

Cruise ID: 2020-009

Station: LB01

Event #: 1

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 24 | Aug | 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: Core_Samples								Comments
			Target Pressure	Confirmed ✓ Pressure	KSMO	OXY	Nut-F	SAL	CHL	HPLC	NH4	DIC					
1	1	1	Bot-10	✓ 27		x	xx		x			x					
2	2	2	20	✓ 20		x	x		xx		xx	x					
3	3	3	10	✓ 10		x	x		x		xx	xx					
4	4	4	5	✓ 5		xx	x		x	xx	xx	x					EL: 7.5
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: 37 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	2207	1507
Bottom	2208	
End	2212	

Positional Information

Start

Lat: 48 ° 40 378 N

Lon: 124 ° 59 418 W

Bottom

Lat: 48 ° 40 378 N

Lon: 124 ° 59 417 W

End

Lat: 48 ° 40 378 N

Lon: 124 ° 59 399 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken										Sample Lists: Core_Samples				Comments
			Target Pressure	Confirmed ✓ Pressure															
1	1	5	Bot-10	✓ 47	x	x		x											
2	2	6	30	✓ 30	x	xx		x											
3	3	7	20	✓ 20	x	x		x		xx									DED NOT FIR
4	4	8	10	✓ 10	xx	x		xx		xx									
5	5	9	5	✓ 5	x	x		x	xx	xx	x	x	x	x					FL: ~8
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14		6																	
15		CHL	6B																
16		LB02	Nut-F																
17		2020-009	LB02																
18		30 m	2020-009																
19		bot 2	30 m																
20			bot 2																
21																			
22																			
23																			
24																			

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

Watchkeeper(s): MB

Bottom Depth: 57 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2239	15 39
Bottom	2241	
End	22	

Positional Information

Start

Lat: 48 ° 39 046 N

Lon: 125 ° 2 346 W

Bottom

Lat: 48 ° 39 047 N

Lon: 125 ° 2 346 W

End

Lat: 48 ° 39 030 N

Lon: 125 ° 2 320 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Custom Samples								Comments
			Target Pressure	Confirmed ✓	Pressure	OXY	Nut-F	SAL	CHL	HPLC								
1	1	10	5	✓	5		x		xx	xx								FL:
2	2	-	5	✓	5													TEST FIRE
3																		TOOK TWO
4																		TRYS
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: 95 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2314	1614
Bottom	2316	
End	2326	

Positional Information

Start

Lat: 48 ° 37 415 N

Lon: 125 ° 5 536 W

Bottom

Lat: 48 ° 37 416 N

Lon: 125 ° 5 530 W

End

Lat: 48 ° 37 416 N

Lon: 125 ° 5 522 W

Extra comments:

Water Properties Group

Program
STN List: La_Peouse

Sampling Log

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

Cruise ID:

2020-009

Station:

LB04

Event #:

4

Ship:

JP Tully

UTC Date (dd mmm yyyy):

24 AUG 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core Samples						Comments
			Target Pressure	Confirmed Pressure	KS/MS	OXY	Nut-F	SAL	CHL	HPLC	NH4						
1	1	11	Bot-10	✓ 103		x	x										
2	2	12	75	✓ 75		x	x										
3	4	13	50	✓ 50		xx	x		x								
4	5	14	30	✓ 30		x	xx		xx								
5	6	15	20	✓ 20		x	x		x		xx						
6	7	16	10	✓ 10		x	x		x		xx						
7	8	17	5	✓ 5		x	x		x	xx	xx						
8																	FL: 35
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24	3		75	✓ 75													

Version: 28May2020

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

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s):

MB

Bottom Depth:

114

m

Transmissometer Cleaned:

Y

N

Time

UTC

Local

Start

2349

1649

Bottom

2357

End

2359

Positional Information

Start

Lat:

48

°

35

718

N

Bottom

Lon:

125

°

8

710

W

End

Lat:

48

°

35

720

N

Lon:

125

°

8

700

W

End

Lat:

48

°

35

710

N

Lon:

125

°

8

670

W

Extra comments:

OUT OF ORDER
FIRE 24 IN CASE 2
DIDN'T FIRE.DID NOT
NEED

DID NOT NEED

Water Properties Group

STN List:

La Perouse

Sampling Log

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

Cruise ID:

2020-009

Station:

LB05

Event #:

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 25 | AUG | 2020

[illegible]

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

Bottom Depth: 105 m
Transmisso Cleaned: (Y) / N

<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start	0221	1921
Bottom	0226	
End	0229	

Positional Information

Lat:	48 ° 34 090	N
Lon:	125 ° 11 770	W

Lat: 48 ° 34 090 N
Lon: 125 ° 11 770 W

Lat: 48 ° 34 070 N
Lon: 125 ° 11 750 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments
			Target Pressure	Confirmed Pressure	K/M	M/M	SAL	CHL	HPLC	NH4							
1	1	19	Bot-10	✓ 105	xx	x											
2	2	20	100	✓ 100	x	x											
3	4	21	75	✓ 75	x	x											
4	5	22	50	✓ 50	x	x		x									
5	6	23	30	✓ 30	x	x		x									
6	7	24	20	✓ 20	x	x		xx		xx							
7	8	25	10	✓ 10	x	xx		x		xx							
8	9	26	5	✓ 5	x	x		x	xx	xx							F1: 5.5
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24	3		100	100													NOT NEEDED

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

Watchkeeper(s): MB

Bottom Depth: 116 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0259	1959
Bottom	0301	
End	0309	

Positional Information

Start

Lat: 48 ° 32 230 N

Lon: 125 ° 15 470 W

Bottom

Lat: 48 ° 32 234 N

Lon: 125 ° 15 463 W

End

Lat: 48 ° 32 202 N

Lon: 125 ° 15 445 W

Extra comments:

FIRED BATTLE 24@100 FOR BACKUP AT OF ORDER

Cruise ID: 2020-009

Station: LB07

Event #: 14

Ship: JP Tully

UTC Date (dd mmm/yyyy): 25 | 08 | 20

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Custom_Samples								Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	Nut-F	SAL	CHL	HPLC									
1		27	5	✓ 5.2		x		xx	xx									SALINITY OFFSET 0.016-026
2																		Bot 1 LEAKS @ BOTTOM
3																		RESET GOOD
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): MG

Bottom Depth: 155 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0716	0016
Bottom	0720	
End	0724	

Positional Information

Start

Lat: 48 ° 28.72 N

Lon: 125 ° 21.96 W

Bottom

Lat: 48 ° 28.72 N

Lon: 125 ° 21.97 W

End

Lat: 48 ° 28.70 N

Lon: 125 ° 22.01 W

Extra comments:

Cruise ID: 2020-009

Station: LB08

Event #: 22

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 25 | 08 | 20

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments
			Target Pressure	Confirmed ✓ Pressure	MG	MG	Nut-F	SAL	CHL	HPLC	NH4	DIC					
1		28	Bot-10	✓	145	x	x					x					SPIKEY GREEN TRANS
2		29	125	✓	125	x	x										BOT 1 LEAK @ BOTTOM
3		30	100	✓	100	x	x					x					RESET GOOD
4		31	75	✓	75	x	x					xx					
5		32	50	✓	50	x	x		x			x					
6		33	30	✓	30	x	x		x			xx					
7		34	20	✓	21	xx	x		x		xx	x					
8		35	10	✓	11	x	x		x		xx	x					
9		36	5	✓	5	x	xx	x	xx	xx	xx	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: 157 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1137	0439
Bottom	1140	
End	1154	

Positional Information

Start

Lat: 48 ° 25.35 N

Lon: 125 ° 28.77 W

Bottom

Lat: 48 ° 25.36 N

Lon: 125 ° 28.76 W

End

Lat: 48 ° 25.39 N

Lon: 125 ° 28.80 W

Extra comments:

Water Properties Group

Program
STN List: La_Peouse

Sampling Log

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

Cruise ID: 2020-009

Station: LB09

Event #: 23

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 25 | 08 | 20

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments
			Target Pressure	Confirmed ✓ Pressure	MG/HR	0.15		0.15	0.2	JS							
1		37	Bot-10	✓ 142	x	x											
2		38	125	✓ 125	xx	x											
3		39	100	✓ 100	x	x											
4		40	75	✓ 75	x	xx											
5		41	50	✓ 50	x	x		xx									
6		42	30	✓ 31	x	x		x									
7		43	20	✓ 21	x	x		x		xx							
8		44	10	✓ 10	x	x		x		xx							
9		45	5	✓ 5	x	x	x	x	xx	xx							
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: 152 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1249	0549
Bottom	1251	
End	1303	

Positional Information

Lat:	48 ° 22.09	N
Lon:	125 ° 34.70	W

Bottom

Lat:	48 ° 22.06	N
Lon:	125 ° 34.72	W

End

Lat:	48 ° 22.02	N
Lon:	125 ° 34.78	W

Extra comments:

Water Properties Group

Program
STN List: La_Peouse

Sampling Log

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

Cruise ID: 2020-009

Station: LB10

Event #: 24

Ship: JP Tully

UTC Date (dd mmm/yyyy): 25 / 08 / 20

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Custom Samples								Comments
			Target Pressure	Confirmed ✓ Pressure	OXY	Nut-F	SAL	CHL	HPLC									
1		46	5	✓ 5.6		x		x	xx									
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 135 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1407	0707
Bottom	1410	
End	1414	

Positional Information
Start
Lat: 48 ° 18.56 N
Lon: 125 ° 41.33 W

Bottom
Lat: 48 ° 18.56 N
Lon: 125 ° 41.34 W

End
Lat: 48 ° 18.56 N
Lon: 125 ° 41.33 W

Extra comments:

Cruise ID: 2020-009

Station: LB11

Event #: 26

Ship: JP Tully

UTC Date (dd mmm yyyy): 25 | 08 | 20

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments
			Target Pressure	Confirmed ✓ Pressure	Mg	Mix		JS	DC	JS							
					OXY	Nut-F	SAL	CHL	HPLC	NH4							
1		47	Bot-10	✓ 195	x	x											
2		48	175	✓ 175	x	x											
3		49	125	✓ 125	x	x											
4		50	100	✓ 101	x	xx											
5		51	75	✓ 75	xx	x											
6		52	50	✓ 51	x	x		x									
7		53	30	✓ 30	x	x		xx									
8		54	20	✓ 21	x	x		x		xx							
9		55	10	✓ 10	x	x		x		xx							
10		56	5	✓ 5	x	x		x	xx	xx							
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: 205 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1531	0831
Bottom	1535	
End	1551	

Positional Information

Start

Lat: 48 ° 15.26 N

Lon: 125 ° 47.71 W

Bottom

Lat: 48 ° 15.25 N

Lon: 125 ° 47.70 W

End

Lat: 48 ° 15.26 N

Lon: 125 ° 47.69 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: Core Samples								Comments
			Target Pressure	Confirmed Pressure	MG/X	MG	DC		DC	DC	SS	JS	DC	JS	JS		
				✓		OXY	SAL	Nut-F	Nut-C	CHL	HPLC	NH4	DA	Lugols	Glut	Form	
1		57	Bot-10	✓	501	x		xx	xx								
2		58	400	✓	401	x	x	x	xx								
3		59	300	✓	301	xx		x									
4		60	250	✓	250	x		x									
5		61	200	✓	201	x		x									
6		62	175	✓	175	x		x									
7		63	150	✓	150	x		x									
8		64	125	✓	125	x		x									
9		65	100	✓	100	x		x									
10		66	75	✓	75	x		x									
11		67	50	✓	51	x		x		x							
12		68	30	✓	30	x		xx		x							
13		69	20	✓	20	x		x		x		xx					
14		70	10	✓	11	xx		x		xx		xx					
15		71	5	✓	5	x		x		x	xx	xx	x	x	x	x	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Watchkeeper(s): MG

Bottom Depth: 509 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	1631	0931
Bottom	1640	
End	1705	

Positional Information

Start

Lat: 48 ° 12.91 N

Lon: 125 ° 51.83 W

Bottom

Lat: 48 ° 12.89 N

Lon: 125 ° 51.83 W

End

Lat: 48 ° 12.89 N

Lon: 125 ° 51.86 W

Extra comments:

Water Properties Group

Program
STN List: La_Perouse

Sampling Log

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

Cruise ID:

2020-009

Station:

LB13

Event #:

28

Ship:

JP Tully

UTC Date (dd mmm yyyy):

25 Aug 2020

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

Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	OXY	Nut-F	SAL	CHL	HPLC										
1		72	5	✓		x		xx	xx										
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 919 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	17:44	10:44
Bottom	18:01	11:01
End	18:19	11:19

Positional Information
Start
Lat: 48 ° 10.61 N
Lon: 125 ° 56.09 W

Bottom
Lat: 48 ° 10.59 N
Lon: 125 ° 56.13 W

End
Lat: 48 ° 10.60 N
Lon: 125 ° 56.10 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core Samples						Comments
			Target Pressure	Confirmed Pressure	AS/M	MA	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Phyto	DIC	
1	1	73	Bot-10	✓ 1170	xx	x	x									
2	2	74	1000	✓ 1000	x	x	x	xx								
3	3	75	750	✓ 750	x	x	x	x								
4	4	76	500	✓ 500	x	xx	xx	x								
5	5	77	400	✓ 400	x	x	x	x				xx				ammonia LNSW
6	6	78	300	✓ 300	xx	x										
7	7	79	250	✓ 250	x	x						xx				ammonia LNSW
8	8	80	200	✓ 200	x	x										
9	9	81	175	✓ 175	x	x										
10	10	82	150	✓ 150	x	x										
11	11	83	125	✓ 125	x	x										
12	12	84	100	✓ 100	x	xx										
13	13	85	75	✓ 75	x	x										
14	14	86	50	✓ 50	xx	x				x						
15	15	87	30	✓ 30	x	x				x						
16	16	88	20	✓ 20	x	x				x		xx				
17	17	89	10	✓ 10	x	x				xx		xx				
18	18	90	5	✓ 5	x	x			x	x	xx	xx				FL: ~ 0.35
19																
20																
21																
22																
23																
24																

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

Watchkeeper(s): MB

Bottom Depth: 1190 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1900	1200
Bottom	1922	
End	1957	

Positional Information

Lat: 48 ° 8 465 N

Lon: 125 ° 59 934 W

Lat: 48 ° 8 465 N

Lon: 125 ° 59 934 W

Lat: 48 ° 8 464 N

Lon: 125 ° 59 934 W

Extra comments:

Cruise ID: 2020-009

Station: LB15

Event #: 30

Ship: JP Tully

UTC Date (dd mmm/yyyy): 25 Aug 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples				Comments
			Target Pressure	Confirmed Pressure	OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Phyto	DIC	
1	1	91	5	✓ 5		x			x	xx					FL < 2
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): MB

Bottom Depth: 1536 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2055	1355
Bottom	2122	
End	2148	

Positional Information

Lat: 48 ° 4 320 N

Lon: 126 ° 8 480 W

▼

Lat: 48 ° 4 350 N

Lon: 126 ° 8 460 W

▼

Lat: 48 ° 4 350 N

Lon: 126 ° 8 460 W

Extra comments:

Cruise ID: 2020-009

Station: LB16

Event #: 33

Ship: JP Tully

UTC Date (dd mmm yyyy): 25 Aug 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples				Comments			
			Target Pressure	Confirmed ✓ Pressure	OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Phyto	DIC				
1	1	92	1600	✓ 1600				x										
2	2	93	1500	✓ 1500				x										
3	3	94	1000	✓ 1000				x										
4	4	95	5	✓ 5		x		x	xx	xx							FL: <2 ~ 035	
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): MR/MB

Bottom Depth: MR/1801 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2343	1643
Bottom	0016	
End	0049	

Positional Information

Start
Lat: 48 ° 00.52 N
Lon: 126 ° 16.99 W

Bottom
Lat: 48 ° 00.52 N
Lon: 126 ° 16.99 W

End
Lat: 48 ° 0.520 N
Lon: 126 ° 16.990 W

Extra comments:

Water Properties Group

Program
STN List: La_Perouse

Sampling Log

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

Cruise ID: 2020-009

Station: LC12

Event #: 35

Ship: JP Tully

UTC Date (dd/mmm/yyyy): 26 AUG 2020

Niskin #		Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments
				Target Pressure	Confirmed Pressure	OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Phyto	DIC	
1		1	96	2005	✓ 2005				xx							
2		2	97	1500	✓ 1500				x							
3		3	98	1000	✓ 1000				x							
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Version: 28May2020

Transmissometer to be cleaned before each use.

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

Bottom Depth: 2537 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0449	2149
Bottom	0524	
End	0559	

Positional Information

Start	Lat: 48 ° 14 976 N
	Lon: 126 ° 40 045 W
Bottom	Lat: 48 ° 14 992 N
	Lon: 126 ° 39 989 W
End	Lat: 48 ° 14 990 N
	Lon: 126 ° 39 990 W

Extra comments:

Water Properties Group

Program
STN List: La_Prowse

Sampling Log

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

Cruise ID:

2020-009

Station:

LC11

Event #:

39/40

Ship:

JP Tully

UTC Date (dd mmm yyyy):

26 08 20

Rosette Operation			Sampler's Initials / Samples Taken						Sample Lists: Core Samples				Comments	
Target Pressure	Confirmed	Pressure	MR/MG	DC	DC	MR	DC	DC	JS					
	✓		OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Phyto	DIC		
Bot-10	✓	1462	x	x	x						110	110		
1250	✓	1250	x	x	x	x					Nut-F	OXY		
1000	✓	1000	x	xx	xx	x					LC11	LC11		
750	✓	750	x	x	x	x					2020-009	2020-009		Bottle 12 Not Closed
500	✓	501	xx	x	x						125 m	125 m		
400	✓	400	x	x	x						bot 12	bot 12		
300	✓	300	x	x		x								COMPUTER CRASH
250	✓	250	x	x		x								NOT SURE WHERE BOT 7
200	✓	200	x	x										CLOSED 300 or 250
175	✓	175	xx	x										
150	✓	150	x	x										
125	✓	125	x	x										
100	✓	100	x	x										
75	✓	76	x	x										
50	✓	51	x	x			x							
30	✓	30	x	xx			xx							
20	✓	20	x	x			x		xx					
10	✓	11	x	x			x		xx					
5	✓	5	x	x		x	x	xx	xx					

Profile type:

(ROS) TRM X-Niskin other?

Watchkeeper(s):

MG

Bottom Depth: 1440 m

Transmisso Cleaned: (Y) N

Time UTC Local

Start	1038	0338
Bottom	1115	
End	1235	

Positional Information

Lat:	48 ° 19.01	N
Lon:	126 ° 26.68	W

Start

Bottom

Lat:	48 ° 18.94	N
Lon:	126 ° 26.73	W

End

Lat:	48 ° 18.97	N
Lon:	126 ° 26.75	W

Extra comments:

Cruise ID: 2020-009

Station: LC09

Event #: 43

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 26 | 08 | 20

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken			Sample Lists: Core_Samples								Comments
			Target Pressure	Confirmed ✓ Pressure	MG	MG	DC	JS	JS	JS	JS	JS	DC			
					OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Lugols	DIC		
1		118	Bot-10	✓	59.8	x	x	x						x		
2		119	500	✓	501	x	x	x	x					x		
3		120	400	✓	401	x	xx	xx	x					x		
4		121	300	✓	302	x	x							x		
5		122	250	✓	250	x	x							xx		
6		123	200	✓	200	xx	x							x		
7		124	175	✓	175	x	x									
8		125	150	✓	151	x	x									
9		126	125	✓	126	x	x									
10		127	100	✓	101	x	x							x		
11		128	75	✓	75	x	x									
12		129	50	✓	50	xx	x		x					x		
13		130	30	✓	31	x	x		xx					x		
14		131	20	✓	20	x	x		x		xx					
15		132	10	✓	10	x	x		x		xx			xx		
16		133	5	✓	5.4	x	x							x		
17		134	5	✓	5.2		xx		x	xx	xx	x	x			
18																
19																
20																
21																
22																
23																
24																

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): MG

Bottom Depth: 618 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1545	0845
Bottom	1556	
End	1624	

Positional Information

Start

Lat: 48 ° 25.99 N

Lon: 126 ° 13.70 W

Bottom

Lat: 48 ° 25.99 N

Lon: 126 ° 13.68 W

End

Lat: 48 ° 25.96 N

Lon: 126 ° 13.68 W

Extra comments:

Water Properties Group

Program
STN List: La Perouse

Sampling Log

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

Cruise ID: 2020-009

Station: LC08

Event #: 47

Ship: JP Tully

UTC Date (dd mmm/yyyy): 26 AUG 2020

Niskin #		Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken								Sample Lists: Core Samples								Comments
				Target Pressure	Confirmed Pressure	MP/HR	HR			MA	MR	KS		DA	Lugols	MP/HR						
					✓		OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4				DIC					
1	1	135	Bot-10	✓	187	x	x										x					
2	2	136	175	✓	175	x	x															
3	3	137	150	✓	150	x	x															
4	4	138	125	✓	125	x	xx															
5	5	139	100	✓	100	x	x															
6	6	140	75	✓	75	x	x										x					
7	7	141	50	✓	50	x	x				x											
8	8	142	30	✓	30	xx	x				x						xx					
9	9	143	20	✓	20	x	x				x		xx				xx					
10	10	144	10	✓	10	x	x				xx		xx				x					
11	11	145	5	✓	5	x	x				x	xx	xx				x					
12																	x					
13																						
14																						
15																						
16																						
17																						
18																						
19																						
20																						
21																						
22																						
23																						
24																						

Version: 28May2020

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

Start

Bottom

End

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

Bottom Depth: 197 m
Transmisso Cleaned: Y/N

Time	UTC	Local
Start	1910	1210
Bottom	1914	
End	1927	

Positional Information
Start
Lat: 48 ° 29 52 N
Lon: 126 ° 06 99 W

Bottom
Lat: 48 ° 29 53 N
Lon: 126 ° 06 99 W

End
Lat: 48 ° 29 52 N
Lon: 126 ° 06 99 W

Extra comments:

Water Properties Group

Program
STN List: La_Perouse

Sampling Log

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

Cruise ID: 2020-009

Station: LC06

Event #: 50

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 26 | Apr | 2020

Event #:		50		Ship:		JP Tully		UTC Date (dd/mm)											
Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: Core_Samples								Comments		
			Target Pressure	Confirmed Pressure	MR	MR			MB	MB	MB								
				✓		OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Lugols	DIC				
1	1	146	Bot-10	✓	82	xx	x												
2	2	147	75	✓	75	x	x												
3	3	148	50	✓	50	x	x			xx									
4	4	149	30	✓	30	x	xx			x									
5	5	150	20	✓	20	x	x			x		xx							
6	6	151	10	✓	10	x	x			x		xx							
7	7	152	5	✓	5	x	x			x	xx	xx							FL: ~ 3
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Version: 28May2020

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

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

Bottom Depth: 94 m
Transmisso Cleaned: (Y) N

Time	UTC	Local
Start	2159	1459
Bottom	2201	
End	2207	

Positional Information
Start
Lat: 48 ° 36 440 N
Lon: 125 ° 53 950 W

Bottom
Lat: 48 ° 36 440 N
Lon: 125 ° 53 950 W

End
Lat: 48 ° 36 440 N
Lon: 125 ° 53 950 W

Extra comments:

Water Properties Group

Program
STN List:

La_Perouse

Sampling Log

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

Cruise ID:

2020-009

Station:

LC04

Event #:

54

Ship:

JP Tully

UTC Date (dd|mmm|yyyy):

26²⁷ AUG 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	Nut-C	SAL	CHL	HPLC	NH4	DA	Lugols	DIC					
1	1	153	Bot-10	✓ 156	x	x													
2	2	154	150	✓ 150	x	xx													
3	3	155	125	✓ 125	x	x													
4	4	156	100	✓ 100	x	x													
5	5	157	75	✓ 75	x	x													
6	6	158	50	✓ 50	x	x			x										
7	7	159	30	✓ 30	x	x			x										
8	8	160	20	✓ 20	x	x			x		xx								
9	9	161	10	✓ 10	x	x			xx		xx								
10	10	162	5	✓ 5	xx	x			x	xx	xx								
11																			FI: 15
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: 168 m
Transmisso Cleaned: Y/N

Time	UTC	Local
Start	0034	1734
Bottom	0037	
End	0048	

Positional Information

Start	Lat: 48 ° 43 420 N
	Lon: 125 ° 40 890 W

Bottom

	Lat: 48 ° 43 410 N
	Lon: 125 ° 40 860 W

End

	Lat: 48 ° 43 430 N
	Lon: 125 ° 40 790 W

Extra comments:

Water Properties Group

Program
STN List: La_Perouse

Sampling Log

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

Cruise ID: 2020-009

Station: LC02

Event #: 56

Ship: JP Tully

UTC Date (dd mmm yyyy): 27 AUG 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core Samples					Comments
			Target Pressure	Confirmed Pressure	OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Lugols	DIC	
1	1	163	Bot-10	✓ 102	x	x									
2	2	164	75	✓ 75	x	xx								x	
3	3	165	50	✓ 51	x	x			xx					xx	
4	4	166	30	✓ 30	x	x			x					x	
5	5	167	20	✓ 20	xx	x			x		xx			x	
6	6	168	10	✓ 10	x	x			x		xx			x	
7	7	169	5	✓ 5	x	x			x		xx			x	
8	8	170	5	✓ 5		x			x	xx	xx	x	x	xx	
9															FL: 8
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: 117 m
 Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0209	1909
Bottom	0211	
End	0218	

Positional Information
 Start
 Lat: 48 ° 48 610 N
 Lon: 125 ° 31 000 W

Bottom
 Lat: 48 ° 48 610 N
 Lon: 125 ° 31 000 W

End
 Lat: 48 ° 48 610 N
 Lon: 125 ° 30 990 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples				Comments
			Target Pressure	Confirmed Pressure	15m	15								
				✓	OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4			
1	1	171	Bot-10	✓ 88	x	x								
2	2	172	75	✓ 75	x	x								
3	3	173	50	✓ 50	x	x			x					
4	4	174	30	✓ 30	x	xx			x					
5	5	175	20	✓ 20	x	x			x		xx			
6	6	176	10	✓ 10	xx	x			x		xx			
7		177	5	✓ 5	x	x		x	xx	xx	xx			FL: 1.5
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: 98 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0246	1946
Bottom	0248	
End	0255	

Positional Information

Start Lat: 48 ° 50 390 N
Lon: 125 ° 27 780 W

Bottom Lat: 48 ° 50 370 N
Lon: 125 ° 27 810 W

End Lat: 48 ° 50 400 N
Lon: 125 ° 27 800 W

Extra comments:

Water Properties Group

Program
STN List: La_Pouse

Sampling Log

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

Cruise ID: 2020-009

Station: LD01

Event #: 59

Ship: JP Tully

UTC Date (dd mmm/yyyy): 27 Aug 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments
			Target Pressure	Confirmed ✓ Pressure	KSM	OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4					
1	1	178	Bot-10	✓	25.6	x	x			x							
2	2	179	20	✓	20.0	x	xx			x		xx					
3	3	180	10	✓	9.5	xx	x			x		xx					DID NOT FIRE
4	4	181	5	✓	5.2	x	x			xx	xx	xx					
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17		179A															
18		Nut-F															
19		LD01															
20		2020-009															
21		20 m															
22		bot 2															
23																	
24																	

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

Bottom Depth: 35 m
 Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	04:59	21:59
Bottom	04:59	21:59
End	05:04	22:04

Positional Information

Start	Lat: 49° 0.110 N
	Lon: 125° 43.770 W

Bottom

	Lat: 49° 0.110 N
	Lon: 125° 43.770 W

End

	Lat: 49° 0.110 N
	Lon: 125° 43.790 W

Extra comments:

Water Properties Group

Program
STN List: La_Prowse

Sampling Log

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

Cruise ID:

2020-009

Station:

LD02

Event #:

61

Ship:

JP Tully

UTC Date (dd mmm yyyy): 27 Aug 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments	
			Target Pressure	Confirmed Pressure	OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Lugols	DIC		
1	1	182	Bot-10	✓ 33	x	xx			x							
2	2	183	30	✓ 30	x	x			x							
3	3	184	20	✓ 20	x	x			xx		xx					100% NOT FINE
4	4	185	10	✓ 10	xx	x			x		xx					
5		186	5	✓ 5	x	x			x	xx	xx	x	x			FL= 6
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): MS

Bottom Depth: 43 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0557	2257
Bottom	0559	
End	0604	

Positional Information

Lat:	48 ° 58 433	N
Lon:	125 ° 47 017	W

Bottom

Lat:	48 ° 58 428	N
Lon:	125 ° 47 023	W

End

Lat:	48 ° 58 424	N
Lon:	125 ° 47 048	W

Extra comments:

Water Properties Group

Program
STN List:

La_Perouse

Sampling Log

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

Cruise ID:

2020-009

Station:

LD04

Event #:

65

Ship:

JP Tully

UTC Date (dd|mmm|yyyy): 27|08|20

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: Core_Samples										Comments
			Target Pressure	Confirmed Pressure	MG/BC	DC	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Lugols	DIC				
1	1	187	Bot-10	✓	52.5	x	x			x									
2	2	188	30	✓	30	xx	x			xx									
3	4	189	20	✓	21	x	x			x									FIRE 6 IN CASE 2 DOES NOT CLOSE
4	5	190	10	✓	10	x	xx			x									
5	6	191	5	✓	5	x	x			x									
6	3	188	30	✓	30					x	xx	xx							
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): MG

Bottom Depth: 62 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0758	0058
Bottom	0800	
End	0809	

Positional Information

Start	Lat: 48 ° 53.30 N	Lon: 125 ° 57.14 W
Bottom	Lat: 48 ° 53.30 N	Lon: 125 ° 57.16 W
End	Lat: 48 ° 53.29 N	Lon: 125 ° 57.25 W

Extra comments:
OUT-OF-ORDER

Water Properties Group

Program
STN List: La Perouse

Sampling Log

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

Cruise ID: 2020-009

Station: LD06

Event #: 67

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 27 | 08 | 20

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken				Sample Lists: Core Samples								Comments
			Target Pressure	Confirmed	Pressure	MG/KC	DC			MG/JS	JS	JS						
				✓		OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Lugols	DIC			
1	1	192	Bot-10	✓	127	x	x											
2	2	193	100	✓	101	x	x											FIRE 9 FOR BOT 2
3	4	194	75	✓	75	xx	x											BOT 2 DID NOT FIRE
4	5	195	50	✓	51	x	x			xx								
5	6	196	30	✓	30	x	x			x								
6	7	197	20	✓	20	x	xx			x		xx						
7	8	198	10	✓	10	x	x			x		xx						
8	9	199	5	✓	5	x	x			x	xx	xx						
9	3	193	100	✓	100													
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: 137 m
Transmisso Cleaned: (Y) / N

	Time	UTC	Local
Start		0955	0255
Bottom		0959	
End		1010	

Start	Positional Information		
	Lat: 48 ° 46.21	N	
	Lon: 126 ° 10.31	W	
Bottom	Lat: 48 ° 46.21	N	
	Lon: 126 ° 10.34	W	
End	Lat: 48 ° 46.24	N	
	Lon: 126 ° 10.37	W	

Extra comments:
OUT-OF-ORDER

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: Core Samples						Comments
			Target Pressure	Confirmed Pressure	OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Lugols	DIC	
1		200	Bot-10	✓ 760.6	x	x	x								
2		201	750	✓ 750.4	x	x	x	x							
3		202	500	✓ 500.7	x	x	x	xx							also triggered Bot 18
4		203	400	✓ 399.9	xx	xx	xx								Bot 2 did not fire
5		204	300	✓ 300.5	x	x									∴ Bot 18 = Bot 2
6		205	250	✓ 250.1	x	x									
7		206	200	✓ 200.8	x	x									
8		207	175	✓ 175.5	x	x									
9		208	150	✓ 150.5	x	x									
10		209	125	✓ 125.3	x	x									
11		210	100	✓ 100.2	xx	x									
12		211	75	✓ 75.3	x	x									
13		212	50	✓ 50.2	x	x			x						
14		213	30	✓ 30.4	x	x			x						
15		214	20	✓ 19.9	x	xx			x		xx				
16		215	10	✓ 10.1	x	x			xx		xx				
17		216	5	✓ 5.1	x	x			x	xx	xx	x	x		
18		201	750	750.4	x	x	x	x							Did not fire ??
19															
20															
21		201		201											
22		SAL		OXY											
23		LD08		LD08											
24		2020-009		2020-009											

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): SS

Bottom Depth: 774 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 12:00 05:00

Bottom 12:14 05:14

End 12:44 05:44

Positional Information

Start Lat: 48 ° 39.26 N Lon: 126 ° 23.48 W

Bottom Lat: 48 ° 39.27 N Lon: 126 ° 23.49 W

End Lat: 48 ° 39.21 N Lon: 126 ° 23.44 W

Extra comments:

Bot 2 did not fire
18 replaced it.
★ 18 didn't fire either★

Cruise ID: 2020-009

Station: LD11

Event #: 77

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 27 | Apr | 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core Samples				Comments	
			Target	Confirmed	KSLm	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Phyto		DIC
			Pressure	✓ Pressure											
1	1	217	Bot-10	✓ 1594	x	x	x								
2	2	218	1500**	✓ 1500	x	xx	xx	xx		218A	218B	218A	218B		
3	3	219	1250	✓ 1250	xx	x	x	x		SAL	SAL	Nut-F	Nut-F		FLR 2x
4	4	220	1000	✓ 1000	x	x	x	x		LD11	LD11	LD11	LD11		
5	5	221	750	✓ 750	x	x	x	x		2020-009	2020-009	2020-009	2020-009		
6	6	222	500	✓ 500	x	x	x	x		1500 m	1500 m	1500 m	1500 m		
7	7	223	400	✓ 400	x	x	x			bot 23	bot 23	bot 23	bot 23		
8	8	224	300	✓ 300	x	x				218A	218B				
9	9	225	250	✓ 250	xx	x				Nut-C	Nut-C				
10	10	226	200	✓ 200	x	x				LD11	LD11				
11	11	227	175	✓ 175	x	x				2020-009	2020-009				
12	12	228	150	✓ 150	x	x				1500 m	1500 m				
13	13	229	125	✓ 125	x	x				bot 23	bot 23				
14	14	230	100	✓ 100	x	x									
15	15	231	75	✓ 75	x	x									
16	16	232	50	✓ 50	x	x			xx						
17	17	233	30	✓ 30	xx	x			x						
18	18	234	20**	✓ 20	x	xx			x		xx				FLR 2x
19	20	235	10	✓ 10	x	x			x		xx				
20	21	236	5	✓ 5	x	x		x	x	xx	xx				FL = 25
21															
22															
23		218	1500		x	xx	xx	xx							
24	19	234	20	✓ 20	x	xx			x		xx				MISSED!

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

Watchkeeper(s): MR

Bottom Depth: 1600 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1925	1225
Bottom	1953	
End	2036	

Positional Information

Lat: 48 ° 28 740 N

Lon: 126 ° 42 940 W

Lat: 48 ° 28 738 N

Lon: 126 ° 42 941 W

Lat: 48 ° 28 738 N

Lon: 126 ° 42 941 W

Extra comments:

Cruise ID: 2020-009

Station: LG09

Event #: 78

Ship: JP Tully

UTC Date (dd mmm yyyy): 28 Apr 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core Samples					Comments
			Target Pressure	Confirmed Pressure	OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Phyto		
1	1	237	2000	✓ 2000				xx							
2															
3	2	238	1500	✓ 1500				x							
4	3	239	1250	✓ 1250				x							
5	4	240	1000	✓ 1000				x							
6	5	241	5	✓ 5		x		x	xx	xx					FL: <2
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: 2071 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0112	1812
Bottom	0147	1847
End	0225	1925

Positional Information

Start

Lat: 48 ° 51 210 N

Lon: 127 ° 19 420 W

Bottom

Lat: 48 ° 51 180 N

Lon: 127 ° 19 380 W

End

Lat: 48 ° 51 200 N

Lon: 127 ° 19 380 W

Extra comments:

Water Properties Group

Program
STN List: La_Perouse

Sampling Log

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

Cruise ID: 2020-009

Station: LG06

Event #: 85

Ship: JP Tully

UTC Date (dd mmm/yyyy): 28 08 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core Samples							Comments
			Target Pressure	Confirmed Pressure	MC	DC	DC	JS									
				✓		OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Lugols	Glut	Form	
1		242	Bot-10	✓	969	x	x	x									
2				✓	751												
3		243	750	✓	751	x	x	x	x								Bot 2 FIRED
4		244	500	✓	500	xx	xx	xx	x								
5		245	400	✓	400	x	x	x	x								
6		246	300	✓	300	x	x										
7		247	250	✓	250	x	x										
8		248	200	✓	200	x	x										
9		249	175	✓	175	x	x										
10		250	150	✓	150	x	x										
11				✓	125												
12		251	125	✓	125	x	x										Bot 11 FIRED
13		252	100	✓	101	x	x										
14		253	75	✓	75	x	x										
15		254	50	✓	50	x	xx			x							
16		255	30	✓	31	x	x			x							
17		256	20	✓	20	xx	x			x		xx					
18		257	10	✓	10	x	x			xx		xx					
19		258	5	✓	5	x	x		x	x	xx	xx	x	x	x	x	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 963 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	9:19	2:19
Bottom	9:39	2:39
End	10:11	3:11

Positional Information

Start	Lat: 49 °03.5 50 N
	Lon: 127 °02.20 W
Bottom	Lat: 49 °03.590 N
	Lon: 127 °02.260 W
End	Lat: 49 °03.580 N
	Lon: 127 °01.230 W

Extra comments:
dolphins
blue shark
jellies

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments			
			Target Pressure	Confirmed ✓ Pressure	MG/DC	MG/DC		MIX	JS	JS								
					OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Phyto					
1		259	Bot-10	✓ 135	x	x												
2				✓ 125														Bot 2 FIRED
3		260	125	✓ 125	x	x												
4		261	100	✓ 100	x	x												
5		262	75	✓ 76	xx	x												
6		263	50	✓ 50	x	x			xx									
7		264	30	✓ 30	x	xx			x									
8		265	20	✓ 20	x	x			x		xx							
9		266	10	✓ 10	x	x			x		xx							
10		267	5	✓ 5	x	x			x	xx	xx							
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: 146 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1217	0517
Bottom	1220	
End	1233	

Positional Information

Start

Lat: 49 ° 11.21 N

Lon: 126 ° 49.46 W

Bottom

Lat: 49 ° 11.20 N

Lon: 126 ° 49.47 W

End

Lat: 49 ° 11.24 N

Lon: 126 ° 49.50 W

Extra comments:

FORGOT RECORD BACK TO SURFACE + START AGAIN

Cruise ID: 2020-009

Station: LG02

Event #: 9L

Ship: JP Tully

UTC Date (dd mmm/yyyy): 28 08 20

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core Samples								Comments
			Target Pressure	Confirmed ✓ Pressure	MR														
					OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Lugols	Glut	Form	Seston			
1		268	Bot-10	✓	91	x	x										x		
2				✓	76														BOT 2 FIRED
3		269	75	✓	76	xx	x												
4		270	50	✓	51	x	x			x							x		
5		271	30	✓	30	x	x			xx									
6		272	20	✓	21	x	x			x		xx					x		
7		273	10	✓	10	x	x			x		xx					x		
8		274	5	✓	5	x	xx					xx					x		
9		275	5	✓	5					x	xx		x	x	x	x			
10		276	0	✓	1.6												x		
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Version: 28May2020

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

Watchkeeper(s): MG

Bottom Depth: 100 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1448	
Bottom	1451	
End	1500	

Positional Information

Start

Lat: 49 ° 18.71 N

Lon: 126 ° 38.10 W

Bottom

Lat: 49 ° 18.73 N

Lon: 126 ° 38.10 W

End

Lat: 49 ° 18.80 N

Lon: 126 ° 38.11 W

Extra comments:

SESTONS

Water Properties Group

Program
STN List: La_Perouse

Sampling Log

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

Cruise ID: 2020-009

Station: LG01

Event #: 93

Ship: JP Tully

UTC Date (dd mmm yyyy): 28 08 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken										Sample Lists: Core_Samples				Comments
			Target Pressure	Confirmed ✓ Pressure		OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Phyto					
1		277	Bot-10	✓	41.9	x	x			x									
2				✓	41														
3		278	30	✓	30	xx	x			x									
4		279	20	✓	21	x	x			x		xx							
5		280	10	✓	10	x	xx			x		xx							
6		281	5	✓	5	x	x			xx	xx	xx							
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): DL

Bottom Depth: 54 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1555	855
Bottom	558	858
End	1602	902

Positional Information
 Start
 Lat: 49 ° 20 52 N
 Lon: 126 ° 35 05 W

Bottom
 Lat: 49 ° 20 52 N
 Lon: 126 ° 35 05 W

End
 Lat: 49 ° 20 51 N
 Lon: 126 ° 35 05 W

Extra comments:
~~Niskin sampled as planned, all other Niskins cleaned to test~~

Water Properties Group

Program
STN List:

La_Prowse

Sampling Log

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

Cruise ID:

2020-009

Station:

LJ02

Event #:

96

Ship:

JP Tully

UTC Date (dd/mmm/yyyy): 28 Nov 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists:		All Samples		Comments
			Target Pressure	Confirmed Pressure	Nut-F	CHL	HPLC	NH4	SAL					
1	1	282	20	✓ 20	x	x		xx						
2														
3	2	283	10	✓ 10	x	x		xx						
4	3	284	5	✓ 5	x	xx	xx	xx	x					
L		5096	LOOP			xx			x					FI ~ 5.5
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: 83 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	20 09	1309
Bottom	20 10	
End	20 14	

Positional Information

Start	Lat: 49 ° 42 600 N	Lon: 127 ° 5 360 W
Bottom	Lat: 49 ° 42 610 N	Lon: 127 ° 5 370 W
End	Lat: 49 ° 42 630 N	Lon: 127 ° 5 380 W

Extra comments:

Cruise ID: 2020-009

Station: LJ04

Event #: 99/00

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 28 | AUG | 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: Core Samples								Comments
			Target Pressure	Confirmed Pressure	Nut-F	CHL	HPLC	NH4									
1	1	284	20	✓ 20	x	x		xx									
2																	
3	2	285	10	✓ 10 ☺	x	xx		xx									
4	3	286	5	✓ 5	x	x	xx	xx									FL: 42 (0.9)
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: 158 m

Transmisso Cleaned: YY N

Time	UTC	Local
Start	22 19	19 19
Bottom	22 21	
End	22 27	

Positional Information

Lat: 49 ° 35 604 N

Lon: 127 ° 16 865 W

Lat: 49 ° 35 620 N

Lon: 127 ° 16 865 W

Lat: 49 ° 35 628 N

Lon: 127 ° 16 878 W

Extra comments:

Water Properties Group

Program
STN List: La_Pouse

Sampling Log

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

Cruise ID:

2020-009

Station:

LJ06

Event #:

-105 103

Ship:

JP Tully

UTC Date (dd mmm yyyy):

29 Aug 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists:		All Samples				Comments
			Target Pressure	Confirmed Pressure	Nut-F	CHL	HPLC	NH4	SAL							
1	1	287	20	✓ 20.2	x	xx		xx								
2																
3	3	288	10	✓ 10.2	x	x		xx								
4	4	289	5	✓ 5.2	x	x	xx	xx	x							
L		50103	LOOP			xx			x							
6		5103														
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

Bottom Depth: 1033 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0057	1757
Bottom	0114	1814
End	0133	1833

Positional Information

Lat:	49 ° 27.890	N
Lon:	127 ° 28.510	W

▼

Lat:	49 ° 27.900	N
Lon:	127 ° 28.580	W

▼

Lat:	49 ° 27.930	N
Lon:	127 ° 28.670	W

Extra comments:

Water Properties Group

Program
STN List:

La_Peouse

Sampling Log

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

Cruise ID:

2020-009

Station:

LJ09

Event #:

107

Ship:

JP Tully

UTC Date (dd mmm/yyyy): 29 Aug 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: All Samples					Comments
			Target Pressure	Confirmed Pressure	Nut-F	CHL	HPLC	NH4	SAL						
1		290	2005	✓ 2006					x						
2															
3		291	1500	✓ 1500					x						
4		292	1250	✓ 1251					x						
15		9292	1000	✓ 1000					x						
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): KS

Bottom Depth: 2485 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0621	2321
Bottom	0655	
End	0732	

Positional Information

Start	Lat:	49 ° 16.070	N
	Lon:	127 ° 47.330	W
Bottom	Lat:	49 ° 16.060	N
	Lon:	127 ° 47.320	W
End	Lat:	49 ° 16.060	N
	Lon:	127 ° 47.320	W

Extra comments:

Water Properties Group

Program
STN List: La_Prowse

Sampling Log

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

Cruise ID:

2020-009

Station:

LBP7

Event #:

115

Ship: JP Tully

UTC Date (dd/mm/yyyy): 29/08/20

Niskin #		Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core Samples								Comments					
				Target Pressure	Confirmed Pressure	MG/DC	DC	DC	MG	JS	OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Lugol	Form	Glut			
1			293	2000	✓ 2001	x	xx	xx	xx															
2					✓ 1500																			
3			294	1500	✓ 1500	x	x	x	x															Bot 2 FIRED ✓
4			295	1250	✓ 1250	x	x	x	x															
5			296	1000	✓ 1001	x	x	x	x															
6			297	750	✓ 749	xx	x	x																
7			298	500	✓ 500	x	x	x																
8			299	400	✓ 402	x	x	x																
9			300	300	✓ 300	x	xx																	
10			301	250	✓ 250	x	x																	
11					✓ 200																			
12			302	200	✓ 201	x	x																	Bot 11 FIRED ✓
13			303	175	✓ 176	x	x																	
14			304	150	✓ 150	x	x																	
15			305	125	✓ 126	x	x																	
16			306	100	✓ 101	x	x																	
17			307	75	✓ 76	xx	x																	
18			308	50	✓ 50	x	x			xx														
19			309	30	✓ 30	x	x			x														
20			310	20	✓ 20	x	x			x							xx							
21			311	10	✓ 10	x	x			x							xx							
22			312	5	✓ 5	x	x			x							xx							
23										x	xx	xx	x	x	x	x	x	x	x	x	x	x	x	
24																								

Version: 28May2020

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

Profile type:
ROS TRM X-Niskin other?
Watchkeeper(s): MGBottom Depth: 2198 m
Transmisso Cleaned: Y/N

Time	UTC	Local
Start	1636	0936
Bottom	1709	
End	1801	

Positional Information
Start
Lat: 49 ° 52.51 N
Lon: 128 ° 11.37 WBottom
Lat: 49 ° 52.51 N
Lon: 128 ° 11.48 WEnd
Lat: 49 ° 52.57 N
Lon: 128 ° 11.57 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples						Comments
			Target Pressure	Confirmed ✓ Pressure	KS/MR OXY	MR Nut-F	MR Nut-C	MR/KS SAL	MR CHL	MR HPLC	MR NH4	Phyto					
1	1	313	Bot-10	✓ 1286	x	x	x										
2																	
3	2	314	1250	✓ 1250	x	x	x	xx									
4	3	315	1000	✓ 1000	xx	x	x	x									
5	4	316	750	✓ 750	x	x	x	x									
6	5	317	500	✓ 500	x	xx	xx	x									
7	6	318	400	✓ 400	x	x	x										
8	7	319	300	✓ 300	x	x											
9	8	320	250	✓ 250	x	x											
10	9	321	200	✓ 200	x	x											
11																	
12	10	322	175	✓ 175	x	x											
13	11	323	150	✓ 150	x	x											
14	12	324	125	✓ 125	x	x											
15	13	325	100	✓ 100	xx	x											
16	14	326	75	✓ 75	x	x											
17	15	327	50	✓ 50	x	x			x								
18	16	328	30	✓ 30	x	x			x								
19	17	329	20	✓ 20	x	x			x		xx						
20	18	330	10	✓ 10	x	x			x		xx						
21	19	331	5	✓ 5	x	xx			xx	xx	xx						
22																	
23																	
24																	

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

Watchkeeper(s): MB

Bottom Depth: 1296 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2011	1311
Bottom	2033	1333
End	2111	

Positional Information

Start

Lat: 50 ° 0 080 N

Lon: 128 ° 0 050 W

Bottom

Lat: 50 ° 0 125 N

Lon: 128 ° 0 112 W

End

Lat: 50 ° 0 194 N

Lon: 128 ° 0 188 W

Extra comments:

Water Properties Group

Program
STN List: La_Peouse

Sampling Log

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

Cruise ID: 2020-009

Station: LBP3

Event #: 120

Ship: JP Tully

UTC Date (dd mmm/yyyy): 29 AUG 2020

Niskin #		Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken										Sample Lists: Core Samples				Comments
				Target Pressure	Confirmed Pressure	KS	MB		MS	HPLC	NH4	DA	Lugol	Glut	Form					
1		1	332	Bot-10	✓ 157	x	x													
2																				
3		3	333	150	✓ 150	x	x													
4		4	334	125	✓ 125	x	x													
5		5	335	100	✓ 100	x	x													
6		6	336	75	✓ 75	x	x													
7		7	337	50	✓ 50	x	x		x											
8		8	338	30	✓ 30	x	xx		x											
9		9	339	20	✓ 20	x	x		x		xx									
10		10	340	10	✓ 10	xx	x		xx		xx									
11																				
12		11	341	5	✓ 5	x	x		x	xx	xx	x	x	x	x			FL: 2.3		
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Version: 28May2020

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

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

Bottom Depth: 167 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2301	16
Bottom	2305	
End	2316	

Positional Information

Start
Lat: 50 ° 3 196 N
Lon: 127 ° 55 144 WBottom
Lat: 50 ° 3 200 N
Lon: 127 ° 55 230 WEnd
Lat: 50 ° 3 190 N
Lon: 127 ° 55 260 W

Extra comments:

Cruise ID: 2020-009

Station: LBP2

Event #: 122

Ship: JP Tully

UTC Date (dd mmm yyyy): 29 AUG 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	NH4	DA	Lugol	Glut	Form				
1	1	342	Bot-10	88			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): MB

Bottom Depth: 98 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2357	1657
Bottom	2359	
End	0002	

Positional Information

Start
Lat: 50 ° 4 010 N
Lon: 127 ° 54 160 W

Bottom
Lat: 50 ° 4 010 N
Lon: 127 ° 54 154 W

End
Lat: 50 ° 3 997 N
Lon: 127 ° 54 144 W

Extra comments:

Cruise ID: 2020-009

Station: CS00

Event #: 133

Ship: JP Tully

UTC Date (dd/mmm/yyyy): 30 Aug 2020

Cruise ID: 2020-009			Station: 362		Sample Lists: Core Samples										Comments	
Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core Samples					Comments	
			Target Pressure	Confirmed Pressure	XS/MS	MA	MS/LS	MA	MA	MA	MA	Lugols	Glut	Form		
				✓	OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA				
1	1	343	2000	✓ 2000	xx	x	x	xx								
2																
3	2	344	1500	✓ 1500	x	x	x	x								
4	3	345	1250	✓ 1250	x	x	x	xx								
5	4	346	1000	✓ 1000	x	x	x	x								
6	5	347	750	✓ 750	x	xx	xx	x								
7	6	348	500	✓ 500	x	x	x	x								
8	7	349	400	✓ 400	x	x	x	x								
9	8	350	300	✓ 300	x	x		x								
10		351	250	✓ 250	xx	xx		x								
11																
12	9	352	200	✓ 200	x	x		x								
13	10	353	175	✓ 175	x	x		x								
14	11	354	150	✓ 150	x	x		x								
15	12	355	125	✓ 125	x	x		x								
16	13	356	100	✓ 100	x	x		x								
17	14	357	75	✓ 75	x	x		x								
18	15	358	50	✓ 50	x	x		x	xx							
19	16	359	30	✓ 30	x	x		x	x							
20	17	360	20	✓ 20	xx	x		x	x		xx					
21	18	361	10	✓ 10	x	x		x	x		xx					
22	19	362	5	✓ 5	x	x		x	x	xx	xx	x	x	x	FL = < 2 ~0.5	
23																
24																

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

Watchkeeper(s): MB

Bottom Depth: 2192 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1928	1218
Bottom	2004	
End	2053	

Positional Information

Start

Lat: 50 ° 27 600 N

Lon: 129 ° 55 049 W

Bottom

Lat: 50 ° 27 660 N

Lon: 129 ° 55 050 W

End

Lat: 50 ° 27 650 N

Lon: 129 ° 55 040 W

Extra comments:

Water Properties Group

Program
STN List:

La_Perouse

Sampling Log

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

Cruise ID:

2020-009

Station:

CS02

Event #:

137 / 138

Ship:

JP Tully

UTC Date (dd mmm yyyy): 31 Aug 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples					Comments
			Target Pressure	Confirmed Pressure	OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	Form	Glut	Lugol	
1	1	363	Bot-10	✓ 1908.3	x	x	x								Added a DA to coincide w biological samples.
2															
3	3	364	1500	✓ 1500.6	x	xx	xx	x							
4	4	365	1250	✓ 1250.2	x	x	x	x							
5	5	366	1000	✓ 1000.5	x	x	x	x							
6	6	367	750	✓ 750	x	x	x	x							
7	7	368	500	✓ 499.8	x	x	x								Start event 138 due to computer freeze up.
8	8	369	400	✓ 399.4	xx	x	x								
9	9	370	300	✓ 299.7	x	x									
10	10	371	250	✓ 250.3	x	x									
11															
12	12	372	200	✓ 199.2	x	x									
13	13	373	175	✓ 175.6	x	x									
14	14	374	150	✓ 149.9	xx	x									
15	15	375	125	✓ 125.2	x	x									
16	16	376	100	✓ 100.5	x	x									
17	17	377	75	✓ 75.8	x	x									
18	18	378	50	✓ 50.1	x	x			x						
19	19	379	30	✓ 30.3	x	x			x						
20	20	380	20	✓ 19.6	x	x			x		xx				
21	21	381	10	✓ 9.9	x	x			x		xx				
22	22	382	5	✓ 4.9	x	xx			xx	xx	xx	xx	xx	xx	ADDED SENCE MEDDED ON CS00 (OUT OF WATER)
23	23	383	5	✓ 5.2					xx	xx	xx	x	x	x	
24															

Profile type:

☒ ROS ☐ TRM ☐ X-Niskin ☐ other?

Watchkeeper(s): KS

Bottom Depth: 1914 m

Transmisso Cleaned: ☒ Y / ☐ N

Time UTC Local

Start 0125 1825

Bottom 0200 1900

End 0259 1959

Positional Information

Start Lat: 50 ° 41.396 N

Lon: 129 ° 28.084 W

Bottom Lat: 50 ° 41.402 N

Lon: 129 ° 28.102 W

End Lat: 50 ° 41.420 N

Lon: 29 ° 28.180 W

Extra comments:

Added another 5m Niskin. Moved biological sam s to it as to avoid running out of water again.

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: Core_Samples								Comments
			Target Pressure	Confirmed ✓ Pressure	MG	DC			MG/JS	JS	JS						
					OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Phyto				
1		383	Bot-10	✓	90	x	x										
2																	
32		384	75	✓	77	xx	x										
33		385	50	✓	52	x	x		x								
34		386	30	✓	31	x	x		x								
35		387	20	✓	20	x	x		xx		xx						
36		388	10	✓	10	x	xx		x		xx						
37		389	5	✓	5	x	x		x	xx	xx						
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
ROS TRM X-Niskin other?

Watchkeeper(s): MG

Bottom Depth: 98 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0815	0115
Bottom	0818	
End	0827	

Positional Information

Start

Lat: 50 ° 49.18 N

Lon: 129 ° 13.09 W

Bottom

Lat: 50 ° 49.20 N

Lon: 129 ° 13.12 W

End

Lat: 50 ° 49.19 N

Lon: 129 ° 13.08 W

Extra comments:

Water Properties Group

Program
STN List:

La_Perouse

Sampling Log

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

Cruise ID:

2020-009

Station:

CS06

Event #:

156

Ship:

JP Tully

UTC Date (dd|mmm|yyyy): 31 | AUG | 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken				Sample Lists: Core_Samples								Comments
			Target Pressure	Confirmed Pressure	KS/KS	MB	F		KS/MB	MB	MB	MB	MB	MB	MB		
1	1	390	Bot-10	✓ 55	x	xx											
2																	
3	2	391	50	✓ 50	x	x			x								
4	3	392	30	✓ 30	x	x			x								
5	4	393	20	✓ 20	x	x			x		xx						
6	5	394	10	✓ 10	xx	x			xx		xx						
7	6	395	5	✓ 5	x	x			x	xx	xx	x	x	x	x		
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: 605 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	23 29	16 29
Bottom	23 30	16 30
End	23 37	16 37

Positional Information

Lat:	50 ° 59 960 N
Lon:	128 ° 51 980 W

Bottom

Lat:	50 ° 59 960 N
Lon:	128 ° 52 010 W

End

Lat:	50 ° 59 960 N
Lon:	128 ° 52 100 W

Extra comments:

Water Properties Group

Program
STN List: La_Perouse

Sampling Log

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

Cruise ID: 2020-009

Station: CS09

Event #: 161

Ship: JP Tully

UTC Date (dd mmm yyyy): 01 Sept 2020

Ship: <u>JP Tully</u>		UTC Date (dd mm)																	
Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples							Comments		
			Target Pressure	Confirmed Pressure	KS (MB)	KS	MA (MD)	MA	MA										
				✓		OXY	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Phyto					
1	1	396	Bot-10	✓	185.3	x	x												
2																			
3	3	397	175	✓	175.0	x	x												
4	4	398	150	✓	150.0	xx	x												
5	5	399	125	✓	125.0	x	x												
6	6	400	100	✓	100.8	x	x												
7	7	401	75	✓	74.8	x	x												
8	8	402	50	✓	50.4	x	x			x									
9	9	403	30	✓	28.9	x	xx			x									
10	10	404	20	✓	19.7	x	x			x		xx							
11	11																		
12	12	405	10	✓	10.1	x	x			x		xx							Fired 11 by mistake
13	13	406	5	✓	5.0	x	x			xx	xx	xx							sent back down to 10 m to fire bot 12
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Version: 28May2020

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

Start
Bottom
End

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

Bottom Depth: 195 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0315	2015
Bottom	0319	2019
End	0334	2034

Positional Information
Start
Lat: 51 ° 12.480 N
Lon: 128 ° 28.210 W

Bottom
Lat: 51 ° 12.500 N
Lon: 128 ° 28.210 W

End
Lat: 51 ° 12.520 N
Lon: 128 ° 28.330 W

Extra comments:

Water Properties Group

Program
STN List:

La_Perouse

Sampling Log

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

Cruise ID:

2020-009

Station:

SS5

Event #:

168

Ship:

JP Tully

UTC Date (dd mmm yyyy): 01 09 20

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: All Samples						Comments
			Target Pressure	Confirmed Pressure	Nut-F	CHL	HPLC	DA	Lugols	NH4	SAL						
1		407	20	✓ 20	x	xx				xx							SOMETHING IN OY4
2		408	10	✓ 10	x	x				xx							SAL TRACE
3		409	5	✓ 5	x	x	xx	x	x	xx	x						DIVERGENT ↑VS↓
L		5168	Loop	✓			xx				x						Bot 1 LEAK BOTOM RESET CAP
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): MG

Bottom Depth: 200 m

Transmisso Cleaned: (Y) / N

Time UTC Local

Start 1242 0542

Bottom 1246

End 1253

Positional Information

Start Lat: 51 ° 27.94 N

Lon: 128 ° 29.93 W

Bottom Lat: 51 ° 27.93 N

Lon: 128 ° 29.98 W

End Lat: 51 ° 27.92 N

Lon: 128 ° 30.02 W

Extra comments:

5M LOOP 1 SAL 2 CHL

Cruise ID: 2020-009

Station: SS4

Event #: 170

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 01|Sep|2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: All Samples								Comments
			Target Pressure	Confirmed ✓ Pressure		OXY												
1		413	Bot-10	✓	226	x												
2		414	200	✓	199.7	x												
3		415	160	✓	162	xx												
4		416	120	✓	122	x												
5		417	80	✓	80.5	x												
6		418	40	✓	40.3	x												
7		419	20	✓	19.7	x												
8		420	5	✓	5	x												
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): JS

Bottom Depth: 238 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	15:37	08:37
Bottom	15:42	08:42
End	15:54	08:54

Positional Information

StartLat: 51 ° 21.120 N
Lon: 129 ° 00.020 W

BottomLat: 51 ° 21.100 N
Lon: 129 ° 00.020 W

EndLat: 51 ° 21.050 N
Lon: 129 ° 00.002 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: All Samples						Comments
			Target Pressure	Confirmed ✓ Pressure	Nut-F	CHL	HPLC	DA	Lugols	NH4							
1		410	20	✓ 20	x	x				xx							
2		411	10	✓ 10	x	x				xx							
3		412	5	✓ 5	x	x	xx			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): MG

Bottom Depth: 292 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1808	1108
Bottom	1813	
End	1801	

Positional Information

Start

Lat: 51 ° 15.09 N

Lon: 129 ° 20.78 W

▼

Bottom

Lat: 51 ° 15.09 N

Lon: 129 ° 20.77 W

▼

End

Lat: 51 ° 15.10 N

Lon: 129 ° 20.78 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken							Sample Lists: All_Samples					Comments
			Target Pressure	Confirmed Pressure	Nut-F	CHL	HPLC	DA	Lugols	NH4	SAL						
1	1	421	20	✓ 19.7	x	x				xx							
2	2	422	10	✓ 10.4	x	x				xx							
3	3	423	5	✓ 5.5	x	xx	xx			xx	x						fluo = ~1.3
L		5175	Loop			xx					x						
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Watchkeeper(s): KS

Bottom Depth: 495 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2250	1550
Bottom	2258	1558
End	2311	1611

Positional Information

Start

Lat: 51 ° 11.930 N
Lon: 130 ° 59.860 W

Bottom

Lat: 51 ° 11.940 N
Lon: 130 ° 59.860 W

End

Lat: 51 ° 11.910 N
Lon: 130 ° 59.870 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: All_Samples					Comments				
			Target Pressure	Confirmed ✓ Pressure	Nut-F	CHL	HPLC			NH4	SAL								
1	1	424	2005	✓ 2005							xx								
2	2	425	1750	✓ 1751							x								
3	3	426	1500	✓ 1500							x								
4	4	427	1250	✓ 1250							x								
5	5	428	1000	✓ 1000							x								
6	6	429	20	✓ 20	x	x				xx									
7	7	430	10	✓ 10	x	x				xx									
8	8	431	5	✓ 5	x	x	xx			xx									
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): MB

Bottom Depth: 2726 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0410	2110
Bottom	0446	
End	0527	

Positional Information

Start

Lat: 51 ° 22 290 N

Lon: 130 ° 50 630 W

Bottom

Lat: 51 ° 22 290 N

Lon: 130 ° 50 630 W

End

Lat: 51 ° 22 290 N

Lon: 130 ° 50 630 W

Extra comments:

Water Properties Group

Program
STN List: La_Perouse

Sampling Log

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

Cruise ID: 2020-009

Station: NL03

Event #: 183

Ship: JP Tully

UTC Date (dd mmm yyyy): 02 09 20

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken						Sample Lists: All Samples				Comments
			Target Pressure	Confirmed ✓	Pressure	Nut-F	CHL	HPLC	DA	Lugols	NH4					
1		432	20	✓	20	x	x				xx					
2		433	10	✓	10	x	x				xx					
3		434	5	✓	5	x	x	xx			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):

Bottom Depth: 295 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1616	0916
Bottom	1622	
End	1630	

Positional Information
Start
Lat: 51 ° 48.07 N
Lon: 129 ° 39.95 W

Bottom
Lat: 51 ° 48.07 N
Lon: 129 ° 39.94 W

End
Lat: 51 ° 48.09 N
Lon: 129 ° 39.94 W

Extra comments:

Water Properties Group

Program
STN List: La Perouse

Sampling Log

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

Cruise ID: 2020-009

Station: NL05

Event #: 188

Ship: JP Tully

UTC Date (dd mmm yyyy): 3 SEP 2020

Niskin #	Firing #	Sample #	Rosette Operation		Confirmed Pressure	Sampler's Initials / Samples Taken						Sample Lists: All Samples				Comments
			Target Pressure	✓		Nut-F	CHL	HPLC		NH4	SAL					
1	1	435	20	✓	20	x	xx			xx						
2	2	436	10	✓	10	x	x			xx						
3	3	437	5	✓	5	x	x	xx		xx	x					
L		5189	Loop				xx				x					FL = 195 (22)
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: 43 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0341	2041
Bottom	0342	
End	0345	

Positional Information

Start	Lat: 51° 40' 510 N	Lon: 128° 54' 383 W
Bottom	Lat: 51° 40' 510 N	Lon: 128° 54' 380 W
End	Lat: 51° 40' 500 N	Lon: 128° 54' 350 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: All Samples						Comments
			Target Pressure	Confirmed	✓	Pressure	KS/MB	MA	MB	KS/MB	MA	MA					
				✓			OXY	Nut-F	SAL	CHL	HPLC	DIC					
1	1	438	Bot-10	✓		132.0	x	x									
2	2	439	125	✓		125.4	x	x									
3	3	440	100	✓		100.2	x	x									
4	4	441	75	✓		75.2	x	x									
5	5	442	50	✓		50.5	x	x	x	x		x					
6	6	443	40	✓		41.0	xx	x	x	x		x					
7	7	444	30	✓		30.4	x	x	x	x		x					
8	8	445	10	✓		10.2	x	xx		xx							
9	9	446	5	✓		5.4	x	x		x	xx						
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Watchkeeper(s): KS

Bottom Depth: 143 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0628	12328
Bottom	0631	2331
End	0640	2340

Positional Information

Start

Lat: 51 ° 42.660 N

Lon: 128 ° 14.600 W

Bottom

Lat: 51 ° 42.660 N

Lon: 128 ° 14.650 W

End

Lat: 51 ° 42.650 N

Lon: 128 ° 14.620 W

Extra comments:

Water Properties Group

Program
STN List: La_Peouse

Sampling Log

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

Cruise ID:

2020-009

Station:

JS

Event #:

197

Ship:

JP Tully

UTC Date (dd|mmm|yyyy): 4 | Sep | 20

Event #:		Ship:		JP Tully		UTC Date (dd/mm/yyyy)											
Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core Samples					Comments		
			Target Pressure	Confirmed Pressure	KS/MS	Nut-F	Nut-C	SAL	CHL	HPLC	NH4	DA	Phyto	DIC			
1	1	447	Bot-10	✓ 392	x	x								x			
2	2	448	300	✓ 300	x	x		x						x			
3	3	449	250	✓ 250	x	x								xx			
4	4	450	200	✓ 200	x	x								x			
5	5	451	175	✓ 175	x	x								x			
6	6	452	150	✓ 150	x	x								x			
7	7	453	125	✓ 125	x	xx								x			
8	8	454	100	✓ 100	x	x								x			
9	9	455	75	✓ 75	xx	x								x			
10	10	456	50	✓ 50	x	x			x					xx			
11	11	457	30	✓ 30	x	x			xx					x			
12	12	458	20	✓ 20	x	x			x					x			DID NOT CLOSE
13	13	459	10	✓ 10	x	x			x					x			
14	14	460	5	✓ 5	x	x			x	xx				x			FL: < 2 ~1.9
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

457B
CHL
JS
2020-009
30 m
bot 11

457A
CHL
JS
2020-009
30 m
bot 11

457
Nut-F
JS
2020-009
30 m
bot 11

Version: 28May2020

Transmissometer to be cleaned before each cast, do not use

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

Bottom Depth: 402 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0045	1745
Bottom	0052	
End	0109	

Positional Information

Lat:	50 ° 29 886 N
Lon:	126 ° 21 640 W
▼	
Lat:	50 ° 29 890 N
Lon:	126 ° 21 660 W
▼	
Lat:	50 ° 29 860 N
Lon:	126 ° 21 690 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		461	20	✓ 20		x		xx							
2		462	10	✓ 10		x		x							
3		463	5	✓ 5		xx	x	x							
4		464	0	✓ 1.4		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): MG

Bottom Depth: 316 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1653	0955
Bottom	1702	
End	1711	

Positional Information

Start
Lat: 49 ° 53.01 N
Lon: 124 ° 59.56 W

Bottom
Lat: 49 ° 53.02 N
Lon: 124 ° 59.55 W

End
Lat: 49 ° 53.01 N
Lon: 124 ° 59.56 W

Extra comments:

Cruise ID: 2020-009

Station: 12

Event #: 204

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 4 Sep 2020

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken						Sample Lists: Core_Samples				Comments
			Target Pressure	Confirmed Pressure	KSI/mg	Nut-F	SAL	CHL	HPLC	DA	Lugols	DIC			
1	1	465	Bot-5	✓ 348	x	x						x			
2	2	466	300	✓ 300	xx	x	x								
3	3	467	250	✓ 250	x	x						x			
4	4	468	200	✓ 200	x	xx						x			
5	5	469	175	✓ 175	xx	x									
6	6	470	150	✓ 150	x	x						x			
7	7	471	125	✓ 125	x	x						x			
8	8	472	100	✓ 100	x	x						xx			
9	9	473	75	✓ 75	x	x						x			
10	10	474	50	✓ 50	x	x						x			
11															
12	11	475	40	✓ 40	x	x						x			
13	12	476	30	✓ 30	x	x						xx			
14	13	477	20	✓ 20	x	x		x				x			
15	14	478	10	✓ 10	x	x		x				x			
16	15	479	5	✓ 5	x	x	x	x				x			
17	16	480	0	✓ 1.3	x	x		x	xx	x	x	x			FL = ~1.6 (c2)
18															
19															
20															
21															
22															
23															
24															

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

Watchkeeper(s): MR

Bottom Depth: 355 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	19 53	12 53
Bottom	19 59	
End	20 18	

Positional Information

Start

Lat: 49 ° 43 656 N

Lon: 124 ° 40 820 W

Bottom

Lat: 49 ° 43 660 N

Lon: 124 ° 40 840 W

End

Lat: 49 ° 43 690 N

Lon: 124 ° 40 840 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	481	20	✓ 20		x		x							
2	2	482	10	✓ 10		x		x							
3	3	483	5	✓ 5		x	x	xx							
4	4	484	0	✓ 1.5		x		x	xx						FL = 2.7 (2-5)
L		5205	LOOP				x	xx							
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: 169 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	2121	1421
Bottom	2124	
End	2130	

Positional Information

Start

Lat: 49 ° 35 503 N

Lon: 124 ° 38 368 W

Bottom

Lat: 49 ° 35 500 N

Lon: 124 ° 38 380 W

End

Lat: 49 ° 35 500 N

Lon: 124 ° 38 360 W

Extra comments:

Cruise ID: 2020-009

Station: 6

Event #: 206

Ship: JP Tully

UTC Date (dd mmm yyyy): 4 SEP 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	1	485	20	✓ 20		x		x							
2	2	486	10	✓ 10		x		x							
3	3	487	5	✓ 5		x		x							
4	4	488	0	✓ 16		x		x	xx						FL 25
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?

Waterkeeper(s):

Bottom Depth: 192 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	2228	1528
Bottom	2232	
End	2239	

Positional Information

Start

Lat: 49 ° 30 620 N

Lon: 124 ° 27 780 W

Bottom

Lat: 49 ° 30 640 N

Lon: 124 ° 27 800 W

End

Lat: 49 ° 30 670 N

Lon: 124 ° 27 800 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	MA	Lugols	DIC		
1	1	489	20	✓ 20		xx		xx							
2	2	490	10	✓ 10		x		x							
3	3	491	5	✓ 5		x		x							
4	4	492	0	✓ 1.5		x		x	xx	x	x				FL = 2
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: 61 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	0128	18
Bottom	0130	
End	0134	

Positional Information

Start

Lat: 49 ° 29 029 N

Lon: 124 ° 46 081 W

Bottom

Lat: 49 ° 29 029 N

Lon: 124 ° 46 082 W

End

Lat: 49 ° 29 030 N

Lon: 124 ° 46 082 W

Extra comments:

Cruise ID: 2020-009

Station: 3

Event #: 211

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 05 | Sep | 2020

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken					Sample Lists: Core Samples					Comments		
			Target	Confirmed														
			Pressure	✓	Pressure	OXY	Nut-F	SAL	CHL	HPLC	DA	Lugols	DIC					
1	1	493	20	✓	20.1		x		x									
2	2	494	10	✓	10.0		x		x									
3	3	495	5	✓	5.1		x		x									
4	4	496	0	✓	1.5		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): KS

Bottom Depth: 32 m

Transmisso Cleaned: Y N

Time	UTC	Local
Start	0350	2050
Bottom	0356	2056
End	0405	2105

Positional Information

Start

Lat: 49 ° 26.570 N

Lon: 124 ° 20.210 W

Bottom

Lat: 49 ° 26.560 N

Lon: 124 ° 20.270 W

End

Lat: 49 ° 26.570 N

Lon: 124 ° 20.320 W

Extra comments:

Cruise ID: 2020-009

Station: 2

Event #: 212

Ship: JP Tully

UTC Date (dd mmm yyyy): 5 Sep 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	1	497	20	✓ 20		x		x											Leaky.
2	2	498	10	✓ 10		x		xx											
3	3	499	5	✓ 5		xx	x	xx											
4	4	500	0	✓ 1.6		x		x	xx	x	x								FL: 3.2
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):

Bottom Depth: 280 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0514	2214
Bottom	0518	
End	0528	

Positional Information

Start

Lat: 49 ° 24 114 N

Lon: 124 ° 9 252 W

Bottom

Lat: 49 ° 24 130 N

Lon: 124 ° 9 240 W

End

Lat: 49 ° 24 169 N

Lon: 124 ° 9 203 W

Extra comments:

Water Properties Group

Program
STN List:

SoG

Sampling Log

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

Cruise ID:

2020-009

Station:

22

Event #:

215

Ship:

JP Tully

UTC Date (dd mmm yyyy): 05 | 09 | 20

Ship: <u>JP Tully</u>		UTC Date (dd																
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		501	20	✓	21		x		x									
2		502	10	✓	10		xx		x									
3		503	5	✓	5		x		xx									
4		504	0	✓	1.2		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																		

Version: 28May2020

Transmissometer to be cleaned before each test.

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

Bottom Depth: 353 m
 Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0833	0133
Bottom	0839	
End	0849	

Positional Information

Start	Lat: 49 ° 40.21 N
	Lon: 124 ° 16.26 W

Bottom

Lat: 49 ° 40.21 N
Lon: 124 ° 16.26 W

End

Lat: 49 ° 40.22 N
Lon: 124 ° 16.26 W

Extra comments:

Cruise ID: 2020-009

Station: 27

Event #: 222

Ship: JP Tully

UTC Date (dd mmm yyyy): 05 09 20

Niskin #	Firing #	Sample #	Rosette Operation			Sampler's Initials / Samples Taken						Sample Lists: Core_Samples					Comments		
			Target	Confirmed		MG	DC	DC	JS	JS	JS	JS	DC						
			Pressure	✓	Pressure	OXY	Nut-F	SAL	CHL	HPLC	DA	Lugols	DIC						
1	1	505	Bot-5	✓	351	x	x						x					Soft Bottom	
2	2	506	300	✓	300	x	x	x					x						
3	3	507	250	✓	270	x	x						xx					ACCIDENT FIRED 270	
4	5	508	200	✓	201	xx	x						x						
5	6	509	175	✓	175	x	x												
6	7	510	150	✓	150	x	x												
7	8	511	125	✓	125	x	xx												
8	9	512	100	✓	100	x	x												
9	10	513	75	✓	76	x	x												
10	11	514	50	✓	50	xx	x												
11																			
12	12	515	40	✓	40	x	x												
13	13	516	30	✓	30	x	x												
14	14	517	20	✓	20	x	x		xx										
15	15	518	10	✓	10	x	x		x										
16	16	519	5	✓	5	x	x	x	x										
17	17	520	0	✓	1.3	x	x		x	xx	x	x							
18																			
19																			
20																			
21																			
22																			
23																			
24	4	507	250	✓	250														

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

Watchkeeper(s): MG

Bottom Depth: 359 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1454	0754
Bottom	1503	
End	1526	

Positional Information

Start

Lat: 49 ° 19.18 N

Lon: 123 ° 47.68 W

Bottom

Lat: 49 ° 19.14 N

Lon: 123 ° 47.69 W

End

Lat: 49 ° 19.14 N

Lon: 123 ° 47.70 W

Extra comments:

Water Properties Group

Program
STN List:

SoG

Sampling Log

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

Cruise ID:

2020-009

Station:

GEO1

Event #:

223

Ship:

JP Tully

UTC Date (dd mmm yyyy): 05 | 09 | 20

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		521	20	✓ 20		x		x							
2		522	10	✓ 10		x		x							WRONG FILE #
3		523	5	✓ 5		x		x							SAVED AS 023
4		524	0	✓ 15		xx		xx	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): MG

Bottom Depth: 405 m

Transmisso Cleaned: (Y) I N

Time	UTC	Local
Start	1610	0910
Bottom	1620	
End	1632	

Positional Information

Start	Lat: 49 ° 15.10	N
	Lon: 123 ° 45.05	W
Bottom	Lat: 49 ° 15.07	N
	Lon: 123 ° 45.03	W
End	Lat: 49 ° 15.04	N
	Lon: 123 ° 45.02	W

Extra comments:

Water Properties Group

Program
STN List: SoG

Sampling Log

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

Cruise ID: 2020-009

Station: 39

Event #: 227

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 5|Sep|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	1	525	20	✓ 20		x		x							
2	2	526	10	✓ 10		x		x							
3	3	527	5	✓ 5		x		x							
4	4	528	0	✓ 1.2		x		x	xx						FL=2.5
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: 377 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	19 23	12 23
Bottom	19 31	
End	19 40	

Positional Information

Start	Lat: 49 ° 9 823 N
	Lon: 123 ° 37 999 W
Bottom	Lat: 49 ° 9 823 N
	Lon: 123 ° 33 031 W
End	Lat: 49 ° 9 810 N
	Lon: 123 ° 33 043 W

Extra comments:

Niskin #	Firing #	Sample #	Rosette Operation		Sampler's Initials / Samples Taken					Sample Lists: Core_Samples				Comments			
			Target Pressure	Confirmed Pressure	W/LMS	Nut-F	SAL	CHL	HPLC	DA	Lugols	DIC					
1	1	529	Bot-5	✓ 310	x	x						xx					
2	2	530	300	✓ 300	x	x	x										
3	3	531	250	✓ 250	xx	x						x					
4	4	532	200	✓ 200	x	x						x					
5	5	533	175	✓ 175	x	xx											
6	6	534	150	✓ 150	x	x						x					
7	7	535	125	✓ 125	x	x						xx					
8	8	536	100	✓ 100	x	x						x					
9	9	537	75	✓ 75	x	x						x					
10	10	538	50	✓ 50	x	x						x					
11																	
12	11	539	40	✓ 40	x	x						x					
13	12	540	30	✓ 30	x	x						x					
14	13	541	20	✓ 20	x	x		xx				x					
15	14	542	10	✓ 10	x	x		x				x					
16	15	543	5	✓ 5	x	xx	x	x				x					
17	16	544	0	✓ 1.4	xx	x		x	xx	x	x	x		FL: 2.5			
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Watchkeeper(s): MB

Bottom Depth: 321 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	<u>2253</u>	<u>1553</u>
Bottom	<u>2258</u>	
End	<u>2318</u>	

Positional Information

Start

Lat: 49 ° 1 750 N

Lon: 123 ° 26 290 W

Bottom

Lat: 49 ° 1 740 N

Lon: 123 ° 26 287 W

End

Lat: 49 ° 1 748 N

Lon: 123 ° 26 279 W

Extra comments:

Water Properties Group

Program
STN List: SoG

Sampling Log

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

Cruise ID: 2020-009

Station: 46

Event #: 233

Ship: JP Tully

UTC Date (dd mmm yyyy): 06 Sept 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	1	545	20	✓	19.8		x		x								Niskin leaking. One of the caps did not seal
2	2	546	10	✓	9.9		x		x								
3	3	547	5	✓	5.1		x		x								
4	4	548	0	✓	1.4		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): KS

Bottom Depth: 181 m
Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	0221	1921
Bottom	0224	1924
End	0231	1931

Positional Information
Start
Lat: 48 ° 51.390 N
Lon: 123 ° 10.830 W

Bottom
Lat: 48 ° 51.400 N
Lon: 123 ° 10.830 W

End
Lat: 48 ° 51.400 N
Lon: 123 ° 10.820 W

Extra comments:

Cruise ID: 2020-009

Station: 56

Event #: 234

Ship: JP Tully

UTC Date (dd mmm/yyyy): 06 | 09 | 20

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		549	20	✓	21		x		x							↓ STOP @ 126 FOR 1 MIN
2		550	10	✓	10		x		x							
3		551	5	✓	5		x	x	xx							
4		552	0	✓	1.7		x		x	xx	x	x				
L		5234	LOOP					x	xx							
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): MG

Bottom Depth: 214 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1103	0403
Bottom	1110	
End	1118	

Positional Information

Start

Lat: 48 ° 46.40 N

Lon: 123 ° 01.51 W

Bottom

Lat: 48 ° 46.42 N

Lon: 123 ° 01.50 W

End

Lat: 48 ° 46.43 N

Lon: 123 ° 01.49 W

Extra comments:

Water Properties Group

**Program
STN List:**

SoG

Sampling Log

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

Cruise ID:

2020-009

Station:

SC04

Event #: 235

Ship: JP Tully

UTC Date (dd|mmm|yyyy): 06 | 09 | 20

[illegible]

Profile type:

ROS TRM X-Niskin other?

Watchkeeper(s): MC

Bottom Depth: 97 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
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Start	1334	
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Bottom	1336	
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End	1342	
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Positional Information

Lat: 48 ° 43.46

Star Lon: 123 ° 25.07 v

Lat: 48 ° 43.45

Lon: 123 ° 25.06

Lat: 48 ° 43.45

Lon: 23.26.07

Extra comments: