

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015 47

Station: BS2

Event #: 58

Vessel: Tully

UTC Date (dd|mmm|yyyy): 17 Jul 2015

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
C/A/E

Bottom Depth: 2994 m
Transmisso Cleaned: (Y) N
Fluorometer Cleaned: (Y) N

Time	UTC	Local
Start (BE)	<u>20:02</u>	:
Bottom (BO)	<u>21:11</u>	:
End (EN)	<u>22:31</u>	:

Positional Information

Start	Lat: <u>53°10'41.7</u> N
	Lon: <u>135°06'49.8</u> W

Bottom

Lat: <u>53°10'45.3</u> N
Lon: <u>135°07'10.3</u> W

Finish

Lat: <u>53°10'53.4</u> N
Lon: <u>135°07'06.6</u> W

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

Standards for Sample Collection: WaterProperties.ca/standards

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		105	B-10	✓ 2984	✓	✓		✓				
2		106	B-15	✓ 2980	✓	✓						
3		107	B-20	✓ 2974	✓	✓		✓				
4		108	2500	✓ 2500	✓	✓		✓				
5		109	2000	✓ 2000	✓	✓						
6		110	1500	✓ 1500	✓	✓						
7		111	1250	✓ 1250	✓	✓						
8		112	1000	✓ 1000	✓	✓						
9		113	800	✓ 800	✓	✓						
10		114	600	✓ 600	✓	✓						
11		115	500	✓ 500	✓	✓						
12		116	400	✓ 400	✓	✓						
13		117	300	✓ 300	✓	✓						
14		118	250	✓ 250	✓	✓						
15		119	200	✓ 200	✓	✓						
16		120	175	✓ 175	✓	✓						
17		121	150	✓ 150	✓	✓						
18		122	125	✓ 125	✓	✓						
19		123	100	✓ 100	✓	✓						
20		124	75	✓ 75	✓	✓						
21		125	50	✓ 50	✓	✓						
22		126	25	✓ 25	✓	✓						
23		127	10	✓ 10	✓	✓						
24		128	5	✓ 5	✓	✓						

Version: 14 February 2013

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

29
69
94

8

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-48 Station: BS 12 Event #: 3 Vessel: JP Tully UTC Date (dd|mmm|yyyy): 11 | JUL | 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		1	Btm-10	✓ 1337	✓	✓	✓											
2		2	Btm-15	✓ 1331	✓	✓												
3		3	Btm-20	✓ 1327	✓	✓												
4		4	Btm-25	✓ 1300	✓	✓												
5		5	1250	✓ 1250	✓	✓												
6		6	1000	✓ 1000	✓	✓												
7		7	800	✓ 800	✓	✓												
8		8	600	✓ 600	✓	✓												
9		9	500	✓ 500	✓	✓												
10		10	400	✓ 400	✓	✓												
11		11	300	✓ 300	✓	✓												
12		12	250	✓ 250	✓	✓												
13		13	200	✓ 200	✓	✓												
14		14	175	✓ 175	✓	✓												
15		15	150	✓ 150	✓	✓												
16		16	125	✓ 125	✓	✓												
17		17	100	✓ 100	✓	✓												
18		18	75	✓ 75	✓	✓												
19		19	50	✓ 50	✓	✓												
20		20	25	✓ 25	✓	✓												
21		21	10	✓ 10	✓	✓												
22		22	5	✓ 5	✓	✓												
23																		
24																		

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

Watchkeeper(s):
W, A, E

Bottom Depth: 1347 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: (Y) / N

Time	UTC	Local
Start (BE)	03:27	:
Bottom (BO)	03:51	:
End (EN)	04:34	:

Positional Information

Lat: 53 °21 .946 N

Lon: 135 °33 .389 W

Bottom

Lat: 53 °21 .905 N

Lon: 135 °33 .211 W

Finish

Lat: 53 °21 .876 N

Lon: 135 °33 .017 W

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

24
32
1152

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-48 Station: BS11 Event #: 5 Vessel: JPTWV UTC Date (dd|mmm|yyyy): 11 JUL 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	DIC	DOWN						
1		23	Btm-10	✓ 92	✓	✓			✓							
2		24	Btm-15	✓ 89	✓	✓			✓							
3		25	Btm-20	✓ 82	✓	✓			✓							
4		26	5	✓ 75	✓	✓			✓							
5		27	50	✓ 50	✓	✓			✓	✓						
6		28	25	✓ 25	✓	✓				✓						
7		29	10	✓ 10	✓	✓			✓	✓						
8		30	5	✓ 5	✓	✓				✓						
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):
C/A/E

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

Time	UTC	Local
Start (BE)	05:54	:
Bottom (BO)	05:56	:
End (EN)	:	:

Positional Information
Start
Lat: 53° 18' . 221 N
Lon: 135° 39' . 503 W

Bottom
Lat: 53° 18' . 226 N
Lon: 135° 39' . 488 W

Finish
Lat: 53° 18' . N
Lon: 135° 39' . W

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

9 33 7

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-48 Station: BS10 Event #: 7 Vessel: Tully UTC Date (dd/mmm/yyyy): 11 July 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		31	Bottom-10	✓ 1041	✓	✓		✓								
2		32	Bottom-15	✓ 1035	✓	✓		✓								
3		33	Bottom-20	✓ 1030	✓	✓		✓								
4		34	1000	✓ 1000	✓	✓										
5		35	900	✓ 900	✓	✓										
6		36	800	✓ 800	✓	✓										
7		37	700	✓ 700	✓	✓		✓								
8		38	600	✓ 600	✓	✓										
9		39	500	✓ 500	✓	✓										
10		40	400	✓ 400	✓	✓										
11		41	300	✓ 300	✓	✓										
12		42	250	✓ 250	✓	✓										
13		43	200	✓ 200	✓	✓		✓								
14		44	175	✓ 175	✓	✓										
15		45	150	✓ 150	✓	✓										
16		46	125	✓ 125	✓	✓										
17		47	100	✓ 100	✓	✓		✓								
18		48	75	✓ 75	✓	✓										
19		49	50	✓ 50	✓	✓		✓								
20		50	25	✓ 25	✓	✓										
21		51	10	✓ 10	✓	✓										
22		52	5	✓ 5	✓	✓										
23																
24																

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
C/A/E

Bottom Depth: 1050 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 07:55 :
Bottom (BO) 08:18 :
End (EN) 08:50 :

Positional Information
Start Lat: 53°14'13.0 N
Lon: 135°46'6.6 W
Bottom Lat: 53°14'02.1 N
Lon: 135°46'58.8 W
Finish Lat: 53°13'54.6 N
Lon: 135°46'44.6 W

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

24
73
97

8

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 20548 Station: BS13 Event #: 9 Vessel: Tully UTC Date (dd|mmm|yyyy): 12 Jul 2005

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		S3	Btm 1	1776	✓	✓		✓									Hydroimeter
2		S1	Btm 2	1766	✓	✓		✓									acting funny
3		S5	High 02	39	✓	✓											
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) | TrMetIRos | X-Niskin
Watchkeeper(s):
C/A/E

Bottom Depth: 1779 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	03:23	:
Bottom (BO)	03:58	:
End (EN)	04:31	:

Positional Information
Start
Lat: 53° 25.552 N
Lon: 135° 27.390 W

Bottom
Lat: 53° 25.550 N
Lon: 135° 27.467 W

Finish
Lat: 53° 25.556 N
Lon: 135° 27.481 W

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

4
3
61

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-48 Station: BS14 Event #: 11 Vessel: TULLY UTC Date (dd|mmm|yyyy): 12 Jul 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	DIC								
1		56	Btm-10	2958	✓	✓✓			✓								
2		57	Btm-20	2945	✓	✓			✓								
3		58	HTW-02	37	✓	✓											
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):
C/O/E

Bottom Depth: 2982 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	05:50	:
Bottom (BO)	06:45	:
End (EN)	07:41	:

Positional Information
Start
Lat: 53° 29.773 N
Lon: 135° 20.071 W

Bottom
Lat: 53° 29.779 N
Lon: 135° 20.045 W

Finish
Lat: 53° 29.761 N
Lon: 135° 20.047 W

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

4
3
65

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-48 Station: BS9 Event #: 13 Vessel: TULLY UTC Date (dd|mmm|yyyy): 13 | JUL | 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		59	B-10	3340	✓	✓												
3	45	60	B-10	3332	✓	✓												
4	46	61	H-1400	24	✓	✓												
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) | TrMetiRos | X-Niskin
Watchkeeper(s):
C/A/E

Bottom Depth: 3352 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

TimeUTCLocal

Start (BE)04:52:

Bottom (BO)05:56:

End (EN)07:01:

Positional Information
Start
Lat: 53 ° 10 . 876 N
Lon: 135 ° 53 . 586 W

Bottom
Lat: 53 ° 10 . 882 N
Lon: 135 ° 53 . 608 W

Finish
Lat: 53 ° 10 . 842 N
Lon: 135 ° 53 . 594 W

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

\$
121

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-48 Station: B56 Event #: 17 Vessel: Tully UTC Date (dd|mmm|yyyy): 14 | Jun | 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	Diver								
1		62	250	✓ 250	✓	✓			✓								
2		63	150	✓ 150	✓	✓			✓								
3		64	50	✓ 50	✓	✓			✓								
4		65	25	✓ 25	✓	✓			✓								
5		66	10	✓ 10	✓	✓			✓								
6		67	5	✓ 5	✓	✓			✓								
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):
C/A/E

Bottom Depth: 3209 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	23:52	:
Bottom (BO)	04:03	:
End (EN)	04:18	:

Positional Information
Start
Lat: 53° 07' . 856 N
Lon: 135° 34' . 254 W

Bottom
Lat: 53° 07' . 859 N
Lon: 135° 34' . 360 W

Finish
Lat: 53° 07' . 849 N
Lon: 135° 34' . 420 W

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

8 106

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-48 Station: R503 Event #: 24 Vessel: Tully UTC Date (dd|mmm|yyyy): 14 | Jul | 2011

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	Chl b	Chl c	Chl d	Chl e	Chl f	Chl g	Chl h	Chl i	Chl j	
1		68	250	✓	X	X			X									
2		69	150	✓	X	X			X									
3		70	50	✓	X	X			X									
4		71	25	✓	X	X			X									
5		72	10	✓	X	X			X									
6		73	5	✓	X	X			X									
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):
C/A/E

Bottom Depth: 283 m
Transmisso Cleaned: 0 / N
Fluorometer Cleaned: 4 / N

Time	UTC	Local
Start (BE)	21:57	:
Bottom (BO)	21:02	:
End (EN)	21:18	:

Positional Information
Start
Lat: 53° 27.031 N
Lon: 134° 40.846 W

Bottom
Lat: 53° 27.08 N
Lon: 134° 40.702 W

Finish
Lat: 53° 27.036 N
Lon: 134° 40.799 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: 2015-48 Station: BS 8 Event #: 30 Vessel: TULLY UTC Date (dd|mmm|yyyy): 15 Jul 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	B-10	✓ 2448	✓	✓			✓									
2		75	B-20	✓ 3438	✓	✓			✓									
3		76	250	250	✓	✓			✓									
4		77	H ₂ O	28		✓	✓											
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):
CIAIE

Bottom Depth: 3471 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	07:39	:
Bottom (BO)	08:39	:
End (EN)	09:39	:

Positional Information
Start
Lat: 53° 04' . 525 N
Lon: 136° 04' . 182 W

Bottom
Lat: 53° 04' . 532 N
Lon: 136° 04' . 265 W

Finish
Lat: 53° 04' . 596 N
Lon: 136° 04' . 322 W

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

5
116
2

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 20548 Station: B517 Event #: 33 Vessel: Tully UTC Date (dd|mmm|yyyy): 16 JUL 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	DC	DOVER						
1		78	B-10	✓ 2888	✓	✓			✓							
2		79	B-15	✓ 2878	✓	✓			✓							
3		80	B-20	✓ 2873	✓	✓			✓							
4		81	200	✓ 2000	✓	✓			✓							
5		82	150	✓ 1500	✓	✓										
6		83	125	✓ 1250	✓	✓										
7		84	100	✓ 1000	✓	✓			✓							
8		85	80	✓ 800	✓	✓										
9		86	60	✓ 600	✓	✓										
10		87	50	✓ 500	✓	✓										
11		88	40	✓ 400	✓	✓										
12		89	30	✓ 300	✓	✓			✓							
13		90	25	✓ 250	✓	✓				✓						
14		91	20	✓ 200	✓	✓										
15		92	175	✓ 175	✓	✓										
16		93	150	✓ 150	✓	✓				✓						
17		94	125	✓ 125	✓	✓			✓							
18		95	100	✓ 100	✓	✓			✓	✓						
19		96	75	✓ 75	✓	✓										
20		97	50	✓ 50	✓	✓				✓						
21		98	25	✓ 25	✓	✓				✓						
22		99	10	✓ 10	✓	✓				✓						
23		100	5	✓ 5	✓	✓				✓						
24																

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

Bottom Depth: 2893 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	06:02	:
Bottom (BO)	06:55	:
End (EN)	08:01	:

Positional Information
Start
Lat: 53° 26' .861 N
Lon: 135° 49' .296 W

Bottom
Lat: 53° 26' .988 N
Lon: 135° 49' .834 W

Finish
Lat: 53° 26' .491 N
Lon: 135° 49' .474 W

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

28.127
155
9
3618.44

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-48 Station: BS15 Event #: 37 Vessel: Tully UTC Date (dd|mmm|yyyy): 17 | JUL | 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		101	Btm-20	2930	✓	✓		✓									
2		102	Btm-20	2920	✓	✓		✓									
3		103	2500	2500	✓	✓		✓									
4		104	Hand 02	424	✓	✓											
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):
CIAIE

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

Time	UTC	Local
Start (BE)	07:09	:
Bottom (BO)	07:57	:
End (EN)	08:42	:

Positional Information
Start
Lat: 53° 35' . 824 N
Lon: 135° 10' . 176 W

Bottom
Lat: 53° 35' . 746 N
Lon: 135° 10' . 620 W

Finish
Lat: 53° 35' . 753 N
Lon: 135° 10' . 714 W

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

123 128 2

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-48 Station: CS00 Event #: 40 Vessel: MCV UTC Date (dd|mmm|yyyy): 19 | Jul | 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	UGP	Alga							
1		129	SFC	SFC				✓	✓								
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: 2189 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	02:16	:
Bottom (BO)	02:31	:
End (EN)	02:41	:

Positional Information

Start

Lat: 50 ° 27 . 944 N

Lon: 129 ° 54 . 866 W

Bottom

Lat: 50 ° 27 . 073 N

Lon: 129 ° 54 . 990 W

Finish

Lat: 50 ° 27 . 109 N

Lon: 129 ° 54 . 164 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: 2015-48 Station: 4602 Event #: 42 Vessel: Tully UTC Date (dd|mmm|yyyy): 19 Jul 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		130	90	90				✓	✓									
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):
C/1414

Bottom Depth: 100 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	18 : 55	:
Bottom (BO)	:	:
End (EN)	:	:

Positional Information

Start
Lat: 49° 18' . 826 N
Lon: 126° 38' . 207 W

Bottom
Lat: 49° 18' . N
Lon: 126° 38' . W

Finish
Lat: 49° 18' . N
Lon: 126° 38' . W

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