Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: Haro59 Event #: 3 Ship: JP Tully UTC Date (dd|mmm|yyyy): 3 | May | 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Nut-F	CHL (KS)	HPLC (MB)	Lugol's	DA	VAR (ML)								Comments (Save sheet after printing labels: NO)
1	2	1	0	✓	2.8	x	xx	xx	x	x									
2	1	2	5	✓	5.2						x								
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sample Lists: All_Samples

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

Watchkeeper(s): RF

Bottom Depth: 231 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1831	1131
Bottom	1835	1135
End	1843	

Positional Information

Start	Lat:	48 ° 36.710	N
	Lon:	123 ° 14.700	W
Bottom	Lat:	°	N
	Lon:	°	W
End	Lat:	48 ° 36.570	N
	Lon:	123 ° 14.830	W

Extra comments:

Bottle firing: OUT OF ORDER

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: JF2 Event #: 6 Ship: JP Tully UTC Date (dd|mmm|yyyy): 4MAY21

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Nut-F	CHL	HPLC	Lugol's	DA	Var								Comments (Save sheet after printing labels: YES)
1	2	3	0	✓	27	x	xx	xx	x	x									FL: < 2
2	1	4	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																			

Sample Lists: All_Samples

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 187 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	0024	1724
Bottom	0028	
End	0033	

Positional Information

Start	Lat:	48 °	18 030	N
	Lon:	124 °	0 030	W
Bottom	Lat:	48 °	18 046	N
	Lon:	124 °	0 020	W
End	Lat:	48 °	18 030	N
	Lon:	124 °	0 040	W

Extra comments:

OUT OF ORDER!

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P1 Event #: 10 Ship: JP Tully

UTC Date (dd|mmm|yyyy): 4 | May | 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	OXY (RF/ML)	Nut-F (RF)	CHL (ML)	HPLC (RF)	DIC (HR)	Var (ML)	NH4 (HR)							Comments (Save sheet after printing labels: YES)
1	1	5	Bot-10	✓	109.8	x	x			xx									
2	2	6	30	✓	30.2	xx	x			x									
3	5	7	5	✓	5.0	x	x	x	xx	x									
4	6	8	5	✓	5.0						X								
5	3	9	20	✓	20.3							xxxxxx							
6	4	10	10	✓	9.9							xxxxxx							
7	7	11	5	✓	5.0							xxxxxx							
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): RF HR ML

Bottom Depth: 120 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0735	0035
Bottom	0737	0037
End	0749	0049

Positional Information

Start	Lat: 48 ° 34.480	N	
	Lon: 125 ° 29.970	W	
Bottom	Lat: 48 ° 34.470	N	
	Lon: 125 ° 29.960	W	
End	Lat: 48 ° 34.460	N	
	Lon: 125 ° 29.930	W	

Extra comments:

Out of Order!!

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P2 Event #: 11 Ship: JP Tully UTC Date (dd|mmm|yyyy): 4 | May | 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	OXY (RF/ML)	Sal	Nut-F (ML)	Nut-C	DIC (HR)	TOC (HR/RF)	Var							Comments (Save sheet after printing labels: YES)
1		12	Bot-10	✓	108.2	x		x		x	x								
2		13	100	✓	100.6	x		x		xx	x								
3		14	75	✓	75.9	x		x		x	x								
4		15	75	✓	75.9	x		x		x	x								
5		16	50	✓	50.9	xx		x		x	xx								
6		17	25	✓	25.3	x		xx		x	x								
7		18	10	✓	10.1	x		x		x	x								
8		19	5	✓	5.5	x		x		x	x								
9		~~20~~	~~5~~									~~x~~							
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

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

Watchkeeper(s): RF

Bottom Depth: 116 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1012	0312
Bottom	1015	0315
End	1027	0327

Positional Information

Start	Lat: 48 ° 36.002 N	
	Lon: 125 ° 59.820 W	
Bottom	Lat: 48 ° 35.990 N	
	Lon: 125 ° 59.820 W	
End	Lat: 48 ° 35.930 N	
	Lon: 125 ° 59.740 W	

Extra comments:

Deep

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P2 Event #: ~~13~~ 14 Ship: JP Tully UTC Date (dd|mmm|yyyy): 4 | May | 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	DMS (ML)	DMSP-d (MA)	DMSP-t (MA)	Nut-F (RF)	CHL (RF)	HPLC (HR)	Lugol's (RF)	DA (RF)	Var (ML)		Flu			Comments
1		20	100	✓	100.6	x	x	x	x										
2		21	75	✓	76.1	x			x										
3		22	50	✓	50.5	x			x										
4		23	40	✓	40.5	x			xx										
5		24	30	✓	30.8	x			x		xx					0.2			
6		25	25	✓	25.0	x			x		xx					0.4			
7		26	20	✓	19.9	xx	xx	xx	x		xx					0.6			
8		27	15	✓	15.0	x			x		xx					1.0			
9		28	10	✓	10.5	x			x		xx					1.6			
10		29	5	✓	4.9	x	x	x	x					X					
11		30	5	✓	4.9				x		xx	x	x			2.0			
12		31	0	✓	3.2	x	x	x	x	x									
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

Save sheet after printing labels: YES

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

Watchkeeper(s): RF

Bottom Depth: 117 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1158	0458
Bottom	1202	0502
End	1219	0519

Positional Information

Start	Lat: 48 ° 35.990	N
	Lon: 125 ° 59.900	W
Bottom	Lat: 48 ° 35.970	N
	Lon: 125 ° 59.860	W
End	Lat: 48 ° 35.940	N
	Lon: 125 ° 59.850	W

Extra comments:

DMS

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P4 Event #: 16 Ship: JP Tully UTC Date (dd|mmm|yyyy): 4 | May | 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: ML	Var												Comments (Save sheet after printing labels: YES)
1		31	25	✓	25.4		X												chl max
2		32	5				X												
3		33	5				X												
4		34	5				X												
5		35	5				X												
6		36	5				X												
7		37	5				X												
8		38	5				X												
9		39	5				X												
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

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

Watchkeeper(s): RF

Bottom Depth: 1320 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1629	0929
Bottom	1632	0932
End	1639	0939

Positional Information

Start	Lat: 48 ° 39.010	N
	Lon: 126 ° 39.950	W
Bottom	Lat: 48 ° 39.000	N
	Lon: 126 ° 39.940	W
End	Lat: 48 ° 38.980	N
	Lon: 126 ° 39.920	W

Extra comments:

UVic

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P4 Event #: 19 Ship: JP Tully UTC Date (dd|mmm|yyyy): 4 | May | 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	DMS (MR)	DMSP-d (MA)	DMSP-t (MA)	Nut-F (RF/HR)	CHL (RF/HR)	HPLC (ML/HS)	Lugol's (MR)	Form (MR)	Glut (MR)	DA (MR)				Comments
1		40	400	✓	400.3	x	x	x	x										
2		41	200	✓	200.1	x	x	x	x										
3		42	150	✓	150.5	x	x	x	x										
4		43	100*	✓	101.0	x			x	x									
5		44	75*	✓	75.5	x			x	x									
6		45	60*	✓	61.0				xx	x	xx								
7		46	50*	✓	49.9	x			x	x	xx								
8		47	40*	✓	40.0	x			x	x	xx								
9		48	30*	✓	30.8	x	x	x	x	x	xx								
10		49	25*	✓	25.7	x			x	x									
11		50	20*	✓	20.9	xx	xx	xx	x	xx									
12		51	15*	✓	15.5	x			x	x	xx								
13		52	10*	✓	10.5	x			x	x									
14		53	5*	✓	5.5	x	x	x	x										
15		54	5	✓	5.6				x	x	xx	x	x	x	x				
16		55	0*	✓	3.2	x	x	x	x	xx									Very slight leak, valve
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

Comments: Save sheet after printing labels: YES

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

Watchkeeper(s): RF

Bottom Depth: 1323 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1732	1032
Bottom	1740	1040
End	1806	1106

Positional Information

Start	Lat:	48 ° 38.980	N
	Lon:	126 ° 39.930	W
Bottom	Lat:	48 ° 38.970	N
	Lon:	126 ° 39.900	W
End	Lat:	48 ° 38.980	N
	Lon:	126 ° 39.950	W

Extra comments:

DMS

* 60 sec soak

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P4 Event #: 20 Ship: JP Tully UTC Date (dd|mmm|yyyy): 4 | May | 202

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: OXY (MB/MG ← MG / MK → MB)	Sal	Nut-F	Nut-C	DIC (MB/KS)	TOC (MB)	Sample Lists: Core_Samples							Comments (Save sheet after printing labels: YES)
1		56	Bot-10	✓	1322	x		x	x	x	x								
2		57	1250	✓	1250	x	x	x	x	x	x								
3		58	1250	✓	1250	x	x	x	x	x	x								
4		59	1000	✓	1000	x	xx	x	x	xx	x								
5		60	800	✓	800	x	x	xx	xx	x	x								
6		61	600	✓	600	xx		x	x	x	x								
7		62	400	✓	401	x		x	x	x	x								Soak@400m 15min Get/water
8		63	300	✓	301	x		x		x	x								
9		64	250	✓	250	x		x		x	x								
10		65	200	✓	201	x		x		x	x								
11		66	175	✓	175	xx		x		x	x								
12		67	150	✓	150	x		x		x	x								
13		68	125	✓	126	x		x		x	x								
14		69	100*	✓	101	x		x		x	x								
15		70	75*	✓	75	x		x		x	x								
16		71	50*	✓	50	xx		xx		x	x								
17		72	25*	✓	25	x		x		x	x								
18		73	10*	✓	10	x		x		x	xx								
19		74	5*	✓	5.6	x		x		x	x								
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): RF / MG

Bottom Depth: 1325 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1843	1143
Bottom	1906	
End	2002	

Positional Information

Start	Lat:	48 ° 38.980	N
	Lon:	126 ° 39.980	W
Bottom	Lat:	48 ° 38.980	N
	Lon:	126 ° 39.980	W
End	Lat:	48 ° 38.96	N
	Lon:	126 ° 40.00	W

Extra comments:

Deep

* 60 sec soak

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P4 Event #: 21 Ship: JP Tully UTC Date (dd|mmm|yyyy): 04 | 05 | 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	UBC Sepc	UBC Lead	Nut-F	Nut-C	Sal				Comments (Save sheet after printing labels: YES)
r7		75	800			x	x						x	x	x				
6		76	600			xx	xx												
r5		77	400			x	x												
r4		78	200			x	x												
3		79	150			x	x												
r2		80	100			x	x	xxx											

Sample Lists: Core_Samples

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): KS

Bottom Depth: 1322 m

Transmisso Cleaned: ~~Y~~ N

Time	UTC	Local
Start	2055	1355
Bottom	2127	
End	2200	

Positional Information

Start	Lat: 48 ° 38.97	N
	Lon: 126 ° 39.97	W
Bottom	Lat: 48 ° 38 92	N
	Lon: 126 ° 40 02	W
End	Lat: 48 ° 38 96	N
	Lon: 126 ° 39 94	W

Extra comments:

TM-800

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P4 Event #: 23 Ship: JP Tully UTC Date (dd|mmm|yyyy): 04 | MAY | 21

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	UBC Sepc	UBC Lead	Nut-F	Nut-C	Sal				Comments (Save sheet after printing labels: YES)
						Sampler's Initials / Samples Taken						Sample Lists: Core_Samples							
r4		81	75			x	x						x		x				
3		82	50			x	x	xxx											
r2		83	35			x	x	xxx	x	x	xx	xx							
1		84	10			x	x	xxx	x	x	xx	xx							

Profile type: ROS TRM X-Niskin (Go-Flo) other?

Watchkeeper(s): KS

Bottom Depth: 131L m

Transmisso Cleaned: ~~Y / N~~

Time	UTC	Local
Start	2358	1658
Bottom	0009	1709
End	0017	1717

Positional Information

Start	Lat:	48 ° 39.09	N
	Lon:	126 ° 40.01	W
Bottom	Lat:	48 ° 39.13	N
	Lon:	126 ° 40.01	W
End	Lat:	48 ° 39.11	N
	Lon:	126 ° 40.02	W

Extra comments:

TM-75

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P5 Event #: 24 Ship: JP Tully UTC Date (dd|mmm|yyyy): 5 MAY 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal	Nut-F	CHL	HPLC	Var									Comments
						Sampler's Initials / Samples Taken							Sample Lists: Core_Samples						Save sheet after printing labels: YES
1	1	85	5	✓	5	x	x	xx	xx										FL: < 2
2																			
3		5024	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 TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 2096 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0241	1941
Bottom	0313	
End	0344	

Positional Information

Start	Lat:	48 °	41 500	N
	Lon:	127 °	9 980	W
Bottom	Lat:	48 °	41 477	N
	Lon:	127 °	10 258	W
End	Lat:	48 °	41 477	N
	Lon:	127 °	10 418	W

Extra comments:

LOOPS

Version: 4MAR2021

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

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

Cruise ID: 2021-006 | Station: P6 | Event #: 25 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 05|05/2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal	Nut-F (ML)	CHL (ML)	HPLC (HR)	Var									Comments (Save sheet after printing labels: YES)
1		86	5	✓	5.9		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																			

Sample Lists: Core_Samples

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

Watchkeeper(s): MG

Bottom Depth: 2552 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0559	2259
Bottom	0633	2359
End	0705	0005

Positional Information

Start	Lat: 48	°	44.66	N
	Lon: 127	°	39.98	W
Bottom	Lat: 48	°	44.56	N
	Lon: 127	°	40.09	W
End	Lat: 48	°	44.56	N
	Lon: 127	°	40.26	W

Extra comments:

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P7 Event #: 26 Ship: JP Tully

UTC Date (dd|mmm|yyyy): 5 | May 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: Sal	Nut-F	CHL	HPLC (HR)	Var (ML)									Comments (Save sheet after printing labels: YES)
1	2	87	5	✓	5.1		x	x	xx										
2	3	88	5	✓	5.5					X									
3	1	89	20	✓	20.2					X									
4																			chl max
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) TRM X-Niskin other?

Watchkeeper(s): RF

Bottom Depth: 2512 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0925	0225
Bottom	1000	0300
End	1035	0335

Positional Information

Start	Lat: 48 ° 46.655	N	
	Lon: 128 ° 9.960	W	
Bottom	Lat: 48 ° 46.610	N	
	Lon: 128 ° 9.970	W	
End	Lat: 48 ° 46.614	N	
	Lon: 128 ° 9.923	W	

Extra comments:

OUT OF ORDER!

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: loop Event #: 27 Ship: JP Tully UTC Date (dd|mmm|yyyy): 5 | May 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: CHL (HR)	Sal (HR)	Nut-F (~~HR~~)											Comments (Save sheet after printing labels: YES)
1		5027	Loop			x	x												underway loop
2																			
3																			
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: Loop
ROS TRM X-Niskin other?
Watchkeeper(s): HR

Bottom Depth: _____ m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1102	0402
Bottom		
End		

Positional Information

Start	Lat: 48 ° 46.923	N
	Lon: 128 ° 14.138	W
Bottom	Lat: °	N
	Lon: °	W
End	Lat: °	N
	Lon: °	W

Extra comments:

loop sample

Version: 4MAR2021

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

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

Cruise ID: 2021-006 | Station: P8 | Event #: ~~29~~ 30 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 5 | May 2021

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

Bottom Depth: 2527 m
Transmisso Cleaned: (Y) / N

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	CHL	HPLC	TOC							Comments (Save sheet after printing labels: YES)
1		90	2000	✓	2002.2	x	xx	x	x			x							
2		91	1500	✓	1502.0	xx	x	x	x			x							
3		92	1250	✓	1250	x	x	xx	xx			x							
4		93	1000	✓	1000.8	x	x	x	x			x							
5		94	800	✓	798.9	x	xx	x	x			x							
6		95	600	✓	601.6	x		x	x			x							
7		96	400	✓	399.2	x		x	x			x							
8		97	300	✓	301.0	x		x				x							
9		98	250	✓	250.9	xx		x				x							
10		99	200	✓	200.4	x		x				x							
11		100	175	✓	174.6	x		x				x							
12		101	150	✓	149.5	x		x				x							
13		102	125	✓	124.5	xx		x				x							
14		103	100*	✓	100.9	x		x		x		x							
15		104	75*	✓	74.3	x		xx		x		x							
16		105	60*	✓	60.8	x		x		x	xx	x							
17		106	50*	✓	49.8	x		x		x	xx	x							
18		107	40*	✓	39.1	x		x		x	xx	x							
19		108	30*	✓	30.6	xx		x		x	xx	x							
20		109	25*	✓	26.6	x		x		x		xx							
21		110	20*	✓	21.3	x		x		xx		x							
22		111	15*	✓	14.9	x		x		x	xx	x							
23		112	10*	✓	11.2	x		x		xx		x							
24		113	5*	✓	4.9	x		x		x	xx	x							

Time	UTC	Local
Start	1523	0823
Bottom	1558	0858
End	1658	0958

Positional Information

Start	Lat:	48	49.050	N
	Lon:	128	40.070	W
Bottom	Lat:	48	48.960	N
	Lon:	128	40.110	W
End	Lat:	48	48.890	N
	Lon:	128	40.250	W

Extra comments:

** 60 sec soak*

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P9 Event #: 31 Ship: JP Tully UTC Date (dd|mmm|yyyy): 5 MAY 21

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal	Nut-F	CHL	HPLC	Var									Comments (Save sheet after printing labels: YES)
1	1	114	5	√	5.7	x	x	xx	xx										100 sec. FL: <2
2																			
3		5031	Loop			x		xx											
4																			
5																			
6																			
7																			
8																			
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) TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 2330 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1912	1212
Bottom	1945	
End	2018	

Positional Information

Start	Lat:	48	°	51 420	N
	Lon:	129	°	9 820	W
Bottom	Lat:	48	°	51.49	N
	Lon:	129	°	09.50	W
End	Lat:	48	°	51.46	N
	Lon:	129	°	09.32	W

Extra comments:

LOOPS

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P10 Event #: 32 Ship: JP Tully UTC Date (dd|mmm|yyyy): 05 | 05 | 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal	Nut-F	CHL	HPLC	Var									Comments (Save sheet after printing labels: YES)
1	2	115	5	✓	6.1		x	x	xx										
2	1	116	Max	✓	44.6					x									~49m↓ 1.52
3	3	117	5	✓	6.3					x									
4																			
5																			
6																			
7																			
8																			
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 TRM X-Niskin other?

Watchkeeper(s): MG

Bottom Depth: ~~1940?~~ 2664 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2242	1542
Bottom	2314	
End	2349	

Positional Information

Start	Lat:	48 °	53.72	N
	Lon:	129 °	39.91	W
Bottom	Lat:	48 °	53.78	N
	Lon:	129 °	39.66	W
End	Lat:	48 °	53.83	N
	Lon:	129 °	39.40	W

Extra comments:

VAR + CHL MAX

Out of order!!

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P11 Event #: 34 Ship: JP Tully UTC Date (dd|mmm|yyyy): 6MAY2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal	Nut-F	CHL	HPLC	Bulk									Comments
1	3	118	5	✓	5		x	x	xx										FL: < 2
2	2	119	250	✓	250					xx									NH4 LNSW
3	1	120	400	✓	400					xx									NH4 LNSW
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Save sheet after printing labels: YES

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 2761 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0219	19
Bottom	0250	
End	0325	

Positional Information

Start	Lat:	48 °	56	020	N
	Lon:	130 °	9	980	W
Bottom	Lat:	48 °	56	040	N
	Lon:	130 °	9	700	W
End	Lat:	48 °	56	050	N
	Lon:	130 °	9	360	W

Extra comments:

LNSW - Low Nutrient Sea Water

OUT OF ORDER!

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P12 Event #: 35 Ship: JP Tully UTC Date (dd|mmm|yyyy): 06 | 05 | 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	UBC Sepc	UBC Lead	Nut-F	Nut-C	Sal				Comments (Save sheet after printing labels: YES)
r7		121	800			x	x						x	x	x				
6		122	600			x x	x x												
r5		123	400			[redacted] x	[redacted] x												Did not seal properly
r4		124	200			x	x												
3		125	150			x	x												
r2		126	100			x	x												

Sample Lists: Core_Samples

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): KS

Bottom Depth: 3241 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0548	2248
Bottom	0620	2320
End	0656	2356

Positional Information

Start	Lat: 48 ° 58.30	N	
	Lon: 130 ° 40.01	W	
Bottom	Lat: 48 ° 58.41	N	
	Lon: 130 ° 39.81	W	
End	Lat: 48 ° 58.451	N	
	Lon: 130 ° 39.761	W	

Extra comments:

TM-800

Nothing to comment

Duplicate switched

Bottle 6 b/c

5 didnt close properly.

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P12 Event #: 37 Ship: JP Tully UTC Date (dd|mmm|yyyy): 6 | May 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	UBC Sepc	UBC Lead	Nut-F	Nut-C	Sal				Comments
						Sampler's Initials / Samples Taken						Sample Lists:		Core_Samples					Save sheet after printing labels: YES
r4		127	75			x	x						x		x				
3		128	50			x	x												
r2		129	35			x	x		x	x	xx	xx							
1		130	10			x	x		x	x	xx	xx							

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

Watchkeeper(s): KS

Bottom Depth: 3258 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0827	0127
Bottom	0838	0138
End	0852	0152

Positional Information

Start	Lat:	48 °	58.274	N
	Lon:	130 °	40.010	W
Bottom	Lat:	48 °	58.303	N
	Lon:	130 °	40.006	W
End	Lat:	48 °	58.260	N
	Lon:	130 °	40.007	W

Extra comments:

TM-75

Went well

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P12 Event #: 39 Ship: JP Tully UTC Date (dd|mmm|yyyy): 6 May 2021

Niskin #	Firing #	Sample #	Rosette Operation Target Pressure	Confirmed √	Confirmed Pressure	OXY	Sal	Nut-F	Nut-C	DIC	TOC								Comments
						Sampler's Initials / Samples Taken						Sample Lists: Core_Samples							Save sheet after printing labels: YES
1		131	Bot-10	✓	3275.1	xx		x	x	x	x								
2		132	3000	✓	2999	x	x	x	x	x	x								
3		133	3000	✓	2999	x	x	x	x	x	x								
4		134	2500	✓	2499.7	x	x	x	x	x	x								
5		135	2000	✓	2000.1	x	xx	x	x	x	x								
6		136	1500	✓	1497.9	xx	x	x	x	x	x								
7		137	1250	✓	1249.9	x	x	xx	xx	x	x								
8		138	1000	✓	1001.2	x	x	x	x	x	x								
9		139	800	✓	799.8	x		x	x	xx	x								
10		140	600	✓	600.0	x		x	x	x	x								
11		141	400	✓	398.9	x		x	x	x	x								
12		142	300	✓	302.0	x		x		x	x								
13		143	250	✓	250.0	xx		x		x	x								
14		144	200	✓	200.4	x		x		x	x								
15		145	175	✓	175.0	x		xx		x	x								
16		146	150	✓	150.1	x		x		x	x								
17		147	125	✓	125.4	x		x		x	x								
18		148	100*	✓	99.1	x		x		x	x								
19		149	75*	✓	75.4	x		x		x	x								
20		150	50*	✓	50.9	x		x		x	x								
21		151	25*	✓	25.1	x		x		x	x								
22		152	10*	✓	10.5	x		x		x	xx								
23		153	5*	✓	5.4	xx		x		x	x								
24																			

Version: 4MAR2021

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

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): RF

Bottom Depth: 3237 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0949	0249
Bottom	1048	0348
End	1204	0504

Positional Information

Start	Lat:	48 °	58.133	N
	Lon:	130 °	39.860	W
Bottom	Lat:	48 °	58.180	N
	Lon:	130 °	40.010	W
End	Lat:	48 °	58.180	N
	Lon:	130 °	39.960	W

Extra comments:

Deep

* 60 sec soak

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P12 Event #: 40 Ship: JP Tully UTC Date (dd|mmm|yyyy): 06 | MAI 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken													Comments
							Var												Save sheet after printing labels: YES
1		154	Chl Max	✓	55		X												
2		155	5	✓	5		X												
3		156	5	✓	5		X												
4		157	5	✓	5		X												
5		158	5	✓	5		X												
6		159	5	✓	5		X												
7		160	5	✓	5		X												
8		161	5	✓	5		X												
9		162	5	✓	5		X												
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

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

Watchkeeper(s): MR

Bottom Depth: 3236 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1342	0642
Bottom	1345	
End	1351	

Positional Information

Start	Lat:	48° 58.25	N
	Lon:	130° 39.91	W
Bottom	Lat:	48° 58.23	N
	Lon:	130° 39.94	W
End	Lat:	48° 58.26	N
	Lon:	130° 39.95	W

Extra comments:

UVic

Version: 4MAR2021

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

Water Properties Group | Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 | Station: P12 | Event #: 41 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 06 | MAI | 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	DMS	DMSP-d	DMSP-t	Nut-F	CHL	HPLC	Lugol's	Form	Glut	DA				Comments
						Sampler's Initials / Samples Taken								Sample Lists: Core_Samples					Save sheet after printing labels: YES
1		163	400	✓	400	x	x	x	x										
2		164	200	✓	200	x	x	x	xx										
3		165	150	✓	150	x	x	x	x										
4		166	100*	✓	100	x			x	x									
5		167	75*	✓	74	x			x	xx									
6		168	60*	✓	60				x	x	xx								
7		169	50*	✓	50	x			x	x	xx								
8		170	40*	✓	40	x			x	x	xx								
9		171	30*	✓	30	x	x	x	x	x	xx								
10		172	25*	✓	25	x			x	x									
11		173	20*	✓	20	xx	xx	xx	x	x									
12		174	15*	✓	15	x			x	x	xx								
13		175	10*	✓	10	x			x	xx									
14		176	5*	✓	5	x	x	x	x										
15		177	5	✓	5				x	x	xx								
16		178	0*	✓	-3	x	x	x	x	x									
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): MR

Bottom Depth: 3236 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1418	0718
Bottom	1426	
End	1451	

Positional Information

Start	Lat:	48 ° 58.24	N
	Lon:	130 ° 39.92	W
Bottom	Lat:	48 ° 58.23	N
	Lon:	130 ° 39.92	W
End	Lat:	48 ° 58.31	N
	Lon:	130 ° 39.92	W

Extra comments:

DMS

** 60 sec soak*

Version: 4MAR2021

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

Water Properties Group | Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 | Station: P13 | Event #: ~~42~~ 43 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 06 |05 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal	Nut-F	CHL	HPLC	Var									Comments
1		179	5	✓	6.0	x	x	xx	xx										
2		180	5	✓	6.2					X									
3		5042	Loop			x		xx											
4		5043																	
5																			
6																			
7																			
8																			
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

Comments: Save sheet after printing labels: YES

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

Watchkeeper(s): MG

Bottom Depth: 3023 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2019	1319
Bottom	2054	
End	2130	

Positional Information

Start	Lat: 49	° 02.40	N
	Lon: 131	° 40.02	W
Bottom	Lat: 49	° 02.27	N
	Lon: 131	° 40.36	W
End	Lat: 49	° 02.19	N
	Lon: 131	° 40.37	W

Extra comments:

1 SAL 2 CHL

LOOPS

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P14 Event #: 45 Ship: JP Tully UTC Date (dd|mmm|yyyy): 06|05 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal (MG/MB)	Nut-F (MB)	CHL	HPLC (MG)	TOC (MB)	Var								Comments
1		181	2000	✓	2001	xx				x									
2		182	1750	✓	1750	x				x									
3		183	1500	✓	1499	x				x									
4		184	1250	✓	1250	x				x									
5		185	1000	✓	1001	x				x									
6		186	800	✓	799					x									
7		187	600	✓	600					x									
8		188	400	✓	400					x									
9		189	300	✓	300					x									
10		190	250	✓	251					x									
11		191	200	✓	201					x									
12		192	175	✓	175					x									
13		193	150	✓	150					x									
14		194	125	✓	126					x									
15		195	100	✓	100					x									
16		196	75	✓	76					x									
17		197	50	✓	51					x									
18		198	25	✓	25					x									
19		199	10	✓	10					x									
20		200	5	✓	5		x	x	xx	xx									
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

Save sheet after printing labels: YES

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): MG

Bottom Depth: 3321 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0158	1858
Bottom	0230	
End	0331	

Positional Information

Start	Lat:	49 ° 07.46	N
	Lon:	132 ° 39.89	W
Bottom	Lat:	49 ° 07.38	N
	Lon:	132 ° 39.97	W
End	Lat:	49 ° 07.30	N
	Lon:	132 ° 39.99	W

Extra comments:

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P15 Event #: 46 Ship: JP Tully UTC Date (dd|mmm|yyyy): May 17, 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal (Sampler's Initials: ~~RF~~ ML)	Nut-F (RF)	CHL (RF)	HPLC (HR)	Var (ML)									Comments
1	1	201	5	✓	5.2	x	x	xx	xx										
~~2~~																			
~~3~~		5046	Loop			x		xx											
~~4~~ 2	2	202	5	✓	5.2					X									
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

Save sheet after printing labels: YES

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): RF

Bottom Depth: 3393 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0807	0107
Bottom	0841	0141
End	0914	0214

Positional Information

Start	Lat:	49 ° 11.970	N
	Lon:	133 ° 39.900	W
Bottom	Lat:	49 ° 11.948	N
	Lon:	133 ° 40.021	W
End	Lat:	49 ° 11.892	N
	Lon:	133 ° 40.002	W

Extra comments:

LOOPS

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P16 Event #: 50 Ship: JP Tully UTC Date (dd|mmm|yyyy): 7 May 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: ML	Var												Comments (Save sheet after printing labels: YES)
1		203	Chl Max	✓	58.5		X												target: 58 m
2		204	5	✓	5		X												
3		205	5	✓	5		X												
4		206	5	✓	5		X												
5		207	5	✓	5		X												
6		208	5	✓	5		X												
7		209	5	✓	5		X												
8		210	5	✓	5		X												
9		211	5	✓	5		X												
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): RF

Bottom Depth: ~~36~~ 31 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1526	0826
Bottom	1530	0830
End	1536	0836

Positional Information

Start	Lat:	49 ° 16.991	N
	Lon:	134 ° 39.954	W
Bottom	Lat:	49 ° 17.010	N
	Lon:	134 ° 39.910	W
End	Lat:	49 ° 17.040	N
	Lon:	134 ° 39.860	W

Extra comments:

UVic

Nothing to remark

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P16 Event #: 51 Ship: JP Tully UTC Date (dd|mmm|yyyy): 7 | MAI | 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	UBC Sepc	UBC Lead	Nut-F	Nut-C	Sal				Comments
						Sampler's Initials / Samples Taken						Sample Lists: Core_Samples							Save sheet after printing labels: YES
r4		212	75			x	x						x		x				
3		213	50			x	x	xxxxxx											
r2		214	35			x	x	xxxxxx	x	x	xx	xx							
1		215	10			x	x	xxxxxx	x	x	xx	xx							

Profile type: GO-FLO
ROS TRM X-Niskin ~~other?~~
Watchkeeper(s): KS

Bottom Depth: 3630 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1613	0913
Bottom	1623	
End	1633	

Positional Information

Start	Lat:	49 ° 17.01	N
	Lon:	134 ° 39.92	W
Bottom	Lat:	49 ° 16.98	N
	Lon:	134 ° 39.93	W
End	Lat:	49 ° 16.87	N
	Lon:	134 ° 39.88	W

Extra comments:
TM-75

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P16 Event #: 52 Ship: JP Tully UTC Date (dd|mmm|yyyy): 7 | May 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	OXY (MB/MA)	Sal (MG/MA)	Nut-F (MG/MB)	Nut-C (MG)	DIC	TOC (MG)								Comments
1		216	Bot-10	✓	3687.6	x		x	x		x								
2		217	3500	✓	3499.8	x	x	x	x		x								
3		218	3000	✓	3002	x	x	x	x		x								
4		219	3000	✓	3002	x	x	x	x		x								
5		220	2500	✓	2501.6	xx	xx	x	x		x								
6		221	2000	✓	2002.0	x	x	x	x		x								
7		222	1500	✓	1498.1	x	x	x	x		x								
8		223	1250	✓	1249.9	xx	xx	x	x		x								
9		224	1000	✓	1000	x	x	x	x		x								
10		225	800	✓	802	x		x	x		x								
11		226	600	✓	601	x		x	x		x								
12		227	400	✓	400	x		xx	xx		x								
13		228	300	✓	299	x		x			x								
14		229	250	✓	250	x		x			x								
15		230	200	✓	200	x		x			x								
16		231	175	✓	175	xx		x			x								
17		232	150	✓	150	x		xx			x								
18		233	125	✓	126	x		x			x								
19		234	100*	✓	101	x		x			x								
20		235	75*	✓	75	xx		x			x								
21		236	50*	✓	51	x		x			x								
22		237	25*	✓	25	x		x			xx								
23		238	10*	✓	11	x		x			x								
24		239	5*	✓	5	x					x								

Sample Lists: Core_Samples

Save sheet after printing labels: YES

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

Watchkeeper(s): RF

Bottom Depth: 3630 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1644	~~1609~~ 0944
Bottom	1752	1052
End	1923	

Positional Information

Start	Lat: 49 ° 16.980	N
	Lon: 134 ° 40.080	W
Bottom	Lat: 49 ° 16.820	N
	Lon: 134 ° 40.020	W
End	Lat: 49 ° 16.97	N
	Lon: 134 ° 40.00	W

Extra comments:

Deep

** 60 sec soak*

Version: 4MAR2021

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

Water Properties Group

Sampling Log

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

Program STN List: All_Stns

Cruise ID: 2021-006 Station: P16 Event #: 53 Ship: JP Tully

UTC Date (dd|mmm|yyyy): 7 MAI 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	UBC Sepc	UBC Lead	Nut-F	Nut-C	Sal				Comments
						Sampler's Initials / Samples Taken						Sample Lists:		Core_Samples					Save sheet after printing labels: YES
r7		240	800			x	x												
6		241	600			x	x						x	x	x				
r5		242	400			x	x												
r4		243	200			x	x												
3		244	150			xx	xx												
r2		245	100			x	x	xxx											

Profile type: GO-FLOS
ROS TRM X-Niskin other?
Watchkeeper(s): KS

Bottom Depth: 3630 m
Transmisso Cleaned: ~~Y / N~~

Time	UTC	Local
Start	2017	1317
Bottom	2043	
End	2113	

Positional Information

Start	Lat:	49 ° 17.11	N
	Lon:	134 ° 39.94	W
Bottom	Lat:	49 ° 17.20	N
	Lon:	134 ° 39.84	W
End	Lat:	49 ° 17.20	N
	Lon:	134 ° 39.63	W

Extra comments:
TM-800

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P16 Event #: 54 Ship: JP Tully UTC Date (dd|mmm|yyyy): 07 | 05 | 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	DMS (MR)	DMSP-d (~~MA~~)	DMSP-t	Nut-F (MG)	CHL (MG/MK)	HPLC (MB)	Lugol's	Form	Glut	DA				Comments
1		246	400	√	400	x	x	x	x										
2		247	200	√	200	x	x	x	x										
3		248	150	√	151	x	x	x	x										
4		249	100*	√	99	x			x	x									
5		250	75*	√	77	x			x	x									
6		251	60*	√	59				x	x	xx								
7		252	50*	√	51	x			x	x	xx								
8		253	40*	√	41	x			x	x	xx								
9		254	30*	√	30	x	x	x	x	x	xx								
10		255	25*	√	25	x			x	x									
11		256	20*	√	21	xx	xx	xx	x	xx									
12		257	15*	√	14	x			x	x	xx								
13		258	10*	√	10	x			x	x									
14		259	5*	√	5	x	x	x	x										
15		260	5	√	6				xx	x	xx								
16		261	0*	√	3.4	x	x	x	x	xx									
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sample Lists: Core_Samples

Save sheet after printing labels: YES

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

Watchkeeper(s): MG

Bottom Depth: 3631 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2126	1426
Bottom	2134	
End	2204	

Positional Information

Start	Lat:	49 ° 17.42	N
	Lon:	134 ° 39.72	W
Bottom	Lat:	49 ° 17.43	N
	Lon:	134 ° 39.67	W
End	Lat:	49 ° 17.40	N
	Lon:	134 ° 39.51	W

Extra comments:

DMS

* 60 sec soak

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P17 Event #: 55 Ship: JP Tully UTC Date (dd|mmm|yyyy): 8MAY21

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal	Nut-F	CHL	HPLC	Var								Comments (Save sheet after printing labels: YES)
1	1	262	Max	✓	50					x								NO CLEAR MAX UVIC
2	2	263	5	/	6					x								UVIC
3	3	264	5	/	6	x	x	xx	xx									
4		5055	Loop			x		xx										
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) TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: ~3400 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0254	1954
Bottom	0325	
End	0358	

Positional Information

Start	Lat:	49 ° 20 990	N
	Lon:	135 ° 39 860	W
Bottom	Lat:	49 ° 20 948	N
	Lon:	135 ° 39 827	W
End	Lat:	49 ° 20 916	N
	Lon:	135 ° 39 803	W

Extra comments:

LOOPS

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

UTC Date (dd|mmm|yyyy): May | 8, 2021

Cruise ID: 2021-006 Station: P18 Event #: 56 Ship: JP Tully

Sample Lists: Core_Samples

Comments: Save sheet after printing labels: YES

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

Watchkeeper(s): RF

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal (ML)	Nut-F	CHL	HPLC	TOC (HR)	Var								Comments
1		265	2000	✓	2000.2	xx				x									
2		266	1750	✓	1750.0	x				x									
3		267	1500	✓	1501.1	x				x									
4		268	1250	✓	1250.3	x				x									
5		269	1000	✓	999.6	x				x									
6		270	800	✓	799.6					x									
7		271	600	✓	599.4					x									
8		272	400	✓	399.9					x									
9		273	300	✓	300.1					x									
10		274	250	✓	249.0					x									
11		275	200	✓	200.1					x									
12		276	175	✓	174.9					x									
13		277	150	✓	149.9					x									
14		278	125	✓	125.8					x									Only 30s wait time
15		279	100*	✓	99.8					x									"
16		280	75*	✓	74.9					x									
17		281	50*	✓	49.3					x									
18		282	25*	✓	25.6					x									
19		283	10*	✓	9.4					x									
20		284	5*	✓	4.2		x	x	xx	xx									
21																			
22																			
23																			
24																			

Bottom Depth: 3809 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0826	0126
Bottom	0905	0205
End	0957	0257

Positional Information

Start	Lat:	49 ° 26.070	N
	Lon:	136 ° 39.930	W
Bottom	Lat:	49 ° 27.070	N
	Lon:	136 ° 39.880	W
End	Lat:	49 ° 26.040	N
	Lon:	136 ° 39.880	W

Extra comments:

* 60 sec soak

Version: 4MAR2021

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

Water Properties Group

Program STN List: Ali_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P19 Event #: 57 Ship: JP Tully UTC Date (dd|mmm|yyyy): 8 May 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal	Nut-F	CHL	HPLC	Var								Comments (Save sheet after printing labels: YES)
1	2	285	5	✓	5.6	x	x	xx	xx									
2	3	286	5	✓	5.1					X								
3	5 ~~287~~		Loop			x		x HR ~~xx~~										ONLY 1 CHL LOOP
4	1	~~288~~ 287	37.5	✓	38.0					X								chl max target=37.5
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] TRM X-Niskin other?

Watchkeeper(s): RF

Bottom Depth: 3917 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1459	0759
Bottom	1534	0834
End	1610	0910

Positional Information

Start	Lat:	49 ° 30.068	N
	Lon:	137 ° 39.947	W
Bottom	Lat:	49 ° 30.037	N
	Lon:	137 ° 39.850	W
End	Lat:	49 ° 30.052	N
	Lon:	137 ° 39.823	W

Extra comments:

OUT-OF-ORDER LOOPS

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P20 Event #: 58 Ship: JP Tully UTC Date (dd|mmm|yyyy): 08 |05 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken								Sample Lists: Core_Samples					Comments (Save sheet after printing labels: YES)
							Var	ML											
1		288	Chl Max	✓	58		X												0.92
2		289	5	✓	5.1		X												
3		290	5	✓	5.4		X												
4		291	5	✓	5.4		X												
5		292	5	✓	5.0		X												
6		293	5	✓	5.0		X												
7		294	5	✓	5.3		X												
8		295	5	✓	5.5		X												
9		296	5	✓	5.5		X												
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): MG

Bottom Depth: 3953 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2103	1403
Bottom	2107	
End	2115	

Positional Information

Start	Lat:	49 °	33.95	N
	Lon:	138 °	39.88	W
Bottom	Lat:	49 °	33.94	N
	Lon:	138 °	39.85	W
End	Lat:	49 °	33.88	N
	Lon:	138 °	39.75	W

Extra comments:

UVic

Version: 4MAR2021

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

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

Cruise ID: 2021-006 | Station: P20 | Event #: 59 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 08-MAI-2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	UBC Sepc	UBC Lead	Nut-F	Nut-C	Sal				Comments
						Sampler's Initials / Samples Taken						Sample Lists:		Core_Samples					Save sheet after printing labels: YES
r4		297	75			x	x						x		x				
3		298	50			x	x												
r2		299	35			x	x		x	x	xx	xx							
1		300	10			x	x		x	x	xx	xx							

Profile type: Go-FLO
ROS TRM X-Niskin other?
Watchkeeper(s): KS

Bottom Depth: 3953 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2120	1420
Bottom	2129	
End	2138	

Positional Information

Start	Lat:	49 °	33.84	N
	Lon:	138 °	39.73	W
Bottom	Lat:	49 °	33.75	N
	Lon:	138 °	39.65	W
End	Lat:	39 °	33.67	N
	Lon:	138 °	39.60	W

Extra comments:
TM-75

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P20 Event #: 60 Ship: JP Tully UTC Date (dd|mmm|yyyy): 08 | 05 | 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	DMS (MR)	DMSP-d (MA)	DMSP-t	Nut-F	CHL (I)	HPLC	Lugol's	Form	Glut	DA				Comments
1		301	400	✓	400	x	x	x	x										
2		302	200	✓	200	x	x	x	x										
3		303	150	✓	150	x	x	x	x										
4		304	100*	✓	99	x			x	x									
5		305	75*	✓	76	x			x	x									
6		306	60*	✓	60				xx	x	xx								
7		307	50*	✓	50	x			x	x	xx								
8		308	40*	✓	41	x			x	x	xx								
9		309	30*	✓	30	x	x	x	x	x	xx								
10		310	25*	✓	25	x			x	xx									
11		311	20*	✓	20	xx	xx	xx	x	x									
12		312	15*	✓	15	x			x	x	xx								
13		313	10*	✓	10	x			x	xx									
14		314	5*	✓	5	x	x	x	x										
15		315	5	✓	5				x	x	xx								
16		316	0*	✓	3.5	x	x	x	x	x									
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Save sheet after printing labels: YES

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): MG

Bottom Depth: 3953 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2147	1447
Bottom	2152	
End	2224	

Positional Information

Start	Lat: 49 ° 33.66	N	
	Lon: 138 ° 39.59	W	
Bottom	Lat: 49 ° 33.71	N	
	Lon: 138 ° 39.52	W	
End	Lat: 49 ° 33.78	N	
	Lon: 138 ° 39.42	W	

Extra comments:

DMS

* 60 sec soak

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P20 Event #: 63 Ship: JP Tully UTC Date (dd|mmm|yyyy): 9|MAY|21

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	UBC Sepc	UBC Lead	Nut-F	Nut-C	Sal				Comments
						Sampler's Initials / Samples Taken						Sample Lists:		Core_Samples					Save sheet after printing labels: YES
r7		317	800			x	x						x	x	x				
6		318	600			x	x												
r5		319	400			x	x												
r4		320	200			x	x												
3		321	150			xx	xx												
r2		322	100			x	x												

Profile type: (BOT) ROS TRM X-Niskin other?

Watchkeeper(s): KS

Bottom Depth: 3955 m

Transmisso Cleaned: NA Y / N

Time	UTC	Local
Start	0036	1736
Bottom	0104	
End	0136	

Positional Information

Start	Lat:	49 ° 33 36	N
	Lon:	138 ° 39 95	W
Bottom	Lat:	49 ° 33 13	N
	Lon:	138 ° 39 94	W
End	Lat:	49 ° 32 91	N
	Lon:	138 ° 39 97	W

Extra comments:

TM-800

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P20 Event #: 64 Ship: JP Tully UTC Date (dd|mmm|yyyy): 9MAY2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	OXY (mg/mg)	Sal	Nut-F	Nut-C	DIC (KS/mm)	TOC								Comments (Save sheet after printing labels: YES)
1	1	323	Bot-10	✓	4025	x		x	x	x	x								
2	2	324	3500	✓	3500	xx	xx	x	x	x	x								
3	3	325	3000	✓	3000	x	x	x	x	x	x								
4	4	326	3000	✓	3000	x	x	x	x	x	x								
5	5	327	2500	✓	2500	x	xx	xx	xx	x	x								
6	6	328	2000	✓	2000	x	x	x	x	x	x								
7	7	329	1500	✓	1500	x	x	x	x	x	x								
8	8	330	1250	✓	1250	x	x	x	x	x	x								
9	9	331	1000	✓	1000	xx	x	x	x	x	x								
10	10	332	800	✓	800	x		x	x	x	x								
11	11	333	600	✓	600	x		x	x	xx	x								
12	12	334	400	✓	400	x		x	x	x	x								
13	13	335	300	✓	300	x		xx		x	x								
14	14	336	250	✓	250	xx		x		x	x								
15	15	337	200	✓	200	x		x		x	x								
16	16	338	175	✓	175	x		x		x	x								
17	17	339	150	✓	150	x		x		x	x								
18	18	340	125	✓	125	x		x		x	x								
19	19	341	100*	✓	100	x		x		x	x								
20	20	342	75*	✓	75	x		x		x	x								
21	21	343	50*	✓	50	x		x		x	xx								
22	22	344	25*	✓	25	x		x		x	x								
23	23	345	10*	✓	10	xx		x		x	x								
24		346	5*	✓	5	x		x		x	x								

Sample Lists: Core_Samples

Version: 4MAR2021

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

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: ~~4025~~ 3960 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0207	1907
Bottom	0314	
End	0450	

Positional Information

Start	Lat:	49 °	34	03	N
	Lon:	138 °	40	03	W
Bottom	Lat:	49 °	33	81	N
	Lon:	138 °	40	17	W
End	Lat:	49 °	33	790	N
	Lon:	138 °	40	180	W

Extra comments:

Deep

* 60 sec soak

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P21 Event #: 66 Ship: JP Tully UTC Date (dd|mmm|yyyy): 9 May 2021

Sample Lists: Core_Samples

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal (HR)	Nut-F (HR)	CHL (HR)	HPLC (HR)	Var (ML)									Comments (Save sheet after printing labels: YES)
1	2	347	5	✓	5.5	x	x	xx	xx										
2	3	348	5	✓	4.5					X									
3		5066	Loop			x		xx											
4	1	349	65	✓	65.4					X									Chlorophyll max 65
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): RF

Bottom Depth: 3949 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0908	0208
Bottom	0944	0244
End	1021	0321

Positional Information

Start	Lat:	49 ° 38.090	N
	Lon:	139 ° 40.100	W
Bottom	Lat:	49 ° 38.040	N
	Lon:	139 ° 39.970	W
End	Lat:	49 ° 38.030	N
	Lon:	139 ° 39.960	W

Extra comments:

OUT-OF-ORDER LOOPS

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P22 Event #: 67 Ship: JP Tully UTC Date (dd|mmm|yyyy): May 19 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal (HL)	Nut-F (RF)	CHL (RF)	HPLC (RF)	TOC (HR)	Var (ML)								Comments
1	1	350	2000	✓	2000.5	xx				x									
2	2	351	1750	✓	1750.6	x				x									
3	3	352	1500	✓	1499.3	x				x									
4	4	353	1250	✓	1250.9	x				x									
5	5	354	1000	✓	1000.7	x				x									
6	6	355	800	✓	800.2					x									
7	7	356	600	✓	600.1					x									
8	8	357	400	✓	400.8					x									
9	9	358	300	✓	300.3					x									
10	10	359	250	✓	250.2					x									
11	11	360	200	✓	199.8					x									
12	12	361	175	✓	175.1					x									
13	13	362	150	✓	149.7					x									
14	14	363	125	✓	124.4					x									
15	15	364	100*	✓	98.7					x									
16	16	365	75*	✓	75.7					x									
17	18	366	50*	✓	50.4					x									
18	19	367	25*	✓	25.6					x									
19	20	368	10*	✓	10.8					x									
20	21	369	5*	✓	5.5		x	x	xx	xx									
21	22	370	5	✓	5.5						X								
22	17	371	55	✓	55.1						X								chl max target 55
23																			
24																			

Sample Lists: Core_Samples

Save sheet after printing labels: YES

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): RF

Bottom Depth: 3880 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1455	0755
Bottom	1531	0831
End	1629	0929

Positional Information

Start	Lat:	49 ° 42.060	N
	Lon:	~~13~~ 140 ° 40.040	W
Bottom	Lat:	49 ° 42.020	N
	Lon:	140 ° 40.000	W
End	Lat:	49 ° 42.000	N
	Lon:	140 ° 40.030	W

Extra comments:

OUT OF ORDER!

* 60 sec soak

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P23 Event #: 69 Ship: JP Tully UTC Date (dd|mmm|yyyy): 09 |05 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal	Nut-F	CHL	HPLC (KS)	Var (ML)	Chuk (MA)								Comments (Save sheet after printing labels. YES)
1		372	2005	√	2006						X								
2		373	Max	√	65					x									0.94
3		374	5	√	6					x									
4		375	5	√	6	x	x	xx	xx										
5																			
6																			
7																			
8																			
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) TRM X-Niskin other?

Watchkeeper(s): MG

Bottom Depth: 4039 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	2045	1345
Bottom	2118	
End	2153	

Positional Information

Start	Lat:	49 °	46.05	N
	Lon:	141 °	39.93	W
Bottom	Lat:	49 °	46.06	N
	Lon:	141 °	39.87	W
End	Lat:	49 °	46.07	N
	Lon:	141 °	39.84	W

Extra comments:

DEEP WATER
CHL MAX + VAR

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P24 Event #: 70 ~~71~~ Ship: JP Tully UTC Date (dd|mmm|yyyy): 10May21

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal	Nut-F	CHL	HPLC	TOC	Var								Comments
						Sampler's Initials / Samples Taken						Sample Lists: Core_Samples							Save sheet after printing labels: YES
1	1	376	2000	✓	2000	xx				x									
2	2	377	1750	✓	1750	x				x									
3	3	378	1500	✓	1500	x				x									
4	4	379	1250	✓	1250	x				x									
5	5	380	1000	✓	1000	x				x									
6	6	381	800	✓	800	x				x									
7	7	382	600	✓	600	x				x									
8	8	383	400	✓	400	x				x									
9	9	384	300	✓	300	x				x									
10	10	385	250	✓	250	x				x									
11	11	386	200	✓	200	x				x									
12	12	387	175	✓	175	x				x									
13	13	388	150	✓	150	x				x									
14	14	389	125	✓	125	x				x									
15	15	390	100*	✓	100	x				x									
16	16	391	75*	✓	75	x				x									
17	17	392	50*	✓	50	x				x									
18	18	393	25*	✓	25	x				x									
19	19	394	10*	✓	10	x				x									
20	20	395	5*	✓	5	x	x	x	xx	xx									
21																			
22																			
23																			
24																			

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): MB

Bottom Depth: 3975 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0204	1904
Bottom	0240	
End	0331	

Positional Information

Start	Lat:	49 °	50	230	N
	Lon:	142 °	40	070	W
Bottom	Lat:	49 °	50	221	N
	Lon:	142 °	39	950	W
End	Lat:	49 °	50	231	N
	Lon:	142 °	39	929	W

Extra comments:

* 60 sec soak

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P25 Event #: 72 Ship: JP Tully UTC Date (dd|mmm|yyyy): May | 10 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sal	Nut-F	CHL	HPLC (HS)	Var (ML)									Comments
1	2	396	5	✓	5.9	x	x	xx	xx										
2	3	397	5	✓	5.9					X									
3		5072	Loop			x		xx											
4	1	398	50	✓	50.3					X									Chlorophyll max
5																			
6																			
7																			
8																			
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

Save sheet after printing labels: YES

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): RF

Bottom Depth: 4130 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0809	0109
Bottom	0845	~~0245~~ 0145
End	0918	0219

Positional Information

Start	Lat:	50 ° 0.030	N
	Lon:	143 ° 36.220	W
Bottom	Lat:	50 ° 0.000	N
	Lon:	143 ° 36.120	W
End	Lat:	49 ° 59.980	N
	Lon:	143 ° 36.160	W

Extra comments:

Nothing to remark.

LOOPS OUT OF ORDER

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P35 Event #: 74 Ship: JP Tully UTC Date (dd|mmm|yyyy): 10 | 05/2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: Sal	Nut-F	CHL	HPLC	Var									Comments (Save sheet after printing labels: YES)
1	1	399	2005	✓	2007.1	x													
2	2	400	2005	✓	2006.7	x													Salt water
3	3	401	5	✓	6.0		x	x	xx										Salt water
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) TRM X-Niskin other?

Watchkeeper(s): HS

Bottom Depth: 4138 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	12:33	05:33
Bottom	1309	06:09
End	1344	

Positional Information

Start	Lat: 50 ° 0.047	N
	Lon: 144 ° 18.221	W
Bottom	Lat: 50 ° 0.026	N
	Lon: 144 ° 18.083	W
End	Lat: 50 ° 00.02	N
	Lon: 144 ° 18.05	W

Extra comments:

NOTE: Labels are for the carboy, not for samples

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P26 Event #: 75 Ship: JP Tully UTC Date (dd|mmm|yyyy): 10 MAY 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: Var	Sample Lists: Core_Samples	Comments
1	1	402	Chl Max	✓	61.4	X		60m
2	2	403	5	✓	5.5	X		
3	3	404	5	✓	5.4	X		
4	4	405	5	✓	5	X		
5	5	406	5	✓	5	X		
6	6	407	5	✓	5	X		
7	7	408	5	✓	5	X		
8	8	409	5	✓	5	X		
9	9	410	5	X	5	X		DID NOT FIRE ↳ user error NOT mechanical
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

Save sheet after printing labels: YES

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): HS

Bottom Depth: 4240 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	16:57	9:57
Bottom	17:01	10:01
End	17:07	10:07

Positional Information

Start	Lat:	50 °	00.20	N
	Lon:	144 °	59.944	W
Bottom	Lat:	50 °	00.48	N
	Lon:	144 °	59.912	W
End	Lat:	50 °	00.70	N
	Lon:	144 °	59.909	W

Extra comments:

UVic

Version 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P26 Event #: 76 Ship: JP Tully UTC Date (dd|mmm|yyyy): 10 MAY 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	UBC Sepc	UBC Lead	Nut-F	Nut-C	Sal				Comments
						Sampler's Initials / Samples Taken							Sample Lists:	Core_Samples					Save sheet after printing labels: YES
r7		411	200			x	x						x		x				
6		412	150			x	x												
r5		413	100			x	x	xxxxxx											
r4		414	75			x	x												
3		415	50			x	x	xxxxxx											
r2		416	35			x	x	xxxxxx	x	x	xx	xx							
1		417	10			x	x	xxxxxx	x	x	xx	xx							

Version: 4MAR2021

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

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): KS/RF/HS

Bottom Depth: 4233 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1724	1024
Bottom	1744	1044
End	1806	

Positional Information

Start	Lat:	50 ° 00.84	N
	Lon:	144 ° 59.04	W
Bottom	Lat:	49 ° 59.88	N
	Lon:	144 ° 59.73	W
End	Lat:	49 ° 59.78	N
	Lon:	144 ° 59.64	W

Extra comments:

TM-200

Water Properties Group

Sampling Log

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

Program STN List: All_Stns

Cruise ID: 2021-006 Station: P26 Event #: 77 Ship: JP Tully UTC Date (dd|mmm|yyyy): 10 May 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	OXY (MR/MC)	Sal (→)	Nut-F (MB)	Nut-C (MB)	DIC (MB)	TOC (MA/KS)	Comments
1	1	418	Bot-10	√	4316	x		x	x	x	x	
2		419	4000	√	3999	x	xx	xx	xx	x	x	
3		420	3500	√	3501	x	x	x	x	x	x	
4		421	3000	√	3001	x	x	x	x	x	x	
5		422	2500	√	2501	xx	xx	x	x	xx	x	
6		423	2000	√	2000	x	x	x	x	x	x	
7		424	1500	√	1500	x	x	x	x	x	x	
8		425	1250	√	1251	x	x	x	x	x	x	
9		426	1000	√	1001	x	x	x	x	x	x	
10		427	800	√	800	xx		x	x	x	x	
11		428	600	√	602	x		x	x	x	x	
12		429	400	√	403	x		x	x	x	x	
13		430	300	√	301	x		x		x	x	
14		431	250	√	251	x		x		x	x	
15		432	200	√	200	x		x		x	x	
16		433	175	√	176	xx		x		x	x	
17		434	150	√	150	x		x		x	x	
18		435	125	√	125	x		xx		x	x	
19		436	100*	√	100	x		x		x	x	
20		437	75*	√	76	x		x		x	x	
21		438	50*	√	50	x		x		x	x	
22		439	25*	√	26	x		x		x	xx	
23	↓	440	10*	√	10	x		x		x	x	
24	24	441	5*	√	5	xx		x		x	x	

Sample Lists: Core_Samples

Save sheet after printing labels: YES

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): RF/MG

Bottom Depth: 4230 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1823	1123
Bottom	1938	
End	2121	

Positional Information

Start	Lat:	50 °	0.000	N
	Lon:	144 °	59.930	W
Bottom	Lat:	49 °	59.96	N
	Lon:	150 °	00.00	W
End	Lat:	49 °	59.63	N
	Lon:	144 °	59.98	W

Extra comments:

Deep

* 60 sec soak

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P26 Event #: 78 Ship: JP Tully UTC Date (dd|mmm|yyyy): 10 | MAR 2021

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	UBC Sepc	UBC Lead	Nut-F	Nut-C	Sal				Comments (Save sheet after printing labels: YES)
~~r7~~		442	1500			x	x						x	x	x				
6		443	1250			xx	xx												
r5		444	1000			x	x												Bottom Bull jarred open on retrieval.
r4		445	800			x	x												
3		446	600			x	x												
r2		447	400			x	x												
R1		448	200			x	x												

Sample Lists: Core_Samples

Profile type: GO-FLO
ROS TRM X-Niskin other?
Watchkeeper(s): KS

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2114	1514
Bottom	2254	
End	2343	

Positional Information

Start	Lat:	50 ° 00.08	N
	Lon:	145 ° 00.00	W
Bottom	Lat:	49 ° 59.97	N
	Lon:	145 ° 00.10	W
End	Lat:	49 ° 59.93	N
	Lon:	145 ° 00.20	W

Extra comments:
TM-1500
RBR on 7 was moved to 1

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 Station: P26 Event #: 79 Ship: JP Tully UTC Date (dd|mmm|yyyy): 11|MAY|21

Niskin #	Firing #	Sample #	Rosette Operation Target Pressure	Confirmed √	Confirmed Pressure	DMS	DMSP-d	DMSP-t	Nut-F	CHL	HPLC	Lugol's	Form	Glut	DA				Comments
1		449	400	✓	400	x	x	x	x										
2		450	200	✓	199	x	x	x	x										
3		451	150	✓	150	x	x	x	x										
4		452	100*	✓	100	x			x	x									
5		453	75*	✓	75	x			x	x									
6		454	60*	✓	60				x	x	xx								
7		455	50*	✓	50	x			x	x	xx								
8		456	40*	✓	40	x			x	x	xx								
9		457	30*	✓	30	x	x	x	x	x	xx								
10		458	25*	✓	25	x			x	x									
11		459	20*	✓	20	xx	xx	xx	x	xx									
12		460	15*	✓	15	x			x	x	xx								
13		461	10*	✓	10	x			x	x									
14		462	5*	✓	5	x	x	x	x										
15		463	5	✓	5				x	x	xx	x	x	x					
16		464	0*	✓		x	x	x	xx	xx									
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Save sheet after printing labels: YES

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

Watchkeeper(s): MR/MGM/MA

Bottom Depth: 4250 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0023	1723
Bottom	0029	
End	0055	

Positional Information

Start	Lat:	49° 59.96	N
	Lon:	145° 00.01	W
Bottom	Lat:	49° 59.97	N
	Lon:	145° 00.03	W
End	Lat:	49° 59.96	N
	Lon:	145° 00.09	W

Extra comments:

DMS

* 60 sec soak

Version: 4MAR2021

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

Water Properties Group

Program STN List: All_Stns

Sampling Log

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

UTC Date (dd|mmm|yyyy): 11|MAY|21

Cruise ID: 2021-006 Station: P26 Event #: 83 Ship: JP Tully

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

Comments
Save sheet after printing labels: YES

Sample Lists: Core_Samples

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	IOS DMe	IOS TMe	IOS Lig	UBC DMeUBC	UBC TMeUBC	UBC Sepc	UBC Lead	Nut-F	Nut-C	Sal				
r7		468	10				xx												
6		469	10																
r5		470	10																
r4		471	10																
3		472	10																
r2		473	10																
1		474	10																

Bottom Depth: 4250 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0305	2005
Bottom	0320	
End	0336	

Positional Information

Start	Lat:	50 °	00	43	N
	Lon:	144 °	59	29	W
Bottom	Lat:	50 °	00	39	N
	Lon:	144 °	59	19	W
End	Lat:	50 °	00	34	N
	Lon:	144 °	59	07	W

Extra comments:
TM-10

Version: 4MAR2021

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

Water Properties Group | Program STN List: All_Stns

Sampling Log

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

Cruise ID: 2021-006 | Station: PA-015 | Event #: 84 | Ship: JP Tully | UTC Date (dd|mmm|yyyy): 11|MAY|21

Niskin #	Firing #	Sample #	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Sampler's Initials / Samples Taken: OXY	Sample Lists: Core_Samples	Comments (Save sheet after printing labels: YES)
1	1	465	10	✓	10	xx		
2	2	466	5	✓	5	xx		
3	3	467	0	✓	2.5	xx		
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

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

Watchkeeper(s): MB

Bottom Depth: 4250 m

Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	0446	2146
Bottom	0451	
End	0501	

Positional Information

Start	Lat:	50	° 6	970	N
	Lon:	144	° 48	980	W
Bottom	Lat:	50	° 6	960	N
	Lon:	144	° 48	979	W
End	Lat:	50	° 6	964	N
	Lon:	144	° 48	926	W

Extra comments:

CTD to 350 m.

Version: 4MAR2021

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