Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: Haro59 | Event #: 3 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 3 MARCH 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	OXY	Nut-F	DIC	CHL	HPLC									Comments (Save sheet after printing labels: YES)
						Sampler's Initials / Samples Taken					Sample Lists: Core_Samples								
1	1	1	Bot-10	✓	224	x	x	x											30 sec Soak
2	2	2	200	✓	200	x	x	x											
3	3	3	175	✓	175	x	xx	x											
4	4	4	150		150	xx	x	xx											60 second Soak
5	5	5	125	✓	125	x	x	x											
6	6	6	100	✓	100	x	x	x											
7	7	7	80	✓	80	x	x	x											
8	8	8	60	✓	60	xx	x	x											
9	9	9	50	✓	50	x	x	x	x										
10	10	10	40	✓	40	x	x	xx	x										
11	11	11	30	✓	30	x	x	x	x										
12	12	12	20	✓	20	x	x	x	xx										
13	13	13	10	✓	10	x	x	x	x										
14	14	14	5	✓	5	x	x	x	x										
15	15	15	0	✓	0.9	x	x	x	x	xx									
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: Ros

Watchkeeper(s): MB

Bottom Depth: 237

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

Par Status: (On) / Off

Time	UTC	Local
Start	2204	1404
Bottom	2209	
End	2232	

Positional Information

Start	Lat:	48 °	36	871	N
	Lon:	123 °	14	934	W
Bottom	Lat:	48 °	36	855	N
	Lon:	123 °	14	878	W
End	Lat:	48 °	36	442	N
	Lon:	123 °	15	074	W

Extra comments:

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: JF2 | Event #: 7 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 4 mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	OXY	Nut-F	DIC	CHL	HPLC									Comments (Save sheet after printing labels: YES)
1	1	16	Bot-10	✓	176	x	x												30 sec Soak
2	2	17	150	✓	150	x	x												60 sec Soak
3	3	18	125	✓	125	x	x												
4	4	19	100	✓	100	x	x												
5	5	20	80	✓	80	xx	xx												
6	6	21	60	✓	60	x	x												
7	7	22	50	✓	50	x	x	x	x										
8	8	23	40	✓	40	x	x		xx										
9	9	24	30	✓	30	xx	x		x										
10	10	25	20	✓	20	x	x		x										
11	11	26	10	✓	10	x	x	x	x										
12	12	27	5	✓	5	x	x	x	x										
13	13	28	0	✓	10	x	x	x	x	xx									
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

Profile type: Ros

Watchkeeper(s): MB

Bottom Depth: 190

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

Par Status: (On) / Off

Time	UTC	Local
Start	03 29	1929
Bottom	03 32	
End	03 52	

Positional Information

Start	Lat:	48 °	18 .060	N
	Lon:	124 °	0 .140	W
Bottom	Lat:	48 °	18 .080	N
	Lon:	124 °	0 .210	W
End	Lat:	48 °	18 .220	N
	Lon:	124 °	0 .650	W

Extra comments:

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: P1 | Event #: 11 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 04 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	OXY	Nut-F	CHL	HPLC	DIC									Comments (Save sheet after printing labels: YES)
						Sampler's Initials / Samples Taken						Sample Lists: Core_Samples							
1	1	29	Bot-10	✓	104	x	x			x									
2	2	30	30	✓		x	x			xx									
3	3	31	5	✓		xx	xx	x	xx	x									
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: RoS

Watchkeeper(s): GC

Bottom Depth: ~118

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

Par Status: (On) / Off

Time	UTC	Local
Start	1011	0211
Bottom	1014	
End	1020	

Positional Information

Start	Lat:	48 °	34.570	N
	Lon:	125 °	29.777	W
Bottom	Lat:	48 °	34.540	N
	Lon:	125 °	29.727	W
End	Lat:	48 °	34.600	N
	Lon:	125 °	29.630	W

Extra comments:

Stopped @ 25m due to wire angle.

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: P2 Event #: 12 Ship: JP Tully UTC Date (dd|mmm|yyyy): 2022 Mar 03 04

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	OXY	Nut-f	DIC	TOC	CHL	HPLC	VAR							Comments (Save sheet after printing labels: YES)
1	1	32	Bot-10	✓	105.9	x	x	x	x										
2	2	33	100	✓	100.3	x	x	xx	x										
3	3	34	75	✓	75.3	x	x	x	x										
4	4	35	75	✓	75.4	x	x	x	x	x									
5	5	36	50	✓	50.2	xx	x	x	x	xx									
6	6	37	50	✓	50.2							X							
7	7	38	30	✓	29.7		xx			x	xx								
8	8	39	25	✓	24.5	x	x	x	x										
9	9	40	25	✓	"		x			x	xx								
10	10	41	20	✓	19.8		x			x	xx								
11	11	42	15	✓	15.1		x			x	xx								
12	12	43	10	✓	10.0	x	x	x	xx										
13	13	44	10	✓	"		x			x	xx								
14	14	45	5	✓	5	x	x	x	x										
15	15	46	5	✓	5		x			x	xx								
16	16	47	5	✓	5							X							
17	17	48	Chl Max	✓	5							X							Depth = 5
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

Profile type: ROS

Watchkeeper(s): RF

Bottom Depth: 118

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

Par Status: (On) / Off

	Time UTC	Local
Start	1315	0515
Bottom	1318	
End	1331	

Positional Information

Start	Lat:	48 ° 36.080	N
	Lon:	125 ° 59.920	W
Bottom	Lat:	48 ° 36.080	N
	Lon:	125 ° 59.930	W
End	Lat:	48 ° 36.080	N
	Lon:	125 ° 59.980	W

Extra comments:

Water Properties Group | Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 | Station: P3 | Event #: 14 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 04 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: Nut-F	CHL	HPLC	VAR					Sample Lists: Core_Samples					Comments (Save sheet after printing labels: YES)
1	1	49	5	✓	5.3	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): RF

Bottom Depth: ~~826~~ 754

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

Par Status: On / Off

Time	UTC	Local
Start	1547	0747
Bottom	1601	
End	1615	

Positional Information

Start	Lat:	48 ° 37.600	N
	Lon:	126 ° 19.963	W
Bottom	Lat:	48 ° 37.640	N
	Lon:	126 ° 20.041	W
End	Lat:	48 ° 37.626	N
	Lon:	126 ° 20.089	W

Extra comments:

:)

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: P4 Event #: 9 Ship: JP Tully UTC Date (dd|mmm|yyyy): 4 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Nut-f	CHL	HPLC	VAR									Comments
1	1	50	1000	✓	1000				X									
2	2	51	500	✓	500				X									
3	3	52	200	✓	200				X									
4	4	53	60	✓	60	x	x	xx										
5	5	54	50 (bottom)	✓	50				X									
6	6	55	50	✓	50	x	xx	xx										
7	7	56	40	✓	40	xx	x	xx										
8	8	57	30	✓	30	x	x	xx										
9	10	58	15	✓	15	x	x	xx										
10	11	59	5	✓	5	x	xx	xx										
11	12	60	5	✓	5				X									
12	9	61	Chl Max *	✓	20				X									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Sampler's Initials / Samples Taken — Sample Lists: Core_Samples

Comments — Save sheet after printing labels: YES

Profile type: Ros

Watchkeeper(s): MB

Bottom Depth: 1320

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

Par Status: (On) / Off

Time	UTC	Local
Start	20 03	12 03
Bottom	20 20	
End	20 47	

Positional Information

Start	Lat:	48	°	39	110	N
	Lon:	126	°	39	960	W
Bottom	Lat:	48	°	39	080	N
	Lon:	126	°	39	990	W
End	Lat:	48	°	39	020	N
	Lon:	126	°	39	936	W

Extra comments:

HPLC + VAR

OUT-OF-ORDER

Water Properties Group | Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 | Station: P4 | Event #: 20 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 04 / MAR / 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	NUT-F	NUT-C	Sal			Core_Samples					Comments (Save sheet after printing labels: YES)
r7		62	800			x	x		x	x	x								
6		63	600			xx	xx												
r5		64	400			x	x												
r4		65	200			x	x												
3		66	150			x	x												
r2		67	100			x	x	xxx											

Profile type: Go-flos

Watchkeeper(s): DC

Bottom Depth: 1320

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

Par Status: On / Off

Time	UTC	Local
Start	2105	1305
Bottom	2131	
End	2208	

Positional Information

Start	Lat:	48 ° 38.99	N
	Lon:	126 ° 39.98	W
Bottom	Lat:	48 ° 38.98	N
	Lon:	126 ° 40.02	W
End	Lat:	48 ° 38.97	N
	Lon:	126 ° 40.07	W

Extra comments:

TM-Deep

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: P4 Event #: 71 Ship: JP Tully UTC Date (dd|mmm|yyyy): 4 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	OXY (MB/JS)	Sal (MB)	Nut-F (JODY →)	Nut-C	DIC (MB)	TOC (JS)	Nut-S-F (JODY →)	Nut-S-C	Alk (MB)					Comments (Save sheet after printing labels: YES)
1	1	68	Bot-10	✓	1323	x		x	x	x	x	x	x	x					
2	2	69	1250	✓	1250	x	x	x	x	x	x	x	x	x					
3	3	70	1250	✓	1250	x	x	x	x	x	x	x	x	x					
4	4	71	1000	✓	1000	xx	xx	x	x	x	x	x	x	x					
5	5	72	800	✓	800	x	x	x	x	x	x	x	x	x					
6	6	73	600	✓	600	x		xx	xx	x	x	xx	xx	x					
7	7	74	400	✓	400	x		x	x	x	x	x	x	x					
8	8	75	300	✓	300	x		x		xx	x	x		x					
9	9	76	250	✓	250	xx		x		x	x	x		x					START USING
10	10	77	200	✓	200	x		x		x	x	x		x					PIPETTE FOR Hg Cl_2
11	11	78	175	✓	175	x		x		x	x	x		x					
12	12	79	150	✓	150	x		x		x	x	x		x					
13	13	80	125	✓	125	x		x		x	x	x		x					
14	14	81	100	✓	100	x		x		x	x	x		x					
15	15	82	75	✓	75	x		xx		x	x	xx		x					
16	16	83	50	✓	50	x		x		x	x	x		x					
17	17	84	25	✓	25	xx		x		x	x	x		x					
18	18	85	10	✓	10	x		x		x	x	x		x					
19	19	86	5	✓	5	x		x		x	xx	x		x					
20																			
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

Profile type: Ros

Watchkeeper(s): MB

Bottom Depth:

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

Par Status: On / Off

Time	UTC	Local
Start	2215	1415
Bottom	2238	
End	2316	

Positional Information

Start	Lat:	48	°	38	980	N
	Lon:	126	°	40	050	W
Bottom	Lat:	48	°	38	980	N
	Lon:	126	°	40	120	W
End	Lat:	48	°	38	980	N
	Lon:	126	°	40	120	W

Extra comments:

Deep

DIC and Alk in different totes please

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 **Station:** P4 **Event #:** 22 **Ship:** JP Tully **UTC Date (dd|mmm|yyyy):** 4 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	Nut-F Sal	Nut-C	Sal						Comments (Save sheet after printing labels: YES)
r4		87	75			x	x				x		x						
3		88	50			x	x	xxx											
r2		89	35			x	x	xxx	x	x									
1		90	10			x	x	xxx	x	x									

Profile type: Bot

Watchkeeper(s): DC

Bottom Depth: 1320

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

Par Status: On / Off

Time	UTC	Local
Start	2324	1524
Bottom	2339	
End	2352	

Positional Information

Start	Lat:	48 °	38	974	N
	Lon:	126 °	40	102	W
Bottom	Lat:	48 °	38	969	N
	Lon:	126 °	40	139	W
End	Lat:	48 °	38	979	N
	Lon:	126 °	40	201	W

Extra comments:

TM-Shallow

Water Properties Group | Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 | Station: P5 | Event #: 24 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 05 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: Nut-F	CHL	HPLC	SAL	VAR				Sample Lists: Core_Samples					Comments (Save sheet after printing labels: YES)
1	1	91	5	✓	6.2	x	xx	xx	x										
2																			
3		5024	Loop				xx		x										
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS

Watchkeeper(s): JS

Bottom Depth: 2110

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

Par Status: (On) / Off

Time	UTC	Local
Start	0351	~~2001~~ 1950 ?
Bottom	0425	~~2025~~
End	0500	2100

Positional Information

Start	Lat:	48 °	41.455	N
	Lon:	127 °	09.938	W
Bottom	Lat:	48 °	41.472	N
	Lon:	127 °	09.984	W
End	Lat:	48 °	41.492	N
	Lon:	127 °	09.963	W

Extra comments:

Loops

Water Properties Group Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: P8 Event #: 28 Ship: JP Tully UTC Date (dd|mmm|yyyy): 05-Mar-2022

Niskin #	Firing #	Sample #	Rosette Operation Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken OXY (MB/DC)	SAL (DC)	NUT-F (JK)	NUT-C (JK)	CHL (JK/JS)	HPLC (MB/JS)	TOC (JK/JS)	VAR (on)	Sample Lists: Core_Samples					Comments (Save sheet after printing labels: YES)
1	1	92	2000	✓		x	xx	x	x			x							
2	2	93	1500	✓		x	x	xx	xx			x							
3	3	94	1250	✓		xx	x	x	x			x							
4	4	95	1000	✓	1000	x	xx	x	x			x							
5	5	96	800	✓	800	x	x	x	x			x							
6	6	97	600	✓	600	x	x	x	x			x							
7	7	98	400	✓	400	x		x	x			x							
8	8	99	300	✓	300	x		x				x							
9	9	100	250	✓	250	x		x				x							
10	10	101	200	✓	200	xx		x				x							
11	11	102	200	✓	200								X						
12	12	103	150	✓	150	x		x				x							
13	13	104	100	✓	100	x		x		x		x							
14	14	105	75	60 sec ✓	75	x		x		xx		x							
15	15	106	60	✓	60	x		xx		x	xx	x							
16	16	107	50	✓	50	x		x		x	xx	x							
17	18	108	40	✓	40	xx		x		x	xx	x							
18	19	109	30	✓	30	x		x		x	xx	xx							
19	20	110	25	✓	25	x		x		x		x							
20	21	111	15	✓	15	x		x		x	xx	x							
21	22	112	10	✓	10	x		x		xx		x							
22	23	113	5	✓	5	x		x		x	xx	x							
23	24	114	5		5								X						
24	17	115	Chl Max	60 sec ✓	50								X						

Profile type: ROS

Watchkeeper(s): GC/MB

Bottom Depth: 2556

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

Par Status: On / Off

Time	UTC	Local
Start	1851	1051
Bottom	1925	
End	2019	

Positional Information

Start	Lat: 48	°	48.990	N
	Lon: 128	°	40.000	W
Bottom	Lat: 48	°	49.070	N
	Lon: 128	°	40.070	W
End	Lat: 48	°	49.070	N
	Lon: 128	°	40.070	W

Extra comments:

Replaced Y-cable to DO sensor just before cast.

OUT-OF-ORDER

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 **Station:** P9 **Event #:** 30 **Ship:** JP Tully **UTC Date (dd|mmm|yyyy):** 06 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: Nut-F	CHL	HPLC	SAL	VAR				Sample Lists: Core_Samples					Comments (Save sheet after printing labels: YES)
1	1	116	5	✓	5	x	xx	xx	x										
2																			
3		5030	Loop				xx		x										
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: R05

Watchkeeper(s): JS

Bottom Depth: 2593

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

Par Status: On / Off

Time	UTC	Local
Start	0013	1613
Bottom	0048	1648
End	0120	

Positional Information

Start	Lat:	48 ° 51.356	N
	Lon:	129 ° 09.960	W
Bottom	Lat:	48 ° 51.360	N
	Lon:	129 ° 09.920	W
End	Lat:	48 ° 51 362	N
	Lon:	129 ° 9 922	W

Extra comments:

Loops

Water Properties Group | Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 | Station: P10 | Event #: 31 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 6 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: Nut-F	CHL	HPLC											Comments (Save sheet after printing labels: YES)
												Sample Lists: Core_Samples							
1	1	117	5	✓	5	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): MB

Bottom Depth:

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

Par Status: (On) / Off

Time	UTC	Local
Start	0451	2051
Bottom	0526	
End	0600	

Positional Information

Start	Lat:	48 °	53	560	N
	Lon:	129 °	39	990	W
Bottom	Lat:	48 °	53	560	N
	Lon:	129 °	40	040	W
End	Lat:	48 °	53	570	N
	Lon:	129 °	39	990	W

Extra comments:

Water Properties Group | Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 | Station: P11 | Event #: 33 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 06 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: Nut-F	CHL	HPLC	SAL	VAR				Sample Lists: Core_Samples					Comments (Save sheet after printing labels: YES)
1		118	5			x	xx	xx	x										
2																			
3		5033	Loop				xx		x										
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS

Watchkeeper(s): RF

Bottom Depth: 2779

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

Par Status: On / Off

Time	UTC	Local
Start	0904	0104
Bottom	0943	
End	1022	

Positional Information

Start	Lat:	48 ° 56.062	N
	Lon:	130 ° 10.058	W
Bottom	Lat:	48 ° 56.066	N
	Lon:	130 ° 9.991	W
End	Lat:	48 ° 56.183	N
	Lon:	130 ° 10.122	W

Extra comments:

Loops

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 **Station:** P12 **Event #:** 34 **Ship:** JP Tully **UTC Date (dd|mmm|yyyy):** 06 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: NUT-F	CHL	HPLC	VAR	Sample Lists: Core_Samples	Comments (Save sheet after printing labels: YES)
1	1	119	1000	✓	1000				X		
2	2	120	500	✓	500.0				X		
3	3	121	200	✓	200.9				X		
4	4	122	60	✓	60.9	x	x	xx			
5	5	123	50	✓	50				X		
6	6	124	50	✓	50	x	x	xx			
~~7~~ 13	~~8~~	125	40	✓	40.1	x	x	xx			Mistake. Fired 13 instead of 7.
8	9	126	30	✓	31.1	x	xx	xx			
9	10	127	15	✓	15.7	xx	x	xx			
10	11	128	5	✓	5	x	x	xx			
11	12	129	5	✓	5				X		
12	17	130	Chl Max	✓	50				X		50m.
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											

Profile type: ROS
Watchkeeper(s): RF

Bottom Depth: 3029
Trans Clean: (Y) / N **Fl. Clean:** Y / N
Par Status: (On) / Off

Time	UTC	Local
Start	1327	0527
Bottom	1344	
End	1411	0611

Positional Information

Start	Lat:	48 ° 58.180	N
	Lon:	130 ° 40.010	W
Bottom	Lat:	48 ° 58.153	N
	Lon:	130 ° 40.033	W
End	Lat:	48 ° 58.13	N
	Lon:	130 ° 40.01	W

Extra comments:

HPLC & VAR

OUT-OF-ORDER

Water Properties Group Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: P12 Event #: 37 Ship: JP Tully UTC Date (dd|mmm|yyyy): 6 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	Nut-F Sal	Nut-C	Sal	Core_Samples						Comments (Save sheet after printing labels. YES)
r4		131	75			x	x				x		x							
3		132	50			x	x													
r2		133	35			x	x		x	x										
1		134	10			x	x		x	x										

Profile type: BOT

Watchkeeper(s): DC

Bottom Depth: 3236

Trans Clean: Y ~~N~~ Fl. Clean: Y ~~N~~

Par Status: On ~~Off~~

Time	UTC	Local
Start	1715	0915
Bottom	1727	
End	1738	

Positional Information

Start	Lat:	48 °	58	537	N
	Lon:	130 °	39	716	W
Bottom	Lat:	48 °	58.48		N
	Lon:	130 °	39.76		W
End	Lat:	48 °	58.49		N
	Lon:	130 °	39.72		W

Extra comments:

TM-Shallow

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: P12 Event #: 38 Ship: JP Tully UTC Date (dd|mmm|yyyy): 06 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	OXY (ms/JS)	SAL (MR)	Nut-F (JS→)	Nut-C	DIC (mr)	TOC (JT)								Comments (Save sheet after printing labels: YES)
1	1	135	Bot-10	✓	3275.7	xx		x	x	x	x								
2	2	136	3000	✓	2999.0	x	x	x	x	x	x								
3	3	137	3000	✓	2999.7	x	x	x	x	x	x								
4	4	138	2500	✓	2501.3	x	xx	xx	xx	x	x								
5	5	139	2000	✓	2000.2	x	x	x	x	x	x								
6	6	140	1500	✓	1500.8	xx	x	x	x	x	x								
7	7	141	1250	✓	1249.6	x	xx	x	x	x	x								
8	8	142	1000	✓	1000.5	x	x	x	x	x	x								
9	9	143	800	✓	800.7	x	x	x	x	x	x								
10	10	144	600	✓	600	x		x	x	xx	x								
11	11	145	400	✓	400	x		x	x	x	x								
12	12	146	300	✓	300	x		x		x	x								
13	13	147	250	✓	250	x		x		x	x								
14	14	148	200	✓	200	x		x		x	x								
15	15	149	175	✓	175	x		x		x	x								
16	16	150	150	✓	150	x		x		x	x								
17	17	151	125	✓	125	x		x		x	x								
18	18	152	100	✓	100	x		x		x	x								
19	19	153	75	✓	75	x		x		x	x								
20	20	154	50	✓	50	x		x		x	x								
21	21	155	25	✓	25	x		x		x	x								
22	22	156	10	✓	10	xx		x		x	x								
23	23	157	5	✓	5	x		x		x	xx								
24																			

Sample Lists: Core_Samples

Profile type: Ros

Watchkeeper(s): RF/MB

Bottom Depth: 3196

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

Par Status: On / (Off)

Time	UTC	Local
Start	1758	0958
Bottom	1853	
End	2005	

Positional Information

Start	Lat:	48 ° 58.502	N
	Lon:	130 ° 39.758	W
Bottom	Lat:	48 ° 58.494	N
	Lon:	130 ° 39.912	W
End	Lat:	48 ° 58 523	N
	Lon:	130 ° 39 781	W

Extra comments:

Deep

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: P12 | Event #: 39 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 6 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: IOS DMe	IOS TMe	IOS Lig	NUT-F	NUT-C	Sal			Sample Lists: Core_Samples					Comments (Save sheet after printing labels: YES)
r7		158	800			x	x		x	x	x								
6		159	600			x	x												
r5		160	400			x	x												
r4		161	200			xx	xx												
3		162	150			x	x												
r2		163	100			x	x												

Profile type: BOT DG/JK

Watchkeeper(s):

Bottom Depth: 3242

Trans Clean: ~~Y~~ N Fl. Clean: ~~Y~~ N

Par Status: On ~~Off~~

Time	UTC	Local
Start	2013	1213
Bottom	2035	
End	2133	

Positional Information

Start	Lat:	48°	58.553	N
	Lon:	130°	39.740	W
Bottom	Lat:	48°	58.58	N
	Lon:	130°	39.75	W
End	Lat:	48°	58.67	N
	Lon:	130°	39.76	W

Extra comments:

TM-Deep

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 **Station:** P13 **Event #:** 41 **Ship:** JP Tully **UTC Date (dd|mmm|yyyy):** 07 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: NUT-F	SAL	CHL	HPLC	AML									Comments
													Sample Lists: Core_Samples						Save sheet after printing labels: YES
1	1	164	2005	✓	2004.2					X									
2	2	165	2005	✓	2004.4					X									
3	3	166	2005	✓	2003.6					X									
4	4	167	2005	✓	2005.5					X									
5	5	168	2005	✓	2005					X									
6	6	169	2005	✓	2005					X									
7	7	170	2005	✓	2005					X									
8	8	171	2005	✓	2005					X									
9	9	172	2005	✓	2005					X									
10	10	173	2005	✓	2005					X									
11	11	174	2005	✓	2005					X									
12	12	175	2005	✓	2005					X									
13	13	176	2005	✓	2005					X									
14	14	177	2005	✓	2005					X									
15	15	178	2005	✓	2005					X									
16	16	179	2005	✓	2005					X									
17	17	180	2005	✓	2005					X									
18	18	181	2005	✓	2005					X									
19	19	182	2005	✓	2005					X									
20	20	183	2005	✓	2005					X									
21	21	184	2005	✓	2005					X									
22	22	185	5	✓	5.2	x	x	xx	xx										
23																			
24		5041	Loop				x	xx											

Profile type: ROS

Watchkeeper(s): JS

Bottom Depth:

Trans Clean: yes Fl. Clean: no

Par Status: On / Off

Time	UTC	Local
Start	0238	1838
Bottom	0312	1912
End	0348	1948

Positional Information

Start	Lat:	49° 02.580
	Lon:	131° 40.070
Bottom	Lat:	49° 02.600
	Lon:	131° 40.210
End	Lat:	49° 02.620
	Lon:	131° 40.240

Extra comments:

comments

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: P14 | Event #: 43 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 7 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	SAL	Nut-F	CHL	HPLC	TOC									Comments
						Sampler's Initials / Samples Taken					Sample Lists: Core_Samples								Save sheet after printing labels: YES
1	1	186	Bot-10	✓	3359.9					x									
2	2	187	3000	✓	3002.1	xx				x									
3	3	188	2500	✓	2502.0	x				x									
4	4	189	2250	✓	2251.2	x				x									
5	5	190	2000	✓	1999.6	x				x									
6	6	191	1750	✓	1749.8	x				x									
7	7	192	1500	✓	1501.0	x				x									
8	8	193	1250	✓	1250.0	xx				x									
9	9	194	1000	✓	999.4	x				x									
10	10	195	800	✓	800.7					x									
11	11	196	600	✓	599.7					x									
12	12	197	400	✓	400.5					x									
13	13	198	300	✓	301.0					x									
14	14	199	250	✓	248.5					x									
15	15	200	200	✓	201.0					x									
16	16	201	175	✓	175.5					x									
17	17	202	150	✓	149.3					x									
18	18	203	125	✓	125.6					x									
19	19	204	100	✓	101.4					x									
20	20	205	75	✓	74.7					x									
21	21	206	50	✓	50.0					x									
22	22	207	25	✓	25.3					x									
23	23	208	10	✓	11.3					xx									
24	24	209	5	✓	5.0	x	x	x	xx	x									

Profile type: ROS

Watchkeeper(s): RF

Bottom Depth: 3339

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

Par Status: On / (Off)

Time	UTC	Local
Start	0828	0028
Bottom	0924	
End	1035	

Positional Information

Start	Lat:	49 °	7.480	N
	Lon:	132 °	40.040	W
Bottom	Lat:	49 °	7.490	N
	Lon:	132 °	40.020	W
End	Lat:	49 °	7.470	N
	Lon:	132 °	40.020	W

Extra comments:

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: P15 Event #: 45 Ship: JP Tully UTC Date (dd|mmm|yyyy): 7 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: NUT-F	SAL	CHL	HPLC	AML				Sample Lists: Core_Samples					Comments (Save sheet after printing labels: YES)
1	1	210	2005	✓	2005					X									
2	2	211	2005							X									
3	3	212	2005							X									
4	4	213	2005							X									
5	5	214	2005							X									
6	6	215	2005							X									
7	7	216	2005							X									
8	8	217	2005							X									
9	9	218	2005							X									
10	10	219	2005							X									
11	11	220	2005							X									
12	12	221	2005							X									
13	13	222	2005							X									
14	14	223	2005							X									
15	15	224	2005							X									
16	16	225	2005							X									
17	17	226	2005							X									
18	18	227	2005							X									
19	19	228	2005							X									
20	20	229	2005							X									
21	21	230	2005	✓	2005					X									
22	22	231	5	✓	5.8	x	x	xx	xx										
23																			
24		5045	Loop				x	xx											

Profile type: ROS

Watchkeeper(s): RF

Bottom Depth: 3400

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

Par Status: (On) / Off

Time	UTC	Local
Start	1533	0733
Bottom	1607	0807
End	1640	0840

Positional Information

Start	Lat:	49 ° 11.923	N
	Lon:	133 ° 39.844	W
Bottom	Lat:	49 ° 11.854	N
	Lon:	133 ° 39.880	W
End	Lat:	49 ° 11.766	N
	Lon:	133 ° 39.924	W

Extra comments:

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: P16 Event #: 46 Ship: JP Tully UTC Date (dd|mmm|yyyy): 7 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: DC NUT-F	DC CHL	MB HPLC	O VAR					Sample Lists: Core_Samples					Comments (Save sheet after printing labels: YES)
1	1	232	1000	✓	1000				X										
2	2	233	500	✓	500				X										
3	3	234	200	✓	200				X										
4	4	235	60	✓	60	x	x	xx											
5	5	236	50	✓	50				X										
6	6	237	50	✓	50	x	x	xx											
7	8	238	40	✓	40	xx	x	xx											
8	9	239	30	✓	30	x	x	xx											
9	10	240	15	✓	15	x	x	xx											
10	11	241	5	✓	5	x	xx	xx											
11	12	242	5	✓	5				X										
12	7	243	Chl Max	✓	50				X										
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: Ros

Watchkeeper(s): MB

Bottom Depth: 3638

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

Par Status: (On) / Off

Time	UTC	Local
Start	21 35	1335
Bottom	21 52	
End	2217	

Positional Information

Start	Lat:	49 °	17 000	N
	Lon:	134 °	49 485	W
Bottom	Lat:	49 °	17 018	N
	Lon:	134 °	39 986	W
End	Lat:	49 °	17 015	N
	Lon:	134 °	39 990	W

Extra comments:

HPLC & VAR

OUT-OF-ORDER!

Water Properties Group | Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 | Station: P16 | Event #: 49 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 8 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	Nut-F Sal	Nut-C	Sal						Comments (Save sheet after printing labels: YES)
r4		244	75			x	x				x		x						
3		245	50			x	x	xxx											
r2		246	35			x	x	xxx	x	x									
1		247	10			x	x	xxx	x	x									Broke Tap on rail

Profile type: BOT

Watchkeeper(s): DC

Bottom Depth: 3632

Trans Clean: Y ~~N~~ Fl. Clean: Y ~~N~~

Par Status: On ~~Off~~

Time	UTC	Local
Start	0032	1632
Bottom	0041	
End	0055	

Positional Information

Start	Lat:	49 °	16	98	N
	Lon:	134 °	40	07	W
Bottom	Lat:	49 °	16	98	N
	Lon:	134 °	40	30	W
End	Lat:	49 °	16	97	N
	Lon:	134 °	40	03	W

Extra comments:

TM-Shallow

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: P16 Event #: 50 Ship: JP Tully UTC Date (dd|mmm|yyyy): 8 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation Target Pressure	Confirmed √	Confirmed Pressure	OXY (MB/JS)	Sal (MB)	Nut-F (MB)	Nut-C	TOC (JS)	Nut-S-F (MB)	Nut-S-C (JS)							Comments (Save sheet after printing labels: YES)
1	1	248	Bot-10	✓	3683	x		x	x	x	x	x							
2	2	249	3500	✓	3500	x	x	x	x	x	x	x							
3	3	250	3500	✓	3500	x	x	x	x	x	x	x							
4	4	251	3000	✓	3000	xx	xx	x	x	x	x	x							
5	5	252	2500	✓	2500	x	x	xx	xx	x	xx	xx							
6	6	253	2000	✓	2000	x	x	x	x	x	x	x							
7	7	254	1500	✓	1500	x	x	x	x	x	x	x							
8	8	255	1250	✓	1250	xx	xx	x	x	x	x	x							
9	9	256	1000	✓	1000	x	x	x	x	x	x	x							
10	10	257	800	✓	800	x	x	x	x	x	x	x							
11	11	258	600	✓	600	x		x	x	x	x	x							
12	12	259	400	✓	400	x		x	x	x	x	x							
13	13	260	300	✓	300	x		xx		x	xx								
14	14	261	250	✓	250	x		x		x	x								
15	15	262	200	✓	200	xx		x		x	x								
16	16	263	175	✓	175	x		x		x	x								
17	17	264	150	✓	150	x		x		x	x								
18	18	265	125	✓	125	x		x		x	x								
19	19	266	100	✓	100	x		x		x	x								
20	20	267	75	✓	75	x		x		x	x								
21	21	268	50	✓	50	x		x		xx	x								
22	22	269	25	✓	25	xx		x		x	x								
23	23	270	10	✓	10	x		x		x	x								
24	24	271	5	✓	5	x		x		x	x								

Sample Lists: Core_Samples

Profile type: Ros

Watchkeeper(s): MB

Bottom Depth: 3638

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

Par Status: On / Off

Time	UTC	Local
Start	01 02	1702
Bottom	02 04	
End	03 25	

Positional Information

Start	Lat:	49 °	16	98	N
	Lon:	134 °	40	03	W
Bottom	Lat:	49 °	16	97	N
	Lon:	134 °	40	02	W
End	Lat:	49 °	17	000	N
	Lon:	134 °	40	000	W

Extra comments:

Deep

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: P16 Event #: 51 Ship: JP Tully UTC Date (dd|mmm|yyyy): 8 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: IOS DMe	IOS TMe	IOS Lig	NUT-F	NUT-C	Sal	Sample Lists: UBC DMe	UBC TMe	Core_Samples					Comments
r7		272	800			xx	xx		x	x	x								
6		273	600			x	x												
r5		274	400			x	x												
r4		275	200			x	x												
~~3~~		~~276~~	~~150~~			~~x~~	~~x~~												
~~12~~ 3		277	100			x	x	xxx											
r2		247	10			✓	X	XXX				X	X						

Save sheet after printing labels: YES

Profile type: BOT

Watchkeeper(s): DC

Bottom Depth:

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

Par Status: ~~On~~ / Off

Time	UTC	Local
Start	0331	PST
Bottom	0358	
End	0450	

Positional Information

Start	Lat:	49 °	16	976	N
	Lon:	134 °	40	016	W
Bottom	Lat:	49 °	16	970	N
	Lon:	134 °	40	016	W
End	Lat:	49 °	16	974	N
	Lon:	134 °	39	970	W

Extra comments:

TM-Deep

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: P17 | Event #: 55 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 08 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	NUT-F	SAL	CHL	HPLC	AML									Comments
						Sampler's Initials / Samples Taken					Sample Lists: Core_Samples								Save sheet after printing labels: YES
1	1	278	2005	✓	2005					X									
2	2	279	2005							X									
3	3	280	2005							X									
4	4	281	2005							X									
5	5	282	2005							X									
6	6	283	2005							X									
7	7	284	2005							X									
8	8	285	2005							X									
9	9	286	2005							X									
10	10	287	2005							X									
11	11	288	2005							X									
12	12	289	2005							X									
13	13	290	2005							X									
14	14	291	2005							X									
15	15	292	2005							X									
16	16	293	2005							X									
17	17	294	2005							X									
18	18	295	2005							X									
19	19	296	2005							X									
20	20	297	2005							X									
21	21	298	2005	✓						X									
22		299	5	✓	4.9	x	x	xx	xx										
23																			
24		5055	Loop				x	xx											

Profile type: ROS

Watchkeeper(s): RF

Bottom Depth: 3476

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

Par Status: On / (Off) Nighttime

Time	UTC	Local	
Start	0937	~~0237~~	0137
Bottom	1011	~~0311~~	0211
End	1043	~~0343~~	0243

Positional Information

Start	Lat:	49° 21.030	N
	Lon:	135° 39.940	W
Bottom	Lat:	49° 21.010	N
	Lon:	135° 39.970	W
End	Lat:	49° 21.000	N
	Lon:	135° 39.970	W

Extra comments:

Loops

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: P18 | Event #: 56 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 8 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal	Nut-F	CHL	HPLC	TOC									Comments (Save sheet after printing labels: YES)
1	1	300	2000	✓	2000	x				x									
2	2	301	1750	✓	1751.9	x				x									
3	3	302	1500	✓	1501.1	xx				x									
4	4	303	1250	✓	1249.4	x				x									
5	5	304	1000	✓	999.9	x				x									
6	6	305	800	✓	799.4	x				x									
7	7	306	600	✓	598.4	x				x									
8	8	307	400	✓	400.8	x				x									
9	9	308	300	✓	299.5	x				x									
10	10	309	250	✓	250.6	x				x									
11	11	310	200	✓	200.6	xx				x									
12	12	311	175	✓	176.3	x				x									
13	13	312	150	✓	150.8	x				x									☆ = 60 second wait.
14	14	313	125	✓	126.1	x				x									☆
15	15	314	100	✓	100.2	x				x									☆
16	16	315	75	✓	76.0	x				x									☆
17	17	316	50	✓	49.7	x				x									☆
18	18	317	25	✓	24.6	x				xx									
19	19	318	10	✓	10.1	x				x									
20	20	319	5	✓	5.5	x	x	x	xx	x									
21																			
22																			
23																			
24																			

Profile type: ROS

Watchkeeper(s): RF

Bottom Depth:

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

Par Status: (On) / Off

Time	UTC	Local	
Start	1544	~~0844~~	0744
Bottom	1618	~~0918~~	0818
End	1707	~~1007~~	0907

Positional Information

Start	Lat:	49° 25.964	N
	Lon:	136° 40.054	W
Bottom	Lat:	49° 25.943	N
	Lon:	136° 39.973	W
End	Lat:	49° 25.942	N
	Lon:	136° 39.977	W

Extra comments:

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: P19 | Event #: ~~57~~ 58 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 08 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	NUT-F (DL)	SAL (DL)	CHL (DL)	HPLC (DL)	AML (JK/JS/MB)									Comments (Save sheet after printing labels: YES)
1	1	320	2005	✓	2005.4					X									
2	2	321	2005	✓	"					X									
3	3	322	2005	✓	"					X									
4	4	323	2005	✓	"					X									
5	5	324	2005	✓	"					X									
6	6	325	2005	✓	"					X									
7	7	326	2005	✓	"					X									
8	8	327	2005	✓	"					X									
9	9	328	2005	✓	"					X									
10	10	329	2005	✓	"					X									
11	11	330	2005	✓	"					X									
12	12	331	2005	✓	"					X									
13	13	332	2005	✓	"					X									
14	14	333	2005	✓	"					X									
15	15	334	2005	✓	"					X									
16	16	335	2005	✓	"					X									
17	17	336	2005	✓	"					X									
18	18	337	2005	✓	"					X									
19	19	338	2005	✓	"					X									
20	20	339	2005	✓	"					X									
21	21	340	2005	✓	"					X									
22	22	341	5	✓	5.4	x	x	xx	xx										
23																			
24		5057	Loop				x	xx											

Sample Lists: Core_Samples

Profile type: ROS

Watchkeeper(s): JS

Bottom Depth: 3921

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

Par Status: (On) / Off

Time	UTC	Local
Start	2207	1407
Bottom	2240	1440
End	2314	1514

Positional Information

Start	Lat:	49 ° 30.014	N
	Lon:	137 ° 39.992	W
Bottom	Lat:	49 ° 30.026	N
	Lon:	137 ° 40.004	W
End	Lat:	49 ° 29.975	N
	Lon:	137 ° 40.002	W

Extra comments:

Stopped shortly @ 500m

Loops

Water Properties Group | Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 | Station: P20 | Event #: ~~58~~ 60 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 9MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: IOS DMe	IOS TMe	IOS Lig	NUT-F	NUT-C	Sal	Sample Lists: Core_Samples							Comments (Save sheet after printing labels: YES)
r7		342	800			x	x		x	x	x								
6		343	600			x	x												
r5		344	400			xx	xx												
r4		345	200			x	x												
3		346	150			x	x												
r2		347	100			x	x	xxx											

Profile type: BOI

Watchkeeper(s): DC

Bottom Depth: 3954

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

Par Status: On ~~/~~ Off

Time	UTC	Local
Start	0340	1914
Bottom	0405	
End	0439	

Positional Information

Start	Lat:	49	°	33.986	N
	Lon:	138	°	39.986	W
Bottom	Lat:	49	°	33.958	N
	Lon:	138	°	40.026	W
End	Lat:	49	°	33.938	N
	Lon:	138	°	40.36	W

Extra comments:

TM-Deep

Water Properties Group | Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 | Station: P20 | Event #: 61 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 9 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: MB/JS OXY	Sal	Nut-F	Nut-C	JS/MB TOC	GC DIC								Comments
1	1	348	Bot-10	✓	10.25	x		x	x	x	x								
2	2	349	3500	✓	3499.7	x	x	x	x	x	x								
3	3	350	3500	✓	3500	x	x	x	x	x	x								
4	4	351	3000	✓	2998	x	x	x	x	x	x								
5	5	352	2500	✓	2499	x	x	x	x	x	x								
6	6	353	2000	✓	1998	xx	xx	x	x	x	x								
7	7	354	1500	✓	1500	x	x	x	x	x	x								
8	8	355	1250	✓	1252	x	x	x	x	x	xx								
9	9	356	1000	✓	1001	x	xx	x	x	x	x								
10	10	357	800	✓	798	x	x	xx	xx	x	x								
11	11	358	600	✓	600	x		x	x	x	x								
12	12	359	400	✓	399	xx		x	x	x	x								
13	13	360	300	✓	300	x		x		x	x								
14	14	361	250	✓	250	x		x		x	x								
15	15	362	200	✓	200	x		x		x	x								
16	16	363	175	✓	175	x		x		x	x								
17	17	364	150	✓	150	x		x		x	x								
18	18	365	125	✓	126	xx		x		x	x								
19	19	366	100	✓	99	x		x		x	x								
20	20	367	75	✓	75	x		xx		x	x								
21	21	368	50	✓	49	x		x		x	x								
22	22	369	25	✓	26	x		x		x	x								
23	23	370	10	✓	10.5	x		x		x	x								
24	24	371	5	✓	4.6	xx		x		xx	x								

Sample Lists: Core_Samples

Save sheet after printing labels: YES

Profile type: Ros

Watchkeeper(s): MB/JS

Bottom Depth: 3955

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

Par Status: On / Off

Time	UTC	Local
Start	0447	2047
Bottom	0556	2156
End	0726	2326

Positional Information

Start	Lat:	49 °	33 940	N
	Lon:	138 °	40 130	W
Bottom	Lat:	49 °	33 960	N
	Lon:	138 °	39 970	W
End	Lat:	49 °	33.940	N
	Lon:	138 °	39.980	W

Extra comments:

Deep

Waited at 3500 for confirmation of 2nd niskin closure from Mark. ~2min

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: P20 Event #: 62 Ship: JP Tully UTC Date (dd|mmm|yyyy): 9 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	Nut-F Sal	Nut-C	Sal	Core_Samples						Comments
						Sampler's Initials / Samples Taken						Sample Lists:								Save sheet after printing labels: YES
r4		372	75			x	x				x		x							
3		373	50			x	x	xxx												
r2		374	35			x	x	xxx	x	x										
r1		375	10			x	x	xxx	x	x										

Profile type: 60-FCO

Watchkeeper(s): DC

Bottom Depth: 3955

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

Par Status: On / Off

Time	UTC	Local
Start	0735	
Bottom	0747	
End		

Positional Information

Start	Lat:	49° 33.92	N
	Lon:	138° 40.04	W
Bottom	Lat:	49° 33.92	N
	Lon:	138° 40.04	W
End	Lat:	°	N
	Lon:	°	W

Extra comments:

TM-Shallow

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: P20 Event #: 65 Ship: JP Tully UTC Date (dd|mmm|yyyy): 9 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: NUT-F	CHL	HPLC	VAR					Sample Lists: Core_Samples					Comments (Save sheet after printing labels: YES)
1	1	376	1000	✓	1000				X										
2	2	377	500	✓	502.0				X										
3	3	378	200	✓	200.4				X										
4	4	379	60	✓	60.3	x	xx	xx											60 sec wait
5	5	380	50	✓	49.6				X										"
6	6	381	50	✓	"	x	x	xx											"
7	7	382	40	✓	39.7	x	x	xx											
8	8	383	30	✓	29.4	x	x	xx											
9	10	384	15	✓	15.0	xx	x	xx											
10	11	385	5	✓	5.2	x	x	xx											
11	12	386	5	✓	"				X										
12	9	387	Chl Max	✓	29.9				X										30 ~~m~~
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS

Watchkeeper(s): RF

Bottom Depth: 3954

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

Par Status: On / (Off) Nighttime

Time	UTC	Local
Start	1004	~~0304~~ 0204
Bottom	1021	~~0321~~ 0221
End	1047	~~0347~~ 0247

Positional Information

Start	Lat:	49 ° 33.950	N
	Lon:	138 ° 40.170	W
Bottom	Lat:	49 ° 33.950	N
	Lon:	138 ° 40.120	W
End	Lat:	49 ° 33.960	N
	Lon:	138 ° 40.100	W

Extra comments:

HPLC & VAR

OUT-OF-ORDER!

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: P21 | Event #: 68 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 9 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal	Nut-F	CHL	HPLC										Comments (Save sheet after printing labels: YES)
1	1	388	2005	✓	2005	x													Salinity calibration
2	2	389	2005	✓	"	x													Salinity calibration
3	3	390	2005	✓	"	x													Salinity calibration
4	4	391	600	✓	601.2		x												Nutrients calibration
5	5	392	5	✓	5.9		x												Nutrients calibration
6	6	393	5	✓	5.9	x	x	xx	xx										
7																			
8		5068	Loop			x		xx											
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sampler's Initials / Samples Taken — Sample Lists: Core_Samples

Profile type: ROS

Watchkeeper(s): RF

Bottom Depth: 3948

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

Par Status: (On) / Off

	Time UTC	Local	
Start	1506	~~0806~~	0706
Bottom	1540	~~0840~~	0740
End	1613	~~0913~~	0813

Positional Information

Start	Lat:	49° 38.000	N
	Lon:	139° 31.920	W
Bottom	Lat:	49° 37.870	N
	Lon:	139° 39.780	W
End	Lat:	49° 37.850	N
	Lon:	139° 39.680	W

Extra comments:

NISKINS 1 to 5: labels are for the carboys, not for samples!

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: P22 | Event #: 71 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 9 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal	Nut-F	CHL	HPLC	TOC	SA								Comments (Save sheet after printing labels: YES)
1	1	394	2000	✓	2000					x									
2	2	395	1750	✓	1750					x									
3	3	396	1500	✓	1500					x									
4	4	397	1250	✓	1250					x									
5	5	398	1000	✓	1000					x									
6	6	399	800	✓	800					x									
7	7	400	600	✓	600					x									
8	8	401	400	✓	400					x									
9	9	402	300	✓	300					x	X								
10	10	403	250	✓	250					x	X								
11	11	404	200	✓	200					x	X								
12	12	405	175	✓	175					x									
13	13	406	150	✓	150					x									
14	14	407	125	✓	125					x									
15	15	408	100	✓	100					x									
16	16	409	75	✓	75					x									
17	17	410	50	✓	50					x									
18	18	411	25	✓	25					xx									
19	19	412	10	✓	10					x									
20	20	413	5	✓	5		x	x	xx	x									
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

Profile type: ROS

Watchkeeper(s): MB

Bottom Depth: 3868

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

Par Status: (On) / Off

Time	UTC	Local
Start	1955	1155
Bottom	2028	
End	2119	

Positional Information

Start	Lat:	49 °	42	014	N
	Lon:	140 °	40	000	W
Bottom	Lat:	49 °	42	010	N
	Lon:	140 °	39	920	W
End	Lat:	49 °	41	992	N
	Lon:	140 °	39	804	W

Extra comments:

+ WATER FOR SA

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: P23 | Event #: 74 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 10 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: Sal	Nut-F	CHL	HPLC										Comments (Save sheet after printing labels: YES)
1	1	414	5	✓	5.2	x	x	xx	xx										
2																			
3		5074	Loop			x		xx											
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

Profile type: ROS

Watchkeeper(s): JS/MB

Bottom Depth: 4038

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

Par Status: (On) / Off

Time	UTC	Local
Start	0102	1702
Bottom	0132	1732
End	0200	1800

Positional Information

Start	Lat:	49 °	46.010	N
	Lon:	141 °	40.020	W
Bottom	Lat:	49 °	46 030	N
	Lon:	141 °	39 990	W
End	Lat:	49 °	45.960	N
	Lon:	141 °	39.940	W

Extra comments:

Loops

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: P24 | Event #: 76 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 10 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal	Nut-F	CHL	HPLC	TOC									Comments (Save sheet after printing labels: YES)
1	1	415	2000	✓	2000					x									
2	2	416	1750	✓	1750					x									
3	3	417	1500	✓	1502					x									
4	4	418	1250	✓	1249					x									
5	5	419	1000	✓	1000					x									
6	6	420	800	✓	802					x									
7	7	421	600	✓	600					x									
8	8	422	400	✓	401					x									
9	9	423	300	✓	300					x									
10	10	424	250	✓	250					x									
11	11	425	200	✓	199					x									
12	12	426	175	✓	175					x									
13	13	427	150	✓	150					x									
14	14	428	125	✓	124					x									
15	15	429	100	low sec	102					x									
16	16	430	75	✓	75					x									
17	17	431	50	✓	50					x									
18	18	432	25	✓	24					xx									
19	19	433	10	✓	11					x									
20	20	434	5	✓	4		x	x	xx	x									
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

Profile type: Ros

Watchkeeper(s): JS

Bottom Depth:

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

Par Status: On / Off

Time	UTC	Local
Start	0535	2135
Bottom	0603	2203
End	0647	2247

Positional Information

Start	Lat:	49 ° 50.200	N
	Lon:	142 ° 40.001	W
Bottom	Lat:	49 ° 50.203	N
	Lon:	142 ° 39.976	W
End	Lat:	49 ° 50.108	N
	Lon:	142 ° 39.976	W

Extra comments:

[redacted]

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: P25 | Event #: 77 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 10 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: Sal	Nut-F	CHL	HPLC					Sample Lists: Core_Samples					Comments (Save sheet after printing labels: YES)
1	1	435	5	✓	5.2	x	x	xx	xx										
2																			
3		5077	Loop			x		xx											
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS

Watchkeeper(s): RF

Bottom Depth: 4133

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

Par Status: (On) / Off

Time	UTC	Local	
Start	1017	~~0317~~	0217
Bottom	1048	~~0348~~	0248
End	1115	~~0415~~	0315

Positional Information

Start	Lat: 49 ° 59.980	N	
	Lon: 143 ° 36.377	W	
Bottom	Lat: 49 ° 59.963	N	
	Lon: 143 ° 36.383	W	
End	Lat: 49 ° 59.942	N	
	Lon: 143 ° 36.307	W	

Extra comments:

Loops

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: P26 | Event #: 80 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 10 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: NUT-F	CHL	HPLC	VAR	Sample Lists: Core_Samples	Comments (Save sheet after printing labels: YES)
1	1 ✓	~~436~~ 437	1000	✓	1000				X		
2	2 ✓	~~437~~ 438	500	✓	500.9				X		
3	3 ✓	~~438~~ 439	200	✓	198.5				X		
4	5	~~439~~ 440	60	✓	60.5	xx	x	xx			☆ = 60 sec wait.
5	6	~~440~~ 441	50	✓	~~50~~ 49.6				X		☆
6	7	~~441~~ 442	50	✓	~~50~~ 51.0	x	x	xx			☆
7	8	~~442~~ 443	40	✓	40.8	x	x	xx			
8	9	~~443~~ 444	30	✓	31.0	x	x	xx			
9	10	~~444~~ 445	15	✓	15.7	x	xx	xx			
10	11	~~445~~ 446	5	✓	5.4	x	x	xx			
11	12	~~446~~ 447	5	✓	5.6				X		
12	4	~~447~~ 448	Chl Max	✓	60.5				X		60 ☆
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											

Profile type: ROS

Watchkeeper(s): RF

Bottom Depth: 4233

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

Par Status: (On) / Off

	Time UTC	Local	
Start	1727	~~1027~~	0927
Bottom	1740	0940	
End	1804	~~1104~~	1004

Positional Information

Start	Lat: 49 ° 59.970	N	
	Lon: 144 ° 59.900	W	
Bottom	Lat: 49 ° 59.960	N	
	Lon: 144 ° 59.880	W	
End	Lat: 49 ° 59.960	N	
	Lon: 144 ° 59.880	W	

Extra comments:

HPLC & VAR

OUT-OF-ORDER!

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: P26 Event #: 82 Ship: JP Tully UTC Date (dd|mmm|yyyy): 10 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation Target Pressure	Confirmed √	Confirmed Pressure	OXY (MB/SS)	Sal	Nut-F	Nut-C	TOC	DIC (MR/MR)	Alk (MR/MR)	Nut-S-F	Nut-S-C					Comments (Save sheet after printing labels: YES)
1	1	449	Bot-10	√	4316	x		x	x	x	x	x	x	x					
2	2	450	4000	√	4000	xx	x	xx	xx	x	x	x	xx	xx					
3	3	451	3500	√	3500	x	xx	x	x	x	x	x	x	x					
4	4	452	3000	√	3000	x	x	x	x	x	x	x	x	x					
5	5	453	2500	√	2500	x	x	x	x	x	x	x	x	x					
6	6	454	2000	√	2000	x	x	x	x	x	x	x	x	x					
7	7	455	1500	√	1500	x	xx	x	x	x	x	x	x	x					
8	8	456	1250	√	1250	xx	x	x	x	x	x	x	x	x					
9	9	457	1000	√	1250	x	x	x	x	x	x	x	x	x					MISFIRE @ 1250
10	10	458	800	√	800	x	x	x	x	x	x	x	x	x					
11	11	459	600	√	600	x		x	x	x	x	x	x	x					
12	12	460	400	√	400	x		x	x	x	x	x	x	x					
13	13	461	300	√	300	x		x		x	x	x	x						
14	14	462	250	√	250	x		x		x	x	x	x						
15	15	463	200	√	200	x		xx		x	x	x	xx						
16	16	464	175	√	175	xx		x		x	x	x	x						
17	17	465	150	√	150	x		x		x	x	x	x						
18	18	466	125	√	125	x		x		x	xx	x	x						
19	19	467	100 (60 SC)	√	100	x		x		x	x	x	x						
20	20	468	75	√	75	x		x		x	x	x	x						
21	21	469	50	√	50	x		x		xx	x	x	x						
22	22	470	25	√	25	xx		x		x	x	x	x						
23	23	471	10	√	10	x		x		x	x	x	x						
24	24	472	5	√	5	x		x		x	x	x	x						

Profile type: Ros

Watchkeeper(s): RF/MB

Bottom Depth: 4232

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

Par Status: On / (Off)

Time	UTC	Local
Start	1850	1050
Bottom	2003	
End	2131	

Positional Information

Start	Lat:	49 °	59	916	N
	Lon:	144 °	59	929	W
Bottom	Lat:	49 °	59	917	N
	Lon:	144 °	59	929	W
End	Lat:	49 °	59	920	N
	Lon:	144 °	59	930	W

Extra comments:

Deep

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: P26 Event #: 83 Ship: JP Tully UTC Date (dd|mmm|yyyy): 10 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	Nut-F Sal	Nut-C	Sal	Core_Samples					Comments (Save sheet after printing labels: YES)
16		473	150			x	x				x		x						
15		474	100			x	x	xxx											
14		475	75			x	x												
13		476	50			x	x	xxx											
12		477	35			x	x	xxx	x	x									
11		478	10			x	x	xxx	x	x									
17		479	10																Carboy

Profile type: BOT

Watchkeeper(s): DC

Bottom Depth: 4232 m

Trans Clean: X / N Fl. Clean: X / N

Par Status: On X / Off

Time	UTC	Local
Start	2141	1341
Bottom	2156	
End	2213	

Positional Information

Start	Lat:	49°	59	908	N
	Lon:	144°	59	941	W
Bottom	Lat:	49°	59	906	N
	Lon:	144°	59	941	W
End	Lat:	49°	59	905	N
	Lon:	144°	59	941	W

Extra comments:

TM-Shallow

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: P26 | Event #: 85 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 11 MAR2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: IOS DMe	IOS TMe	IOS Lig	NUT-F	NUT-C	Sal	Sample Lists: Core_Samples							Comments (Save sheet after printing labels: YES)
7		480	1500			x	x		x	x	x								
6		481	1250			xx	xx												
r5		482	1000			x	x												
r4		483	800			x	x												
3		484	600			x	x												
r2		485	400			x	x												
1		486	200			x	x												

Profile type: BOT

Watchkeeper(s): DC

Bottom Depth: 4232

Trans Clean: Y N Fl. Clean: Y N

Par Status: On / Off

Time	UTC	Local
Start	0040	1640
Bottom	0118	
End	0219	

Positional Information

Start	Lat:	49 °	59	907	N
	Lon:	144 °	59	938	W
Bottom	Lat:	49 °	59	908	N
	Lon:	144 °	59	935	W
End	Lat:	49 °	59	892	N
	Lon:	144 °	59	968	W

Extra comments:

TM-Deep

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: PA-015 Event #: 88 Ship: JP Tully UTC Date (dd|mmm|yyyy): 11 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: OXY	CHL	HPLC	Form	Glut	Lugol's								Comments (Save sheet after printing labels: YES)
1	1	487	10	✓	10	xx													
2	2	488	5	✓	5		x	xx	x	x	x								
3	3	489	5	✓	5	xx													
4	4	490	0	✓	0.6	xx													
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
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14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

Profile type: Ros

Watchkeeper(s): MB

Bottom Depth: 4202

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

Par Status: On / Off

Time	UTC	Local
Start	0329	1929
Bottom	0336	
End	0344	

Positional Information

Start	Lat:	50	° 6	920	N
	Lon:	144	° 49	040	W
Bottom	Lat:	50	° 6	910	N
	Lon:	144	° 49	000	W
End	Lat:	50	° 6	920	N
	Lon:	144	° 49	000	W

Extra comments:

CTD to 350 m

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: P35 Event #: 89 Ship: JP Tully UTC Date (dd|mmm|yyyy): 11 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: Sal	Nut-F	CHL	HPLC										Comments
														Sample Lists: Core_Samples					Save sheet after printing labels: YES
1		436	5			x	x	xx	xx										
2																			
3		5089	Loop			x		xx											
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: ROS

Watchkeeper(s): DC

Bottom Depth: 4135m

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

Par Status: On / Off

Time	UTC	Local
Start	05:50	2150
Bottom	06:20	
End	06:50	

Positional Information

Start	Lat:	50 ° 0.020	N
	Lon:	144 ° 18.210	W
Bottom	Lat:	50 ° 0.010	N
	Lon:	144 ° 18.220	W
End	Lat:	50 ° 0.010	N
	Lon:	144 ° 18.150	W

Extra comments:

Loops

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: Scott2 Event #: 99 Ship: JP Tully UTC Date (dd|mmm|yyyy): 14 March 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Chl	Nut-F	Hakai HPLC	Form	Glut	Lugol's								Comments (Save sheet after printing labels: YES)
1	1	501	5	✓	5.2	xx	x	xx	x	x	x								
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17		5023																	
18		~~#VALUE!~~	0			xx	x												
19																			
20		mistake																	
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

Profile type: ROS

Watchkeeper(s): RF

Bottom Depth: 289

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

Par Status: (On) / Off

Time	UTC	Local
Start	0827	0127
Bottom	0832	0132
End	0839	0139

Positional Information

Start	Lat:	51 °	07.420	N
	Lon:	129 °	27.700	W
Bottom	Lat:	51 °	07.410	N
	Lon:	129 °	27.700	W
End	Lat:	51 °	07.390	N
	Lon:	129 °	27.720	W

Extra comments:

Water Properties Group | Program STN List: All_Stns | **Sampling Log** | **Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC**

Cruise ID: 2022-001 | Station: Hak1 | Event #: ~~08~~ 103 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 14 Mar 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Oxy	Nut-F	Hakai DIC										Comments (Save sheet after printing labels: YES)
1	1	491	Bot-10	✓	132.3	x	x	x										30 sec wait
2	2	492	100	✓	101.5	x	x	x										30 "
3	3	493	75	✓	75.1	x	x	xxx										60 "
4	4	494	50	✓	50.0	xx	x	x										60 "
5	5	495	40	✓	40.2	x	x	x										60 "
6	6	496	30	✓	30.4	x	x	x										60 "
7	7	497	20	✓	20.8	x	x	x										60 "
8	8	498	10	✓	10.1	x	x	xxx										60 "
9	9	499	5	✓	5.5	x	xx	x										60 "
10	10	500	0	✓	1.5	x	x	x										60 "
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Sample Lists: Core_Samples

Profile type: ROS

Watchkeeper(s): RF

Bottom Depth: 143

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

Par Status: On / Off

Time	UTC	Local PDT
Start	1651	0951
Bottom	1654	0954
End	1709	1009

Positional Information

Start	Lat:	51 °	42.600	N
	Lon:	128 °	13.660	W
Bottom	Lat:	51 °	42.587	N
	Lon:	128 °	13.649	W
End	Lat:	51 °	42.570	N
	Lon:	128 °	13.680	W

Extra comments:

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: De09 Event #: 118 Ship: JP Tully UTC Date (dd|mmm|yyyy): 15 March 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	OXY	Nut-F	Hakai DIC	TOC-SJ	DOC-SJ	CDOM	O18							Comments (Save sheet after printing labels: YES)
1	1	502	Bot-10	✓	446.7				x	xx	xx	x							
2	2	503	Bot-10	✓	446.6	x	x	x											
3	3	504	400	✓	400.9	x	x	xxx								Missed 400 the way down. Circled back			30s wait
4	4	505	300	✓	300.2	xx	x	x											
5	5	506	250	✓	250.7	x	x	x											
6	6	507	200	✓	200.2	x	x	x											
7	7	508	150	✓	150.3	x	x	x											
8	8	509	100	✓	100.1	x	x	x											
9	9	510	75	✓	75.4	x	xx	x											
10	10	511	50	✓	51.0				x	xx	xx	x							
11	11	512	50	✓	51.0	x	x	x											
12	12	513	40	✓	40.3	x	x	xxx											60 s wait
13	13	514	30	✓	30.5	xx	x	x											
14	14	515	20	✓	20.6	x	x	x											
15	15	516	10	✓	10.2	x	x	x											
16	16	517	5	✓	5.4	x	x	x											
17	17	518	0	✓	1.2	x	x	x											
18	18	519	0	✓	1.2				xx	xxx	xx	x							
19																			
20																			
21																			
22																			
23																			
24																			

Profile type: Ros

Watchkeeper(s): RF

Bottom Depth: 457

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

Par Status: On / Off

Time	UTC	Local PDT
Start	0836	0136
Bottom	0844	0144
End	0910	0210

Positional Information

Start	Lat:	52 ° 43.930	N
	Lon:	126 ° 57.330	W
Bottom	Lat:	52 ° 43.930	N
	Lon:	126 ° 57.300	W
End	Lat:	52 ° 43.840	N
	Lon:	126 ° 57.270	W

Extra comments:

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2022-001 Station: KC10 Event #: 145 Ship: JP Tully UTC Date (dd|mmm|yyyy): 16 MAR 2022

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: Oxy (MB/JS)	Nut-F (JK)	DIC (Hakai)	Core_Samples	Comments (Save sheet after printing labels: YES)
1	1	520	Bot-10	✓	360	x	x	x		
2	2	521	300	✓	300	xx	x	x		
3	3	522	250	✓	250	x	x	xx		
4	4	523	200	✓	200	x	x	x		
5	5	524	150	✓	150	x	xx	x		
6	6	525	100	✓	100	x	x	x		
7	7	526	75	✓	75	x	x	x		
8	8	527	50	✓	50	x	x	x		
9	9	528	30	✓	30	x	x	x		
10	10	529	20	✓	20	x	x	x		
11	11	530	15	✓	15	xx	x	x		
12	12	531	10	✓	10	x	x	x		
13	13	532	5	✓	5	x	x	x		
14	14	533	0	✓	14	x	x	x		
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

Profile type: Ros

Watchkeeper(s): MB

Bottom Depth: 365

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

Par Status: On / Off

Time	UTC	Local
Start	1859	1159
Bottom	1905	
End	1928	

Positional Information

Start	Lat:	51 °	39	013	N
	Lon:	127 °	57	130	W
Bottom	Lat:	51 °	39	018	N
	Lon:	127 °	57	114	W
End	Lat:	51 °	38	974	N
	Lon:	127 °	57	134	W

Extra comments: