

SUPER CHEM

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: HEC1 Event #: 010 Vessel: TULLY UTC Date (dd|mmm|yyyy): 24 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	DOC	DOC	DOC	DOC	DOC	DOC		
1		25	bot-5	✓	135	✓✓	✓		✓							
2		26	bot-5	✓	"		✓			✓	✓	✓	✓			
3		27	100	✓		✓✓	✓		✓							
4		28	100	✓			✓			✓	✓	✓	✓			
5		29	75	✓		✓	✓		✓							
6		30	75	✓			✓			✓✓	✓	✓	✓			
7		31	50			✓	✓	✓	✓✓							
8		32	50				✓			✓	✓✓	✓	✓			
9		33	30			✓✓	✓		✓							
10		34	30				✓			✓	✓	✓	✓✓			
11		35	20			✓	✓✓	✓	✓✓	✓						
12		36	20				✓			✓	✓	✓	✓✓			
13		37	10			✓✓	✓	✓	✓✓	✓✓						
14		38	10				✓			✓	✓	✓	✓			
15		39	0			✓	✓	✓	✓✓	✓						
16		40	0				✓			✓	✓	✓✓	✓	✓		
17																
18																
19																
20																
21																
22																
23																
24																

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

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

Time	UTC	Local
Start (BE)	06 : 00	11 : 04
Bottom (BO)	06 : 04	:
End (EN)	06 : 21	:

Positional Information

Lat:	<u>52 ° 49 . 70</u>	N
Lon:	<u>129 ° 50 . 65</u>	W

Start

Bottom

Finish

Lat: 52 ° 49 . 69 N
 Lon: 129 ° 50 . 64 W

Lat: 52 ° 49 . 68 N
 Lon: 129 ° 50 . 65 W

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

NISKIN 24 IS A SPARE. IF BIO USES IT THE 105 SAMPLE WILL BE TAKEN FROM THE OTHER SURFACE NISKIN LEFTOVERS

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46

Station: HEC-1

Event #: 12

Vessel: TULLY

UTC Date (dd|mmm|yyyy): 24 | 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		41	6-5	150														BIO
2		42	6-5	"														
3		43	6-5	"														
4		44	6-5	"														105
5		45	100															BIO
6		46	100															
7		47	100															
8		48	100															105
9		49	50															BIO
10		50	50															
11		51	50															
12		52	50															105
13		53	20															BIO
14		54	20															
15		55	20															
16		56	20															105
17		57	0															
18		58	0															
19		59	0															BIO
20		60	0															
21		61	0															
22		62	0															
23		63	0															
24		64	0															* spare

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

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

Bottom Depth: 154 m
Transmisso Cleaned: ☒ Y / ☐ N
Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	12:10	05:10
Bottom (BO)	12:15	:
End (EN)	12:26	:

Positional Information
Lat: 52° 49 . 55 N
Lon: 129° 50 . 85 W

Start

Lat: 52° 49 . 57 N
Lon: 129° 50 . 80 W

Bottom

Lat: 52° 49 . 65 N
Lon: 129° 50 . 92 W

Finish

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

please give sample #.

65 bucket

BIO NISKIN; 1, 2, 3, 5, 6, 7, 9, 10, 11

13, 14, 15, 17 - 24*

105 NISKIN; 4, 8, 12, 16, 24* + bucket.

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: CS84 Event #: 21 Vessel: TULLY UTC Date (dd|mmm|yyyy): 25 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		66	675	✓ 253	✓	✓											
2		67	200	✓	✓	✓											
3		68	150	✓ 151	✓	✓											
4		69	100		✓	✓											
5		70	75		✓	✓											
6		71	50		✓	✓											
7		72	30		✓	✓											
8		73	20		✓	✓		✓									
9		74	10		✓	✓		✓									
10		75	0				✓	✓		✓	✓	✓	✓				
11		76	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: 255 m
 Transmisso Cleaned: (Y) N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	02:43	19:43
Bottom (BO)	02:50	:
End (EN)	03:09	:

Positional Information

Lat:	<u>52° 54.04</u>	N
Lon:	<u>129° 24.01</u>	W

▼

Lat:	<u>52° 54.02</u>	N
Lon:	<u>129° 24.00</u>	W

▼

Lat:	<u>52° 54.01</u>	N
Lon:	<u>129° 23.97</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: 2015-46 Station: SC74 Event #: 23 Vessel: TULLY UTC Date (dd|mmm|yyyy): 25 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		77	bot-5	✓ 375	✓	✓											
2		78	300	✓	✓	✓											
3		79	250	✓	✓	✓											
4		80	200	✓	✓	✓											
5		81	150	✓	✓✓	✓											
6		82	100	✓	✓	✓											
7		83	75	✓	✓	✓											
8		84	50	✓	✓	✓											
9		85	30		✓	✓											
10		86	20		✓✓	✓		✓✓									
11		87	10		✓	✓✓		✓✓									
12		88	0				✓		✓✓	✓✓	✓✓	✓✓	✓✓				
13		89	0		✓	✓	✓	✓✓									
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 375 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	<u>04:49</u>	<u>21:49</u>
Bottom (BO)	<u>04:56</u>	:
End (EN)	<u>05:18</u>	:

Positional Information

Lat:	<u>53° 0.66</u>	N
Lon:	<u>129° 15.83</u>	W

▼

Lat:	<u>53° 0.62</u>	N
Lon:	<u>129° 15.84</u>	W

▼

Lat:	<u>53° 0.64</u>	N
Lon:	<u>129° 15.80</u>	W

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

SUPER CHEM

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: SC61 Event #: 26 Vessel: Tully UTC Date (dd|mmm|yyyy): 25 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		TOC	DOC	COM	SR	Phyto			
1		90	bot 5	✓ 501	✓✓	✓	✓										
2		91	bot 5	✓ "			✓			✓	✓	✓					
3		92	400	✓ 401	✓	✓	✓										
4		93	400	✓			✓			✓	✓	✓					
5		94	300	✓	✓	✓✓	✓										
6		95	300	✓			✓			✓	✓	✓					
7		96	200	✓	✓	✓	✓										
8		97	200	✓			✓			✓	✓	✓					
9		98	150	✓	✓	✓	✓										
10		99	150	✓			✓			✓✓	✓	✓					
11		100	100	✓ 102	✓✓	✓	✓										
12		101	100	✓ "			✓			✓	✓	✓					
13		102	75	✓	✓	✓✓	✓										
14		103	75	✓			✓			✓	✓	✓✓					
15		104	50		✓	✓	✓										
16		105	50				✓			✓✓	✓	✓					
17		106	30		✓✓	✓	✓										
18		107	30				✓			✓	✓✓	✓					
19		108	20		✓	✓	✓	✓✓									
20		109	20				✓			✓	✓	✓					
21		110	10		✓	✓✓	✓	✓✓									
22		111	10				✓			✓	✓	✓					
23		112	0		✓	✓	✓	✓✓									
24		113	0				✓			✓	✓	✓✓	✓				

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

Bottom Depth: 508 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	<u>07:21</u>	<u>00:21</u>
Bottom (BO)	<u>07:33</u>	:
End (EN)	<u>07:57</u>	:

Positional Information

Lat:	<u>53° 11.96</u>	N
Lon:	<u>129° 25.06</u>	W

Bottom

Lat:	<u>53° 11.95</u>	N
Lon:	<u>129° 25.06</u>	W

Finish

Lat:	<u>53° 11.94</u>	N
Lon:	<u>129° 24.99</u>	W

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

↑
NOTE: SLIGHTLY MODIFIED STANDARD DEPTHS

BIO + PARTICLES

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46

Station: SC61

Event #: 27

Vessel: TULLY

UTC Date (dd|mmm|yyyy): 25 | 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		114	b-5		/	/	/	/	/	/	/	/	/	/	/	/	/	BIO
2		115	b-5		/	/	/	/	/	/	/	/	/	/	/	/	/	
3		116	b-5		/	/	/	/	/	/	/	/	/	/	/	/	/	
4		117	b-5		/	/	/	/	/	/	/	/	/	/	/	/	/	IOS
5		118	O		/	/	/	/	/	/	/	/	/	/	/	/	/	
6		119	O		/	/	/	/	/	/	/	/	/	/	/	/	/	BIO
7		120	O		/	/	/	/	/	/	/	/	/	/	/	/	/	
8		121	O		/	/	/	/	/	/	/	/	/	/	/	/	/	IOS
9		122	BUCKET		/	/	/	/	/	/	/	/	/	/	/	/	/	
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: 508 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	08:57	:
Bottom (BO)	09:09	:
End (EN)	09:20	:

Positional Information
Start
Lat: 53° 11.86 N
Lon: 129° 25.20 W

Bottom
Lat: 53° 11.90 N
Lon: 129° 25.24 W

Finish
Lat: 53° 11.90 N
Lon: 129° 25.28 W

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

BIO = NISKINS 1, 2, 3
5, 6, 7

IOS = NISKINS 4, 8 +
bucket

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: DOUG45 Event #: 32 Vessel: TULLY UTC Date (dd|mmm|yyyy): 25 | 07 | 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		TOC	DOC	CDOM	SLP					
1		122	500-5	✓ 460	✓	✓												
2		123	400	✓ 400	✓	✓												
3		124	350	✓ 350	✓✓	✓												
4		125	300	✓ 300	✓	✓												
5		126	250	✓ 250	✓	✓✓												
6		127	200	✓ 200	✓	✓												
7		128	150	✓ 150	✓	✓												
8		129	100	✓ 100	✓	✓												
9		130	75	✓ 75	✓	✓												
10		131	50	✓ 50	✓✓	✓✓												
11		132	30	✓ 30	✓	✓												
12		133	20	✓ 20	✓	✓		✓✓										
13		134	10	✓ 10	✓	✓		✓✓										
14		135	0	✓			✓		✓✓	✓✓	✓✓	✓✓	✓✓					
15		136	0	✓		✓	✓	✓✓										
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 465 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☒ N

Time	UTC	Local
Start (BE)	16:03	09:03
Bottom (BO)	16:11	09:11
End (EN)	16:30	09:30

Positional Information

Lat:	53° 22' . 192 N
Lon:	129° 11' . 695 W

Start

Lat:	53° 22' . 174 N
Lon:	129° 11' . 695 W

Bottom

Lat:	53° 22' . 208 N
Lon:	129° 11' . 596 W

Finish

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

BIO + PARTICLES

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: DOUG45p Event #: 34 Vessel: TULLY UTC Date (dd|mmm|yyyy): 25 | 07 | 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		137	b-5	✓ 460													} BIO
2		138	b-5	✓ 460													
3		139	b-5	✓ 460													
4		140	b-5	✓ 460													
5		141	0	✓ 1.6													} BIO
6		142	0	✓ 1.6													
7		143	0	✓ 1.6													
8		144	0	✓ 1.6													
9		145	BUCKET														} 105
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
88

Bottom Depth: 465 m
 Transmisso Cleaned: (Y) N
 Fluorometer Cleaned: Y / (N)

Time	UTC	Local
Start (BE)	17:13	10:13
Bottom (BO)	17:22	10:22
End (EN)	17:31	10:31

Positional Information
 Lat: 53° 22' 11.7 N
 Lon: 129° 11' 71.6 W

▼
 Lat: 53° 22' 13.6 N
 Lon: 129° 11' 71.0 W

▼
 Lat: 53° 22' 10.8 N
 Lon: 129° 11' 6.81 W

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

BIO NISKINS = 1, 2, 3
 5, 6, 7

105 NISKINS, 4, 8 +
 bucket

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-216 Station: DOUG26 Event #: 40 Vessel: TULLY UTC Date (dd|mmm|yyyy): 26 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		146	100-5	✓ 393	✓	✓											
2		147	350	✓	✓	✓											
3		148	300	✓	✓	✓											
4		149	250	✓ 251	✓	✓											
5		150	200	✓	✓	✓											
6		151	150	✓	✓	✓											
7		152	100	✓	✓	✓											
8		153	75	✓	✓	✓											
9		154	50	✓	✓	✓											
10		155	30	✓	✓	✓											
11		156	20	✓	✓	✓		✓									
12		157	10	✓	✓	✓		✓									
13		158	0		✓	✓	✓	✓									
14		159	0				✓		✓	✓	✓	✓	✓				
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 398 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	<u>05:04</u>	<u>20:04</u>
Bottom (BO)	<u>05:15</u>	:
End (EN)	<u>05:37</u>	:

Positional Information
 Lat: 53° 40.364 N
 Lon: 129° 7.207 W

Bottom
 Lat: 53° 40.351 N
 Lon: 129° 7.206 W

Finish
 Lat: 53° 40.343 N
 Lon: 129° 7.213 W

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

BIO + PARTICLE

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: DOW626 Event #: 46 Vessel: TULLY UTC Date (dd|mmm|yyyy): 26|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		160	h-5		/	/	/	/	/	/	/	/	/	/	/	/	BIO
2		161	h-5		/	/	/	/	/	/	/	/	/	/	/	/	
3		162	h-5		/	/	/	/	/	/	/	/	/	/	/	/	
4		163	h-5		/	/	/	/	/	/	/	/	/	/	/	/	IOS
5		164	0		/	/	/	/	/	/	/	/	/	/	/	/	
6		165	0		/	/	/	/	/	/	/	/	/	/	/	/	
7		166	0		/	/	/	/	/	/	/	/	/	/	/	/	BIO
8		167	0		/	/	/	/	/	/	/	/	/	/	/	/	
9		168	BUCKET		/	/	/	/	/	/	/	/	/	/	/	/	
10																	IOS
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:
☒ Ros (default) | ☐ TrMet/Ros | ☐ X-Niskin
Watchkeeper(s):
DW

Bottom Depth: 293 m
Transmisso Cleaned: ☒ Y / ☐ N
Fluorometer Cleaned: ☐ Y / ☐ N
Time UTC Local
Start (BE) 10:19 :
Bottom (BO) 10:26 :
End (EN) : :

Positional Information
Start
Lat: 53° 40.362 N
Lon: 129° 07.298 W
▼
Bottom
Lat: 53° 40.313 N
Lon: 129° 07.322 W
▼
Finish
Lat: 53° 40.297 N
Lon: 129° 07.324 W

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

BIO = NISKINS 1, 2, 3
5, 6, 7

IOS NISKINS 4, 8
Bucket

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: D0UG31 Event #: 50 Vessel: TULLY UTC Date (dd|mmm|yyyy): 26 | 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		TOC	DOC	DOM	5-18					
1		169	BOT-5	✓	303	✓	✓											
2		176	200	✓	200.6	✓	✓											
3		171	150	✓	150.6	✓	✓											
4		172	100	✓	100.6	✓	✓											
5		173	75	✓	75.0	✓✓	✓											
6		174	50	✓	50.7	✓	✓✓											
7		175	30	✓	30.6	✓	✓											
8		176	20			✓✓	✓		✓✓									
9		177	10			✓	✓✓		✓✓									
10		178	0					✓✓	✓✓	✓✓	✓✓	✓✓	✓✓					
11		179	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: 311 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	11 : 39	04 : 39
Bottom (BO)	11 : 47	04 : 47
End (EN)	12 : 01	:

Positional Information

Start

Lat: 53° 36.700 N

Lon: 129° 12.653 W

Bottom

Lat: 53° 36.696 N

Lon: 129° 12.704 W

Finish

Lat: 53° 36.667 N

Lon: 129° 12.754 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: 2014-50 Station: KSK1 Event #: 52 Vessel: TULLI UTC Date (dd|mmm|yyyy): 26 | 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		TOC	DOC	CDOM	818					
1		180	bot-5	✓ 369	✓	✓												
2		181	300	✓	✓	✓												
3		182	250	✓	✓	✓												
4		183	200	✓	✓	✓												
5		184	150	✓	✓	✓												
6		185	100	✓	✓	✓												
7		186	75	✓	✓	✓												
8		187	50	✓	✓	✓												
9		188	30	✓	✓	✓												
10		189	20	✓	✓	✓		✓	✓									
11		190	10	✓	✓	✓		✓	✓									
12		191	0	✓			✓			✓	✓	✓	✓	✓				
13		192	0	✓	✓	✓	✓	✓										
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 370 m
Transmisso Cleaned: (Y) N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	13:25	06:25
Bottom (BO)	13:34	:
End (EN)	13:52	:

Positional Information
Lat: 53° 28.831 N
Lon: 129° 12.388 W

Bottom
Lat: 53° 28.798 N
Lon: 129° 12.403 W

Finish
Lat: 53° 28.752 N
Lon: 129° 12.509 W

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

BIO+ PARTICLES

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: KSK1p Event #: 55 Vessel: TULLY UTC Date (dd|mmm|yyyy): 26 | 07 | 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		193	6-5	✓ 368	/	/	/	/	/	/	/	/	/	/	BIO
2		194	6-5	✓ 368	/	/	/	/	/	/	/	/	/	/	BIO
3		195	6-5	✓ 368	/	/	/	/	/	/	/	/	/	/	BIO
4		196	6-5	✓ 368	/	/	/	/	/	/	/	/	/	/	IOS
5		197	200	✓ 200	/	/	/	/	/	/	/	/	/	/	BIO
6		198	200	✓ 200	/	/	/	/	/	/	/	/	/	/	BIO
7		199	200	✓ 200	/	/	/	/	/	/	/	/	/	/	BIO
8		200	200	✓ 200	/	/	/	/	/	/	/	/	/	/	IOS
9		201	100	✓ 100	/	/	/	/	/	/	/	/	/	/	BIO
10		202	100	✓ 100	/	/	/	/	/	/	/	/	/	/	BIO
11		203	100	✓ 100	/	/	/	/	/	/	/	/	/	/	BIO
12		204	100	✓ 100	/	/	/	/	/	/	/	/	/	/	IOS
13		205	50	✓ 50	/	/	/	/	/	/	/	/	/	/	BIO
14		206	50	✓ 50	/	/	/	/	/	/	/	/	/	/	BIO
15		207	50	✓ 50	/	/	/	/	/	/	/	/	/	/	BIO
16		208	50	✓ 50	/	/	/	/	/	/	/	/	/	/	IOS
17		209	0	✓ 1.5	/	/	/	/	/	/	/	/	/	/	BIO
18		210	0	✓ 1.5	/	/	/	/	/	/	/	/	/	/	BIO
19		211	0	✓ 1.5	/	/	/	/	/	/	/	/	/	/	BIO
20		212	0	✓ 1.5	/	/	/	/	/	/	/	/	/	/	IOS
21		213	BUCKET(0)												IOS
22															
23															
24															

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
58

Bottom Depth: 370 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☒ N

Time	UTC	Local
Start (BE)	14:52	07:52
Bottom (BO)	15:00	08:00
End (EN)	:	:

Positional Information

Lat:	53° 28.841' N
Lon:	129° 12.407' W
▼	
Lat:	53° 28.841' N
Lon:	129° 12.407' W
▼	
Lat:	53° 28.870' N
Lon:	129° 12.514' W

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

BIO NISKINS: 1, 2, 3 13, 14, 15
 5, 6, 7 17, 18, 19
 9, 10, 11
 10S NISKINS: 4, 8, 12, 16, 20+ bucket

BIO + PARTICLES

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46

Station: DOUG 4

Event #: 65

Vessel: TULLY

UTC Date (dd|mmm|yyyy): 27 | 07 | 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		214	6-5	✓ 218	/	/	/	/	/	/	/	/	/	/	/	/	} B10
2		215	6-5	✓ 218													
3		216	6-5	✓ 218													
4		217	6-5	✓ 218													
5		218	0	✓ 1.8	/	/	/	/	/	/	/	/	/	/	/	/	} 105
6		219	0	✓ 1.8													
7		220	0	✓ 1.8													
8		221	0	✓ 1.8													
9		222	BUCKET	0													} 105
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 221 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	01:12	18:12
Bottom (BO)	01:20	18:20
End (EN)	01:25	18:25

Positional Information

Lat:	53° 55' . 613 N
Lon:	128° 42' . 286 W

Start

▼

Lat:	53° 55' . 621 N
Lon:	128° 42' . 284 W

Bottom

▼

Lat:	53° 55' . 631 N
Lon:	128° 42' . 284 W

Finish

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

BIO NISKINS

1, 2, 3
5, 6, 7

105 NISKINS

4, 8 + bucket

SUPER CHEM.

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: DOUG 4 Event #: 68 Vessel: TULY UTC Date (dd|mmm|yyyy): 27|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		223	200-5	✓ 214	✓	✓	✓			TOC	DOC	CO ₂	88	ph ₇₀		
2		224	200-5	✓ "			✓			✓	✓	✓	✓			
3		225	200	✓	✓	✓	✓									
4		226	200	✓			✓			✓	✓	✓	✓			
5		227	150		✓	✓	✓									
6		228	150				✓			✓	✓	✓	✓			
7		229	100		✓	✓	✓									
8		230	100				✓			✓	✓	✓	✓			
9		231	75		✓	✓	✓									
10		232	75				✓			✓	✓	✓	✓			
11		233	50		✓	✓	✓									
12		234	50				✓			✓	✓	✓	✓			
13		235	30		✓	✓	✓									
14		236	30				✓			✓	✓	✓	✓			
15		237	20		✓	✓	✓	✓								
16		238	20				✓			✓	✓	✓	✓			
17		239	10		✓	✓	✓	✓								
18		240	10				✓			✓	✓	✓	✓			
19		241	0		✓	✓	✓	✓								
20		242	0				✓			✓	✓	✓	✓	✓		
21																
22																
23																
24																

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

Bottom Depth: 218 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	03:00	20:00
Bottom (BO)	03:04	:
End (EN)	03:20	:

Positional Information

Lat:	<u>53° 55.709</u> N
Lon:	<u>128° 42.142</u> W

▼

Lat:	<u>53° 55.712</u> N
Lon:	<u>128° 42.184</u> W

▼

Lat:	<u>53° 55.768</u> N
Lon:	<u>128° 42.176</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: 2015-46 Station: DOUG 11 Event #: 73 Vessel: TULLY UTC Date (dd|mmm|yyyy): 27|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		TOC	DOC	CDOM	5180					
1		243	245	✓ 317	✓	✓												
2		244	300	✓	✓	✓												
3		245	250		✓	✓												
4		246	200		✓	✓												
5		247	150		✓	✓												
6		248	100		✓	✓												
7		249	75		✓	✓												
8		250	50		✓	✓												
9		251	30		✓	✓												
10		252	20		✓	✓		✓										
11		253	10		✓	✓		✓										
12		254	0				✓		✓	✓	✓	✓	✓					
13		255	0		✓	✓	✓	✓										
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 320 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	05:13	:
Bottom (BO)	05:20	:
End (EN)	05:43	:

Positional Information
 Lat: 53° 49.806 N
 Lon: 128° 49.400 W

Start

Lat: 53° 49.800 N
 Lon: 128° 49.430 W

Bottom

Lat: 53° 49.808 N
 Lon: 128° 49.442 W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)
bottles tripped out of order. The 200 m bottle

BIO + PARTICLE

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: DOUGILL Event #: 74 Vessel: TULLY UTC Date (dd|mmm|yyyy): 27 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		256	h-5															} BIO
2		257	h-5															
3		258	h-5															
4		259	h-5															} BIO
5		260	0															
6		261	0															
7		262	0															} 105
8		263	0															
9		264	BUCKET															
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: 327 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>06:18</u>	<u>23:18</u>
Bottom (BO)	<u>06:26</u>	:
End (EN)	<u>06:34</u>	:

Positional Information

Start	Lat: <u>53° 49.819</u> N
	Lon: <u>128° 49.258</u> W
Bottom	Lat: <u>53° 49.822</u> N
	Lon: <u>128° 49.270</u> W
Finish	Lat: <u>53° 49.828</u> N
	Lon: <u>128° 49.295</u> W

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

BIO NISKINS = 1, 2, 3
 5, 6, 7

105 NISKINS = 4, 8
 + bucket

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: DOUG-16 Event #: 78 Vessel: TULLY UTC Date (dd|mmm|yyyy): 27 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		TOC	DOC	CDOM	80					
1		265	Dot-5	✓ 376	✓	✓												
2		266	350		✓	✓												
3		267	300		✓✓	✓												
4		268	250		✓	✓												
5		269	200		✓	✓✓												
6		270	150		✓	✓												
7		271	100		✓	✓												
8		272	75		✓	✓												
9		273	50		✓✓	✓												
10		274	30		✓	✓												
11		275	20		✓	✓✓		✓✓										
12		276	10		✓	✓		✓✓										
13		277	0		✓	✓	✓	✓✓										
14		278	0			✓	✓			✓✓	✓✓	✓✓	✓✓					
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 377 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	08:23	01:23
Bottom (BO)	08:31	:
End (EN)	08:50	:

Positional Information

Lat:	<u>53° 46.714</u>	N
Lon:	<u>128° 54.568</u>	W

▼

Lat:	<u>53° 46.714</u>	N
Lon:	<u>128° 54.577</u>	W

▼

Lat:	<u>53° 46.754</u>	N
Lon:	<u>128° 54.575</u>	W

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

BIO + PARTICLE

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: D011616 Event #: 80 Vessel: TULLY UTC Date (dd|mmm|yyyy): 27 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		279	6-5															} BIO
2		280	6-5															
3		281	6-5															
4		282	6-5															} 105
5		293	0															
6		284	0															} BIO
7		285	0															
8		286	0															} 105
9		287	BUCKET															
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: 383 m
Transmisso Cleaned: ☒ Y / ☐ N
Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	<u>09:41</u>	<u>02:41</u>
Bottom (BO)	<u>09:49</u>	<u>02:49</u>
End (EN)	<u>09:57</u>	<u>02:57</u>

Positional Information
Start
Lat: 53° 46.823 N
Lon: 128° 54.510 W

Bottom
Lat: 53° 46.855 N
Lon: 128° 54.557 W

Finish
Lat: 53° 46.920 N
Lon: 128° 54.598 W

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

BIO NISKINS 1, 2, 3
5, 6, 7

105 NISKINS 4, 8
bucket

SUPER CHEM

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: FOCI Event #: 93 Vessel: Tully UTC Date (dd|mmm|yyyy): 28 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	DC/AIR	TOC	DOC	CDOM	818	PH/HT			
1		288	bot-5	✓ 366	✓	✓	✓		✓								
2		289	bot-5	✓			✓			✓	✓	✓	✓				
3		290	300	✓	✓	✓	✓		✓								
4		291	300	✓			✓			✓	✓	✓	✓				
5		292	250	✓	✓	✓	✓		✓								
6		293	250	✓			✓			✓	✓	✓	✓				
7		294	200	✓	✓✓	✓✓	✓		✓✓								
8		295	200	✓			✓			✓✓	✓	✓	✓				
9		296	150		✓	✓	✓		✓								DIc might have double HgCl ₂
10		297	150				✓			✓	✓	✓	✓				
11		298	100		✓	✓	✓		✓								
12		299	100				✓			✓	✓✓	✓	✓				
13		300	75		✓	✓	✓		✓								
14		301	75				✓			✓	✓	✓✓	✓				
15		302	50		✓	✓	✓		✓✓								
16		303	50				✓			✓	✓	✓	✓				
17		304	30		✓✓	✓✓	✓		✓								
18		305	30				✓			✓	✓	✓	✓				
19		306	20		✓	✓	✓	✓✓	✓								
20		307	20				✓			✓	✓	✓	✓				
21		308	10		✓	✓	✓	✓✓	✓								
22		309	10				✓			✓	✓	✓	✓				
23		310	0		✓	✓	✓	✓✓	✓								
24		311	0				✓			✓✓	✓✓	✓✓	✓				

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

Bottom Depth: 369 m
 Transmisso Cleaned: ☒ Y ☐ N
 Fluorometer Cleaned: ☐ Y ☐ N

Time	UTC	Local
Start (BE)	02:22	07:22
Bottom (BO)	02:30	:
End (EN)	02:52	:

Positional Information

Lat:	53° 44.195	N
Lon:	129° 1.812	W

Start

Lat:	53° 44.197	N
Lon:	129° 1.811	W

Bottom

Lat:	53° 44.184	N
Lon:	129° 1.798	W

Finish

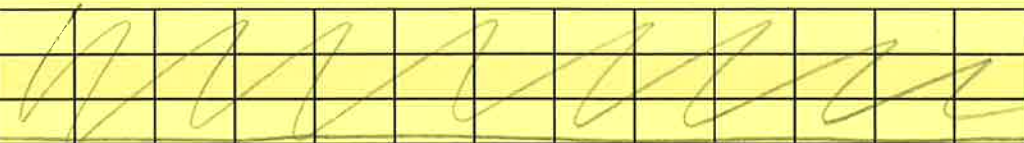
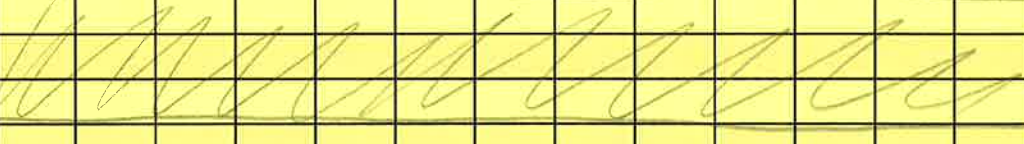
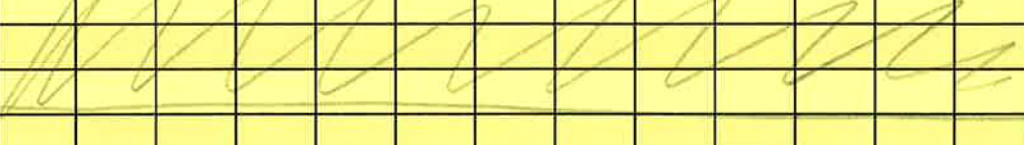
Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: FOCI Event #: 107 Vessel: TULLY UTC Date (dd|mmm|yyyy): 28 | 07 | 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		312	6-5	✓ 358													B10
2		313	6-5	✓ 358													
3		314	6-5	✓ 358													
4		315	6-5	✓ 358													
5		316	200	✓ 200													105
6		317	200	✓ 200													
7		318	200	✓ 200													
8		319	200	✓ 200													
9		320	100	✓ 101													B10
10		321	100	✓ 101													
11		322	100	✓ 101													
12		323	100	✓ 101													
13		324	50	✓ 50													105
14		325	50	✓ 50													
15		326	50	✓ 50													
16		327	50	✓ 50													
17		328	0	✓ 1.8													
18		329	0	✓ 1.8													
19		330	0	✓ 1.8													B10
20		331	0	✓ 1.8													
21		332	0	✓ 1.8													
22		333	0	✓ 1.8													
23		334	0	✓ 1.8													
24		335	0	✓ 1.8													*spare

Profile type:
 Ros (default) | TrMetlRos | X-Niskin
 Watchkeeper(s):
88

Bottom Depth: 359 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	13:11	06:11
Bottom (BO)	13:19	06:19
End (EN)	13:28	06:28

Positional Information

Lat:	53° 44.042	N
Lon:	129° 2.239	W

▼

Lat:	53° 44.028	N
Lon:	129° 2.247	W

▼

Lat:	53° 44.024	N
Lon:	129° 2.225	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)
 Altimeter cut out about 8m above bottom

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

336 Duckett

B10 = 1, 2, 3
 5, 6, 7
 9, 10, 11
 13, 14, 15

17-24*

105 = 4, 8, 12, 16
 24*

Bot 24 is a spare - IF B10 does not use it - our sample will come from it, or it will be a composite of left over water from other

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: HECI Event #: 19 Vessel: Tully UTC Date (dd|mmm|yyyy): 29 | 07 | 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	Chl b	Chl c	Chl d	Chl e	Chl f	Chl g	Chl h	Chl i	
1		312	40				✓	✓✓									calibration for seapket @ HECI mooring
2		313	0														
3		314	0														
4		315	0														
5		316	0														
6		317	0														
7		318	0														
8		319	0														
9		320	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):

Bottom Depth: 129 m
Transmisso Cleaned: Y N
Fluorometer Cleaned: Y N
Time UTC Local
Start (BE) 23:47 :
Bottom (BO) 23:54 :
End (EN) 23:58 :

Positional Information
Start Lat: 52° 49.408 N
Lon: 129° 50.642 W
Bottom Lat: 49.418 N
Lon: 50.591 W
Finish Lat: 49.423 N
Lon: 50.546 W

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

24

MARLIN

5

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: EFFF01 Event #: 135 Vessel: TULLY UTC Date (dd/mmm/yyyy): 02 | Aug | 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		321	6-5	✓	32	✓												
2		322	20	✓	20	✓✓												
3		323	10	✓	10	✓												
4		324	0	✓	1.6	✓												
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):
SS + CW

Bottom Depth: 35 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	17:04	10:04
Bottom (BO)	17:07	10:07
End (EN)	17:09	10:09

Positional Information

Start	Lat: 49° 5' .506 N
	Lon: 125° 11' .680 W
	▼
Bottom	Lat: 49° 5' .506 N
	Lon: 125° 11' .670 W
	▼
Finish	Lat: 49° 5' .503 N
	Lon: 125° 11' .654 W

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

MARLIN

7

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: EFO2 Event #: 136 Vessel: TULLY UTC Date (dd|mmm|yyyy): 02 | Aug | 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		325	16.5	✓ 6.6	✓													O ₂ < 1.5 mL/L
2		326	50	✓ 52.8	✓													O ₂ < 1.5 mL/L
3		327	30	✓ 30	✓													
4		328	20	✓ 20.8	✓													O ₂ + T sensors
5		329	10	✓ 10	✓													spiking at each
6		330	0	✓ 1.6	✓													stop.
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):
SS + CW

Bottom Depth: 68 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	17:28	10:28
Bottom (BO)	17:31	10:31
End (EN)	17:37	10:37

Positional Information

Start	Lat: 49 ° 4 . 996 N
	Lon: 125 ° 10 . 304 W
Bottom	Lat: 49 ° 4 . 994 N
	Lon: 125 ° 10 . 295 W
Finish	Lat: 49 ° 4 . 992 N
	Lon: 125 ° 10 . 291 W

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

MARLIN

10

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: EFF03 Event #: 137 Vessel: TULLY UTC Date (dd|mmm|yyyy): 02 | Aug | 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		331	6-5	✓ 115	✓													02 < 1.5 mL/L
2		332	100	✓ 100	✓													below 40 m.
3		333	75	✓ 75	✓✓													
4		334	50	✓ 50	✓													
5		335	30	✓ 30	✓													
6		336	20	✓ 20	✓✓													
7		337	10	✓ 10	✓													
8		338	0	✓ 1.6	✓													
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):
ES + CW

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

Time	UTC	Local
Start (BE)	<u>18 : 01</u>	<u>11 : 01</u>
Bottom (BO)	<u>18 : 04</u>	<u>11 : 04</u>
End (EN)	<u>18 : 13</u>	<u>11 : 13</u>

Positional Information
Start
Lat: 49 ° 4 . 276 N
Lon: 125 ° 9 . 412 W

Bottom
Lat: 49 ° 4 . 279 N
Lon: 125 ° 9 . 412 W

Finish
Lat: 49 ° 4 . 276 N
Lon: 125 ° 9 . 412 W

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

OCTOPUS

6

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: EFFF04 Event #: 139 Vessel: TULLY UTC Date (dd|mmm|yyyy): 02 | Aug | 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		339	0-5	✓ 60	✓													O ₂ 4.5 mL/L
2		340	30	✓ 30	✓													below 50m
3		341	20	✓ 20	✓													
4		342	10	✓ 10	✓													
5		343	0	✓ 2.2	✓													
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):
SJ + CW.

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

Time	UTC	Local
Start (BE)	19 :07	12 :07
Bottom (BO)	19 :12	12 :12
End (EN)	19 :17	12 :17

Positional Information
Start
Lat: 49 ° 3 .148 N
Lon: 125 ° 8 .581 W

Bottom
Lat: 49 ° 3 .136 N
Lon: 125 ° 8 .590 W

Finish
Lat: 49 ° 3 .132 N
Lon: 125 ° 8 .596 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: 2015-46 Station: EEE05 Event #: 140 Vessel: TULLY UTC Date (dd|mmm|yyyy): 02 | Aug | 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		344	6-5	✓ 199	✓													
2		345	175	✓ 175	✓✓													
3		346	150	✓ 150	✓													
4		347	125	✓ 125	✓													
5		348	100	✓ 100	✓													
6		349	75	✓ 75	✓✓													
7		350	50	✓ 50	✓													
8		351	30	✓ 30	✓													
9		352	20	✓ 20	✓													
10		353	10	✓ 10	✓													
11		354	0	✓ 15	✓													
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 202 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

TimeUTCLocal

Start (BE)19 : 3912 : 39

Bottom (BO)19 : 4512 : 45

End (EN)19 : 5812 : 58

Positional Information

Start

Lat: 49 ° 2 . 569 N

Lon: 125 ° 9 . 160 W

Bottom

Lat: 42 ° 2 . 567 N

Lon: 125 ° 9 . 167 W

Finish

Lat: 49 ° 2 . 566 N

Lon: 125 ° 9 . 186 W

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

OCTOPUS KTHYOSAUROS

11

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: EEF06 Event #: 141 Vessel: TULLY UTC Date (dd|mmm|yyyy): 02 | Aug | 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		356	0-5	✓ 149	✓													
2		357	125	✓ 125	✓													
3		358	100	✓ 100	✓✓													
4		359	75	✓ 75	✓													
5		360	50	✓ 50	✓													O ₂ + % Tr spiked
6		361	30	✓ 30	✓													+ T during upcast
7		362	20	✓ 20	✓✓													
8		363	10	✓ 10	✓													
9		364	0	✓ 1.8	✓													
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 148 m
Transmisso Cleaned: Y | N
Fluorometer Cleaned: Y | N
Time UTC Local
Start (BE) 20 : 26 13 : 26
Bottom (BO) 20 : 32 13 : 32
End (EN) 20 : 42 13 : 42

Positional Information
Start
Lat: 49° 1 . 774 N
Lon: 125° 9 . 160 W
Bottom
Lat: 49° 1 . 774 N
Lon: 125° 9 . 160 W
Finish
Lat: 49° 1 . 786 N
Lon: 125° 9 . 187 W

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

ICTHYOSAURUS

9

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: EFO7 Event #: 142 Vessel: TULLY UTC Date (dd|mmm|yyyy): 02 | Aug | 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		365	6-5	✓ 117	✓													
2		366	100	✓ 100	✓													O ₂ < 1.5 mL/L
3		367	75	✓ 75	✓													at 83m
4		368	50	✓ 50	✓													
5		369	30	✓ 30	✓													O ₂ + % Tr spiking
6		370	20	✓ 20	✓													on upcast
7		371	10	✓ 10	✓													starting at 75m
8		372	0	✓ 1.8	✓													
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):
SJ+CW

Bottom Depth: 116 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	21 : 00	14 : 00
Bottom (BO)	:	:
End (EN)	21 : 14	14 : 14

Positional Information
Start
Lat: 49 ° 1 . 250 N
Lon: 125 ° 9 . 373 W

Bottom
Lat: 49 ° 1 . 247 N
Lon: 125 ° 9 . 374 W

Finish
Lat: 49 ° 1 . 241 N
Lon: 125 ° 9 . 373 W

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

ICTH40SAURUS

SHARK

8

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: EFF08 Event #: 143 Vessel: TULLY UTC Date (dd|mmm|yyyy): 02 | Aug | 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		373	10-5	✓ 86	✓✓													
2		374	75	✓ 75	✓													
3		375	50	✓ 50	✓													
4		376	30	✓ 30	✓													
5		377	20	✓ 20	✓													
6		378	10	✓ 10	✓													
7		379	0	✓ 1.6	✓													
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):
SJ + CW

Bottom Depth: 87 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / (N)
Time UTC Local
Start (BE) 21 : 35 14 : 35
Bottom (BO) 21 : 39 14 : 39
End (EN) 21 : 46 14 : 46

Positional Information
Start
Lat: 14° 0' . 680 N
Lon: 125° 10' . 199 W
▼
Bottom
Lat: 14° 0' . 672 N
Lon: 125° 10' . 201 W
▼
Finish
Lat: 49° 0' . 662 N
Lon: 125° 10' . 216 W

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

IC17408AUR

~~SHARP~~

6

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: EFF09 Event #: 144 Vessel: TULLY UTC Date (dd|mmm|yyyy): 02|Aug|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		381	65	✓ 62	✓													
2		382	30	✓ 30	✓													
3		383	20	✓ 20	✓													
4		384	10	✓ 10	✓													
5		385	0	✓ 2.0	✓													
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):
SJ + CW

Bottom Depth: 65 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>22:08</u>	<u>15:08</u>
Bottom (BO)	<u>22:13</u>	<u>15:13</u>
End (EN)	<u>22:17</u>	<u>15:17</u>

Positional Information
Start
Lat: 49° 0' . 077 N
Lon: 125° 10' . 870 W

Bottom
Lat: 49° 0' . 072 N
Lon: 125° 10' . 876 W

Finish
Lat: 49° 0' . 073 N
Lon: 125° 10' . 891 W

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

NOTE THERE IS NO SAMPLE 380 !!

SHARK

(8)

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: EFF10 Event #: 145 Vessel: TULLY UTC Date (dd|mmm|yyyy): 02 | Aug | 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		386	6-5	✓ 98	✓													
2		387	75	✓ 75	✓													
3		388	50	✓ 50	✓													
4		389	30	✓ 30	✓													
5		390	20	✓ 20	✓													
6		391	10	✓ 10	✓													
7		392	0	✓ 1.9	✓													
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):
SS + CW

Bottom Depth: 101 m
Transmisso Cleaned: Y / (N)
Fluorometer Cleaned: Y / (N)

Time	UTC	Local
Start (BE)	<u>22:29</u>	<u>15:29</u>
Bottom (BO)	<u>22:32</u>	<u>15:32</u>
End (EN)	<u>22:41</u>	<u>15:41</u>

Positional Information
Lat: 48° 59' . 857 N
Lon: 125° 11' . 210 W

Bottom
Lat: 48° 59' . 851 N
Lon: 125° 11' . 210 W

Finish
Lat: 48° 59' . 833 N
Lon: 125° 11' . 198 W

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

SHARK.

TURBLE

7

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2014-50 Station: EFF11 Event #: 146 Vessel: TULLY UTC Date (dd|mmm|yyyy): 02 | Aug | 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		393	60-5	✓ 87	✓													
2		394	50	✓ 50	✓													
3		395	30	✓ 30	✓													
4		396	20	✓ 20	✓													
5		397	10	✓ 10	✓													
6		398	0	2.2	✓													
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):
SS + CW

Bottom Depth: 90 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>22 :58</u>	<u>15 :58</u>
Bottom (BO)	<u>23 :01</u>	<u>16 :01</u>
End (EN)	<u>23 :08</u>	<u>16 :08</u>

Positional Information
Start
Lat: 48° 59 . 141 N
Lon: 125° 11 . 052 W

Bottom
Lat: 48° 59 . 140 N
Lon: 125° 11 . 038 W

Finish
Lat: 48° 59 . 156 N
Lon: 125° 11 . 008 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: 2015-46 Station: EPP12 Event #: 147 Vessel: TULLY UTC Date (dd|mmm|yyyy): 02 | Aug | 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		399	6-5	✓ 91	✓													
2		400	75	✓ 75	✓													
3		401	50	✓ 50	✓✓													
4		402	30	✓ 30	✓													
5		403	20	✓ 20	✓													
6		404	10	✓ 10	✓													
7		405	0	2.0	✓													
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetRos | X-Niskin
Watchkeeper(s):
SJ + CW

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

Time	UTC	Local
Start (BE)	23 : 35	16 : 35
Bottom (BO)	23 : 39	16 : 39
End (EN)	23 : 46	16 : 46

Positional Information
Start
Lat: 48 ° 58 . 019 N
Lon: 125 ° 10 . 498 W

Bottom
Lat: 48 ° 58 . 016 N
Lon: 125 ° 10 . 488 W

Finish
Lat: 48 ° 58 . 012 N
Lon: 125 ° 10 . 498 W

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

TURTLE

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2015-46 Station: EFF13 Event #: 148 Vessel: TULLY UTC Date (dd|mmm|yyyy): 03 | Aug | 2015

90

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		406	8-5	✓ 101	✓													
2		407	75	✓ 75.5	✓													
3		408	50	✓ 50	✓													
4		409	30	✓ 30	✓													
5		410	20	✓ 20	✓													
6		411	10	✓ 10	✓													large subsurface
7		412	0	✓ 1.9	✓													O ₂ max ~ 10m/L
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):
SJ + CW

Bottom Depth: 103 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	00:06	17:06
Bottom (BO)	00:12	17:12
End (EN)	00:17	17:12

Positional Information
Start
Lat: 48° 56 . 483 N
Lon: 125° 10 . 559 W

Bottom
Lat: 48° 56 . 483 N
Lon: 125° 10 . 609 W

Finish
Lat: 48° 56 . 490 N
Lon: 125° 10 . 627 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: 2015-46 Station: A1 Event #: 150 Vessel: TULLY UTC Date (dd|mmm|yyyy): 03 | Aug | 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	TOC	DOC	CDOM	818					
1		413	6-5	✓ 525	✓		✓										* sal calibration
2		414	175	✓ 175	✓✓												
3		415	0	✓ 1.8			✓		✓	✓	✓	✓					
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):
SJ/DS/W

Bottom Depth: 533 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: (Y) / N

Time	UTC	Local
Start (BE)	19:39	:
Bottom (BO)	19:50	:
End (EN)	:	:

Positional Information

Start
Lat: 48° 31.811 N
Lon: 126° 12.379 W

▼

Bottom
Lat: 48° 31.822 N
Lon: 126° 12.379 W

▼

Finish
Lat: 48° 31.822 N
Lon: 126° 12.358 W

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