

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-61 Station: C504 Event #: 38 Vessel: TULLY UTC Date (dd|mmm|yyyy): 16 | Oct | 2015

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)														Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut P	Sal	Chl a	Phyto										
1		1	Bot-10	✓ 87	x	x													
2		2	75	✓	x	xx													
3		3	50	✓	x	x													
4		4	30	✓	xx	x													
5		5	20	✓	x	x		xx											
6		6	10	✓	x	x		xx											
7		7	5	✓	x	x	x	xx	x										
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: 97 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	17:01	10:01
Bottom (BO)	17:04	:
End (EN)	17:13	:

Positional Information

Lat:	50°49.23	N
Lon:	129°13.08	W

Start

Bottom

Lat:	50°49.22	N
Lon:	129°13.06	W

Finish

Lat:	50°49.28	N
Lon:	129°12.99	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: 2015-61 Station: C507 Event #: 45 Vessel: Tully UTC Date (dd|mmm|yyyy): 16 | OCT | 2015

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		8	10-10	✓ 57	X	X												
2		9	1000	✓ 57														
3		10	7500	✓ 49														
4		11	50	✓ 49														
5		12	30	✓ 30		XX												
6		13	20	✓ 19	XX			XX										
7		14	10	✓ 9				XX										
8		15	5	✓ 5	✓	✓	✓	XX	X									
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):
MR

Bottom Depth: 66 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: -Y / -N

Time	UTC	Local
Start (BE)	22:52	16:52
Bottom (BO)	22:53	:
End (EN)	23:00	:

Positional Information
Start
Lat: 51° 04' . 69 N
Lon: 128° 43' . 95 W

Bottom
Lat: 51° 04' . 68 N
Lon: 128° 43' . 96 W

Finish
Lat: 51° 04' . 67 N
Lon: 128° 44' . 01 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)
WRONG DEPTH ON
LABELS BOT 2+3

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-61 Station: L204 Event #: 76 Vessel: Tully UTC Date (dd|mmm|yyyy): 17 | Oct | 2015

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		16	6-10	✓ 1698	X													
2		17	1500	✓			X											
3		18	1250	✓ 1251														
4		19	1000	✓ 1000														
5		20	750	✓ 749			XX											
6		21	500	✓ 500	XX													
7		22	400	✓ 400														
8		23	300	✓ 300														
9		24	250	✓ 250														
10		25	200	✓ 200														
11		26	175	✓ 175														
12		27	150	✓ 150														
13		28	125	✓ 125														
14		29	100	✓ 100	XX													
15		30	75	✓ 75														
16		31	50	✓ 50														
17		32	30	✓ 30														
18		33	20	✓ 20														
19		34	10	✓ 10			✓											
20		35	5	✓	✓		✓		X									
21																		
22																		
23																		
24																		

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

Bottom Depth: 1388 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	20:07	13:07
Bottom (BO)	20:45	:
End (EN)	21:35	:

Positional Information
Start
Lat: 50° 35' . 99 N
Lon: 129° 09' . 29 W

Bottom
Lat: 50° 35' . 96 N
Lon: 129° 09' . 29 W

Finish
Lat: 50° 35' . 96 N
Lon: 129° 09' . 30 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: 2015-61 Station: J122 Event #: 77 Vessel: Tully UTC Date (dd|mmm|yyyy): 17 | Oct | 2015

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		36	2000	✓ 1535													Bot-10
2		37	1750	✓ 1536													Bot 10
3		38	1500	✓ 1500			XX										
4		39	1250	✓ 1249													
5		40	1000	✓ 1000	XX												
6		41	750	✓ 749													
7		42	500	✓ 500													
8		43	400	✓ 400													
9		44	300	✓ 300													
10		45	250	✓ 250	XX												
11		46	200	✓ 201													
12		47	175	✓ 175			XX										
13		48	150	✓ 150													
14		49	125	✓ 124													
15		50	100	✓ 100	XX		✓										
16		51	75	✓ 73													
17		52	50	✓ 50													
18		53	30	✓ 30													
19		54	20	✓ 20													
20		55	10	✓ 10				✓									
21		56	5	✓ 5			✓	++	X								
22																	
23																	
24																	

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

Bottom Depth: 1523 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 22 :33 15 :33
Bottom (BO) 23 :01 :
End (EN) 23 :44 :

Positional Information
Start
Lat: 50° 39 . 80 N
Lon: 129° 17 . 57 W
Bottom
Lat: 50° 39 . 78 N
Lon: 129° 17 . 63 W
Finish
Lat: 50° 39 . 74 N
Lon: 129° 17 . 76 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: 2015-61 Station: SSI Event #: 102 Vessel: TULLY UTC Date (dd|mmm|yyyy): 18 | OCT | 2015

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	NUS								
1		57	Bot 10	✓	470	✓	✓			✓								
2		58	400	✓	400	✓	✓			✓								
3		59	300	✓	301	✓	✓											
4		60	250	✓	250	✓	✓											
5		61	200	✓	200	✓	✓											
6		62	175	✓	175	✓	✓											
7		63	150	✓	149	✓	✓											
8		64	125	✓	125	✓	✓											
9		65	100	✓	100	✓	✓											
10		66	75	✓	75	✓	✓											
11		67	50	✓	50	✓	✓											
12		68	30	✓	29	✓	✓											
13		69	20	✓	20	✓	✓	✓										
14		70	10	✓	10	✓	✓	✓	✓									
15		71	5	✓	4	✓	✓	✓	✓									
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:

Ros (default) | TrMetlRos | X-Niskin

Watchkeeper(s):

MR

Bottom Depth: 480 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: -Y- / -N-

Time	UTC	Local
Start (BE)	22 : 40	15 : 40
Bottom (BO)	22 : 49	:
End (EN)	23 : 11	16 : 11

Positional Information

Start

Lat: 51 ° 12 . 43 N

Lon: 130 ° 00 . 07 W

Bottom

Lat: 51 ° 12 . 44 N

Lon: 130 ° 00 . 06 W

Finish

Lat: 51 ° 12 . 46 N

Lon: 129 ° 59 . 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: 2015-61 Station: MT-14 Event #: 104 Vessel: TULLY UTC Date (dd|mmm|yyyy): 19 | OCT | 2015

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		72	1200	✓ 1200			✓											
2		73	300	✓ 300			✓											
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):

MR

Bottom Depth: 1257 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: -Y / N

Time	UTC	Local
Start (BE)	01:56	18:56
Bottom (BO)	02:16	:
End (EN)	02:39	:

Positional Information

Start

Lat: 51° 18 . 11 N
Lon: 130° 18 . 18 W

Bottom

Lat: 51° 18 . 05 N
Lon: 130° 18 . 22 W

Finish

Lat: 51° 18 . 06 N
Lon: 130° 18 . 21 W

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

Version: 14 February 2013

Transmissometer and Fluorometer are to be cleaned before each cast -- do not use Ammonia products

Standards for Sample Collection: WaterProperties.ca/standards

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-61 Station: MT-13 Event #: 105 Vessel: TULLY UTC Date (dd|mmm|yyyy): 19 | Oct | 2015

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		74	1650	✓ 1650			✓											
2		75	1575	✓ 1573			✓											
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):
MR

Bottom Depth: 1720 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 04:42 21:42
Bottom (BO) 05:16 :
End (EN) 05:56 :

Positional Information
Start Lat: 51° 27.87 N
Lon: 130° 34.45 W
Bottom Lat: 51° 27.85 N
Lon: 130° 34.60 W
Finish Lat: 51° 27.81 N
Lon: 130° 34.95 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: 2015-61 Station: MT-12 Event #: 106 Vessel: TULLY UTC Date (dd|mmm|yyyy): 19 Oct 2015

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	NO ₃	Phy _h								
1	*1	76	558	✓	✓	✓			✓									
2	2	77	1400	✓	✓	✓	✓		✓									
3	3	78	1250	✓	✓✓	✓	✓✓		✓									
4	4	79	1000	✓	✓	✓✓	✓		✓✓									
5	5	80	750	✓	✓	✓	✓		✓									
6	1	81	B-10	✓	1428	✓	✓	✓	✓									
7	6	82	400	✓	✓	✓	✓		✓									
8	7	83	300	✓	✓	✓	✓											
9	8	84	250	✓	✓	✓	✓											
10	9	85	200	✓	✓✓	✓	✓											
11	10	86	175	✓	✓	✓	✓											
12	11	87	150	✓	✓	✓✓	✓											
13	12	88	125	✓	✓	✓	✓											
14	13	89	100	✓	✓	✓	✓											
15	14	90	75	✓	✓	✓												
16	15	91	50	✓	✓✓	✓												
17	16	92	30	✓	✓	✓												
18	17	93	20		✓	✓		✓✓										
19	18	94	10		✓	✓	✓	✓✓										
20	19	95	5		✓	✓	✓	✓✓		✓								
21																		
22																		
23																		
24																		

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

Bottom Depth: 1362 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	07:27	00:27
Bottom (BO)	08:00	:
End (EN)	09:06	:

Positional Information

Lat:	51°34.63	N
Lon:	130°45.79	W

Bottom

Lat:	51°34.89	N
Lon:	130°46.10	W

Finish

Lat:	51°35.44	N
Lon:	130°46.18	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)
OUT-OF-ORDER
+1066

* Note Niskin #1 was fired during downcast - Not included in 2015-61-0106.che
#6 at start of upcast - upcast in separate file
bottles 2,3,4,5,7-20 followed #6.
SR

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-61 Station: MT-11 Event #: 108 Vessel: TULLY UTC Date (dd|mmm|yyyy): 19 Oct 2015

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		96	2000	✓			✓											
2		97	1500	✓														
3		98	1250	✓														
4		99	1000	✓														
5		100	750	✓														
6		101	500	✓														
7		102	400	✓														
8		103	300	✓														
9		104	200	✓														
10		105	100	✓														
11		106	20	✓														
12		107	5															
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Watchkeeper(s):

SR

Bottom Depth: 2100 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	11:24	04:24
Bottom (BO)	12:25	:
End (EN)	13:15	:

Positional Information

Start

Lat: 51°41.34 N

Lon: 130°59.13 W

Bottom

Lat: 51°41.94 N

Lon: 130°58.21 W

Finish

Lat: 51°41.93 N

Lon: 130°58.00 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: 2015-61 Station: MT-32 Event #: 112 Vessel: Tully UTC Date (dd|mmm|yyyy): 19 | Oct | 2015

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	photo										
1		108	B-10	✓	257														
2		109	250	✓															
3		110	200	✓			XX												
4		111	175	✓															
5		112	150	✓		XX													
6		113	125	✓															
7		114	100	✓															
8		115	75	✓			XX												
9		116	50	✓		XX													
10		117	30	✓															
11		118	20	✓				XX											
12		119	10	✓	11			XX											
13		120	5	✓		↓	↓	XX	X										
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s):
SR / ME

Bottom Depth: 268 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	18:31	11:31
Bottom (BO)	18:35	:
End (EN)	18:53	11:53

Positional Information

Start
Lat: 51° 51.29 N
Lon: 130° 29.81 W

Bottom
Lat: 51° 51.32 N
Lon: 130° 29.86 W

Finish
Lat: 51° 51.23 N
Lon: 130° 29.95 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: 2015-61 Station: MT-52 Event #: 118 Vessel: TULLY UTC Date (dd|mmm|yyyy): 20 | OCT | 2015

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	NO ₃	NO ₂	Phyco						
1		121	Bot 10		✓	✓											NOT USED
2	1	122	400	✓ 386		✓											
3	2	123	300	✓ 300			✓										
4	3	124	250	✓ 250													
5	↓	125	200	✓ 200													
6	✓	126	175	✓ 175	✓												
7		127	150	✓ 150													
8		128	125	✓ 125													
9		129	100	✓ 100													
10		130	75	✓ 75	✓												
11		131	50	✓ 50													
12		132	30	✓ 30													
13		133	20	✓ 20				✓✓									
14		134	10	✓ 10				✓✓									
15		135	5	✓ 5	✓	✓✓	✓	✓✓			✓						~ 25 ml missing from Ctlc B
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 382 m
 Transmisso Cleaned: ☒ Y | ☐ N
 Fluorometer Cleaned: ☒ Y | ☒ N

Time	UTC	Local
Start (BE)	03:07	20:07
Bottom (BO)	03:14	:
End (EN)	03:31	:

Positional Information

Start	Lat: <u>52° 11' . 20</u> N
	Lon: <u>130° 17' . 81</u> W
Bottom	Lat: <u>52° 11' . 20</u> N
	Lon: <u>130° 17' . 83</u> W
Finish	Lat: <u>52° 11' . 20</u> N
	Lon: <u>130° 17' . 80</u> W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)
Bot 1 not used.
No NOT-COOL.

NOT-Fr left on deck (cold + dark) for 2 hours.

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-61 Station: MT-72 Event #: 125 Vessel: Jolly UTC Date (dd|mmm|yyyy): 20|Oct|2015

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		136	B-10	✓	285													
2		137	250	✓			X											
3		138	200	✓														
4		139	175	✓		XX												
5		140	150	✓			XX											
6		141	125	✓														
7		142	100	✓														
8		143	75	✓		XX												
9		144	50	✓														
10		145	30	✓														
11		146	20	✓			XX		XX									
12		147	10	✓					XX									
13		148	5	✓		W	W		XX	X								
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 294 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	10:48	:
Bottom (BO)	10:53	:
End (EN)	11:15	:

Positional Information
Start
Lat: 52° 31.29 N
Lon: 130° 8.53 W

Bottom
Lat: 52° 31.32 N
Lon: 130° 8.51 W

Finish
Lat: 52° 31.42 N
Lon: 130° 8.41 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: 2015-61 Station: 5545 Event #: 135 Vessel: Tully UTC Date (dd|mmm|yyyy): 21 | OCT | 2015

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		149	Bot-10	✓ 210	✓													
2		150	200	✓ 200														
3		151	175	✓ 175														
4		152	150	✓ 150		✓												
5		153	125	✓ 124														
6		154	100	✓ 100														
7		155	75	✓ 75	✓													
8		156	50	✓ 50	✓													
9		157	30	✓ 30														
10		158	20	✓ 20				✓✓										
11		159	10	✓ 11				✓✓										
12		160	5	✓ 5	✓	✓	✓	✓✓	✓									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 217 m
Transmisso Cleaned: ☒ Y / ☐ N
Fluorometer Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start (BE)	20:30	13:30
Bottom (BO)	20:34	:
End (EN)	20:47	:

Positional Information
Start
Lat: 51° 22.23 N
Lon: 128° 48.63 W
▼
Bottom
Lat: 51° 22.20 N
Lon: 128° 48.62 W
▼
Finish
Lat: 51° 22.18 N
Lon: 128° 48.63 W

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