

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-025 Station: SL Event #: 01 Vessel: Tully UTC Date (dd/mmm/yyyy): 15 Aug 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments		
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a									
1		001		96		X	✓	X									salinity only.
24		002		96		X	✓	X									
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 106 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	18:46	11:46
Bottom (BO)	18:48	:
End (EN)	18:51	:

Positional Information

Start	Lat: <u>48° 40.930</u> N
	Lon: <u>123° 30.080</u> W

Bottom

Lat: <u>48° 40.930</u> N
Lon: <u>123° 30.070</u> W

Finish

Lat: <u>48° 40.930</u> N
Lon: <u>123° 30.060</u> W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)
Deck pressure 0.13 db

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: LB8 Event #: 2 Vessel: TULLY UTC Date (dd|mmm|yyyy): 16 | aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a									
1		003	100	101				✓									low ammonium water sample
2		004	100	101				✓									
3		005	100	101				✓									
4		006	100	101				✓									
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
☒ Ros (default) ☐ TrMetiRos ☐ X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 797 m
Transmissio Cleaned: ☒ Y / ☐ N
Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	<u>14:29</u>	<u>07:29</u>
Bottom (BO)	<u>14:31</u>	:
End (EN)	<u>14:36</u>	:

Positional Information

Start	Lat: <u>48° 25.260</u> N
	Lon: <u>126° 28.480</u> W
Bottom	Lat: <u>48° 25.240</u> N
	Lon: <u>126° 28.480</u> W
Finish	Lat: <u>48° 25.260</u> N
	Lon: <u>126° 28.450</u> W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: A1-57 Event #: 3 Vessel: Tully UTC Date (dd|mmm|yyyy): 16 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	eDNA	phyt	HAB						
1		7	b-10	493			✓										
2		8	surf						✓	✓	LF	✓					
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 (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 49 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	22:11	15:11
Bottom (BO)	22:20	:
End (EN)	22:29	:

Positional Information
Start
Lat: 48° 32.280 N
Lon: 126° 11.670 W

Bottom
Lat: 48° 32.260 N
Lon: 126° 11.640 W

Finish
Lat: 48° 32.230 N
Lon: 126° 11.590 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: LAPI Event #: 7 Vessel: TULUY UTC Date (dd|mmm|yyyy): 17 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	eDNA									
1		9	surf						✓									
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
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14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 346 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	01:24	18:24
Bottom (BO)	01:29	:
End (EN)	01:32	:

Positional Information
Start
Lat: 48° 22.980 N
Lon: 125° 48.174 W

Bottom
Lat: 48° 22.998 N
Lon: 125° 48.080 W

Finish
Lat: 48° 22.990 N
Lon: 125° 48.060 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)
SPOP @ 117 for wire angle correction

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: EFFF04 Event #: 15 Vessel: TULLY UTC Date (dd|mmm|yyyy): 17 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	phyo	HAB								
1		10	6-5	✓ 55	✓													
2		11	30		✓													
3		12	20		✓													
4		13	10		✓													
5		14	0		✓				LFG	✓								
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):

SR

Bottom Depth: 57 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	18:05	:
Bottom (BO)	18:07	:
End (EN)	18:12	:

Positional Information
Start
Lat: 49° 3.140 N
Lon: 125° 8.580 W

Bottom
Lat: 49° 3.130 N
Lon: 125° 8.590 W

Finish
Lat: 49° 3.120 N
Lon: 125° 8.590 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: EFFF05 Event #: 9 Vessel: TALLY UTC Date (dd|mmm|yyyy): 17 Aug 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		15	6-5	✓ 197	✓													
2		16	150	✓	✓													
3		17	100	✓	✓													
4		18	75	✓	✓													
5		19	50	✓	✓													
6		20	30	✓	✓													
7		21	20	✓	✓													
8		22	10	✓	✓													
9		23	0	✓	✓													
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 202 m
Transmisso Cleaned: (Y) / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	13:44	06:44
Bottom (BO)	13:48	:
End (EN)	13:59	:

Positional Information
Start
Lat: 49° 2.480 N
Lon: 125° 9.090 W

Bottom
Lat: 49° 2.490 N
Lon: 125° 9.090 W

Finish
Lat: 49° 2.510 N
Lon: 125° 9.120 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: EFO3 Event #: 13 Vessel: TULLY UTC Date (dd|mmm|yyyy): 17 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		24	6-5	✓ 112	✓													
2		25	100	✓	✓													
3		26	75	✓	✓													
4		27	50	✓	✓													
5		28	30	✓	✓													
6		29	20	✓	✓													
7		30	10	✓	✓													
8		31	0	✓	✓													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 117 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	17:08	10:08
Bottom (BO)	17:11	:
End (EN)	17:20	:

Positional Information
Start
Lat: 49° 4.280 N
Lon: 125° 9.440 W

Bottom
Lat: 49° 4.280 N
Lon: 125° 9.430 W

Finish
Lat: 49° 4.280 N
Lon: 125° 9.410 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: EFF02 Event #: 11 Vessel: TULLY UTC Date (dd|mmm|yyyy): 17 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		32	10-5	✓ 65	✓													
2		33	50	✓	✓													
3		34	30	✓	✓													
4		35	20	✓	✓													
5		36	10		✓													
6		37	0		✓					LF	✓	✓						
7																		
8																		
9																		
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18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
ER

Bottom Depth: 69 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	15:49	08:49
Bottom (BO)	15:51	:
End (EN)	16:00	:

Positional Information
Start
Lat: 49° 4 . 970 N
Lon: 125° 10 . 310 W

Bottom
Lat: 49° 4 . 970 N
Lon: 125° 10 . 310 W

Finish
Lat: 49° 4 . 980 N
Lon: 125° 10 . 330 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: EFO1 Event #: 12 Vessel: TULLY UTC Date (dd|mmm|yyyy): 17 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a										
1		38	6-5	✓ 27	✓													
2		39	20		✓													
3		40	10		✓													
4		41	⊙		✓													
5																		
6																		
7																		
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18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 32 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	16:32	09:32
Bottom (BO)	16:34	:
End (EN)	16:37	:

Positional Information
Start
Lat: 49° 5.570 N
Lon: 125° 11.663 W

Bottom
Lat: 49° 5.580 N
Lon: 125° 11.670 W

Finish
Lat: 49° 5.580 N
Lon: 125° 11.670 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: EFFF06 Event #: 16 Vessel: TULLY UTC Date (dd|mmm|yyyy): 17 Aug 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		42	6-5	✓ 150	✓													
2		43	100		✓													
3		44	75		✓													
4		45	50		✓													
5		46	30		✓													
6		47	20		✓✓													
7		48	10		✓													
8		49	0		✓													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 150 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	19:18	12:18
Bottom (BO)	19:23	:
End (EN)	19:33	:

Positional Information

Start	Lat: 49° 1.830 N
	Lon: 125° 9.170 W

Bottom

Lat: 49° 1.830 N
Lon: 125° 9.160 W

Finish

Lat: 49° 1.820 N
Lon: 125° 9.170 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: EFF07 Event #: 17 Vessel: Tully UTC Date (dd|mmm|yyyy): 17 Aug 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		50	6-5	✓ 115	✓													
2		51	100	✓	✓													
3		52	75	✓ 75	✓													
4		53	50	✓ 50	✓													
5		54	30	✓ 30	✓													
6		55	20	✓	✓													
7		56	10		✓													
8		57	0		✓													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 120 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	19:54	12:54
Bottom (BO)	19:57	:
End (EN)	20:07	:

Positional Information

Lat:	49° 1.280	N
Lon:	125° 9.410	W

Start

▼

Lat:	49° 1.280	N
Lon:	125° 9.420	W

Bottom

▼

Lat:	49° 1.270	N
Lon:	125° 9.440	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: EFFF08 Event #: 18 Vessel: TULLY UTC Date (dd|mmm|yyyy): 17 Aug 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a										
1		58	0-5	81	✓													
2		59	75		✓													
3		60	50		✓													
4		61	30		✓													
5		62	20		✓													
6		63	10		✓													
7		64	0		✓													
8																		
9																		
10																		
11																		
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13																		
14																		
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16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
ER

Bottom Depth: 85 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	20:26	13:26
Bottom (BO)	20:28	:
End (EN)	20:37	:

Positional Information
Start
Lat: 49° 0.660 N
Lon: 125° 10.240 W

Bottom
Lat: 49° 0.660 N
Lon: 125° 10.260 W

Finish
Lat: 49° 0.660 N
Lon: 125° 10.260 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018125 Station: EFF09 Event #: 19 Vessel: TULLY UTC Date (dd|mmm|yyyy): 17 Aug 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		65	15	✓ 52	✓													
2		66	30	✓	✓													
3		67	20	✓	✓													
4		68	10	✓	✓✓													
5		69	0	✓	✓													bottle 5 tripped but empty
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 56 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	20:56	13:56
Bottom (BO)	20:58	:
End (EN)	21:04	:

Positional Information
Start
Lat: 49° 0.130 N
Lon: 125° 10.840 W

Bottom
Lat: 49° 0.130 N
Lon: 125° 10.840 W

Finish
Lat: 49° 0.130 N
Lon: 125° 10.830 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2019-25

Station: EFF 10

Event #: 20

Vessel: TULLY

UTC Date (dd|mmm|yyyy): 17 Aug 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		70	10-5	✓ 95	✓													
2		71	75	✓	✓													
3		72	50	✓	✓													
4		73	30	✓	✓													
5		74	20	✓	✓													
6		75	10	✓	✓													
7		76	0	✓	✓													
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 100 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>21:30</u>	<u>14:30</u>
Bottom (BO)	<u>21:32</u>	:
End (EN)	<u>21:41</u>	:

Positional Information

Start	Lat: <u>48° 59.850</u> N
	Lon: <u>125° 11.210</u> W

Bottom

Lat: <u>48° 59.850</u> N
Lon: <u>125° 11.210</u> W

Finish

Lat: <u>48° 59.850</u> N
Lon: <u>125° 11.260</u> W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 208-25 Station: EEF11 Event #: 21 Vessel: TULLY UTC Date (dd|mmm|yyyy): 17 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		77	6-5	81	✓													
2		78	50	✓ 50	✓													
3		79	30	✓ 30	✓													
4		80	20	✓ 20	✓✓													
5		81	10	✓ 10	✓													
6		82	0	✓ 2.1	✓													
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 85 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	21 : 57	14 : 57
Bottom (BO)	22 : 00	15 : 00
End (EN)	22 : 07	15 : 07

Positional Information
Start
Lat: 48° 59.130 N
Lon: 125° 11.030 W

Bottom
Lat: 48° 59.130 N
Lon: 125° 11.030 W

Finish
Lat: 48° 59.150 N
Lon: 125° 11.010 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: EFF12 Event #: 22 Vessel: JULLY UTC Date (dd|mmm|yyyy): 17 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		83	0-5	✓ 82	✓													
2		84	75	✓	✓													
3		85	50	✓	✓													
4		86	30	✓	✓													
5		87	20	✓	✓													
6		88	10	✓	✓													
7		89	0	✓	✓													
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: _____ m
Transmisso Cleaned: ☒ Y / ☐ N
Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	22:39	15:39
Bottom (BO)	22:40	:
End (EN)	22:49	:

Positional Information
Start
Lat: 48° 58.030 N
Lon: 125° 10.440 W

Bottom
Lat: 48° 58.030 N
Lon: 125° 10.450 W

Finish
Lat: 48° 58.050 N
Lon: 125° 10.420 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: EFF13 Event #: 23 Vessel: TULLY UTC Date (dd|mmm|yyyy): 17 Aug 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		phyto	LABS	eDNA						
1		90	h-5	✓ 99	✓													
2		91	75	✓	✓													
3		92	50	✓	✓													
4		93	30	✓	✓													
5		94	20	✓	✓													
6		95	10	✓	✓													
7		96	0	✓	✓					LGF	✓	✓						
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
☒ Ros (default) | ☐ TrMetlRos | ☐ X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 104 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	23:11	16:11
Bottom (BO)	23:13	:
End (EN)	23:22	:

Positional Information

Start	Lat: <u>48° 56.510</u> N
	Lon: <u>125° 10.610</u> W

Bottom

Lat: <u>48° 56.510</u> N
Lon: <u>125° 10.590</u> W

Finish

Lat: <u>48° 56.540</u> N
Lon: <u>125° 10.500</u> W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: E01 Event #: 25 Vessel: TULLY UTC Date (dd|mmm|yyyy): 18 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a								
1		97	surf							LF	✓	✓✓				
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 (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 100 m
Transmisso Cleaned: (Y) / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	14:51	07:51
Bottom (BO)	14:53	:
End (EN)	14:55	:

Positional Information

Lat:	49° 17.440	N
Lon:	126° 36.350	W

Start

▼

Lat:	49° 17.450	N
Lon:	126° 36.330	W

Bottom

▼

Lat:	49° 17.440	N
Lon:	126° 36.330	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: COOK 1 Event #: 28 Vessel: TULLY UTC Date (dd|mmm|yyyy): 18 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a								
1		98	surf	✓	surf					LF	✓	✓				
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 (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: _____ m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	20:27	13:27
Bottom (BO)	20:30	:
End (EN)	20:34	:

Positional Information

Lat:	49° 37.790	N
Lon:	126° 36.370	W

Start

▼

Lat:	49° 37.790	N
Lon:	126° 36.390	W

Bottom

▼

Lat:	49° 37.790	N
Lon:	126° 36.390	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: ESP2 Event #: 29 Vessel: TULLY UTC Date (dd|mmm|yyyy): 18 | aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a							
1		99	surf	surf						PHYTO	HAB	CDNA			
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 (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 232 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>23:20</u>	<u>16:20</u>
Bottom (BO)	<u>23:24</u>	:
End (EN)	<u>23:29</u>	:

Positional Information
Start
Lat: 49° 52.050 N
Lon: 126° 50.880 W

Bottom
Lat: 49° 52.050 N
Lon: 126° 50.856 W

Finish
Lat: 49° 52.064 N
Lon: 126° 50.821 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: 31 C Event #: ESP3 Vessel: TULLY UTC Date (dd|mmm|yyyy): 19 Aug 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a								
1		100	surf	✓ surf					LF	✓	✓					
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 (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 84 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	02:54	19:54
Bottom (BO)	02:56	:
End (EN)	02:58	:

Positional Information

Start	Lat: 49° 47.370 N
	Lon: 127° 27.560 W

Bottom

Lat: 49° 47.360 N
Lon: 127° 27.520 W

Finish

Lat: 49° 47.360 N
Lon: 127° 27.490 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: 326 Event #: BPI Vessel: TULLY UTC Date (dd|mmm|yyyy): 19 | 08 |

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a							
1		101	surf	1.7					LF	✓	✓				
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 (default) | TrMetlRos | X-Niskin
Watchkeeper(s):

Bottom Depth: 110 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	13:42	:
Bottom (BO)	13:45	:
End (EN)	13:48	:

Positional Information
Start
Lat: 50° 03.400 N
Lon: 127° 53.311 W

Bottom
Lat: 50° 3.35 N
Lon: 127° 53.957 W

Finish
Lat: 50° 3.35 N
Lon: 127° 53.388 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: Scott S Event #: 039 Vessel: TULLY UTC Date (dd|mmm|yyyy): 19 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a							
1		102	surf	2.7						LF	✓	✓			
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 (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
CW/

Bottom Depth: _____ m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	22:01	:
Bottom (BO)	22:03	:
End (EN)	22:06	:

Positional Information

Start	Lat: 50° 47.412 N
	Lon: 128° 48.15 W
Bottom	Lat: 50° . . N
	Lon: 128° . . W
Finish	Lat: 50° 47.420 N
	Lon: 128° 48.160 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

see Cruise log regarding issues with NMEA feed

NO NMEA feed
 → only know start
 GPS

likely saved as 033, then changed to 039

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: CT08 Event #: 47 Vessel: TULLY UTC Date (dd|mmm|yyyy): 20 Aug 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)														Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TOC	DOC	DOM	DB	PHYTO	HABS	EDNA	PART		
1		6-5	119	✓	2088	✓	✓												
2		6-5	120	✓	2088	✓	✓	✓		✓	✓	✓	✓						
3		1500	121	✓		✓	✓												
4		1250	122	✓		✓	✓												
5		1000	123	✓		✓	✓												
6		750	124	✓		✓	✓												
7		500	125	✓		✓	✓	✓											
8		400	126	✓		✓	✓												
9		300	127	✓		✓	✓												
10		250	128	✓		✓	✓												
11		200	129	✓		✓	✓												
12		150	130	✓		✓	✓												
13		100	131	✓		✓	✓												
14		75	132	✓		✓	✓												
15		50	133	✓		✓	✓												
16		50	134	✓		✓	✓	✓		✓	✓	✓	✓						
17		30	135	✓		✓	✓												
18		20	136	✓		✓	✓		✓	✓									
19		10	137	✓		✓	✓		✓	✓									
20		0	138	✓		✓	✓	✓		✓	✓	✓	✓						
21		0	139	✓		✓	✓		✓					LF	✓	✓			
22		0	140	✓		✓	✓										✓	✓	
23																			
24																			

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 2095 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	07:31	00:31
Bottom (BO)	08:08	:
End (EN)	09:05	:

Positional Information
 Lat: 50° 53.220 N
 Lon: 129° 52.200 W

▼
 Lat: 50° 53.130 N
 Lon: 129° 52.180 W

▼
 Lat: 50° 53.220 N
 Lon: 129° 52.260 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: Scott 52 Event #: 53 49 Vessel: TULLY UTC Date (dd|mmm|yyyy): 20 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	DOC	TA	CDOM	DIC	ALK	SiO ₄	PO ₄ P	NO ₃	PART	
1		103	6-5	286			✓		✓	✓	✓			✓	✓			
2		104	0-5	286	✓	✓												
3		105	250	250	✓	✓												
4		106	200	200.6	✓	✓												
5		107	150	150.5	✓	✓												
6		108	100	100.47	✓	✓												
7		109	75	74.3	✓	✓												
8		110	50	50.9	✓	✓												
9		111	50	51	✓		✓		✓	✓	✓	✓	✓	✓				
10		112	40	40.3	✓	✓						✓	✓					
11		113	30	31.3	✓	✓						✓	✓					
12		114	20	20.68	✓	✓		✓	✓									
13		115	10	10.0	✓	✓		✓	✓									
14		116	0		✓	✓		✓	✓									
15		117	0		✓	✓	✓		✓	✓	✓		✓	✓	LF	✓		
16		118	0		✓	✓	✓		✓	✓	✓		✓	✓		✓	✓	
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
CW/CH/SJ/RH

Bottom Depth: 290 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	15:04	22:4
Bottom (BO)	15:12	:
End (EN)	15:37	:

Positional Information

Lat:	51° 07' . 64	N
Lon:	129° 28' . 43	W

Start

Lat:	51° 07' . 64	N
Lon:	129° 28' . 42	W

Bottom

Lat:	51° 07' . 62	N
Lon:	129° 28' . 47	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

(#1) Bottom bottle tripped when mouse moved!

-easy 0.5m seas

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: HAKI Event #: 53 Vessel: TULLY UTC Date (dd|mmm|yyyy): 20 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	DIC	TA	DOC	CDOM	SIB	phyto	HAAS	CDNA	part	
1		119	6-5	135	✓	✓												
2		120	6-5	135			✓			✓	✓	✓	✓					
3		121	100	101	✓	✓												
4		122	100	101			✓			✓	✓	✓	✓					
5		123	75	76	✓	✓												
6		124	75	75			✓			✓	✓	✓	✓					
7		125	50	50	✓	✓✓												
8		126	50	50	✓	✓	✓		✓✓	✓	✓	✓	✓					
9		127	40	40	✓	✓			✓✓									
10		128	30	29	✓	✓	✓		✓✓	✓	✓	✓	✓					
11		129	30	30	✓	✓												
12		130	20	20	✓	✓	✓		✓	✓	✓	✓	✓					
13		131	20	19	✓	✓		✓✓										
14		132	10	9	✓	✓	✓			✓	✓	✓	✓					
15		133	10	10	✓	✓✓		✓✓										
16		134	0	3	✓	✓	✓			✓	✓	✓	✓					
17			0	2	✓	✓		✓						LG F	✓	✓✓		
18			0	2	✓✓✓													
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
CWO/CH/ST/RH

Bottom Depth: 139 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>23:15</u>	:
Bottom (BO)	<u>23:19</u>	:
End (EN)	<u>23:31</u>	:

Positional Information

Lat:	<u>51° 42.76</u>	N
Lon:	<u>128° 14.040</u>	W

▼

Lat:	<u>51° 42.79</u>	N
Lon:	<u>128° 14.040</u>	W

▼

Lat:	<u>51° 42.84</u>	N
Lon:	<u>128° 14.02</u>	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Two bottles each depth except 40m.

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: MS4 Event #: 56 Vessel: TULLY UTC Date (dd|mmm|yyyy): 21 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	TOC	DOC	IS	Chlorophyll	ANOS	RNA	part	
1		135	b-5		✓	✓										
2		136	b-5				✓		✓	✓	✓					
3		137	300		✓	✓										
4		138	250		✓	✓										
5		139	200		✓	✓										
6		140	150		✓	✓										
7		141	100		✓	✓										
8		142	75		✓	✓										
9		143	50		✓	✓										
10		144	50				✓		✓	✓	✓	✓				
11		145	30		✓	✓										
12		146	20		✓	✓										
13		147	10		✓	✓										
14		148	0				✓		✓	✓	✓	✓				
15		149	0		✓	✓						LF	✓	✓		
16		150	0												mv	
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:
☒ Ros (default) ☐ TrMetlRos ☐ X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 356 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	<u>07:45</u>	<u>00:45</u>
Bottom (BO)	<u>07:51</u>	:
End (EN)	:	:

Positional Information

Lat:	<u>51°41.430</u>	N
Lon:	<u>129°57.540</u>	W

Start

▼

Lat:	<u>51°41.</u>	N
Lon:	<u>129°57.</u>	W

Bottom

▼

Lat:	<u>51°41.</u>	N
Lon:	<u>129°57.</u>	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

2 bottles @ b-5, 50, 0 → extra chem on even # bottles

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: SRC1-B Event #: 58 Vessel: Tully UTC Date (dd|mmm|yyyy): 21 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a								
1		151	0-5	210	✓	✓										
2		152	150		✓	✓										
3		153	100		✓	✓										
4		154	75		✓	✓										
5		155	50		✓	✓										
6		156	30		✓	✓										
7		157	20		✓	✓		✓								
8		158	10		✓	✓		✓								
9		159	0		✓	✓		✓		LF	✓	✓				
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 212 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	13:29	06:29
Bottom (BO)	13:32	:
End (EN)	13:46	:

Positional Information

Lat:	52° 15.000	N
Lon:	129° 40.860	W

▼

Lat:	52° 14.980	N
Lon:	129° 40.836	W

▼

Lat:	52° 14.988	N
Lon:	129° 40.876	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: MT8 Event #: 59 Vessel: TULLY UTC Date (dd|mmm|yyyy): 21 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)														Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TDC	DOC	DOM	SIB	Phyto	HAS	eDNA	part		
1		160	65	485	✓	✓													
2		161	65	485			✓			✓	✓	✓	✓						
3		162	600		✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	
4		163	250	250	✓	✓													
5		164	200	201	✓	✓													
6		165	150	151	✓	✓													
7		166	100	100	✓	✓													
8		167	75	75	✓	✓													
9		168	50	50	✓	✓													
10		169	50	50			✓			✓	✓	✓	✓						
11		170	30	31	✓	✓													
12		171	20	20	✓	✓		✓											
13		172	10	10	✓	✓		✓											
14		173	0	2			✓			✓	✓	✓	✓	GF	✓	✓			
15		174	0	2	✓	✓		✓											
16		175	0	2													✓		
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
CH

Bottom Depth: 484 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>16:56</u>	:
Bottom (BO)	:	:
End (EN)	<u>17:25</u>	:

Positional Information

Lat:	<u>52° 17.11</u>	N
Lon:	<u>130° 11.96</u>	W

Start

Lat:	°	.	N
Lon:	°	.	W

Bottom

Lat:	°	.	N
Lon:	°	.	W

Finish

Lat:	<u>52° 17.12</u>	N
Lon:	<u>130° 11.34</u>	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-025 Station: JPS4

Event #: 65

Vessel: Tully

UTC Date (dd|mmm|yyyy): 22 Aug 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)														Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	DIC/TA	TOC	DOC	DOM	SR	Phyto	HA85	eDNA	Part		
1		176	0-5	331	✓	✓													
2		177	0-5	331	✓	✓	✓		✓	✓	✓	✓	✓						
3		178	300		✓	✓													
4		179	250		✓	✓													
5		180	200		✓	✓													
6		181	150	✓ 150	✓	✓													
7		182	100	✓ 100	✓	✓													
8		183	75	✓ 75	✓	✓													
9		184	50		✓	✓													
10		185	50		✓	✓	✓		✓	✓	✓	✓	✓						
11		186	30		✓	✓													
12		187	20		✓	✓		✓											
13		188	10		✓	✓		✓											
14		189	0		✓	✓	✓		✓	✓	✓	✓	✓	✓	BF	✓	✓		
15		190	0		✓	✓		✓											
16		191	0		✓	✓												✓	
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: _____ m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	02:12	19:12
Bottom (BO)	02:20	:
End (EN)	:	:

Positional Information
 Lat: 52°31.230 N
 Lon: 131°23.670 W

Bottom
 Lat: 52°31.270 N
 Lon: 131°23.700 W

Finish
 Lat: 52°31.310 N
 Lon: 131°23.740 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: JPSI Event #: 67 Vessel: TULLY UTC Date (dd|mmm|yyyy): 22 | aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)														Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TOC	DOC	Si	DOH	Phylo	HADS	ent	back		
1		192	b-5		142	✓	✓												
2		193	b-5		142	✓	✓			✓	✓		✓	✓					
3		194	100			✓	✓												
4		195	75			✓	✓												
5		196	50			✓	✓												
6		197	50			✓	✓			✓	✓		✓	✓					
7		198	30			✓	✓												
8		199	20			✓	✓		✓	✓									
9		200	10			✓	✓		✓	✓									
10		201	0			✓	✓		✓	✓	✓	✓	✓						
11		202	0			✓	✓		✓	✓				LOF	✓	✓			
12		203	0			✓	✓										✓	✓	
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
JR

Bottom Depth: 147 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	04:14	21:14
Bottom (BO)	04:16	:
End (EN)	04:26	:

Positional Information

Lat:	52°36.300	N
Lon:	131°40.100	W

Start

▼

Lat:	52°36.300	N
Lon:	131°40.100	W

Bottom

▼

Lat:	52°36.290	N
Lon:	131°40.120	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: _____

Station: JP57

Event #: 72

Vessel: _____

UTC Date (dd|mmm|yyyy): 22 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)														Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TOC	DOC	CDOM	S18	Phyto	HAB5	edNA	part		
1		204	10-5	129	✓	✓													
2		205	10-5	129	✓	✓	✓			✓	✓	✓	✓						
3		206	75	76	✓	✓													
4		207	50		✓	✓	✓												
5		208	50		✓	✓													
6		209	30		✓	✓				✓	✓	✓	✓						
7		210	20		✓	✓		✓											
8		211	10		✓	✓		✓											
9		212	0		✓	✓		✓											
10		213	0		✓	✓	✓			✓	✓	✓	✓	LF	✓	✓			
11		214	0		✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 132 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	08:31	01:31
Bottom (BO)	08:34	:
End (EN)	08:44	:

Positional Information

Lat:	<u>52° 33.890</u>	N
Lon:	<u>131° 05.810</u>	W

▼

Lat:	<u>52° 33.860</u>	N
Lon:	<u>131° 05.790</u>	W

▼

Lat:	<u>52° 33.770</u>	N
Lon:	<u>131° 05.640</u>	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

262m

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25Station: MT03Event #: 76Vessel: TullyUTC Date (dd|mmm|yyyy): 21 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TOC	DOC	SIB	DOM	phyto	NAGS	eDNA	part	
1		215	6-5	257	✓	✓												
2		216	6-5	257			✓			✓	✓	✓	✓					
3		217	200	201	✓	✓												
4		218	150	151	✓	✓												
5		219	100	100	✓	✓												
6		220	75	75	✓✓	✓												
7		221	50	50	✓	✓												
8		222	30	50			✓			✓	✓	✓	✓					
9		223	30	30	✓	✓												
10		224	20	21	✓	✓		✓✓										
11		225	10	11	✓	✓✓		✓✓										
12		226	0	1.7			✓			✓✓	✓✓	✓✓	✓✓					
13		227	0	1.7	✓	✓		✓✓						LGF	✓	✓		
14		228	0	1.7													✓✓	
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:

Ros (default) | TrMetlRos | X-Niskin

Watchkeeper(s):

CH

Bottom Depth: 262 mTransmissometer Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time UTC Local

Start (BE) 14:39 :Bottom (BO) 14:47 :

End (EN) : :

Positional Information

Lat: 52°40.56 NLon: 129°59.14 WLat: 52°40.54 NLon: 129°59.18 W

Lat: ° . N

Lon: ° . W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

forgot finish bottle
latter time

205m

SRN

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-75 Station: MT01 Event #: 82 Vessel: TULLY UTC Date (dd|mmm|yyyy): 22|08|2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TOC	DOC	S ¹⁸	CDOM	Phyto	HAAS	CDAX	PAR	
1		229	0-5	200	✓	✓												
2		230	0-5	200	—	—	✓			—	✓	✓	✓					
3		231	150	150	✓	✓												
4		232	100	100	✓	✓												
5		233	75	75	✓	✓												
6		234	50	50	—	—	✓			✓	✓	✓	✓					
7		235	50	50	✓	✓												
8		236	30	30	✓	✓												
9		237	20	20	✓	✓		✓	✓									
10		238	10	10	✓	✓		✓	✓									
11		239	0	2	✓	✓		✓	✓					LF	✓	✓		
12		240	0	2	—	—	✓			✓	✓	✓	✓					
13		241	0	2	—	—											✓	
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) TrMet/Ros X-Niskin
Watchkeeper(s):
CH

Bottom Depth:	203	m
Transmissometer Cleaned:	Y	N
Fluorometer Cleaned:	Y	N

Time	UTC	Local
Start (BE)	20:27	:
Bottom (BO)	:	:
End (EN)	20:44	:

Positional Information	
Lat: 53° 6.53	N
Lon: 130° 22.92	W

Start

Bottom

Finish

Lat: 53° 6.	N
Lon: .	W

Lat: 53° 6.51	N
Lon: 130° 22.95	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: HECS4 Event #: 89 Vessel: TULLY UTC Date (dd|mmm|yyyy): 23 | Aug 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)														Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TUC	DOC	CDOM	Flu	Phyto	HABs	eDNA	part		
1		242	6-5	✓ 96	✓	✓													
2		243	6-5	✓ 96			✓			✓	✓	✓	✓						
3		244	75	✓ 75	✓	✓													
4		245	50	✓ 50			✓			✓	✓	✓	✓						
5		246	50	✓ 50	✓	✓													
6		247	30	✓ 30	✓	✓													
7		248	20	✓ 20	✓✓	✓		✓✓											
8		249	10	✓ 10	✓	✓		✓✓											
9		250	5	✓ 5	✓	✓✓													
10		251	0	✓ 2			✓			✓	✓	✓	✓						
11		252	0	✓ 2	✓	✓		✓✓						LF	✓	✓✓			
12		253	0	✓ 2													✓✓✓		
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SP

Bottom Depth: 100 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	03:48	20:48
Bottom (BO)	03:50	20:50
End (EN)	03:59	20:59

Positional Information

Start	Bottom	Finish
Lat: <u>53° 48.340</u> N	Lat: <u>53° 48.350</u> N	Lat: <u>53° 48.380</u> N
Lon: <u>130° 49.460</u> W	Lon: <u>130° 49.420</u> W	Lon: <u>130° 49.400</u> W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Added 5m bottle

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: HECS7 Event #: 92 Vessel: Tully UTC Date (dd|mmm|yyyy): 23 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH4	DOC	DOC	CDOM	818			
1		254	10-5			✓			✓✓							
2		255	10-5				✓		✓	✓	✓	✓	✓			
3		256	7-5			✓			✓✓							
4		257	50				✓		✓	✓	✓	✓	✓			
5		258	50			✓			✓✓							
6		259	30			✓✓			✓✓							
7		260	20			✓			✓✓							
8		261	10			✓			✓✓							
9		262	5			✓			✓✓							
10		263	0				✓		✓	✓✓	✓✓	✓✓	✓✓			
11		264	0			✓			✓✓							
12		265	0												xxx	
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 12.0 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>07:23</u>	<u>00:23</u>
Bottom (BO)	<u>07:28</u>	:
End (EN)	<u>07:44</u>	:

Positional Information
 Lat: 54° 13.660 N
 Lon: 131° 2.200 W

▼
 Lat: 54° 13.640 N
 Lon: 131° 2.300 W

▼
 Lat: 54° 13.540 N
 Lon: 131° 2.510 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

108 m

NH₄

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: HECS8Event #: 93Vessel: TullyUTC Date (dd|mmm|yyyy): 23 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)														Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄	TOC	DOC	CDOM	S18	phyto	HABS				
1		266	b-5			✓	✓		✓✓										
2		267	b-5			—	✓			✓	✓	✓	✓						
3		268	75			✓	✓		✓✓										
4		269	50			—	✓			✓	✓	✓✓	✓						
5		270	50			✓	✓		✓✓										
6		271	30			✓✓	✓		✓✓										
7		272	20			✓	✓	✓✓	✓✓										
8		273	10			✓	✓	✓✓	✓✓										
9		274	5			✓	✓		✓✓										
10		275	0			—	✓			✓✓	✓✓	✓✓	✓✓						
11		276	0			✓	✓	✓✓	✓✓					LF	✓				
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 117 m
 Transmisso Cleaned: (Y) N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>09:10</u>	<u>02:10</u>
Bottom (BO)	<u>09:12</u>	:
End (EN)	<u>09:23</u>	:

Positional Information

Lat:	<u>54° 23.160</u>	N
Lon:	<u>131° 05.400</u>	W

Start

Bottom

Finish

Lat: 54° 23.160 N
 Lon: 131° 5.410 W

Lat: 54° 23.180 N
 Lon: 131° 5.450 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

160m

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: DIX1 Event #: 94 Vessel: Tully UTC Date (dd|mmm|yyyy): 23 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a								
1		277	6-5	262		✓		✓✓								
2		278	150			✓		✓✓								
3		279	100			✓		✓✓								
4		280	75			✓		✓✓								
5		281	50			✓		✓✓								
6		282	30			✓✓		✓✓								
7		283	20			✓		✓✓								
8		284	10			✓		✓✓								
9		285	0			✓		✓✓								
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:
Ros (default) | TrMetlRos | X-Niskin

Watchkeeper(s):
SR

Bottom Depth: 265 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	11 : 00	04 : 00
Bottom (BO)	11 : 05	:
End (EN)	11 : 19	:

Positional Information

Start

Lat: 54° 25 . 660 N

Lon: 131° 30 . 910 W

Bottom

Lat: 54° 25 . 670 N

Lon: 131° 30 . 920 W

Finish

Lat: 54° 25 . 660 N

Lon: 131° 30 . 980 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: Chat 2 Event #: 96 Vessel: TULLY UTC Date (dd|mmm|yyyy): 23 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH4	TOC	DOC	Si8	CDOM	Phyto	HAB	EDNA	Prot	DIC/ALK
1		286	0-5	188	✓	✓			✓									
2		287	0-5	188	✓	✓	✓		✓	✓	✓	✓	✓					
3		288	150	151	✓	✓			✓									
4		289	100	100	✓	✓			✓									
5		290	75	75	✓	✓			✓									
6		291	50	50	✓	✓	✓			✓	✓	✓	✓					
7		292	50	50	✓	✓			✓								✓	
8		293	30	30	✓	✓			✓								✓	
9		294	20	20	✓	✓		✓	✓									
10		295	10	10	✓	✓		✓	✓									
11		296	5	4.5	✓	✓			✓									
12		297	0	2	✓	✓	✓		✓	✓	✓	✓	✓					
13		298	0	2	✓	✓		✓	✓					LF	✓	✓		
14		299	0	2	✓	✓											✓	
15																	✓	
16		300	40	40													✓	
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
CH

Bottom Depth: 191 m
Transmissometer Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>15:09</u>	:
Bottom (BO)	<u>15:12</u>	:
End (EN)	<u>15:28</u>	:

Positional Information

Lat:	<u>54° 16.00</u>	N
Lon:	<u>130° 46.78</u>	W

Start

Lat:	<u>54° 16.00</u>	N
Lon:	<u>130° 46.77</u>	W

Bottom

Lat:	<u>54° 16.02</u>	N
Lon:	<u>130° 46.75</u>	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)
Note out of sequence bottle

DIC/ALK added @ 40m out of sequence. - gave it a sample # within existing sequence

112 SUPER SUPER

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 208-25 Station: Chatl Event #: 99 Vessel: Tully UTC Date (dd|mmm|yyyy): 23 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH4	TOC	DOC	SIB	CDOM	PHYTO	HAAS	COND	PAR	
1		301	6-5	125	✓	✓			✓✓	✓	✓	✓	✓					
2		302	6-5	125			✓			✓	✓	✓	✓					
3		303	6-5	125														✓✓✓
4		304	75	75	✓	✓			✓✓									
5		305	75	75			✓			✓	✓	✓	✓					
6		306	50	50	✓	✓			✓✓									
7		307	50	50			✓			✓	✓	✓	✓					
8		308	50	50														✓✓✓
9		309	30	30	✓	✓			✓✓									
10		310	30	30			✓			✓	✓	✓	✓					
11		311	20	20	✓	✓		✓	✓✓									
12		312	20	20			✓		✓✓	✓	✓	✓	✓					
13		313	10	10	✓	✓		✓										
14		314	10	10			✓	✓		✓	✓	✓	✓					
15		315	5	5	✓	✓✓			✓✓									failed vent not tight
16		316	5	5			✓			✓	✓	✓	✓					
17		317	0	2	✓	✓		✓✓	✓✓					GLF	✓	✓✓		
18		318	0	2			✓		✓✓	✓✓	✓✓	✓✓	✓✓					
19		319	0	2														✓✓✓
20																		
21																		
22																		
23																		
24																		

x3
x2
x3
x2
x2
x2
x2
x3

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
CH

Bottom Depth: 128 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	19:44	:
Bottom (BO)	19:48	:
End (EN)	19:59	:

Positional Information

Lat:	54 ° 12 . 11	N
Lon:	130 ° 26 . 86	W

▼

Lat:	54 ° 12 . 06	N
Lon:	54 ° 26 . 80	W

▼

Lat:	54 ° 12 . 04	N
Lon:	130 ° 26 . 91	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

NOTS

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: CH18 Event #: 101 Vessel: TULLY UTC Date (dd|mmm|yyyy): 23 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a										
1		320	6-5	✓ 35		✓												
2		321	30	✓ 30.2		✓												
3		322	20	✓ 19.82		✓												
4		323	10	✓ 10.1		✓												
5		324	5	✓ 5.1		✓												
6		325	0	✓ 2.32		✓												
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
CD/L11

Bottom Depth: 40 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>22:28</u>	:
Bottom (BO)	<u>22:30</u>	:
End (EN)	<u>22:37</u>	:

Positional Information

Lat:	<u>54° 16.34</u>	N
Lon:	<u>130° 29.15</u>	W

Start

▼

Lat:	<u>° 16.33</u>	N
Lon:	<u>° 29.15</u>	W

Bottom

▼

Lat:	<u>° 16.33</u>	N
Lon:	<u>° 29.18</u>	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

MINI - NO DO

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25

Station: CH19

Event #: 102

Vessel: Tully

UTC Date (dd|mmm|yyyy): 23 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)														Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH4	TOC	DOC	Sr	CDOM	ph	HABs	edna	part		
1		326	6-5	73		✓			✓										
2		327	6-5	73		—	✓			✓	✓	—	✓						
3		328	30	30		✓			✓										
4		329	20	20		—	✓				✓	✓	—	—					
5		330	20	20		✓			✓	✓									
6		331	10	10		✓			✓	✓									
7		332	5	5		✓			✓										
8		333	0			—	✓			✓	✓	✓	✓	✓	✓	LF	✓	✓	
9		334	0			✓			✓	✓									
10		335	0			—————													xxx
11		336	7																
12			7																
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
CH, ST, OS, L?

Bottom Depth: 77 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 23:12 :
Bottom (BO) 23:14 :
End (EN) 23:25 :

Positional Information
Start
Lat: 54° 15.21 N
Lon: 130° 35.57 W
Bottom
Lat: ° 15.24 N
Lon: ° 35.57 W
Finish
Lat: ° 15.24 N
Lon: ° 35.57 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

336? why added? what was taken?

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25

Station: CH22

Event #: 103

Vessel: Tully

UTC Date (dd|mmm|yyyy): 24|08|2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		336	6-5	123		✓												See
2		337	75	75		✓												log book
3		338	50	50		✓												Comment
4		339	30	30		✓												
5		340	20	20		✓												
6		341	10	10		✓												
7		342	5	5		✓												
8		343	0	2		✓												
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
 CH, JS

Bottom Depth: 125 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N
 Time UTC Local
 Start (BE) 00:50 :
 Bottom (BO) 00:52 :
 End (EN) 01:01 :

Positional Information
 Start
 Lat: 54° 10 . 01 N
 Lon: 130° 34 . 93 W
 Bottom
 Lat: 54° 10 . 01 N
 Lon: 130° 34 . 93 W
 Finish
 Lat: 54° 10 . 01 N
 Lon: 130° 34 . 91 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: CH20 Event #: 104 Vessel: Tully UTC Date (dd|mmm|yyyy): 24 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a									
1		345	6.5	150		✓											Same depth
2		346	150	150		✓											
3		347	100	100		✓											
4		348	75	75		✓											
5		349	50	50		✓											
6		350	30	30		✓											
7		351	20	20		✓											
8		352	10	10		✓											
9		353	5	5		✓											CH forgot to fix surface bottle
10		354	0	2													
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
CH, CC

Bottom Depth: 154 m

Transmissio Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>01:51</u>	:
Bottom (BO)	<u>01:58</u>	:
End (EN)	<u>02:06</u>	:

Positional Information

Start
 Lat: 54° 13.51 N
 Lon: 130° 43.88 W

Bottom
 Lat: 54° 13.52 N
 Lon: ° 43.87 W

Finish
 Lat: ° 13.55 N
 Lon: ° 43.82 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

1886

Cruise ID: 2018-25 Station: CH21 Event #: 105 Vessel: Tully UTC Date (dd|mmm|yyyy): 24 | Aug | 2018

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Positional Information

Lat:	54° 12.000
Lon:	130° 39.260

Finish	Lat: 54° 11.220
	Lon: 130° 39.

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: CH24 Event #: 106 Vessel: Tully UTC Date (dd|mmm|yyyy): 24|Aug|2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		369	b-5	88		✓												
2		370	30			✓												
3		371	20			✓												
4		372	10			✓												
5		373	5			✓												
6		374	0			✓												
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
502

Bottom Depth: 91 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	03:38	20:38
Bottom (BO)	03:41	:
End (EN)	03:47	:

Positional Information

Lat:	54° 7.630	N
Lon:	130° 34.100	W

Start

▼

Lat:	54° 7.630	N
Lon:	130° 34.110	W

Bottom

▼

Lat:	54° 7.600	N
Lon:	130° 34.100	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

325

100

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: CH25 Event #: 107 Vessel: Tully UTC Date (dd|mmm|yyyy): 24|Aug|2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH4	TOC	DOC	CDOM	Fluor	Temp	Pressure	Depth	
1		375	12.5			✓			✓✓								
2		376	12.5			✓	✓		✓	✓	✓	✓	✓				
3		377	7.5			✓			✓✓								
4		378	5.0			✓	✓		✓	✓	✓	✓	✓				
5		379	5.0			✓			✓✓								
6		380	3.0			✓			✓✓								
7		381	2.0			✓		✓	✓✓								
8		382	1.0			✓✓		✓	✓✓								
9		383	5			✓			✓✓								
10		384	0			✓	✓		✓✓	✓	✓	✓	✓				
11		385	0			✓		✓✓	✓✓								
12		386	0														✓✓
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 116 m
Transmissio Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 04:28 :
Bottom (BO) 04:32 :
End (EN) 04:41 :

Positional Information
Start
Lat: 54° 8.840 N
Lon: 130° 26.210 W
Bottom
Lat: 54° 8.840 N
Lon: 130° 26.190 W
Finish
Lat: 54° 8.840 N
Lon: 130° 26.170 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: CH23 Event #: 108 Vessel: Tully UTC Date (dd|mmm|yyyy): 24 | Aug | 2018

[illegible]

Profile type:	Ros (default) TrMetlRos X-Niskin
Watchkeeper(s):	SR

Bottom Depth: <u>102</u> m		
Transmisso Cleaned: <u>Y</u> / N		
Fluorometer Cleaned: Y / N		
<i>Time</i>	<i>UTC</i>	<i>Local</i>
Start (BE)	05:11	22:11
Bottom (BO)	05:14	:
End (EN)	05:22	:

Positional Information

Start	Lat: $54^{\circ} 11.440$ N
	Lon: $130^{\circ} 23.450$ W

▼

Bottom	Lat: $54^{\circ} 11.450$ N
	Lon: $130^{\circ} 23.450$ W

▼

Finish	Lat: $54^{\circ} 11.470$ N
	Lon: $130^{\circ} 23.370$ W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

214

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: PR14R74 Event #: 109 Vessel: Tully UTC Date (dd|mmm|yyyy): 24 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH4	TOC	DOC	CDOM	S18	pyto	CDM	HAAS	part	
1		394	b-5			✓			✓									
2		395	b-5			✓	✓			✓	✓	✓	✓					
3		396	280			✓			✓									
4		397	450			✓			✓									
5		398	100			✓			✓									
6		399	75			✓			✓									
7		400	50			✓	✓			✓	✓	✓	✓					
8		401	25			✓			✓									
9		402	30			✓			✓									
10		403	20			✓		✓	✓									
11		404	10			✓		✓	✓									
12		405	5			✓			✓									
13		406	0			✓		✓	✓					LF	✓	✓		
14		407	0			✓	✓			✓	✓	✓	✓					
15		408	0			✓	✓			✓	✓	✓	✓				✓	
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 40 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 05:55 22:55
Bottom (BO) 05:56 :
End (EN) 06:02 :

Positional Information
Start
Lat: 54° 13.570 N
Lon: 130° 21.070 W
Bottom
Lat: 54° 13.580 N
Lon: 130° 21.060 W
Finish
Lat: 54° 13.590 N
Lon: 130° 21.034 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: CH26 Event #: 110 Vessel: Tully UTC Date (dd|mmm|yyyy): 29|AUG|2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		409	6-5	✓ 60		✓												
2		410	50	✓ 50		✓												
3		411	30	✓ 30		✓												
4		412	20	✓ 20		✓												
5		413	10	✓ 10		✓												
6		414	5	5		✓												
7		415	0															
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SP

Bottom Depth: 64.5 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>06:44</u>	<u>23:44</u>
Bottom (BO)	<u>06:48</u>	<u>23:48</u>
End (EN)	<u>06:56</u>	<u>23:56</u>

Positional Information

Start	Lat: <u>54° 8.780</u> N
	Lon: <u>130° 21.420</u> W
Bottom	Lat: <u>54° 8.800</u> N
	Lon: <u>130° 21.350</u> W
Finish	Lat: <u>54° 8.830</u> N
	Lon: <u>130° 21.270</u> W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: CH27 Event #: 111 Vessel: Tully UTC Date (dd|mmm|yyyy): 24 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH4	TOC	DOC	SIB	CDOM	Phy to	U485			
1		416	b-5	43		✓			✓									
2		417	b-5	43		✓				✓	✓	✓	✓					
3		418	30			✓			✓									
4		419	20			✓			✓									
5		420	20			✓	✓	✓		✓	✓	✓	✓					
6		421	10			✓		✓	✓									
7		422	5			✓			✓									
8		423	0			✓		✓	✓	✓	✓	✓	✓					
9		424	0			✓			✓					LF	✓			
10		425	0														✓	
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 48 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 07:38 00:38
Bottom (BO) 07:39 :
End (EN) 07:45 :

Positional Information
Start Lat: 54° 6.530 N
Lon: 130° 16.290 W
Bottom Lat: 54° 6.530 N
Lon: 130° 16.300 W
Finish Lat: 54° 6.520 N
Lon: 130° 16.310 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25

Station: CH31

Event #: 112

Vessel: Tully

UTC Date (dd|mmm|yyyy): 24 Aug 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		426	10-5			✓												point
2		427	50			✓												
3		428	30			✓												
4		429	20			✓												
5		430	10			✓												
6		431	5			✓												
7		432	0			✓												
8		433	0															w
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 91 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N
 Time UTC Local
 Start (BE) 08:35 01:35
 Bottom (BO) 08:37 :
 End (EN) 08:46 :

Positional Information
 Start
 Lat: 54° 1.830 N
 Lon: 130° 14.040 W

Bottom
 Lat: 54° 1.840 N
 Lon: 130° 14.040 W

Finish
 Lat: 54° 1.840 N
 Lon: 130° 14.060 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

207

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: OGCH46 Event #: 113 Vessel: Tully UTC Date (dd|mmm|yyyy): 24 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		448	65	✓ 147		✓												
2		449	150	✓		✓												max depth
3		450	100			✓												147 m
4		451	75			✓												
5		452	50			✓												
6		453	30			✓												
7		454	20			✓												
8		455	10			✓												
9		456	5			✓												
10		457	0			✓												
11		458	0															
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: _____ m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 10:03 03:03
Bottom (BO) 10:06 :
End (EN) 10:17 :

Positional Information
Start Lat: 53° 55.430 N
Lon: 130° 13.100 W
▼
Bottom Lat: 53° 55.430 N
Lon: 130° 13.110 W
▼
Finish Lat: 53° 55.430 N
Lon: 130° 13.140 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: 05CH50 Event #: 114 Vessel: Tully UTC Date (dd|mmm|yyyy): 24|aug|2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		457	10-5	124		✓												
2		460	450			✓												
3		461	100			✓												
4		462	75			✓												
5		463	50			✓												
6		464	30			✓												
7		465	20			✓												
8		466	10			✓												
9		467	5			✓												
10		468	0			✓												
11		469	0															
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 128 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	10:55	03:55
Bottom (BO)	10:58	:
End (EN)	11:09	:

Positional Information

Start	Lat: <u>53°59.320</u> N
	Lon: <u>130°12.560</u> W

Bottom

	Lat: <u>53°59.310</u> N
	Lon: <u>130°12.560</u> W

Finish

	Lat: <u>53°59.300</u> N
	Lon: <u>130°12.600</u> W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

209

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: MP55 Event #: 115 Vessel: Tully UTC Date (dd|mmm|yyyy): 24 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH4	TOC	DOC	CDOM	818			
1		434	65	103		✓		✓								
2		435	55	103		✓		✓								
3		436	45			✓		✓								
4		437	40			✓		✓								
5		438	75			✓		✓								
6		439	50			✓		✓								
7		440	50			✓		✓								
8		441	30			✓		✓								
9		442	20			✓		✓								
10		443	10			✓		✓								
11		444	5			✓		✓								
12		445	0			✓		✓		✓	✓	✓	✓			
13		446	0			✓		✓								
14		447	0												✓	
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

NOT
TAKEN

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 107 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 11:57 04:57
Bottom (BO) 12:00 :
End (EN) 12:11 :

Positional Information
Start
Lat: 54° 4.190 N
Lon: 130° 16.090 W

Bottom
Lat: 54° 4.190 N
Lon: 130° 16.090 W

Finish
Lat: 54° 4.200 N
Lon: 130° 16.080 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)
Deck pressure
0.08-0.10 dno

All Niskin bottles
washed at sea
- except for
446

211

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: C428 Event #: 116 Vessel: Tully UTC Date (dd|mmm|yyyy): 24 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a									
1		470	6-5	65		✓											
2		471	150														
3		472	100														
4		473	75														
5		474	50			✓											
6		475	30			✓											
7		476	20			✓											
8		477	10			✓											
9		478	5			✓											
10		479	0			✓											
11		480	0														
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 69 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	13:48	06:48
Bottom (BO)	13:50	:
End (EN)	13:57	:

Positional Information
Start
Lat: 54° 7.220 N
Lon: 130° 18.350 W

Bottom
Lat: 54° 7.211 N
Lon: 130° 18.350 W

Finish
Lat: 54° 7.183 N
Lon: 130° 18.366 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

2,3,4 not tripped

115

super mini, NO DO

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25

Station: CH8

Event #: 121

Vessel: Tully

UTC Date (dd|mmm|yyyy): 24 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	PHYC	TOC	DOC	CDOM	818	phyto	WAB	edNA	part	
1		481	6-5	141		✓			✓									CDOM F
2		482	6-5	141		✓			✓	✓	✓	✓	✓					✓
3		483	100	100		✓			✓									
4		484	75	75		✓			✓									
5		485	50	50		✓			✓									
6		486	50	50		✓			✓	✓	✓	✓	✓					✓
7		487	30	30		✓			✓									
8		488	20	20		✓		✓	✓									
9		489	10	10		✓		✓	✓									
10		490	5	5		✓		✓	✓									
11		491	0	1.7		✓		✓	✓									
12		492	0	1.7		✓			✓	✓	✓	✓	✓	LF	✓	✓		✓
13		493	0	1.7													✓	
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
CH, CW,

Bottom Depth: 145 m
Transmissio Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	19:51	:
Bottom (BO)	19:55	:
End (EN)	20:06	:

Positional Information

Start	Lat: 53° 31.21' N
	Lon: 130° 34.87' W

Bottom

Lat: ° 31.20' N
Lon: ° 34.90' W

Finish

Lat: ° 31.20' N
Lon: ° 34.95' W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

CANCELLED

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25

Station: CH7

Event #: 125 & 125B

Vessel: Tully

UTC Date (dd|mmm|yyyy): 24 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		494	6-5	92		✓												
2		495	75	15		✓												
3		496	50	50		✓												
4		497	30	30		✓												
5		498	20	20		✓												
6		499	10	10		✓												
7		500	5			✓												
8		501	0			✓												
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
DS

Bottom Depth: 95 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>21:19</u>	:
Bottom (BO)	<u>21:22</u>	:
End (EN)	<u>21:30</u>	:

Positional Information

Lat:	<u>54° 31' .600</u>	N
Lon:	<u>130° 30' .850</u>	W

Start

Lat:	°	.	N
Lon:	°	.	W

Bottom

Lat:	°	.	N
Lon:	°	.	W

Finish

Lat:	°	.	N
Lon:	°	.	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25

Station: CH6

Event #: 126

Vessel: _____

UTC Date (dd|mmm|yyyy): 24 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		502	6-5	240		✓												
2		503	250	240		✓												
3		504	200	200		✓												
4		505	150	150		✓												
5		506	100	100		✓												
6		507	75	75		✓												
7		508	50	50		✓												
8		509	30	30		✓												
9		510	20	20		✓												
10		511	10	10		✓												
11		512	5	5		✓												
12		513	0	163		✓												
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):

Bottom Depth: 245 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start (BE)	<u>22:07</u>	:
Bottom (BO)	<u>22:12</u>	:
End (EN)	<u>22:27</u>	:

Positional Information

Lat:	<u>54° 34' 8.00</u>	N
Lon:	<u>130° 31' 9.00</u>	W

Start

Bottom

Finish

Lat:	°	.	N
Lon:	°	.	W

Lat:	°	.	N
Lon:	°	.	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

70 CH11 Mini super

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: CH11 Event #: 127 Vessel: Tully UTC Date (dd|mmm|yyyy): 24 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH4	TOC	DIC	CDOM	810	ph	HAAS	CDNA	part	
1		514	6-5	118		✓			✓									
2		515	6-5	118		✓			✓									✓
3		516	50	50		✓			✓									
4		517	50	50		✓			✓									✓
5		518	30	30		✓			✓									
6		519	20	20		✓		✓	✓									
7		520	10	10		✓		✓	✓									
8		521	5	5		✓		✓	✓									
9		522	0	1.7		✓		✓	✓					LFG	✓	✓		
10		523	0	1		✓			✓	✓	✓	✓	✓	✓				✓
11		524	0	1													✓	
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
DS/CC

Bottom Depth: 123 m
Transmisso Cleaned: (Y) / N
Fluorometer Cleaned: (Y) / N
Time UTC Local
Start (BE) 23:10 :
Bottom (BO) : :
End (EN) 23:23 :

Positional Information
Start Lat: 54° 29.946 N
Lon: 130° 33.600 W
Bottom Lat: . . N
Lon: . . W
Finish Lat: . . N
Lon: . . W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

110

CH12 MINI SUPR - NO DO

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: CH12 Event #: 128 Vessel: Tully UTC Date (dd|mmm|yyyy): 25 | Aug | 2013

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments				
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH4	TOC	DOC	CDOM	818						
1		525	6-5	142		✓			✓										
2		526	6-5	142		✓			✓	✓	✓	✓							
3		527	100	100		✓			✓										
4		528	75	75		✓			✓										
5		529	50	50		✓			✓										
6		530	50	50		✓	✓		✓	✓	✓	✓							
7		531	30	29.99		✓			✓										
8		532	20	20		✓		✓	✓										
9		533	10	10		✓		✓	✓										
10		534	5	5.4		✓		✓	✓										
11		535	0	1.7		✓		✓	✓										
12		536	0	1.7		✓		✓	✓	✓	✓	✓							
13		537	0														xxx		
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Sample B spilled

CANCELLED

Chl a Bot 11 B spilled

Profile type:
Ros (default) | TrMetRos | X-Niskin
Watchkeeper(s):
LP

Bottom Depth: 142 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	00:50	17:50
Bottom (BO)	00:57	:
End (EN)	01:08	:

Positional Information

Lat:	54 ° 23 . 68	N
Lon:	130 ° 33 . 96	W

Start

▼

Lat:	54 ° 23 . 67	N
Lon:	130 ° 33 . 95	W

Bottom

▼

Lat:	54 ° 23 . 690	N
Lon:	130 ° 33 . 980	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Sample B spilled
CANCELLED

Chl a Bot 11 B spilled

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 7018-25 Station: CH17 Event #: 129 Vessel: Tully UTC Date (dd|mmm|yyyy): 25 | Aug | 2013

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		538	65	83		✓												
2		539	50	50		✓												
3		540	30	30		✓												
4		541	20	20		✓												
5		542	10	10		✓												
6		543	5	5		✓												
7		544	0															
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
LP

Bottom Depth: 88 m
 Transmissio Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	01:41	18:41
Bottom (BO)	01:45	:
End (EN)	01:53	:

Positional Information

Lat:	54°20'510	N
Lon:	130°33'280	W

Start

▼

Lat:	54°20'520	N
Lon:	130°33'280	W

Bottom

▼

Lat:	54°20'520	N
Lon:	130°33'210	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-025

Station: CH16

Event #: 130

Vessel: Tully

UTC Date (dd|mmm|yyyy): 25|Aug|2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)														Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	TOC	DON	815	CDOM	PLN	HAB	eDNA	NH ₄	Par		
1		545	0-5	✓ 214		✓													
2		546	0-5	✓ 214		✓	✓		✓	✓	✓	✓						✓	
3		547	30			✓										✓✓			
4		548	20			✓		✓✓											
5		549	10			✓✓		✓✓								✓✓			
6		550	5			✓													
7		551	0			✓		✓✓					LF	✓	✓✓	✓✓			
8		552	0			✓	✓		✓✓	✓✓	✓✓	✓✓						✓✓	
9		553	0																
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
 Ros (default) | TrMetRos | X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 218 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N
 Time UTC Local
 Start (BE) 02:29 :
 Bottom (BO) 02:35 :
 End (EN) 02:44 :

Positional Information
 Start
 Lat: 54° 19.880 N
 Lon: 130° 37.270 W
 Bottom
 Lat: 54° 19.890 N
 Lon: 130° 37.220 W
 Finish
 Lat: 54° 19.900 N
 Lon: 130° 37.150 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: CH15 Event #: 131 Vessel: Tully UTC Date (dd|mmm|yyyy): 25 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a										
1		554	6-5	✓	190		✓											
2		555	100				✓											
3		556	75				✓											
4		557	50				✓											
5		558	30				✓											
6		559	20				✓											
7		560	10				✓											
8		561	5				✓											
9		562	0				✓											
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 191 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>03:25</u>	<u>20:22</u>
Bottom (BO)	<u>03:31</u>	:
End (EN)	<u>03:44</u>	:

Positional Information
 Lat: 54° 18.420 N
 Lon: 130° 42.480 W

▼
 Lat: 54° 18.430 N
 Lon: 130° 42.370 W

▼
 Lat: 54° 18.450 N
 Lon: 130° 42.240 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: Station: CH14 Event #: 132 Vessel: Tully UTC Date (dd|mmm|yyyy): 25 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		DOC	DOC	818	CDOM	PHYTO	HAP23	CDPA	part	
1		563	10-5			✓				✓	✓	✓	✓					
2		564	10-5			✓	✓			✓	✓	✓	✓					
3		565	100			✓												
4		566	75			✓												
5		567	50			✓												
6		568	50			✓	✓			✓	✓	✓	✓					
7		569	30			✓												
8		570	20			✓		✓										
9		571	10			✓		✓										
10		572	5			✓												
11		573	0			✓		✓										
12		574	0			✓	✓			✓	✓	✓	✓	✓	✓	✓		
13		575	0														xxx	
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetIRos | X-Niskin
Watchkeeper(s):
802

Bottom Depth: 128 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	04:26	21:26
Bottom (BO)	04:28	:
End (EN)	04:40	:

Positional Information
Start
Lat: 54° 20.610 N
Lon: 130° 49.670 W

Bottom
Lat: 54° 20.600 N
Lon: 130° 49.640 W

Finish
Lat: 54° 20.580 N
Lon: 130° 49.530 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: Station: CH13 Event #: 133 Vessel: Tully UTC Date (dd|mmm|yyyy): 25 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a										
1		576	6-5			✓												
2		577	100			✓												
3		578	75			✓												
4		579	50			✓												
5		580	30			✓												
6		581	20			✓												
7		582	10			✓												
8		583	5			✓												
9		584	0			✓												
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 161 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	05:44	:
Bottom (BO)	05:49	:
End (EN)	06:00	:

Positional Information
Start
Lat: 54° 23.100 N
Lon: 130° 39.010 W

Bottom
Lat: 54° 23.110 N
Lon: 130° 38.940 W

Finish
Lat: 54° 23.130 N
Lon: 130° 38.770 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-025 Station: CH10 Event #: 2134 Vessel: Tully UTC Date (dd|mmm|yyyy): 25 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a										
1		585	6-5	✓ 81		✓												
2		586	75	✓		✓												
3		587	50	✓		✓												
4		588	30	✓		✓												
5		589	20	✓		✓												
6		590	10	✓		✓												
7		591	5	✓		✓												
8		592	0	✓		✓												
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 86 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 06:34 :
Bottom (BO) 06:36 :
End (EN) 06:44 :

Positional Information
Start Lat: 54° 26.810 N
Lon: 130° 39.250 W
▼
Bottom Lat: 54° 26.820 N
Lon: 130° 39.250 W
▼
Finish Lat: 54° 26.830 N
Lon: 130° 39.250 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-025 Station: CH4 Event #: 135 Vessel: Tully UTC Date (dd|mmm|yyyy): 25 | aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a										
1		593	10-5			✓												
2		594	75			✓												
3		595	50			✓												
4		596	30			✓												
5		597	20			✓												
6		598	10			✓												
7		599	5			✓												
8		600	0			✓												
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetIRos | X-Niskin
Watchkeeper(s):
8R

Bottom Depth: 88 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	07:42	00:42
Bottom (BO)	07:44	:
End (EN)	:	:

Positional Information
Start
Lat: 54° 32.450 N
Lon: 130° 43.450 W

Bottom
Lat: 54° 32.430 N
Lon: 130° 43.420 W

Finish
Lat: 54° 32. N
Lon: 130° 43. W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-025 Station: CH5 Event #: 136 Vessel: Tully UTC Date (dd|mmm|yyyy): 25|aug|2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH4	TOC	DOC	CDOM	818					
1		601	6-5	✓ 143	}	✓												
2		602	6-5	✓ 143		✓					✓	✓	✓	✓				
3		603	100			✓												
4		604	75			✓												
5		605	50			✓												
6		606	50			✓		✓			✓	✓	✓	✓				
7		607	30			✓				✓✓								
8		608	20			✓✓			✓✓	✓✓								
9		609	10			✓			✓✓	✓✓								
10		610	5			✓												
11		611	0			✓			✓✓	✓✓								
12		612	0			✓		✓			✓✓	✓✓	✓✓	✓✓				
13		613	0			-----												vvv
14																	BOTTLES 12:13	
15																	not tipped	
16																	- NO particles	
17																	- TOC/DOC/CDOM	
18																	- OIB/sal	
19																	taken from	
20																	bottle 11	
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SR2

Bottom Depth: 146 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	08:23	01:23
Bottom (BO)	08:26	:
End (EN)	08:37	:

Positional Information

Lat:	54° 33.730	N
Lon:	130° 37.560	W

Start

Bottom

Finish

Lat:	54° 33.730	N
Lon:	130° 37.570	W

Lat:	54° 33.700	N
Lon:	130° 37.500	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: CH 2 Event #: 137 Vessel: Tully UTC Date (dd|mmm|yyyy): 25 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TOC	DOC	CDom	018					
1		614	6-5	334		✓												
2		615	6-5				✓			✓	✓	✓	✓					
3		616	300			✓												
4		617	250			✓												
5		618	200			✓												
6		619	150			✓												
7		620	100			✓												
8		621	75			✓												
9		622	50			✓												
10		623	50				✓			✓	✓	✓	✓					
11		624	30			✓												
12		625	20			✓		✓										
13		626	10			✓		✓										
14		627	5			✓												
15		628	0			✓		✓										
16		629	0				✓			✓	✓	✓	✓					
17		630	0														✓✓✓	
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
802

Bottom Depth: 332 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 09:29 02:29
Bottom (BO) 09:37 :
End (EN) 09:54 :

Positional Information
Start Lat: 54° 39.780 N
Lon: 130° 38.140 W
Bottom Lat: 54° 39.780 N
Lon: 130° 38.110 W
Finish Lat: 54° 39.760 N
Lon: 130° 38.100 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: CHI Event #: 138 Vessel: Tully UTC Date (dd|mmm|yyyy): 25 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TOC	DOC	CDom	018				Part.	
1		631	6-5	611		✓												
2		632	6-5	611			✓			✓	✓	✓	✓					
3		633	500			✓												
4		634	400			✓												
5		635	300			✓												
6		636	250			✓✓												
7		637	200			✓												
8		638	150			✓												
9		639	100			✓												
10		640	75			✓												
11		641	50			✓												
12		642	50				✓			✓	✓	✓	✓					
13		643	30			✓												
14		644	20			✓		✓										
15		645	10			✓		✓										
16		646	5			✓												
17		647	0			✓		✓✓										
18		648	0				✓	✓✓		✓✓	✓✓	✓✓	✓✓					
19		649	0														✓✓✓	
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetIRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 616 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 11:05 03:49
Bottom (BO) 11:15 :
End (EN) 11:40 :

Positional Information
Start Lat: 54° 41.747 N
Lon: 130° 27.203 W
Bottom Lat: 54° 41.762 N
Lon: 130° 27.205 W
Finish Lat: 54° 41.759 N
Lon: 130° 27.196 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: Port 5 Event #: 139 Vessel: _____ UTC Date (dd|mmm|yyyy): 25 | APR | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a										
1		650	6-5	✓ 470		✓												
2		651	400	✓ 400		✓												
3		652	300	✓ 300		✓												
4		653	250	✓ 250		✓												
5		654	200	✓ 200		✓												
6		655	150	✓ 150		✓												
7		656	100	✓ 100		✓												
8		657	75	✓ 75		✓												
9		658	50	✓ 50		✓												
10		659	30	✓ 30		✓												
11		660	20	✓ 20		✓												
12		661	10	✓ 10		✓												
13		662	5	✓ 5		✓												
14		663	0	✓ 1.7		✓												
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SP

Bottom Depth: 471 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>12 :40</u>	<u>05:40</u>
Bottom (BO)	<u>12 :48</u>	<u>05 :48</u>
End (EN)	<u>13 :08</u>	<u>06 :08</u>

Positional Information

Start	Lat: <u>54 °47 .510</u> N
	Lon: <u>130 °18 .310</u> W
Bottom	Lat: <u>54 °47 .500</u> N
	Lon: <u>130 °18 .330</u> W
Finish	Lat: <u>54 °47 .470</u> N
	Lon: <u>130 °18 .350</u> W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

~220 fath => 2400 -

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: PORTY Event #: 140 Vessel: Tully UTC Date (dd|mmm|yyyy): 25 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)														Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TOC	DOC	PO ₄	O ₂	H ₂ O	eDNA	LF	Pat		
1		664	6-5		394		✓												
2		665	6-5		394			✓		✓	✓		✓	✓					
3		666	300		300		✓												
4		667	250		250		✓												
5		668	200		200		✓												
6		669	150		150		✓												
7		670	100		100		✓												
8		671	75		75		✓												
9		672	50		50		✓												
10		673	50		50			✓		✓	✓		✓	✓					
11		674	30		30		✓												
12		675	20		20		✓		✓										
13		676	10		10		✓		✓										
14		677	5		5		✓												
15		678	0		1.4		✓		✓✓					✓	✓✓	LF			
16		679	0		1.4			✓		✓✓	✓✓		✓✓	✓✓					
17		680	0		1.4												✓✓✓		
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):

LP

Bottom Depth: 401 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	14:06	07:06
Bottom (BO)	14:15	:
End (EN)	14:36	:

Positional Information

Lat:	54° 53' . 610	N
Lon:	130° 10' . 700	W

▼

Lat:	54° 53' . 520	N
Lon:	130° 10' . 830	W

▼

Lat:	54° 53' . 510	N
Lon:	130° 11' . 140	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: PORT 3 Event #: 142 Vessel: Tully UTC Date (dd|mmm|yyyy): 25 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	Phyto									
1		681	6-5	273		✓												
2		682	250	250		✓												
3		683	200	200		✓												
4		684	150	150		✓												
5		685	100	100		✓												
6		686	75	75		✓												
7		687	50	50		✓✓												
8		688	30	30		✓												
9		689	20	20		✓												
10		690	10	10		✓												
11		691	5	5		✓												
12		692	0	1.5		✓			X									
13		693	0															✓✓✓
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
LP

Bottom Depth: 277 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 15:46 :
Bottom (BO) 15:53 :
End (EN) 16:08 :

Positional Information
Start
Lat: 54 ° 58 . 130 N
Lon: 130 ° 4 . 740 W
▼
Bottom
Lat: 54 ° 58 . 140 N
Lon: 130 ° 4 . 840 W
▼
Finish
Lat: 54 ° 58 . 150 N
Lon: 130 ° 4 . 820 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-025 Station: PORT1 Event #: 144 Vessel: Tully UTC Date (dd|mmm|yyyy): 25 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	edna									
1		694	6-5	47	✓													
2		695	20	20	✓													
3		696	10	10	✓													
4		697	5	5	✓													
5		698	0	2	✓			✓	✓									
6		699	0	2	✓												✓✓	
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
CC / CW

Bottom Depth: 51 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	17 : 24	10 : 24
Bottom (BO)	17 : 29	10 : 29
End (EN)	17 : 36	10 : 36

Positional Information

Start	Lat: 54 ° 58 . 550	N
	Lon: 130 ° 57 . 870	W

Bottom

Lat: 54 ° 58 . 560	N
Lon: 130 ° 57 . 860	W

Finish

Lat: 54 ° 58 . 560	N
Lon: 130 ° 57 . 870	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: AA8 Event #: 146 Vessel: Tully UTC Date (dd|mmm|yyyy): 25 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a								
1		700	10-5		284	✓	✓									
2		701	200		200	✓	✓									
3		702	150		150	✓	✓									
4		703	100		100	✓	✓									
5		704	75		75	✓	✓									
6		705	50		50	✓	✓									
7		706	30		30	✓	✓	✓								
8		707	20		20	✓	✓	✓								
9		708	10		10	✓	✓									
10		709	0			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
11						Oxy and nutrients not taken for bottle 10.										
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
4

Bottom Depth: 239 m
Transmisso Cleaned: (Y) / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	21:28	:
Bottom (BO)	21:34	:
End (EN)	21:49	:

Positional Information

Lat:	55° 25.780	N
Lon:	129° 40.310	W

Start

Bottom

Lat:	55° 25.730	N
Lon:	129° 40.270	W

Finish

Lat:	55° 25.740	N
Lon:	129° 40.280	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: Station: HA14 Event #: 151 Vessel: Tully UTC Date (dd|mmm|yyyy): 26 | 08 | 2013

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		710	6-5	175	✓	✓												
2		711	150	150	✓	✓												
3		712	100	100	✓	✓												
4		713	75	75	✓	✓												
5		714	50	50	✓	✓												
6		715	30	30	✓	✓		✓										
7		716	20	20	✓	✓		✓										
8		717	10	10	✓	✓		✓										
9		718	0		✓	✓		✓										
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
LP

Bottom Depth: 182 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	00:45	17:45
Bottom (BO)	00:50	:
End (EN)	01:01	:

Positional Information

Lat:	55° 23.890	N
Lon:	129° 42.820	W

▼

Lat:	55° 23.870	N
Lon:	129° 42.830	W

▼

Lat:	55° 23.780	N
Lon:	129° 42.920	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-025 Station: HAW14 Event #: 154 Vessel: Tully UTC Date (dd|mmm|yyyy): 25 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a										
1		719	65	✓ 170	✓	✓												
2		720	150	✓	✓	✓												
3		721	100	✓	✓	✓												
4		722	75	✓	✓	✓												
5		723	50	✓	✓	✓												
6		724	20	✓	✓	✓												
7		725	20	✓	✓			✓										
8		726	10	✓	✓			✓										
9		727	0	✓	✓			✓										bottle 9 tripped in event #155 as I forgot to m cast #154 SR
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 176 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	02:34	19:34
Bottom (BO)	02:38	:
End (EN)	02:50	:

Positional Information

Start	Lat: 55°23.420	N
	Lon: 129°45.770	W

Bottom

Lat: 55°23.410	N
Lon: 129°45.780	W

Finish

Lat: 55°23.400	N
Lon: 129°45.870	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: OI 20 Event #: 157 Vessel: Tully UTC Date (dd|mmm|yyyy): 26 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a									
1		728	6-5	✓ 492	✓	✓											
2		729	450	✓	✓	✓											
3		730	400	✓	✓	✓											
4		731	350	✓	✓	✓											
5		732	300	✓	✓	✓											
6		733	250	✓	✓	✓											
7		734	200	✓	✓	✓											
8		735	150	✓	✓	✓											
9		736	100	✓	✓	✓											
10		737	75	✓	✓	✓											
11		738	50	✓	✓	✓											
12		739	30	✓	✓	✓											
13		740	20	✓	✓	✓		✓									
14		741	10	✓	✓	✓		✓									
15		742	0	✓	✓	✓		✓	LF	✓							
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
Ros (default) | TrMetlRos | X-Niskin

Watchkeeper(s):
SR

Bottom Depth: 493 m

Transmisso Cleaned: Y N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	03:56	20:56
Bottom (BO)	04:05	:
End (EN)	04:28	:

Positional Information

Start

Lat: 55° 18.890 N

Lon: 129° 46.740 W

Bottom

Lat: 55° 18.890 N

Lon: 129° 46.760 W

Finish

Lat: 55° 18.890 N

Lon: 129° 46.640 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Mini
Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: Pearse 1 Event #: 161 Vessel: Tully UTC Date (dd|mmm|yyyy): 26 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TOC	DOC	518	CDOM	Phyto	LABS	CDOM	part	
1		743	6-5	✓ 226	}	✓												
2		744	6-5	✓ 226			✓			✓	✓	✓	✓				✓	
3		745	150	✓		✓												
4		746	100	✓		✓												
5		747	75	✓		✓												
6		748	50	✓			✓			✓	✓	✓	✓				✓	
7		749	50	✓		✓												
8		750	30	✓		✓												
9		751	20	✓		✓			✓									
10		752	10	✓		✓✓			✓									
11		753	5	✓		✓												
12		754	0	✓			✓											
13		755	0	✓		✓		✓✓		✓✓	✓✓	✓✓	✓✓	✓✓	LF	✓	✓✓	
14		756	0	✓														
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 230 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	09:52	02:52
Bottom (BO)	09:56	:
End (EN)	10:09	:

Positional Information

Start	Lat: 55° 3.780 N
	Lon: 130° 11.080 W

Bottom

Lat: 55° 3.780 N
Lon: 130° 11.090 W

Finish

Lat: 55° 3.790 N
Lon: 130° 11.120 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: Pearse 6 Event #: 168 Vessel: Tully UTC Date (dd|mmm|yyyy): 26 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		70C	DOC	CDOM	Si	CDOM	Phyto	HAB	Part	
1		757	65	186	}	✓												
2		758	65	186		✓	✓			✓	✓	✓	✓	✓				
3		759	150	150		✓												
4		760	100	100		✓												
5		761	75	75		✓												
6		762	50	50		✓	✓			✓	✓	✓	✓	✓				
7		763	50	50		✓✓												
8		764	30	30		✓												
9		765	20	20		✓			✓									
10		766	10	10		✓			✓									
11		767	5	5	✓													
12		768	0	1.5	✓	✓			✓✓	✓✓	✓✓	✓✓	✓✓					
13		769	0	1.5	✓			✓✓							LGF	✓		
14		770	0															✓✓✓
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
LP

Bottom Depth: 191 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>15:45</u>	:
Bottom (BO)	<u>15:49</u>	:
End (EN)	<u>16:01</u>	:

Positional Information

Lat:	<u>54 ° 46 . 930</u>	N
Lon:	<u>130 ° 37 . 070</u>	W

Start

Bottom

Lat:	<u>54 ° 46 . 940</u>	N
Lon:	<u>130 ° 37 . 070</u>	W

Bottom

Finish

Lat:	<u>54 ° 46 . 940</u>	N
Lon:	<u>130 ° 37 . 040</u>	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-025 Station: CH3 Event #: 173 Vessel: Tully UTC Date (dd|mmm|yyyy): 26 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a		DO	DOC	518	CDOM	CDOMF			part	
1		771	65	565		✓												
2		772	65	565		✓				✓	✓	✓	✓	✓				
3		773	400	400		✓												
4		774	350	350		✓												
5		775	300	300		✓												
6		776	250	250		✓												
7		777	200	200		✓												
8		778	150	150		✓												
9		779	100	100		✓												
10		780	50	50		✓				✓	✓	✓	✓	✓				
11		781	50	50		✓												
12		782	30	30		✓												
13		783	20	20		✓		✓										
14		784	10	10		✓		✓										
15		785	5	5		✓												
16		786	0	1.7		✓	✓			✓	✓	✓	✓	✓				
17		787	0	1.7		✓		✓										
18		788	0	1.7													✓	
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
CC, LP, SJ

Bottom Depth: 570 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	19:31	12:31
Bottom (BO)	19:44	12:44
End (EN)	20:07	13:07

Positional Information

Lat:	54 °41 .390	N
Lon:	130 °55 .480	W

Bottom

Lat:	54 °41 .380	N
Lon:	130 °55 .510	W

Finish

Lat:	54 °41 .400	N
Lon:	130 °55 .560	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Rosette Log

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

Cruise ID: 2018-25

Station: D1X3

Event #: 178

Ship: Tully

UTC Date (dd|mmm|yyyy): 27 Aug | 2018

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments		
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄	TDC	DOC	Si	CDOM	pH	Phyto	HAAS	CONF
1	789			6.5	✓ 357		✓											
2	790			6.5	✓ 356			✓			✓	✓	✓	✓				✓
3	791			200	✓		✓											
4	792			150	✓		✓											
5	793			100	✓		✓											
6	794			75	✓		✓											
7	795			50	✓ 51		✓✓											
8	796			50	✓ 51			✓			✓	✓	✓	✓				✓
9	797			30	✓		✓											
10	798			20	✓		✓		✓✓									
11	799			10	✓		✓		✓									
12	800			5	✓		✓											
13	801			0	✓		✓		✓		✓✓	✓✓	✓✓	✓✓				✓✓
14	802			0	✓			✓								LF	✓	
15	803			0	✓										✓✓✓			
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Watchkeeper(s): SR

Bottom Depth: 362 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0406	2106
Bottom	0413	
End	0437	

Positional Information

Start
Lat: 54 ° 28.710 N
Lon: 132 ° 17.900 W

Bottom
Lat: 54 ° 28.730 N
Lon: 132 ° 17.850 W

End
Lat: 54 ° 28.440 N
Lon: 132 ° 17.400 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: D1X2 Event #: 182 Vessel: Tully UTC Date (dd|mmm|yyyy): 27 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	TOC	DOC	SP	CDOM	phyc	HAB	count	part		
1		804	6-5	✓ 275	[wavy line]	✓												
2		805	6-5	✓ 275		✓	✓		✓	✓	✓	✓				✓		
3		806	200	✓		✓												
4		807	150	✓		✓												
5		808	100	✓		✓												
6		810	75	✓		✓												
7		811	50	✓		✓												
8		812	50	✓		✓	✓		✓	✓	✓	✓				✓		
9		813	30	✓		✓												
10		814	20	✓		✓			✓									
11		815	10	✓		✓			✓									
12		816	5	✓		✓			✓									
13		817	0	✓		✓			✓						LF	✓		
14		818	0	✓		✓	✓		✓	✓	✓	✓				✓		
15		819	0	✓														✓
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 280 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	10:31	03:31
Bottom (BO)	10:35	:
End (EN)	10:51	:

Positional Information

Lat:	54° 25.400	N
Lon:	131° 56.660	W

Start

▼

Lat:	54° 25.390	N
Lon:	131° 56.750	W

Bottom

▼

Lat:	54° 25.400	N
Lon:	131° 56.860	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25

Station: JPS4

Event #: 183

Vessel: JPTully

UTC Date (dd|mmm|yyyy): 28 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a								
1		821	65		✓	✓										
2		822	300		✓	✓										
3		823	250		✓	✓										
4		824	200		✓	✓										
5		825	150		✓	✓										
6		826	100		✓	✓										
7		827	75		✓	✓										
8		828	50		✓	✓										
9		829	30		✓	✓										
10		830	20		✓	✓		✓								
11		831	10		✓	✓		✓								
12		832	0		✓	✓		✓		LP	✓					
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: 286 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>05:11</u>	<u>22:11</u>
Bottom (BO)	<u>05:17</u>	:
End (EN)	<u>05:31</u>	:

Positional Information

Start	Lat: <u>52°30.900</u>	N
	Lon: <u>131°23.400</u>	W

Start

Bottom

Finish

Bottom	Lat: <u>52°30.870</u>	N
	Lon: <u>131°23.420</u>	W

Finish	Lat: <u>52°30.870</u>	N
	Lon: <u>131°23.460</u>	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: JPN1 Event #: 186 Vessel: Tully UTC Date (dd|mmm|yyyy): 28 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a									
1		844	surf						LFB	✓							
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 (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: _____ m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	07:37	00:37
Bottom (BO)	07:39	:
End (EN)	07:	:

Positional Information
Start
Lat: 52° 39.060 N
Lon: 131° 40.380 W

Bottom
Lat: 52° 39.040 N
Lon: 131° 40.380 W

Finish
Lat: 52° 39.060 N
Lon: 131° 40.380 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: JPN2 Event #: 1880 Vessel: Tully UTC Date (dd|mmm|yyyy): 28 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments		
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	phyp	WAB							
1		845	surf	✓	surf				LF	✓							
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 (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 124 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 08:36 01:36
Bottom (BO) 08:39 :
End (EN) 08:42 :

Positional Information
Start Lat: 52° 42.050 N
Lon: 131° 44.750 W
Bottom Lat: 52° 42.040 N
Lon: 131° 44.740 W
Finish Lat: 52° 42.040 N
Lon: 131° 44.740 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: JPN 3 Event #: 190 Vessel: Tully UTC Date (dd|mmm|yyyy): 28 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a		TOC	DOC	CDOM	SR	Phyto	HAAS			
1		833	6-5	✓ 148	✓	✓												
2		834	6-5	✓ 148	✓	✓	✓			✓	✓	✓	✓					
3		835	100	✓	✓	✓							✓					
4		836	75	✓	✓	✓							✓					
5		837	50	✓	✓	✓												
6		838	50	✓	✓	✓	✓			✓	✓	✓	✓					
7		839	30	✓	✓	✓							✓					
8		840	20	✓	✓	✓		✓					✓					
9		841	10	✓	✓	✓		✓					✓					
10		842	0	✓	✓	✓	✓			✓	✓	✓	✓					
11		843	0	✓	✓	✓		✓						FG	✓			
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 153 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	09:28	:
Bottom (BO)	09:31	:
End (EN)	09:42	:

Positional Information
Start
Lat: 52° 44.360 N
Lon: 131° 47.600 W

Bottom
Lat: 52° 44.370 N
Lon: 131° 47.620 W

Finish
Lat: 52° 44.390 N
Lon: 131° 47.650 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

219.
Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: TPC-1 Event #: 193 Vessel: Tully UTC Date (dd|mmm|yyyy): 28 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	TOL	DOC	818	ODM	pyto	LABS		
1		844	6-5	✓ 225	✓	✓										
2		845	6-5	✓ 225			✓		✓	✓	✓	✓				
3		846	200	✓	✓	✓					✓					
4		847	150	✓	✓	✓					✓					
5		848	100	✓	✓	✓					✓					
6		849	75	✓	✓	✓					✓					
7		850	50	✓	✓	✓										
8		851	50	✓			✓		✓	✓	✓	✓				
9		852	30	✓	✓	✓					✓					
10		853	20	✓	✓			✓			✓					
11		854	10	✓	✓			✓			✓					
12		855	0	✓			✓		✓	✓	✓	✓				
13		856	0	✓	✓	✓		✓					FL	✓		
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 229 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	11 :28	04:28
Bottom (BO)	11 :32	:
End (EN)	:	:

Positional Information

Start	Lat: 52°44.270	N
	Lon: 131°42.230	W

Bottom

Lat: 52°44.260	N
Lon: 131°42.230	W

Finish

Lat: 52°44.	N
Lon: 131°42.	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25

Station: LSK1

Event #: 196

Vessel: Tully

UTC Date (dd|mmm|yyyy): 28|08|2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TOC	DOC	DR	CDOM	Phyto	HABs		
1		857	5-5	147	✓	✓											
2		858	5-5	147			✓			✓	✓	✓	✓				
3		859	100	100	✓	✓											
4		860	75	75	✓	✓											
5		861	50	50	✓	✓											
6		862	50	50			✓			✓	✓	✓	✓				
7		863	30	30	✓✓	✓											
8		864	20	20	✓	✓✓		✓									
9		865	10	10	✓	✓		✓									
10		866	0	.			✓			✓	✓	✓	✓				
11		867	0		✓	✓		✓✓						FL	✓		
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:

Ros (default) | TrMetlRos | X-Niskin

Watchkeeper(s):

Bottom Depth: 154 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	14:07	07:07
Bottom (BO)	14:11	:
End (EN)	:	:

Positional Information

Start

Lat: 52° 49.490 N

Lon: 131° 30.74 W

Bottom

Lat: 54° 49.480 N

Lon: 131° 30.740 W

Finish

Lat: ° . N

Lon: ° . W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: L101 Event #: 201 Vessel: Tully UTC Date (dd|mmm|yyyy): 28 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	TOC	DOC	CDOM	818						
1		65	868		202	✓	✓											
2		65	869		202	✓	✓	✓	✓	✓	✓	✓						
3		150	870		150	✓	✓											
4		100	871		100	✓	✓											
5		75	872		75	✓	✓											
6		50	873		50	✓	✓	✓	✓	✓	✓	✓						
7		50	874		50	✓	✓											
8		30	875		30	✓	✓											
9		20	876		20	✓	✓	✓										
10		10	877		10	✓	✓	✓										
11		0	878		2	✓	✓	✓	✓	✓	✓	✓						← Didn't wait 30 secs. DOH!!
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetiRos | X-Niskin
Watchkeeper(s):
LP

Bottom Depth: 205 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	17:38	:
Bottom (BO)	17:43	:
End (EN)	17:55	:

Positional Information

Lat:	52° 43.760	N
Lon:	131° 22.570	W

▼

Lat:	52° 43.780	N
Lon:	131° 22.570	W

▼

Lat:	52° 43.790	N
Lon:	131° 22.580	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: MT11 Event #: 206 Vessel: Tully UTC Date (dd|mmm|yyyy): 28 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		DC	DOC	CDOM	JP	CDOMF			
1		879	6-5	1	✓	✓											
2		880	6-5	1			✓			✓	✓	✓	✓	✓			
3		881	700	1	✓	✓											
4		882	500	1	✓	✓											
5		883	400	1401	✓	✓											
6		884	300		✓	✓											
7		885	250		✓	✓											
8		886	200		✓	✓											
9		887	150		✓	✓											
10		888	100		✓	✓											
11		889	75		✓	✓											
12		890	50				✓			✓	✓	✓	✓	✓			
13		891	50		✓	✓											
14		892	30		✓	✓											
15		893	20		✓	✓		✓									
16		894	10		✓	✓		✓									
17		895	0		✓	✓		✓		✓	✓	✓	✓	✓			
18		896	0				✓										
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
 Ros (default) | TrMet/Ros | X-Niskin
 Watchkeeper(s):
SR

Bottom Depth: _____ m
 Transmissio Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	04:26	21:26
Bottom (BO)	04:44	:
End (EN)	05:14	:

Positional Information

Start	Lat: 51° 44.670 N
	Lon: 130° 40.500 W

Bottom

Lat: 51° 44.680 N
Lon: 130° 40.560 W

Finish

Lat: 51° 44.650 N
Lon: 130° 40.340 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-75 Station: MS08 Event #: 208 Vessel: Tully UTC Date (dd|mmm|yyyy): 29 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	TOC	DOC	SR	CDOM		PLATO	HAB5	EDNA		
1		897	65		2234	✓	✓										✓	-bottom 6-ring leaking
2		898	65		2234			✓	✓	✓	✓							
3		899	1500			✓	✓											
4		900	1250			✓	✓											
5		901	1000			✓	✓										✓	
6		902	750			✓✓	✓											
7		903	500	✓ 500		✓	✓											
8		904	400	✓ 400		✓	✓										✓	
9		905	300	✓ 300		✓	✓											
10		906	250	✓ 250		✓	✓											
11		907	200	✓ 200		✓	✓										✓	
12		908	150	✓ 150		✓	✓											
13		909	100	✓ 100		✓	✓										✓	
14		910	75	✓ 75		✓	✓											
15		911	50	✓ 50		✓	✓										✓	
16		912	50	✓ 50				✓	✓	✓	✓	✓						
17		913	30	✓ 30		✓	✓										✓	
18		914	20	✓ 20		✓	✓		✓								✓	
19		915	10	✓ 10		✓	✓		✓					LFG	✓		✓	
20		916	0	✓ 2.2				✓	✓	✓	✓	✓						
21		917	0	✓ 2.2		✓	✓		✓								✓	
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SR

Bottom Depth: 2239 m
Transmisso Cleaned: (Y) / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	08:10	01:10
Bottom (BO)	08:58	01:58
End (EN)	09:59	02:57

Positional Information
Start
Lat: 51° 23.880 N
Lon: 130° 55.070 W

Bottom
Lat: 51° 23.910 N
Lon: 130° 55.760 W

Finish
Lat: 51° 24.330 N
Lon: 130° 56.410 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

↑ yes! Incredible!

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: CI4 Event #: 212 Vessel: Tully UTC Date (dd|mmm|yyyy): 29 | 08 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		918	6-5	253	✓	✓												
2		919	200	200	✓	✓												
3		920	150	150	✓	✓												
4		921	100	100	✓	✓												
5		922	75	75	✓	✓												
6		923	50	50	✓	✓												
7		924	30	30	✓	✓												
8		925	20	20	✓	✓		✓										
9		926	10	10	✓	✓		✓										
10		927	0	2.0	✓	✓		✓										Didn't fire 10m user error LP
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
LP

Bottom Depth: 289 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	20:05	:
Bottom (BO)	20:11	:
End (EN)	20:26	:

Positional Information

Start	Lat: 51° 19' . 190 N
	Lon: 129° 3' . 080 W

Bottom

Lat: 51° 19' . 200 N
Lon: 129° 3' . 070 W

Finish

Lat: 51° 19' . 200 N
Lon: 129° 3' . 050 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: Station: CPE1 Event #: 214 Vessel: Tully UTC Date (dd|mmm|yyyy): 30 | 03 | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		928	10-5		135	✓	✓											
2		929	100		100	✓	✓											
3		930	75		75	✓	✓											
4		931	50		50	✓	✓											
5		932	20		30	✓	✓											
6		933	20		20	✓	✓	✓	✓									
7		934	10		10	✓	✓	✓										
8		935	0			✓	✓	✓										
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
4

Bottom Depth: 141 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>00:58</u>	<u>07:58</u>
Bottom (BO)	<u>01:05</u>	:
End (EN)	<u>01:14</u>	:

Positional Information
Start
Lat: 51° 0.070 N
Lon: 127° 50.0 W

Bottom
Lat: 51° 0.050 N
Lon: 127° 50.030 W

Finish
Lat: 51° 0.109 N
Lon: 127° 50.036 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-25 Station: SOGN Event #: 217 Vessel: Tully UTC Date (dd|mmm|yyyy): 31 | Aug | 2018

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TDC	DOC	COM	S	Phyto	HAB	EDNA	
1		936	b-5	✓ 328	✓	✓				✓	✓	✓	✓			✓	
2		937	b-5	✓ 328	✓	✓	✓			✓	✓	✓	✓			✓	
3		938	300		✓	✓				✓	✓	✓	✓			✓	
4		939	300		✓	✓	✓			✓	✓	✓	✓			✓	
5		940	250		✓	✓											
6		941	250		✓	✓	✓			✓	✓	✓	✓			✓	
7		942	200		✓	✓											
8		943	200		✓	✓	✓			✓	✓	✓	✓			✓	
9		944	150		✓	✓											
10		945	150		✓	✓	✓			✓	✓	✓	✓			✓	
11		946	100		✓	✓											
12		947	100		✓	✓	✓			✓	✓	✓	✓			✓	
13		948	75		✓	✓											
14		949	75		✓	✓	✓			✓	✓	✓	✓			✓	
15		950	50		✓	✓											
16		951	50		✓	✓	✓			✓	✓	✓	✓			✓	
17		952	30		✓	✓											
18		953	30		✓	✓	✓			✓	✓	✓	✓			✓	
19		954	20		✓	✓		✓									
20		955	20		✓	✓	✓			✓	✓	✓	✓			✓	
21		956	10		✓	✓		✓								✓	
22		957	10		✓	✓	✓			✓	✓	✓	✓				
23		958	0		✓	✓		✓						LGF ✓		✓	
24		959	0		✓	✓	✓			✓	✓	✓	✓				

Profile type:
 Ros (default) | TrMetiRos | X-Niskin
 Watchkeeper(s):
SRC

Bottom Depth: 333 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>14:53</u>	<u>07:53</u>
Bottom (BO)	<u>15:00</u>	<u>08:00</u>
End (EN)	<u>15:17</u>	<u>08:17</u>

Positional Information

Lat:	<u>49° 50.120</u>	N
Lon:	<u>124° 52.130</u>	W

Start

Lat:	<u>49° 50.120</u>	N
Lon:	<u>124° 52.150</u>	W

Bottom

Lat:	<u>49° 50.110</u>	N
Lon:	<u>124° 52.130</u>	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)