° 38.058	N
Lon:	139 ° 39.903	W

Extra comments:

+ loops

1 SAL 2 CHL

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID:

2023-088

Station:

P22

Event #:

64

Ship:

JP Tully

UTC Date (dd-mm-yyyy):

17-08-2023

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples				Comments	
			Target Pressure	Confirmed Pressure	Nut-F	CHL	HPLC	DOC	TOC	CDOM	ONAr	Sal				Save sheet after printing labels: YES
1		426	Bot-10	✓ 3996				x	x	x						
2		427	3500	✓ 3500				x	x	x		xx				
3		428	3000	✓ 3000				x	x	x		x				
4		429	2500	✓ 2500				x	x	x		x				
5		430	2000	✓ 2000				x	x	x		xx				
6		431	1500	✓ 1501				x	x	x		x				
7		432	1250	✓ 1250				x	x	x		x				
8		433	1000	✓ 1002				x	x	x		x		x		
9		434	800	✓ 801				x	x	x		x				
10		435	600	✓ 602				x	x	x		x				
11		436	400	✓ 401				x	x	x		x				
12		437	300	✓ 300				x	x	x		x				
13		438	250	✓ 250				x	x	x		x				
14		439	200	✓ 200				x	x	x		x				
15		440	175	✓ 176				x	x	x		x				
16		441	150	✓ 151				x	x	x		x				
17		442	125	✓ 125				x	x	x		x				
18		443	100	✓ 100				x	x	x		x				
19		444	75	✓ 75				x	x	x		x				
20		445	50	✓ 50				x	x	x		x				
21		446	25	✓ 25				x	x	x		x				
22		447	10	✓ 10				xx	xx	xx		x				
23		448	5	✓ 5				x	x	x		x		x		
24		449	5	✓ 6		x	x	xx				x				

Profile type: ROS

Watchkeeper(s): MG

Bottom Depth: 3875

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	1324	0624
Bottom	1436	
End	1645	

Positional Information

Start
Lat: 49 ° 41.943 N
Lon: 140 ° 39.928 WBottom
Lat: 49 ° 41.962 N
Lon: 140 ° 39.916 WEnd
Lat: 49 ° 41.968 N
Lon: 140 ° 39.948 W

Extra comments:

COLLECTED DIC DRUM
SURFACE HOSE

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID:

2023-088

Station:

P23

Event #:

66

Ship:

JP Tully

UTC Date (dd-mm-yyyy):

17-08-2023

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples								Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	CHL	HPLC	SAL	ONAr	NH4	Nut-c							
1	1	450	2005	✓ 2006				x										Label for jug, no sample
2	2	451	2005	✓ 2006				x										Label for jug, no sample
3	3	452	2005	✓ 2007				x										Label for jug, no sample
4	4	453	2005	✓ 2006						x								Label for jug, no sample
5	5	454	2005	✓ 2007						x								Label for jug, no sample
6	6	455	2005	✓ 2006						x								Label for jug, no sample
7	7	456	600	✓ 600							x							Label for jug, no sample
8	8	457	5	✓ 6							x							Label for jug, no sample
9	9	458	5	✓ 6	x	xx	xx	x										
10	10	459	5	✓ 6					x									
11																		
12		5066	Loop			xx		x										
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

bottle 9 - failed integrity, not sure if
bottom or ring damaged. Nut/HPLC/
chl taken anyways out of 10
instead

Profile type:

ROS

Watchkeeper(s):

Isabelle B.

Bottom Depth:

4022m

Trans Clean:

Y

N Fl. Clean:

Y

N

Par Status:

On

/

Off

Time

UTC

Local

Start

20:31:48

13:31

Bottom

21:08:20

14:08

End

21:47:19

14:47

Positional Information

Lat:

49 ° 46.028

N

Lon:

141 ° 39.959

W

Lat:

49 ° 46.028

N

Lon:

141 ° 40.029

W

Lat:

49 ° 46.045

N

Lon:

141 ° 40.064

W

Extra comments:

+ loops

NH4 and Nut-c: no samples, labels are for the jugs only.

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID:

2023-088

Station:

P24

Event #:

67

Ship:

JP Tully

UTC Date (dd-mm-yyyy):

18-08-2023

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments		
			Target Pressure	Confirmed Pressure	Nut-F	CHL	HPLC	DOC	TOC	CDOM	ONAr	Sal	Trans			Save sheet after printing labels: YES	
1	1	460	Bot-10	✓	4047				X	X	X						
2	2	461	3500	✓	3501				X	X	X		X				
3	3	462	3000	✓	3002				X	X	X		XX				Bulk water for DMS
4	4	463	2500	✓	2499				X	X	X		X				Bulk water for DMS
5	5	464	2000	✓	2001				X	X	X		X				
6	6	465	1500	✓	1499				X	X	X		X				
7	7	466	1250	✓	1250				X	X	X		X				
8	8	467	1000	✓	1000				X	X	X		X	X			
9	9	468	800	✓	801				X	X	X						
10	10	469	600	✓	600				X	X	X						
11	11	470	400	✓	400				X	X	X						
12	12	471	300	✓	300				X	X	X						
13	13	472	250	✓	250				X	X	X						
14	14	473	200	✓	200				X	X	X						
15	15	474	175	✓	176				X	X	X						
16	16	475	150	✓	150				X	X	X						
17	17	476	125	✓	126				X	X	X						
18	18	477	100	✓	100				X	X	X						
19	19	478	75	✓	76				X	X	X						
20	20	479	50	✓	50				X	X	X						
21	21	480	25	✓	26				X	X	X						
22	22	481	10	✓	10				X	X	X						
23	23	482	5	✓	5				XX	XX	XX			X			
24	24	483	5	✓	5	X	X	XX				X					

Profile type: **ROS**

Watchkeeper(s): **B**

Bottom Depth: **3958m**

Trans Clean: **Y** N Fl. Clean: Y / N

Par Status: On **Off**

Time	UTC	Local
Start	01:33:51	18:33
Bottom	02:44:39	19:44
End	04:17:39	21:17

Positional Information

Start Lat: **49 ° 50.193** N

Start Lon: **142 ° 40.009** W

Bottom Lat: **49 ° 50.187** N

Bottom Lon: **142 ° 39.963** W

End Lat: **49 ° 50.168** N

End Lon: **142 ° 39.943** W

Extra comments:

30s wait only on all bottles (not 60s for ≤400m)

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID:

2023-088

Station:

P25

Event #:

68

Ship:

JP Tully

UTC Date (dd-mm-yyyy):

18 08 2023

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples								Comments	
			Target Pressure	Confirmed ✓ Pressure	Nut-F	CHL	HPLC	SAL	ONAr									Save sheet after printing labels: YES	
1		484	5	✓ 5	x	xx	xx	x											
2		485	5	✓ 6					X										
3																			
4		5068	Loop			xx		x											
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS

Watchkeeper(s): MB

Bottom Depth: 4113

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time

UTC

Local

Start

0803

0103

Bottom

0845

End

0929

Positional Information

Start

Lat: 49 ° 59.972 N

Lon: 143 ° 36.264 W

Bottom

Lat: 50 ° 0.014 N

Lon: 143 ° 36.215 W

End

Lat: 50 ° 0.041 N

Lon: 143 ° 36.168 W

Extra comments:

+ loops

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken					Sample Lists: Core_Samples								Comments	
			Target Pressure	Confirmed	Pressure	Nut-F	CHL	HPLC	SAL	ONAr										Save sheet after printing labels: YES
			✓																	
1		486	5	✓	6	x	xx	xx	x											
2		487	5	✓	5					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

Watchkeeper(s): MG

Bottom Depth: 4119

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	1214	0516
Bottom	1235	
End	1259	

Positional Information

StartLat: 49 ° 59.973 N

StartLon: 144 ° 18.187 W

BottomLat: 49 ° 59.999 N

BottomLon: 144 ° 18.16 W

EndLat: 50 ° 00.019 N

EndLon: 144 ° 18.136 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: Core_Samples				Comments			
			Target Pressure	Confirmed	Nut-f	Bulk										
			Pressure	✓ Pressure												
1		488	20		x	X										
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: BOT

Watchkeeper(s): Moira

Bottom Depth: 4240

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	1534	0834
Bottom	1559	
End	1629	

Positional Information

Start	Lat: 49 ° 59.942	N
	Lon: 144 ° 59.923	W
Bottom	Lat: 49 ° 59.979	N
	Lon: 144 ° 59.944	W
End	Lat: 49 ° 59.993	N
	Lon: 144 ° 59.927	W

Extra comments:

TM-Bigelow

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments		
			Target Pressure	Confirmed Pressure	MA	MA	SR	SR	SR	HL	HL	HL	HL	HL	Save sheet after printing labels:	YES	
1		489	600	600	x	x	x	x									
2		490	400	400	x			x									
3		491	300	300	x			xx									
4		492	200	200	x	x	x	x									
5		493	150	149	x	x	x	x									
6		494	100	100	x			x	x								
7		495	75	75	x			x	x								
8		496	60	60				x	x	xx							
9		497	50	50	x			x	x	xx							
10		498	40	40	x			x	x	xx							
11		499	30	30	x	x	x	x	x	xx							
12		500	25	25	xx			x	xx								
13		501	20	20	xx	xx	xx	x	x								
14		502	15	15	x			x	x	xx							
15		503	10	10	x			x	xx								
16		504	5	5	x	x	x										
17		505	5	5				x	x	xx	x	x	x				
18		506	5	5										x	x		
19		507	0	2	x	x	x	x	x								
20																	
21																	
22																	
23																	
24																	

Profile type: ROS

Watchkeeper(s): SL

Bottom Depth:

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	1907	1207
Bottom	195	
End	1955	

Positional Information

Lat:	49° 59.972	N
Lon:	145° 0.001	W

Lat:	49° 59.953	N
Lon:	145° 0.003	W

Lat:	49° 59.974	N
Lon:	145° 0.015	W

Extra comments:

DMS

Please add a lugol sample at the CHL max - not another Niskin but where the max is.

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID:

2023-088

Station:

P26

Event #:

75

Ship:

JP Tully

UTC Date (dd-mm-yyyy):

18-08-2023

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists:				Core_Samples		Comments	
			Target Pressure	Confirmed Pressure			Cr								Save sheet after printing labels: YES	
1		508	2300				X									
2		509	1500				X									
3		510	1000				X									
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Version:

01-Dec-22

Profile type:

Pumps

Watchkeeper(s):

Isabelle Baconnais

Bottom Depth:

4243 m

Trans Clean:

NA

FI. Clean:

NA

Par Status:

Time

UTC

Local

Start

20:30:41

13:30:41

Bottom

20:52:36

End

00:49:36

Positional Information

Start

Lat:

49 59.99 N

Lon:

145 0.016 W

Bottom

Lat:

49 59.988 N

Lon:

145 0.031 W

End

Lat:

50 0.034 N

Lon:

145 0.019 W

Extra comments:

2000-pumps

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID:

2023-088

Station:

P26

Event #:

76

Ship:

JP Tully

UTC Date (dd-mm-yyyy):

19 Aug 2023

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments	
			Target Pressure	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	DOC	TOC	CDOM	Trans	Cr	Save sheet after printing labels: YES	
1		511	Bot-10	✓ 4319	x		x	x	x	x	x	x		x		
2		512	4000	✓ 4000	x	xx	x	x	x	x	x	x		x		DIDN'T CLOSE
3		513	3500	✓ 3501	xx	x	xx	xx	x	x	x	x		x		
4		514	3000	✓ 3000	x	xx	x	x	x	x	x	x		x		
5		515	2500	✓ 2500	x	x	x	x	x	x	x	x		x		
6		516	2000	✓ 2001	x	x	x	x	x	x	x	x	X	x		
7		517	1500	✓ 1500	xx	xx	x	x	x	x	x	x		x		
8		518	1250	✓ 1250	x	x	x	x	x	x	x	x				
9		519	1000	✓ 1000	x	x	x	x	x	x	x	x	X	x		
10		520	800	✓ 800	x		x	x	x	x	x	x		x		
11		521	600	✓ 600	x		x	x	x	x	x	x		x		
12		522	400	✓ 400	x		x		xx	x	x	x		x		
13		523	300	✓ 300	xx		x		x	x	x	x		x		
14		524	250	✓ 250	x		x		x	x	x	x		x		
15		525	200	✓ 200	x		x		x	x	x	x		x		
16		526	175	✓ 175	x		xx		x	x	x	x				
17		527	150	✓ 150	x		x		x	x	x	x		x		
18		528	125	✓ 125	x		x		x	x	x	x				
19		529	100	✓ 100	x		x		x	x	x	x		x		
20		530	75	✓ 75	x		x		x	x	x	x				
21		531	50	✓ 50	xx		x		x	xx	xx	xx		x		
22		532	25	✓ 25	x		x		xx	x	x	x		x		
23		533	10	✓ 10	x		x		x	x	x	x	X	x		
24		534	5	✓ 5	x		x		x	x	x	x	X	x		

Profile type:

ROS

Watchkeeper(s): SR / SK

Bottom Depth: 7216

Trans Clean: Y / N Fl. Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	0101	1801
Bottom	0217	
End	0353	

Positional Information

Start	Lat: 50° 0.035	N
	Lon: 144° 59.96	W
Bottom	Lat: 50° 0.002	N
	Lon: 144° 59.92	W
End	Lat: 49° 59.953	N
	Lon: 144° 59.98	W

Extra comments:

Deep

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments	
			Target Pressure	Confirmed	Pressure											Save sheet after printing labels:	
			✓	✓		Cr										YES	
1		535	100	✓	105			X									
2		536	45	✓	45			X									
3		537	5	✓	5			X									
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type: PUMPS

Watchkeeper(s): Isabella

Bottom Depth: 4242 m

Trans Clean: N/A Fl. Clean: N/A

Par Status: N/A

Time

UTC

Local

Start

04:31:00

Bottom

04:42:00

End

08:07:00

Positional Information

Lat:

49 59.993 N

Lon:

144 59.978 W

Bottom

Lat:

49 59.993 N

Lon:

144 59.978 W

End

Lat:

49 59.965 N

Lon:

145 0.036 W

Extra comments:

100-Pumps

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID:

2023-088

Station:

P26

Event #:

78

Ship:

JP Tully

UTC Date (dd-mm-yyyy):

19 . 08 . 2023

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments	
			Target Pressure	Confirmed	Me-d	Me-T	Lig	Nut-F	Nut-C	SAL							Save sheet after printing labels:	YES
			✓	Pressure														
1		538	1500			x	x		x	x	x							
2		539	1200			xx	xx											
3		540	1000			x	x											
4		541	800			x	x											
5		542	600			x	x											
6		543	400			x	x											
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:	ROS
Watchkeeper(s):	DC

Bottom Depth:	4242	
Trans Clean:	Y / N	
FI. Clean:	Y / N	
Par Status:	On / Off	
Time	UTC	Local
Start	0850	
Bottom MR	0935	
End	1043	

Positional Information			
Lat:	50 ° 0.024	N	
Lon:	144 ° 59.902	W	
Start			
Bottom	Lat:	50 ° 0.04	N
	Lon:	144 ° 59.934	W
End	Lat:	50 ° 0.068	N
	Lon:	144 ° 59.821	W

Extra comments:
TM-Deep

Water Properties Group

Program
STN List:

Line_P

Sampling Log

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

Cruise ID:

2023-088

Station:

P26

Event #:

79

Ship:

JP Tully

UTC Date (dd-mm-yyyy):

19-08-2023

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments	
			Target Pressure	Confirmed	Pressure												Save sheet after printing labels: YES
				✓				Cr									
1	1	544	800	✓	800			X									
2	2	545	400	✓	400			X									
3	3	546	250	✓	250			X									
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Version:

01-Dec-22

Profile type:

Pumps

Watchkeeper(s):

Isabelle Baconnais

Bottom Depth:

4236 m

Trans Clean:

NA

FI. Clean:

NA

Par Status:

Time

UTC

Local

Start

10:52:51

03:52:51

Bottom

11:17:56

End

14:56:38

Positional Information

Start

Lat:

50 0.007 N

Lon:

144 59.942 W

Bottom

Lat:

50 0.003 N

Lon:

144 59.979 W

End

Lat:

49 59.983 N

Lon:

145 0.027 W

Extra comments:

800-Pumps

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments	
			Target Pressure	Confirmed	✓	Pressure	IOS	IOS	IOS	Nut-F	Nut-C	SAL						Save sheet after printing labels:
				√			Me-d	Me-T	Lig									YES
1		547	200				x	x		x		x						
2		548	150				x	x										
3		549	100				x	x	xx									
4		550	75				x	x										
5		551	50				x	x	xx									
6		552	35				x	x	xx									
7		553	10				x	x	xx									
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type: ROS BOT

Watchkeeper(s): DC

Bottom Depth: 4230

Trans Clean: Y / N EL Clean: Y / N

Par Status: On / Off

Time	UTC	Local
Start	<u>1551</u>	<u>0851</u>
Bottom HR	<u>1613</u>	
End	<u>1633</u>	

Positional Information

Start	Lat: <u>50</u> ° <u>0.040</u>	<u>N</u>
	Lon: <u>144</u> ° <u>59.861</u>	<u>W</u>

Bottom	Lat: <u>50</u> ° <u>0.108</u>	<u>N</u>
	Lon: <u>144</u> ° <u>59.920</u>	<u>W</u>

End	Lat: <u>50</u> ° <u>0.144</u>	<u>N</u>
	Lon: <u>144</u> ° <u>59.930</u>	<u>W</u>

Extra comments:

TM-Shallow