

Cruise ID: 2020-028

Station: SI

Event #: 1

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 18 | 06 | 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: Core_Samples								Comments
			Target Pressure	Confirmed √ Pressure	OXY	Nut-F	CHL	HPLC									
1		1	20			x	xx										
2		2	10			x	x										
3		3	5			xx	x										
4		4	0			x	x	xx									
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): GC.

Bottom Depth: 176 m

Transmisso Cleaned: Y 1 (N)

Time	UTC	Local
Start	0146	1846
Bottom	0149	
End	0156	

Positional Information

Start

Lat: 48 ° 39.550 N

Lon: 123 ° 30.040 W

Bottom

Lat: 48 ° 39.550 N

Lon: 123 ° 30.040 W

End

Lat: 48 ° 39.550 N

Lon: 123 ° 30.040 W

Extra comments:

5-24 fired @ bot-10m to test niskin integrity

Water Properties Group

Program
STN List:

SoG

Sampling Log

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

Cruise ID:

2020-028

Station:

22

Event #:

06

Ship:

JP Tully

UTC Date (dd|mmm|yyyy):

18 | 06 | 2020

Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples										Comments
Target Pressure	Confirmed Pressure	Nut-F	CHL	HPLC	Lugols	DA											

Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Nut-F	CHL	HPLC	Lugols	DA								
1		5	20	✓ 10	x	xx											
2		6	10	✓	x	x											
3		7	5	✓	xx	x											
4		8	0	✓	x	x	xx	x	x								
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): 812

Bottom Depth: 354 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1433	0733
Bottom	1439	
End	1447	

Positional Information

Start	Lat: 49 ° 40.190 N
	Lon: 124 ° 16.290 W

Bottom	Lat: 49 ° 40.172 N
	Lon: 124 ° 16.279 W

End	Lat: 49 ° 40.151 N
	Lon: 124 ° 16.255 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: All Samples				Comments	
			Target Pressure	Confirmed Pressure	SAL									
1		9	200	✓ 200	x									
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

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

Watchkeeper(s): SRZ

Bottom Depth: 163 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1829	1129
Bottom	1837	
End	1843	

Positional Information

Start

Lat: 50 ° 0.940 N

Lon: 124 ° 52.626 W

Bottom

Lat: 50 ° 0.930 N

Lon: 124 ° 52.580 W

End

Lat: 50 ° 0.910 N

Lon: 124 ° 52.530 W

Extra comments:

stn 19 sal

Water Properties Group

Program
STN List: SoG

Sampling Log

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

Cruise ID: 2020-028

Station: QU-39

Event #: 11

Ship: JP Tully

UTC Date (dd mmm/yyyy): 18 Oct 2020

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

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

Bottom Depth: 271 m
Transmisso Cleaned: 1 N

Time	UTC	Local
Start	2130	1430
Bottom	2135	
End	2145	

Positional Information
Start
Lat: 50 ° 01.840 N
Lon: 125 ° 05.930 W

Bottom
Lat: 50 ° 01.850 N
Lon: 125 ° 05.920 W

End
Lat: 50 ° 01.860 N
Lon: 125 ° 05.930 W

Extra comments:

**Program
STN List:**

SoG

Sampling Log

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

Cruise ID:

2020-028

Station:

16

Event #:

13/14

Ship:

JP Tully

UTC Date (dd|mmm|yyyy): 18 | 06 | 2020

[illegible]

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): 60

Bottom Depth: 155 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
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Start	2329	1629
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Bottom	2333	
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End	2349
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Positional Information

Lat: 49 ° 57.704 N

Lon: 125 ° 08.720 W

Lat: 49 ° 57.70. N

Lon: 125° 08.820 W

Lat: 49 ° 57.710 N

Lon: 125° 8.86 W

Extra comments:

16 $\frac{1}{2}$ min to stop on station

Water Properties Group

Program
STN List:

SoG

Sampling Log

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

Cruise ID:

2020-028

Station:

12

Event #:

16

Ship:

JP Tully

UTC Date (dd mmm yyyy): 19 06 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core Samples						Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	Nut-F	SAL	CHL	HPLC	DA	Phyto	DIC					
1	1	25	Bot-5	✓ 349	x	x						x					
2	2	26	300	✓ 300	x	x	x										
3	3	27	250	✓ 250	xx	x						xx					
4	4	28	200	✓ 200	x	x						xx					
5	5	29	175	✓ 175	x	x											
6	6	30	150	✓ 150	x	x						x					
7	7	31	125	✓ 125	xx	x						x					
8	8	32	100	✓ 100	x	x						x					
9	9	33	75	✓ 75	x	x						x					
10	10	34	50	✓ 50	x	x						x					
11	11	35	40	✓ 40	x	x						x					
12	12	36	30	✓ 30	xx	x						xx					
13	13	37	20	✓ 20	x	x		x				x					
14	14	38	10	✓ 10	x	x		xx				x					
15	15	39	5	✓ 5	x	x		x			x	x					
16	16	40	0	✓ 0	x	xx		x	xx	x	x	x					Phyto moved to bot 15 16 random.
17																	Fluoro = 0.75
18																	
19																	2x HgCl
20																	Ran out of water on #16. for phyto + DA.
21																	
22																	
23																	
24																	

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

Bottom Depth: 359 m
Transmisso Cleaned: B / N

Time	UTC	Local
Start	542	2242
Bottom	551	
End	614	

Positional Information

Lat: 49 ° 43.720 N
Lon: 124 ° 40.940 W

Bottom

Lat: 49 ° 43.730 N
Lon: 124 ° 40.890 W

End

Lat: 49 ° 43.690 N
Lon: 124 ° 40.860 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples								Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	Nut-F	SAL	CHL	HPLC									
1		41	Bot-5	✓ 166	x	x												
2		42	150	✓	x	x												
3		43	125	✓	x	x												
4		44	100	✓	x	x												
5		45	75	✓	xx	xx												
6		46	50		x	x												
7		47	40		x	x												
8		48	30		x	x												
9		49	20		x	x		x										
10		50	10		x	x		x										
11		51	5		x	x		x										
12		52	0		xx	x		xx	xx									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Watchkeeper(s): 

Bottom Depth: 171 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0856	0156
Bottom	0900	
End	0913	

Positional Information

Start

Lat: 49 ° 35.460 N

Lon: 124 ° 38.210 W

Bottom

Lat: 49 ° 35.466 N

Lon: 124 ° 38.210 W

End

Lat: 49 ° 35.440 N

Lon: 124 ° 38.220 W

Extra comments:

Water Properties Group

Program
STN List:

SoG

Sampling Log

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

Cruise ID:

2020-028

Station:

6

Event #:

22

Ship:

JP Tully

UTC Date (dd mmm yyyy): 19 June 2020

Rosette Operation	
Target Pressure	Confirmed Pressure
	✓

Sampler's Initials / Samples Taken

Sample Lists: Core Samples

Comments

Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	OXY	Nut-F	SAL	CHL	HPLC										
1		53	Bot-5	187	x	x													
2		54	175		x	x													
3		55	150		x	x													
4		56	125		xx	x													
5		57	100		x	x													
6		58	75		x	x													
7		59	50		x	x													
8		60	40		x	x													
9		61	30		x	xx													
10		62	20		xx	x		xx											
11		63	10		x	x		x											
12		64	5		x	x		x											
13		65	0		x	x		x	xx										
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): SR

Bottom Depth:

194 m

Transmisso Cleaned:

Y/N

Time

UTC

Local

Start

1225

0525

Bottom

1229

End

1243

Positional Information

Lat: 49 ° 30.740 N

Lon: 124 ° 27.600 W

Start

Lat: 49 ° 30.740 N

Lon: 124 ° 27.620 W

End

Lat: 49 ° 30.740 N

Lon: 124 ° 27.590 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	Nut-F	SAL	CHL	HPLC						
1		66	Bot-5	✓ 318	xx	x									
2		67	300	✓	x	x	x								
3		68	250	✓	x	x									
4		69	200	✓	x	x									
5		70	175	✓	x	xx									
6		71	150	✓	x	x									
7		72	125	✓	xx	x									
8		73	100	✓	x	x									
9		74	75	✓	x	x									
10		75	50	✓	x	x									
11		76	40	✓	x	x									
12		77	30	✓	x	x									
13		78	20	✓	x	x		x							
14		79	10	✓	x	x		x							
15		80	5	✓	xx	x		x							
16		81	0	✓	x	x		xx	xx						
17															
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): 812

Bottom Depth: 324 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1456	0756
Bottom	1502	
End	1520	

Positional Information

Start

Lat: 49 ° 26.657 N

Lon: 124 ° 20.398 W

Bottom

Lat: 49 ° 26.664 N

Lon: 124 ° 20.365 W

End

Lat: 49 ° 26.690 N

Lon: 124 ° 20.442 W

Extra comments:

Water Properties Group

Program
STN List:

SoG

Sampling Log

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

Cruise ID:

2020-028

Station:

2

Event #:

28

Ship:

JP Tully

UTC Date (dd mmm yyyy): 19 Jun 2020

Rosette Operation
Target Pressure
Confirmed Pressure

Sampler's Initials / Samples Taken

Sample Lists: Core Samples

Comments

Niskin #
Firing #
Sample #

OXY Nut-F SAL CHL HPLC DA Phyto

1		82	Bot-5	✓ 273	xx	xx													
2		83	250	/	x	x	x												
3		84	200	/	x	x													
4		85	175	/	x	x													
5		86	150	/	x	x													
6		87	125	/	xx	x													
7		88	100	/	x	x													
8		89	75	/	x	x													
9		90	50	/	x	x													
10		91	40	/	x	x													
11		92	30	/	x	x													
12		93	20	/	x	x			x										
13		94	10	/	xx	x			xx										
14		95	5	/	x	x			x										
15		96	0	/	x	x			x	xx	x	x							
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 286 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	1813	1113
Bottom	1817	
End	1834	

Positional Information
Start
Lat: 49 ° 24.070 N
Lon: 124 ° 9.410 W

Bottom
Lat: 49 ° 24.080 N
Lon: 124 ° 9.420 W

End
Lat: 49 ° 24.100 N
Lon: 124 ° 9.460 W

Extra comments:

Water Properties Group

Program
STN List:

SoG

Sampling Log

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

Cruise ID:

2020-028

Station:

27

Event #:

35

Ship:

JP Tully

UTC Date (dd/mm/yyyy): 20/06/2020

Rosette Operation			Sampler's Initials / Samples Taken						Sample Lists: Core_Samples				Comments			
Target Pressure	Confirmed Pressure		OXY	Nut-F	SAL	CHL	HPLC	DA	Phyto	DIC						
Bot-5	✓ 341		x	x						x						
300	✓ 300		x	x	x					x						Bottle didn't get
250	✓ 250		x	x						xx						
200	✓ 200		xx	x						x						
175	✓ 175		x	x												
150	✓ 150		x	x												
125	✓ 125		x	x												
100	✓ 100		xx	x												
75	✓ 75		x	x												
50	✓ 50		x	x												
40	✓ 40		x	x												
30	✓ 30		xx	x												
20	✓ 20		x	xx		x										
10	✓ 10		x	x		x										
5	✓ 5		x	x		x										
0	✓ 0		x	x		xx	xx	x	x						Fluoro: 2.2	

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): GC

Bottom Depth: 350 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	00:54	17:54
Bottom	1:01	
End	1:26	

Positional Information

Lat:	49 ° 19.110	N
Lon:	123 ° 48.020	W

Lat:	49 ° 19.090	N
Lon:	123 ° 47.970	W

Lat:	49 ° 19.050	N
Lon:	123 ° 48.020	W

Extra comments:

Corrected pressure can
file used for cast

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken						Sample Lists: Core Samples						Comments
			Target Pressure	Confirmed ✓	Pressure	OXY	Nut-F	SAL	CHL	HPLC	Lugols							
1	1	113	20	✓	20		x		x									
2	2	114	10	✓	10		xx		x									
3	3	115	5	✓	5		x		x									
4	4	116	0	✓	0		x		xx	xx	x							Fluoro: 3.0
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): GC

Bottom Depth: 406 m

Transmisso Cleaned: 1 N

Time	UTC	Local
Start	05:06	2206
Bottom	05:13	
End	0525	

Positional Information

Start

Lat: 49 ° 15.020 N

Lon: 123 ° 44.910 W

Bottom

Lat: 49 ° 15.030 N

Lon: 123 ° 44.860 W

End

Lat: 49 ° 15.020 N

Lon: 123 ° 44.890 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core Samples								Comments
			Target Pressure	Confirmed Pressure	OXY	Nut-F	SAL	CHL	HPLC									
1		117	Bot-5	✓ 372	x	x												
2		118	350	✓	x	x	x											
3		119	300	✓	x	xx												
4		120	250	✓	x	x												
5		121	200	✓	xx	x												
6		122	175	✓	x	x												
7		123	150	✓	x	x												
8		124	125	✓	x	x												
9		125	100	✓	x	x												
10		126	75	✓	xx	x												
11		127	50	✓	x	x												
12		128	40	✓	x	x												
13		129	30	✓	x	x												
14		130	20	✓	x	x		x										
15		131	10	✓	x	xx		x										
16		132	5	✓	x	x		x										
17		133	0	✓	xx	x		xx	xx									
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Watchkeeper(s): SR

Bottom Depth: 378 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0756	0056
Bottom	0803	
End	0822	

Positional Information

Start

Lat: 49 ° 9.847 N

Lon: 123 ° 32.946 W

Bottom

Lat: 49 ° 9.869 N

Lon: 123 ° 32.915 W

End

Lat: 49 ° 9.908 N

Lon: 123 ° 32.849 W

Extra comments:

Water Properties Group

Program
STN List:

SoG

Sampling Log

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

Cruise ID:

2020-028

Station:

42

Event #:

50

Ship:

JP Tully

UTC Date (dd mmm yyyy): 20 June 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core Samples				Comments
			Target Pressure	Confirmed ☒ Pressure	OXY	Nut-F	SAL	CHL	HPLC	DA	Phyto	DIC			
1		134	Bot-5	✓ 322	x	x						x			
2		135	300	✓	x	x	x								
3		136	250	✓	x	x						x			
4		137	200	✓	x	x						x			
5		138	175	✓	xx	x									
6		139	150	✓	x	x						x			
7		140	125	✓	x	x						xx			
8		141	100	✓	x	x						x			
9		142	75	✓	x	xx						x			
10		143	50	✓	x	x						x			
11		144	40	✓	xx	x						x			
12		145	30	✓	x	x						x			
13		146	20	✓	x	x		xx				x			
14		147	10	✓	x	xx		x				xx			
15		148	5	✓	x	x		x				x			
16		149	0	✓	x							x			
17		150	0	✓		x		x	xx	x	x				
18															
19															
20															
21															
22															
23															
24															

Profile type:

ROS ☒ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): SR

Bottom Depth: 323 m

Transmisso Cleaned: ☒ Y ☐ N

Time UTC Local

Start 1227 0527

Bottom 1233

End 1252

Positional Information

Lat: 49 ° 1.550 N

Lon: 123 ° 26.540 W

Lat: 49 ° 1.570 N

Lon: 123 ° 26.530 W

Lat: 49 ° 1.590 N

Lon: 123 ° 26.500 W

Extra comments:

DIC DUPS:
B COLLECTED
BEFORE A

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	Nut-F	SAL	CHL	HPLC								
1		151	Bot-5	167	x	xx											
2		152	150		x	x											
3		153	125		xx	x											
4		154	100		x	x											
5		155	75		x	x											
6		156	50		x	x											
7		157	40		xx	x											
8		158	30		x	x											
9		159	20		x	xx		x									
10		160	10		x	x		x									
11		161	5		x	x		xx									
12		162	0		x	x		x	xx								
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): SR

Bottom Depth: 172 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	1542	0842
Bottom	1545	
End	1558	

Positional Information

StartLat: 48 ° 51.378 N
Lon: 123 ° 10.465 W

BottomLat: 48 ° 51.370 N
Lon: 123 ° 10.469 W

EndLat: 48 ° 51.415 N
Lon: 123 ° 10.400 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core Samples						Comments
			Target Pressure	Confirmed Pressure	OXY	Nut-F	SAL	CHL	HPLC	DA	Lugols						
1	1	163	Bot-510	✓ 173	x	x											
2	2	164	200		x	x											) NOT CLOSED NOT WORKING
3	3	165	175		xx	x											
4	4	166	150	✓ 150	x	x											
5	5	167	125	✓ 125	x	x											
6	6	168	100	✓ 100	x	x											
7	7	169	75	✓ 75	xx	x											
8	8	170	50	✓ 50	x	x											
9	9	171	40	✓ 40	x	xx											
10	10	172	30	✓ 30	x	x											
11	11	173	20	✓ 20	x	x		x									
12	12	174	10	✓ 10	x	x		x									
13	13	175	5	✓ 5	x	x		x									
14	14	176	0	✓ 1.6	x	xx		xx	xx	x	x						
15																	165 Nut-F 56 2020-028 175 m bot 3 164 Nut-F 56 2020-028 200 m bot 2
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): GC

Bottom Depth: 183 m

Transmisso Cleaned: (Y) N

Time	? UTC	Local
Start	2046	1446
Bottom	2050	
End	2204	

Positional Information

Lat: 48 ° 46.42 N

Lon: 123 ° 01.91 W

Lat: 48 ° 46.53 N

Lon: 123 ° 01.89 W

Lat: 48 ° 46.94 N

Lon: 123 ° 01.51 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	Nut-F	SAL	CHL	HPLC	DA	Lugols						
1	1	177	20	✓ 20		x		x									
2	2	178	10	✓ 10		x		xx									
3	3	179	5	✓ 5		x		x									
4	4	180	0	✓ 0		x		x	xx	x	x						Fluoro: 5.8
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): GC

Bottom Depth: 100 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0232	1932
Bottom	0234	
End	0235	

Positional Information

Start

Lat: 48 ° 43.450 N

Lon: 123 ° 25.130 W

Bottom

Lat: 48 ° 43.450 N

Lon: 123 ° 25.130 W

End

Lat: 48 ° 43.460 N

Lon: 123 ° 25.130 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	Nut-F	SAL	CHL	HPLC	DA	Lugols	DIC					
1	1	181	Bot-5	✓ 207	x	x						x					
2	2	182	200	✓ 200	x	x	x					x					Added SAL.
3	3	183	175	✓ 175	x	xx											
4	4	184	150	✓ 149	x	x						xx					
5	5	185	125	✓ 125	xx	x											
6	6	186	100	✓ 100	x	x						x					
7	7	187	75	✓ 75	x	x						x					
8	8	188	50	✓ 50	x	x						x					
9	9	189	40	✓ 40	xx	x											
10	10	190	30	✓ 30	x	xx						xx					
11	11	191	20	✓ 20	x	x		x				x					
12	12	192	10	✓ 10	x	x		x				x					
13	13	193	5	✓ 5	x	x		xx				x					
14	14	194	0	✓ 1.7	x	x						x					
15	15	195	0	✓ 1.7		x		x	xx	x	x						Fluro: 1.5
16																	
17												1x Hgcl					
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): AC

Bottom Depth: 216 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	0500	2200
Bottom	0505	
End	0522	

Positional Information

Start

Lat: 48 ° 37.870 N

Lon: 123 ° 14.880 W

Bottom

Lat: 48 ° 37.880 N

Lon: 123 ° 14.880 W

End

Lat: 48 ° 37.860 N

Lon: 123 ° 14.880 W

Extra comments:

Water Properties Group

Program
STN List: SoG

Sampling Log

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

Cruise ID: 2020-028 Station: 62 Event #: 75 Ship: JP Tully UTC Date (dd|mmm|yyyy): 21|June|2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	Nut-F	SAL	CHL	HPLC						
1		196	Bot-5	✓ 146	xx	x									
2		197	125	✓	x	x									
3		198	100	✓	x	x									
4		199	75	✓	x	xx									
5		200	50	✓	x	x									
6		201	40	✓	x	x									
7		202	30	✓	x	x									
8		203	20	✓	xx	x		xx							
9		204	10	✓	x	x		x							
10		205	5	✓	x	xx		x							
11		206	0	✓	x	x		x	xx						
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Bottom Depth: 151 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0829	0129
Bottom	0831	
End	0842	

Positional Information

Start	Lat: 48 ° 22.790 N
	Lon: 123 ° 2.790 W

Bottom

Lat: 48 ° 22.800 N
Lon: 123 ° 2.740 W

End

Lat: 48 ° 22.850 N
Lon: 123 ° 2.720 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	Nut-F	SAL	CHL	HPLC	DA	Lugols						
1		207	20	✓		X		X									
2		208	10	✓		X		XX									
3		209	5	✓		X		X									
4		210	0	✓		X		X	XX	X	X						
5																	
6																	
7																	
8																	
9																	
10																	
11																	
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17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Watchkeeper(s): SR

Bottom Depth: 151 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1007	0307
Bottom	1009	
End	1015	

Positional Information

Start

Lat: 48 ° 14.690 N

Lon: 122 ° 58.410 W

Bottom

Lat: 48 ° 14.670 N

Lon: 122 ° 58.440 W

End

Lat: 48 ° 14.730 N

Lon: 122 ° 58.470 W

Extra comments:

Water Properties Group

Program STN List: SoG

Sampling Log

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

Cruise ID: 2020-028

Station: 65

Event #: 79

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 21 June 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments
			Target Pressure	Confirmed Pressure	OXY	Nut-F	SAL	CHL	HPLC	DA	Lugols						
1		211	Bot-5	✓ 125	x	x											
2		212	100	✓	x	x											
3		213	75	✓	xx	x											
4		214	50	✓	x	x											
5		215	40	✓	x	xx											
6		216	30	✓	x	x											
7		217	20	✓	x	x		x									
8		218	10	✓	x	x		x									
9		219	5	✓	x	x		xx									
10		220	0	✓	x	x		x	xx								
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 130 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1203	0503
Bottom	1206	
End	1215	

Positional Information

Start	Lat: 48 ° 15.850 N
	Lon: 123 ° 10.025 W
Bottom	Lat: 48 ° 15.860 N
	Lon: 123 ° 10.050 W
End	Lat: 48 ° 15.890 N
	Lon: 123 ° 10.180 W

Extra comments:

Water Properties Group

Program
STN List:

SoG

Sampling Log

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

Cruise ID:

2020-028

Station:

adcp

Event #:

84

Ship:

JP Tully

UTC Date (dd|mmm|yyyy): 21 June 2020

Rosette Operation		Sampler's Initials / Samples Taken		Sample Lists: Core Samples										Comments
Target Pressure	Confirmed Pressure	OXY	Nut-F	SAL	CHL	HPLC	DA	Lugols						

Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	OXY	Nut-F	SAL	CHL	HPLC	DA	Lugols								
1		221	Bot-5	104	x	x													
2		222	100		x	x													
3		223	75		x	x													
4		224	50		x	x													
5		225	40		x	x													
6		226	30		x	x													
7		227	20		xx	x		xx											
8		228	10		x	x		x											
9		229	5		x	xx		x											
10		230	0		x	x		x	xx										
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 11 m
Transmisso Cleaned: Y N

Time	UTC	Local
Start	1508	
Bottom	1510	
End	1519	

Positional Information
Start
Lat: 48° 14.449 N
Lon: 123° 18.317 W

Bottom
Lat: 48° 14.450 N
Lon: 123° 18.404 W

End
Lat: 48° 14.466 N
Lon: 123° 18.900 W

Extra comments:

Water Properties Group

Program
STN List: SoG

Sampling Log

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

Cruise ID: 2020-028 Station: 69 Event #: 87 Ship: JP Tully UTC Date (dd|mmm|yyyy): 21|June|2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments		
			Target Pressure	Confirmed ✓ Pressure	OXY	Nut-F	SAL	CHL	HPLC	DA	Lugols						
1		231	Bot-5	✓ 174	x	x											
2		232	150	✓ 151	x	xx											
3		233	125	✓	x	x											
4		234	100	✓ 101	x	x											
5		235	75	✓	xx	x											
6		236	50	✓	x	x											
7		237	40	✓	x	x											
8		238	30	✓	x	x											
9		239	20	✓	x	xx		x									
10		240	10	✓	x	x		xx									
11		241	5	✓	xx	x		x									
12		242	0	✓	x	x		x	xx								
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 180 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1804	
Bottom	1807	
End	1827	

Positional Information
Start
Lat: 48 ° 15.640 N
Lon: 123 ° 43.620 W

Bottom
Lat: 48 ° 15.700 N
Lon: 123 ° 43.850 W

End
Lat: 48 ° 16.150 N
Lon: 123 ° 44.090 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken					Sample Lists: All_Samples					Comments		
			Target	Confirmed		SAL	CHL											
			Pressure	✓	Pressure													
1	1	70 243 5088	5		5	x	xx											Pluv. 6.8.
						x	xx											LOOP
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): GE

Bottom Depth: m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	19:08	12:18
Bottom	19:23	
End		

Positional Information

Start

Lat: 48 ° 19.290 N

Lon: 123 ° 43.590 W

Bottom

Lat: 48 ° 19.342 N

Lon: 123 ° 43.597 W

End

Lat: 48 ° 19.330 N

Lon: 123 ° 43.550 W

Extra comments:

loop 2xChl, 1xSal

Water Properties Group

Program
STN List:

SoG

Sampling Log

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

Cruise ID:

2020-028

Station:

72

Event #:

92

Ship:

JP Tully

UTC Date (dd mmm yyyy): 21 06 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists:				Core Samples				Comments
			Target Pressure	Confirmed Pressure	OXY	Nut-F	SAL	CHL	HPLC	DA	Lugols	DIC							
1		244	Bot-5	✓ 184	x	x						x							
2		245	175	✓ 175	x	x													
3		246	150	✓ 150	x	x													
4		247	125	✓ 125	xx	xx													
5		248	100	✓ 101	x	x													
6		249	75	✓ 75	x	x													
7		250	50	✓ 50	x	xx													
8		251	40	✓ 40	xx	x													didn't wait 30secs
9		252	30	✓ 30	x	x													
10		253	20	✓ 20	x	x		xx											
11		254	10	✓ 10	x	x		x											
12		255	5	✓ 5	x	x		x											
13		256	0	✓ 0	x	x													
14		257	0	✓ 0		x		x	xx	x	x								
15																			Fluo 2.52
16																			
17																			1 x Hg cell
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 191 m

Transmisso Cleaned: Y/N

Time	UTC	Local
Start	2221	1521
Bottom	2225	
End	2240	

Positional Information

Start
Lat: 48 ° 18.329 N
Lon: 124 ° 03.395 WBottom
Lat: 48 ° 18.310 N
Lon: 124 ° 03.288 WEnd
Lat: 48 ° 18.048 N
Lon: 124 ° 02.818 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	Nut-F	SAL	CHL	HPLC	DA	Lugols				
1		258	Bot-5	✓ 255	x	x									
2		259	200	✓	x	x	x								
3		260	175	✓	x	x									
4		261	150	✓	xx	x									
5		262	125	✓	x	xx									
6		263	100	✓	x	x									
7		264	75	✓	x	x									
8		265	50	✓	x	x									
9		266	40	✓	x	xx									
10		267	30	✓	x	x									
11		268	20	✓	x	x		x							
12		269	10	✓	xx	x		xx							
13		270	5	✓	x	x		x							
14		271	0	✓	x	x		x	xx	x	x				
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): SR

Bottom Depth: 261 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0823	0123
Bottom	0830	
End	0845	

Positional Information

Start

Lat: 48 ° 29.966 N

Lon: 124 ° 44.084 W

Bottom

Lat: 48 ° 29.910 N

Lon: 124 ° 44.063 W

End

Lat: 48 ° 29.897 N

Lon: 124 ° 44.191 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	Nut-F	SAL	CHL	HPLC	DA	Lugols	DIC					
1		272	Bot-5	✓ 215	xx	x											
2		273	200	✓	x	xx	x										
3		274	175	✓	x	x											
4		275	150	✓	x	x											
5		276	125	✓	x	x											
6		277	100	✓	x	x											
7		278	75	✓	xx	x											
8		279	50	✓	x	x											
9		280	40	✓	x	x											
10		281	30	✓	x	x											
11		282	20	✓	x	xx		x									
12		283	10	✓	x	x		x									
13		284	5	✓	x	x		xx									
14		285	0	✓	x	x		x	xx								
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Watchkeeper(s): SR

Bottom Depth: 221 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1133	0433
Bottom	1136	
End	1151	

Positional Information

Start

Lat: 48 ° 28.483 N

Lon: 124 ° 33.083 W

Bottom

Lat: 48 ° 28.512 N

Lon: 124 ° 33.090 W

End

Lat: 48 ° 28.657 N

Lon: 124 ° 33.053 W

Extra comments: