

PARTICLES

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: SOG-N Event #: 02 Vessel: TULLY UTC Date (dd|mmm|yyyy): 05 Jul 2016

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	25	6-5												
2	2	26	100	100											
3	3	27	50	50											
4	4	28	20	20											
5	5	29	0	3											
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):
CH/CW

Bottom Depth: 332 m
 Transmissometer Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	<u>16:26</u>	:
Bottom (BO)	<u>16:32</u>	:
End (EN)	<u>16:43</u>	:

Positional Information

Lat:	<u>49° 50.04</u>	N
Lon:	<u>124° 51.81</u>	W

▼

Lat:	°	.	N
Lon:	°	.	W

▼

Lat:	<u>49° 50.02</u>	N
Lon:	<u>124° 51.86</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: 2016-12 Station: SOG-N Event #: 03 Vessel: TULLY UTC Date (dd|mmm|yyyy): 05 Jul 2016

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	18	DOC				
1	1	01	65	326	✓	✓											
2	2	02	65	326			✓			✓	✓	✓	✓				
3	3	03	300	300	✓	✓											
4	4	04	300	300			✓			✓	✓	✓	✓				
5	5	05	250	250	✓	✓											
6	6	06	250	250			✓			✓	✓	✓	✓				
7	7	07	200	200	✓	✓											
8	8	08	200	200			✓			✓	✓	✓	✓				
9	9	09	150	150	✓	✓											
10	10	10	150	150			✓			✓	✓	✓	✓				
11	11	11	100	100	✓	✓											
12	12	12	100	100			✓			✓	✓	✓	✓				
13	13	13	75	75	✓	✓											
14	14	14	75	75			✓			✓	✓	✓	✓				
15	15	15	50	50	✓	✓											
16	16	16	50	50			✓			✓	✓	✓	✓				
17	17	17	30	30	✓	✓											
18	18	18	30	30			✓			✓	✓	✓	✓				
19	19	19	20	20	✓	✓		✓									
20	20	20	20	20			✓			✓	✓	✓	✓				
21	21	21	10	10	✓	✓		✓									
22	22	22	10	10			✓			✓	✓	✓	✓				
23	23	23	0	3.1	✓	✓		✓									
24	24	24	0	3.1			✓			✓	✓	✓	✓				

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

Bottom Depth: 332 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N
 Time UTC Local
 Start (BE) 17:00 :
 Bottom (BO) 17:08 :
 End (EN) 17:31 :

Positional Information
 Start
 Lat: 49° 50.060 N
 Lon: 124° 51.76 W
 Bottom
 Lat: 49° 50.07 N
 Lon: 124° 51.77 W
 Finish
 Lat: 49° 50.06 N
 Lon: 124° 51.73 W

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

0150 SUPERCHEM + PARTICLES

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: HAKI Event #: 7 Vessel: TULLY UTC Date (dd|mmm|yyyy): 06 Jul 2016

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	ALK	TOC	DOC	CDOM	DBP	phyl	SPC			
1	1	30	b-5	137	✓	✓					✓	✓	✓	✓					
2	2	31	b-5	137			✓				✓	✓	✓	✓					
3	3	32	100	100	✓	✓					✓	✓	✓	✓					
4	4	33	100	100			✓				✓	✓	✓	✓					
5	5	34	75	75	✓✓	✓✓													
6	6	35	75	75			✓				✓	✓	✓	✓					
7	7	36	50	50	✓	✓	✓		✓✓									SeapHet	
8	8	37	50	50			✓				✓✓	✓✓	✓✓	✓✓					
9	9	38	50	50	~~~~~													✓✓✓	PARTICLE
10	10	39	40	40	~~~~~													~~~~~	SeapHet Col
11	11	40	30	30	✓	✓	✓		✓✓									SeapHet	
12	12	41	30	30			✓				✓	✓	✓	✓					
13	13	42	20	20	✓✓	✓✓		✓✓											
14	14	43	20	20			✓				✓	✓	✓	✓					
15	15	44	10	10	✓	✓		✓✓											
16	16	45	10	10			✓				✓✓	✓✓	✓✓	✓✓					
17	17	46	0	3	✓	✓	✓	✓✓											
18	18	47	0	3			✓				✓	✓	✓	✓	✓				
19	19	48	0	3	~~~~~													✓✓✓	Particle
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 140 m
Transmisso Cleaned: ☒ Y ☐ N
Fluorometer Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start (BE)	<u>17:48</u>	:
Bottom (BO)	<u>17:52</u>	:
End (EN)	<u>18:05</u>	:

Positional Information

Lat:	<u>51° 42' . 66</u>	N
Lon:	<u>128° 14' . 20</u>	W

▼

Lat:	<u>51° 42' . 66</u>	N
Lon:	<u>128° 14' . 15</u>	W

▼

Lat:	<u>51° 42' . 66</u>	N
Lon:	<u>128° 14' . 08</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: 2016-12

Station: SC74

Event #: 12

Vessel: TULLY

UTC Date (dd|mmm|yyyy): 07 JUL 2016

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	6-5	49	375	✓	✓										
2	2	300	50	300	✓	✓										
3	3	250	51	250	✓	✓										
4	4	200	52	200	✓	✓										
5	5	150	53	150	✓	✓										
6	6	100	54	100	✓	✓										
7	7	75	55	75	✓	✓										
8	8	50	56	50	✓	✓										
9	9	30	57	30	✓	✓										
10	10	20	58	20	✓	✓		✓	✓							
11	11	10	59	10	✓	✓		✓	✓							
12	12	0	60	3.3	✓	✓	✓		✓	✓	✓	✓	✓			
13	13	0	61	3.3	✓	✓		✓								
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

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

Time UTC Local
 Start (BE) 06:48 23:48
 Bottom (BO) 06:54 23:54
 End (EN) 07:12 00:12

Positional Information
 Lat: 53° 0' .68 N
 Lon: 129° 15' .83 W

▼
 Lat: 53° 0' .67 N
 Lon: 129° 15' .79 W

▼
 Lat: 53° 0' .67 N
 Lon: 129° 15' .69 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: 2016-12 Station: DOUG-11 Event #: 24 Vessel: TULLY UTC Date (dd|mmm|yyyy): 07|JUL|2016

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	DBP		SPC			
1	1	6-5	62	✓ 325	✓	✓												
2	2	300	63	✓ 300	✓	✓												
3	3	250	64	✓ 250	✓	✓												
4	4	200	65	✓ 200	✓✓	✓✓												
5	5	150	66	✓ 150	✓	✓												
6	6	100	67	✓ 100	✓	✓												
7	7	75	68	✓ 75	✓	✓												
8	8	50	69	✓ 50	✓✓	✓✓												
9	9	30	70	✓ 30	✓	✓												
10	10	20	71	✓ 21	✓	✓		✓✓										
11	11	10	72	✓ 10	✓	✓		✓✓										
12	12	0	73	✓ 3	✓	✓	✓		✓✓	✓✓	✓✓	✓✓						
13	13	0	74	✓ 3	✓	✓		✓✓										
14	14	0	75	✓ 3										✓✓				PARTICLES
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 327 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>16 : 43</u>	:
Bottom (BO)	<u>16 : 50</u>	:
End (EN)	<u>17 : 07</u>	:

Positional Information

Lat:	<u>53 ° 49 . 75</u>	N
Lon:	<u>128 ° 49 . 27</u>	W

▼

Lat:	<u>53 ° 49 . 76</u>	N
Lon:	<u>128 ° 49 . 19</u>	W

▼

Lat:	<u>53 ° 49 . 79</u>	N
Lon:	<u>128 ° 49 . 16</u>	W

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

SUPERSTATION + PARTICLES

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: DOUG 4 Event #: 25 Vessel: TACU UTC Date (dd|mmm|yyyy): 07 | JUL | 2016

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	SR	PhyTD		SPC		
1	1	76	6-5	✓ 213	✓	✓				✓	✓	✓	✓					
2	2	77	6-5	✓ 213			✓			✓	✓	✓	✓					
3	3	78	200	✓ 200	✓✓	✓✓				✓	✓	✓	✓					
4	4	79	200	✓ 200			✓			✓	✓	✓	✓					
5	5	80	150	✓ 151	✓	✓												
6	6	81	150	✓ 151			✓			✓	✓	✓	✓					
7	7	82	100	✓ 100	✓	✓												
8	8	83	100	✓ 100			✓			✓✓	✓✓	✓✓	✓✓					
9	9	84	75	✓ 75	✓	✓												
10	10	85	75	✓ 75			✓			✓	✓	✓	✓					
11	11	86	50	✓ 50	✓	✓												
12	12	87	50	✓ 50			✓			✓	✓	✓	✓					
13	13	88	30	✓ 30	✓✓	✓✓												
14	14	89	30	✓ 30			✓			✓	✓	✓	✓					
15	15	90	20	✓ 21	✓	✓		✓✓										
16	16	91	20	✓ 21			✓			✓✓	✓✓	✓✓	✓✓					
17	17	92	10	✓ 10	✓✓	✓✓		✓✓										
18	18	93	10	✓ 10			✓			✓	✓	✓	✓					
19	19	94	0	3	✓	✓		✓✓										
20	20	95	0	3			✓			✓	✓	✓	✓	✓				
21	21	96	0	3												✓✓✓	PARTICLES	
22																		
23																		
24																		

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

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

Time	UTC	Local
Start (BE)	<u>18:01</u>	:
Bottom (BO)	<u>18:07</u>	:
End (EN)	<u>18:22</u>	:

Positional Information

Lat:	<u>53° 55.56</u>	N
Lon:	<u>128° 42.31</u>	W

▼

Lat:	<u>53° 55.56</u>	N
Lon:	<u>128° 42.34</u>	W

▼

Lat:	<u>53° 55.56</u>	N
Lon:	<u>128° 42.35</u>	W

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

X3

76-90

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: Doug 16 Event #: 26 Vessel: TULCY UTC Date (dd|mmm|yyyy): 07|Jul|2016

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a								
									TOL	DOC	CDOM	518		SP		
1	1	97	65	✓ 372	✓	✓										
2	2	98	350	✓ 351	✓	✓										
3		99	300	✓ 300	✓	✓										
4		100	250	✓ 250	✓	✓										
5		101	200	✓ 200	✓	✓										
6		102	150	✓ 150	✓	✓										
7		103	100	✓ 100	✓	✓										
8		104	75	✓ 75	✓	✓										
9		105	50	✓ 50	✓	✓										
10		106	30	✓ 30	✓	✓										
11		107	20	✓ 20	✓	✓		✓	✓							
12		108	10	✓ 10	✓	✓		✓	✓							
13		109	0	✓ 2.8	✓	✓		✓	✓							
14		110	0	✓ 2.8			✓			✓	✓	✓	✓			
15		111	0	✓ 2.8									✓	✓	PARTICLES	
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

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

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

Positional Information

Lat:	°	.	N
Lon:	°	.	W

Start

▼

Lat:	°	.	N
Lon:	°	.	W

Bottom

▼

Lat:	°	.	N
Lon:	°	.	W

Finish

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

PARTICLES + DIC / Aik

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12

Station: FOCI

Event #: 28

Vessel: TULLY

UTC Date (dd|mmm|yyyy): 07 Jul 2016

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		112	105	✓ 1365												
2		113	100	✓ 100												
3		114	50	✓ 51												
4		115	50	✓ 51												
5		116	40	✓ 40												
6		117	30	✓ 30												
7		118	20	✓ 20												
8		119	0													
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

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

Time	UTC	Local
Start (BE)	20:58	:
Bottom (BO)	:	:
End (EN)	:	:

Positional Information		
Lat:	:	N
Lon:	:	W

Start

Bottom

Finish

Lat:	:	N
Lon:	:	W

Lat:	:	N
Lon:	:	W

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

SUPER STATION

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: FOCI Event #: 29 Vessel: TULLY UTC Date (dd|mmm|yyyy): 07 JUL 2016

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	CDOM	SR		photo		
1	1	120	b-5	1369	✓✓	✓✓											
2	2	121	b-5	1369			✓			✓	✓	✓	✓				
3	3	123	300	✓300	✓	✓											
4	4	124	300	✓300			✓			✓	✓	✓	✓				
5	5	125	250	✓251	✓	✓											
6	6	126	250	✓251			✓			✓✓	✓✓	✓✓	✓✓				
7	7	127	200	200	✓✓	✓✓											
8	8	128	200	200			✓			✓	✓	✓	✓				
9	9	129	150	151	✓	✓											
10	10	130	150	151			✓			✓	✓	✓	✓				
11	11	131	100	101	✓	✓											
12	12	132	100	101			✓			✓	✓	✓	✓				
13	13	133	75	75	✓	✓											
14	14	134	75	75			✓			✓	✓	✓	✓				
15	15	135	50	51	✓	✓											
16	16	136	50	51			✓			✓✓	✓✓	✓✓	✓✓				
17	17	137	30	30	✓	✓											
18	18	138	30	30			✓			✓	✓	✓	✓				
19	19	139	20	20	✓✓	✓✓		✓✓									
20	20	140	20	20			✓			✓	✓	✓	✓				
21	21	141	10	10	✓	✓		✓✓									
22	22	142	10	10		✓	✓			✓	✓	✓	✓				
23	23	143	0	3	✓	✓		✓✓									
24	24	144	0	3			✓			✓	✓	✓	✓		✓		

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

Bottom Depth: 371 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>21:41</u>	:
Bottom (BO)	<u>21:50</u>	:
End (EN)	<u>22:10</u>	:

Positional Information

Start	Lat: <u>53°44.03</u>	N
	Lon: <u>129°01.40</u>	W

Bottom

	Lat: <u>53°44.10</u>	N
	Lon: <u>129°01.43</u>	W

Finish

	Lat: .	N
	Lon: .	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: DOUG 26 Event #: 31 Vessel: Tully UTC Date (dd|mmm|yyyy): 08 | JUL | 2016

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	6-5	145	✓ 391	x	x												
2	2	350	146	✓ 350	x	x												
3	3	300	147	✓ 300	x	xx												
4	4	250	148	✓ 250	x	x												
5	5	200	149	✓ 201	x	x												
6	6	150	150	✓ 151	x	x												
7	7	100	151	✓ 100	x	x												Did not wait 30s
8	8	75	152	✓ 75	x	x												
9	9	50	153	✓ 50	x	xx												
10	10	30	154	✓ 31	xx	x												
11	11	20	155	✓ 21	x	x		xx										
12	12	10	156	✓ 11	x	x		xy										
13	13	0	157	✓ 3	xx	x	x	xx										
14	14	0	158	✓ 3			x					xx	xx	xx	xx			
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 397 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N
 Time UTC Local
 Start (BE) 00:50 :
 Bottom (BO) 01:03 :
 End (EN) : :

Positional Information
 Lat: 53 ° 40 .38 N
 Lon: 129 ° 07 .44 W
 Lat: 53 ° 40.25 N
 Lon: 129 ° 07.52 W
 Lat: ° . N
 Lon: ° . W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: DAUG-31 Event #: 34 Vessel: Tully UTC Date (dd|mmm|yyyy): 08 JUL 2016

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TOC	DOC	SIB	CO ₂		ph _{7.0}		SPC	
1	1	159	10-5	280	✓	✓												
2	2	160	200	200	✓	✓												
3	3	161	150	150	✓✓	✓✓												
4	4	162	75	75	✓	✓												
5	5	163	50	50	✓	✓												
6	6	164	30	30	✓	✓												
7	7	165	20	20	✓✓	✓✓		✓✓										
8	8	166	10	10	✓	✓		✓✓										
9	9	167	0	2.7	✓	✓		✓✓										
10	10	168	0	2.7			✓			✓✓	✓	✓✓	✓✓	✓✓		✓		
11	11	169	0														✓✓	PARTICLE
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

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

Time	UTC	Local
Start (BE)	02:42	19:42
Bottom (BO)	02:48	19:48
End (EN)	03:02	20:02

Positional Information

Lat:	<u>53° 36.600</u> N
Lon:	<u>129° 12.690</u> W

▼

Lat:	<u>53° 36.510</u> N
Lon:	<u>129° 12.730</u> W

▼

Lat:	<u>53° 36.400</u> N
Lon:	<u>129° 12.750</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: 2016-12 Station: KSKI Event #: 40 Vessel: Tully UTC Date (dd|mmm|yyyy): 08 JULY 2016

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	0-5	170	365	✓	✓										
2	2	300	171	300	✓	✓										
3	3	250	172	250	✓	✓										
4	4	200	173	200	✓	✓										
5	5	150	174	150	✓	✓										
6	6	100	175	100	✓✓	✓✓										
7	7	75	176	75	✓	✓										
8	8	50	177	50	✓	✓										
9	9	30	178	30	✓	✓										
10	10	20	179	20	✓✓	✓✓		✓✓								
11	11	10	180	10	✓	✓		✓✓								
12	12	0	181	2.8			✓		✓✓	✓✓	✓✓	✓✓				
13	13	0	182	2.8	✓	✓		✓✓								
14	14	0	183	2.8	~~~~~										✓✓✓	
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

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

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

Time	UTC	Local
Start (BE)	05:19	22:19
Bottom (BO)	05:24	22:24
End (EN)	05:44	22:44

Positional Information
 Start
 Lat: 53° 28.830 N
 Lon: 129° 12.530 W

Bottom
 Lat: 53° 28.840 N
 Lon: 129° 12.480 W

Finish
 Lat: 53° 28.865 N
 Lon: 129° 12.400 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: 2016-12 Station: Doug45 Event #: 42 Vessel: Tully UTC Date (dd|mmm|yyyy): 08|JUL|2016

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	OPM	818					
1	1	184	b-5	454	✓	✓											
2	2	185	400	400	✓	✓											
3	3	186	350	350	✓	✓											
4	4	187	300	300	✓	✓											
5	5	188	250	250	✓	✓											
6	6	189	200	200	✓	✓											
7	7	190	150	150	✓	✓											
8	8	191	100	100	✓	✓											
9	9	192	75	75	✓	✓											
10	10	193	50	50	✓	✓											
11	11	194	30	30	✓	✓											
12	12	195	20	20	✓	✓		✓									
13	13	196	10	10	✓	✓		✓									
14	14	197	0	2.9			✓		✓	✓	✓	✓	✓				
15	15	198	0	2.9	✓			✓									
16	16	199	0	2.9										✓	✓		
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 452 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	07:19	00:19
Bottom (BO)	07:27	00:27
End (EN)	07:50	00:50

Positional Information
 Start
 Lat: 53° 22.270 N
 Lon: 129° 11.610 W

Bottom
 Lat: 53° 22.270 N
 Lon: 129° 11.610 W

Finish
 Lat: 53° 22.240 N
 Lon: 129° 11.720 W

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

Surface cast only

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: SC61 Event #: 46 Vessel: Tully UTC Date (dd|mmm|yyyy): 08 JUL 2016

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	224	0	3.2					SPC								
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):
SP

Bottom Depth: 502 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	10:54	08:54
Bottom (BO)	:	:
End (EN)	:	:

Positional Information
Lat: 53° 12' .630 N
Lon: 129° 25' .150 W

Start

Bottom

Finish

Lat: . N
Lon: . W

Lat: . N
Lon: . W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12

Station: SC61

Event #: 47

Vessel: Tully

UTC Date (dd|mmm|yyyy): 08 JUL 2016

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	818	COND	PT			
1	1	200	b-5	502	✓	✓										
2	2	201	b-5	502			✓		✓	✓	✓	✓				
3	3	202	400	400	✓	✓										
4	4	203	400	400			✓		✓	✓	✓	✓				
5	5	204	300	300	✓	✓										
6	6	205	300	300			✓		✓	✓	✓	✓				
7	7	206	200	200	✓✓	✓✓										
8	8	207	200	200			✓		✓✓	✓✓	✓✓	✓✓				
9	9	208	150	150	✓	✓										
10	10	209	150	150			✓		✓	✓	✓	✓				
11	11	210	100	100	✓	✓										
12	12	211	100	100			✓		✓	✓	✓	✓				
13	13	212	75	75	✓	✓										
14	14	213	75	75			✓		✓	✓	✓	✓				
15	15	214	50	50	✓✓	✓✓										
16	16	215	50	50			✓		✓	✓	✓	✓				
17	17	216	30	30	✓	✓										
18	18	217	30	30			✓		✓✓	✓✓	✓✓	✓✓				
19	19	218	20	20	✓	✓		✓✓								
20	20	219	20	20			✓		✓	✓	✓	✓				
21	21	220	10	10	✓	✓		✓✓								
22	22	221	10	10			✓		✓	✓	✓	✓				
23	23	222	0	3.2	✓	✓		✓✓								
24	24	223	0	3.2			✓		✓	✓	✓	✓	✓			

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

Bottom Depth: 502 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	11:07	04:07
Bottom (BO)	11:17	04:17
End (EN)	11:35	04:35

Positional Information

Lat:	53° 12' 610" N
Lon:	129° 25' 180" W

Bottom

Lat:	53° 12' 580" N
Lon:	129° 25' 250" W

Finish

Lat:	53° 12' 490" N
Lon:	129° 25' 320" 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: 2016-17 Station: HEC1 Event #: 56 Vessel: TULLY UTC Date (dd|mmm|yyyy): 09 JUL 2016

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	TOC	DOC	SR	com	ph	pyto	SPC	
1	1	225	0-5	✓ 162	✓	✓											
2	2	226	0-5	✓ 162			✓			✓	✓	✓	✓				
3	3	227	100	✓ 100	✓	✓											
4	4	228	100	✓ 100			✓			✓	✓	✓	✓				
5	5	229	75	✓ 75	✓✓	✓✓											
6	6	230	75	✓ 75			✓			✓✓	✓✓	✓✓	✓✓				
7	7	231	50	✓ 50	✓	✓		✓✓									DIC/AIK cal
8	8	232	50	✓ 50			✓			✓	✓	✓	✓				
9	9	233	40	✓ 41			✓	✓✓									DIC/AIK cal
10	10	234	30	✓ 31			✓			✓	✓	✓	✓				
11	11	235	30	✓ 31	✓	✓		✓✓									DIC/AIK cal
12	12	236	20	✓ 20			✓			✓	✓	✓	✓				
13	13	237	20	✓ 20	✓✓	✓✓		✓✓									
14	14	238	10	✓ 10			✓			✓✓	✓✓	✓✓	✓✓				
15	15	239	10	✓ 10	✓	✓		✓✓									
16	16	240	0	✓ 3			✓			✓	✓	✓	✓	✓			
17	17	241	0	✓ 3	✓	✓		✓✓									
18	18	242	0	✓ 3												✓✓	PARTICLES
19																	
20																	
21																	
22																	
23																	
24																	

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

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

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

Positional Information

Lat:	52° 49.27	N
Lon:	129° 50.72	W

Start

Lat:	52° 49.26	N
Lon:	129° 50.85	W

Bottom

Lat:	°	N
Lon:	°	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: 2016-02 Station: SRCW Event #: 58 Vessel: TULLY UTC Date (dd|mmm|yyyy): 08 JUL 2016

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	243	6-5	128	✓	✓												
2	2	244	100	100	✓	✓												
3	3	245	75	75	✓	✓												
4	4	246	50	50	✓	✓												
5	5	247	30	30	✓	✓												
6	6	248	20	20	✓	✓		✓	✓									
7	7	249	10	10	✓	✓		✓	✓									
8	8	250	0	2.9	✓	✓		✓	✓									
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 130 m
 Transmisso Cleaned: ☒ Y ☐ N
 Fluorometer Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start (BE)	04:15	21:15
Bottom (BO)	04:18	21:18
End (EN)	04:27	21:27

Positional Information
 Start
 Lat: 52° 25.730 N
 Lon: 129° 35.300 W

Bottom
 Lat: 52° 25.770 N
 Lon: 129° 35.330 W

Finish
 Lat: 52° 25.770 N
 Lon: 129° 35.420 W

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

Standard 10S Rosette

Water Properties Group

Sampling/Rosette Log

Enhanced

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12

Station: MSI

Event #: 59

Vessel: TULLY

UTC Date (dd|mmm|yyyy): 09 JUL 2016

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	SiO ₄	DOM		phyto	SPC		
1	1	251	6-5	209													20	
2	2	252	6-5	209	✓	✓												
3	3	253	6-5	209			✓			✓	✓	✓	✓					
4	4	254	150	150	✓	✓												
5	5	255	100	100	✓	✓												
6	6	256	75	75	✓	✓												
7	1	257	50	50	✓	✓												
8	8	258	50	50		✓	✓			✓	✓	✓	✓					
9	9	259	30	31	✓	✓												
10	10	260	20	20	✓	✓												
11	11	261	10	10	✓	✓												
12	12	262	0	3.6			✓			✓	✓	✓	✓		✓			
13	13	263	0	3.6	✓	✓												
14	14	264	0	3.6													20	
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

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

Time	UTC	Local
Start (BE)	07:58	00:58
Bottom (BO)	08:02	01:02
End (EN)	08:17	01:17

Positional Information
 Lat: 52° 8' .030 N
 Lon: 128° 50' .290 W

Start

Lat: 52° 8' .060 N
 Lon: 128° 50' .280 W

Bottom

Lat: 52° 8' .140 N
 Lon: 128° 50' .270 W

Finish

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

STANDARD

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12

Station: MS3

Event #: 62

Vessel: Tully

UTC Date (dd|mmm|yyyy): 09 JUL 2016

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	265	6-5	✓ 296	✓✓	✓✓												
2	2	266	290	✓ 200	✓	✓												Fogel & trip 280
3	3	267	200	✓ 200	✓	✓												
4	4	268	150	✓ 150	✓	✓												
5	5	269	100	✓ 100	✓	✓												
6	6	270	75	✓ 76	✓	✓												
7	7	271	50	✓ 50	✓✓	✓✓												
8	8	272	30	✓ 30	✓	✓		✓✓										
9	9	273	20	✓ 20	✓	✓												
10	10	274	10	✓ 11	✓	✓		✓✓										
11	11	275	0	✓ 4	✓	✓		✓✓										
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:

Ros (default) | TrMetlRos | X-Niskin

Watchkeeper(s):

CH, CW

Bottom Depth: 299 m

Transmissio Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time UTC Local

Start (BE) 18:24 :

Bottom (BO) : :

End (EN) : :

Positional Information

Lat: 51° 48.80 N

Lon: 129° 41.39 W

Start

Bottom

Finish

Lat: ° . N

Lon: ° . W

Lat: ° . N

Lon: ° . W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: _____

Station: MSH

Event #: 83

Vessel: Tully

UTC Date (dd|mmm|yyyy): 09 | JUL | 2016

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	SRP	DOM			SPC	
1	1	276	6-5	✓ 354													
2	2	277	6-5	✓ 354			✓			✓	✓	✓	✓				
3	3	278	6-5	✓ 354	✓	✓											
4	4	279	300	✓ 300	✓	✓											
5	5	280	250	✓ 250	✓	✓											
6	6	281	200	✓ 200	✓	✓											
7	7	282	150	✓ 150	✓	✓											
8	8	283	100	✓ 100	✓	✓											
9	9	284	75	✓ 76	✓	✓											
10	10	285	50	✓ 50			✓			✓	✓	✓	✓				
11	11	286	50	✓ 50	✓	✓											
12	12	287	30	✓ 30	✓	✓											
13	13	288	20	✓ 20	✓	✓		✓	✓								
14	14	289	10	✓ 10	✓	✓		✓	✓								
15	15	290	6	✓ 4	✓	✓											
16	16	291	0	✓ 4			✓			✓	✓	✓	✓				
17	17	293	0	✓ 4													
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 352 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N
 Time UTC Local
 Start (BE) 20:10 :
 Bottom (BO) 20:20 :
 End (EN) : :

Positional Information
 Lat: 51° 48.77 N
 Lon: 129° 41.52 W

Lat: 51° 41.57 N
 Lon: 129° 57.39 W

Lat: ° . N
 Lon: ° . W

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

Entered

STANDARD

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: M560 Event #: 65 Vessel: TULLY UTC Date (dd|mmm|yyyy): 10 JUL 2016

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	294	6-5	1332	✓✓	✓												
2	2	295	1250	1250	✓	✓	✓											
3	3	296	1000	1000	✓	✓												
4	4	297	750	750	✓	✓✓												
5	5	300	500	500	✓	✓												
6	6	301	400	400	✓	✓												
7	7	302	300	300	✓✓	✓✓												
8	8	303	250	250	✓	✓												
9	9	304	200	200	✓	✓												
10	10	305	150	150	✓	✓												
11	11	306	100	100	✓	✓												
12	12	307	75	75	✓✓	✓												
13	13	308	50	50	✓	✓												
14	14	309	30	30	✓	✓												
15	15	310	20	20	✓	✓			✓✓									
16	16	311	10	10	✓	✓✓			✓✓									
17	17	312	0	3.4	✓	✓			✓✓									
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 1333 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	02:32	19:32
Bottom (BO)	02:51	19:51
End (EN)	03:26	20:26

Positional Information

Lat:	51° 31' . 120	N
Lon:	130° 30' . 620	W

Start

▼

Lat:	51° 31' . 150	N
Lon:	130° 30' . 650	W

Bottom

▼

Lat:	51° 31' . 210	N
Lon:	130° 30' . 540	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: 2016-12 Station: MSB Event #: 67 Vessel: TULLY UTC Date (dd|mmm|yyyy): 10 JUL 2016

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	TOC	DOC	SR	SR	SR	SR	SR	SR	
1	1	65	313	2224													
2	2	65	314	2224													
3	3	65	315	2224	✓	✓											
4	4	1000	316	1000	✓	✓											
5	5	750	317	750	✓	✓											
6	6	500	318	500			✓		✓	✓	✓	✓					
7	7	500	319	500	✓	✓											
8	8	400	320	400	✓	✓											
9	9	300	321	300	✓	✓											
10	10	250	322	250	✓	✓											
11	11	200	323	200	✓	✓											
12	12	150	324	150	✓	✓											
13	13	100	325	100	✓	✓											
14	14	75	326	75	✓	✓											
15	15	50	327	50	✓	✓											
16	16	30	328	30	✓	✓											
17	17	20	329	20	✓	✓		✓									
18	18	10	330	10	✓	✓		✓									
19	19	0	331	3.3	✓	✓		✓									
20	20	0	332	3.3			✓		✓	✓	✓	✓	✓	✓			
21	21	0	333	3.3													
22																	
23																	
24																	

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

Bottom Depth: 2200 m
 Transmissio Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	07:01:00	01:01:00
Bottom (BO)	07:39:00	01:39:00
End (EN)	08:31:01	01:31:01

Positional Information

Lat:	51°23.530	N
Lon:	130°55.810	W

Bottom

Lat:	51°23.560	N
Lon:	130°55.870	W

Finish

Lat:	51°23.660	N
Lon:	130°55.810	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: 2016-12 Station: CI8 Event #: 68 Vessel: Tully UTC Date (dd|mmm|yyyy): 10 Jul 2016

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		DOC	DOC	818	CDOM		ph	SPC		
1	1	332	2065	✓ 165													✓	
2	2	333	2065	✓ 165			✓			✓	✓	✓	✓					
3	3	334	2065	✓ 165	✓	✓												
4	4	335	1500	✓ 1500	✓	✓												
5	5	336	1250	✓ 1250	✓	✓												
6	6	337	1000	✓ 1000	✓	✓												
7	7	338	750	✓ 750	✓	✓												
8	8	339	750	✓ 750			✓			✓	✓	✓	✓					
9	9	340	500	✓ 500	✓	✓												
10	10	341	400	✓ 400	✓	✓												
11	11	342	300	✓ 300	✓	✓												
12	12	343	250	✓ 250	✓	✓												
13	13	344	200	✓ 200	✓	✓												
14	14	345	150	✓ 150	✓	✓												
15	15	346	100	✓ 100	✓	✓												
16	16	347	75	✓ 75	✓	✓												
17	17	348	50	✓ 50	✓	✓												
18	18	349	30	✓ 30	✓	✓												
19	19	350	20	✓ 20	✓	✓		✓										
20	20	351	10	✓ 10	✓	✓		✓										
21	21	352	3	✓ 0	✓	✓		✓										
22	22	353	3	✓ 0			✓			✓	✓	✓	✓		✓			
23	23	354	3	✓ 0													✓	
24		355																

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

Bottom Depth: 2044 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	13:44	:
Bottom (BO)	14:26	:
End (EN)	15:18	:

Positional Information

Lat:	50° 54.51	N
Lon:	129° 52.86	W

▼

Lat:	50° 54.41	N
Lon:	129° 53.34	W

▼

Lat:	50° 54.49	N
Lon:	129° 53.88	W

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

23 bottles

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: CT6 Event #: 70 Vessel: Tully UTC Date (dd|mmm|yyyy): 10 Jul 2016

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	355	6-5	✓ 828	✓	✓													
2	2	356	500	✓ 500	✓	✓	✓												
3		357	400	✓ 400	✓	✓													
4		358	300	✓ 300	✓	✓													
5		359	250	✓ 250	✓	✓													
6		360	200	✓ 200	✓	✓													
7		361	150	✓ 150	✓	✓													
8		362	100	✓ 101	✓	✓													
9		363	75	✓ 75	✓	✓													
10		364	50	✓ 50	✓	✓													
11		365	30	✓ 30	✓	✓													
12		366	20	✓ 20	✓	✓		✓											
13		367	10	✓ 10	✓	✓		✓											
14		368	0	✓ 3	✓	✓		✓											
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 815 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>18:18</u>	:
Bottom (BO)	<u>18:36</u>	:
End (EN)	:	:

Positional Information

Lat:	<u>51° 01.99</u>	N
Lon:	<u>129° 38.10</u>	W

▼

Lat:	<u>51° 01.99</u>	N
Lon:	<u>129° 38.08</u>	W

▼

Lat:	.	N
Lon:	.	W

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

PARTIC LES / DIC AK

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: SCOTT52 Event #: 71 Vessel: TULLY UTC Date (dd|mmm|yyyy): 01 | JUL | 2016

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	OC4A	TOC	DOC	CDOM	818		SPC		
1	1	369	b-5	✓ 286			✓								✓✓		
2	2	370	b-5	✓ 286			✓			✓	✓	✓	✓				
3	3	371	b-5	✓ 286	✓	✓											
4	4	372	250	✓ 250	✓	✓											
5	5	373	200	✓ 200	✓	✓											
6	6	374	150	✓ 150	✓	✓											
7	7	375	100	✓ 100	✓✓	✓✓											
8	8	376	100	✓ 100						✓	✓	✓	✓				
9	9	377	75	✓ 75	✓	✓											
10	10	378	50	✓ 50	✓	✓	✓		✓✓								
11	11	379	40	✓ 40			✓		✓✓								
12	12	380	30	✓ 30	✓	✓	✓		✓✓								
13	13	381	20	✓ 20	✓✓	✓✓		✓✓									
14	14	382	10	✓ 10	✓	✓		✓✓									
15	15	383	0	✓ 4	✓	✓		✓✓									
16	16	384	0	✓ 4			✓			✓	✓	✓	✓				
17	17	385	0	✓ 4											✓✓		
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth:	288	m
Transmisso Cleaned:	Y / N	
Fluorometer Cleaned:	Y / N	

Time	UTC	Local
Start (BE)	20 : 33	:
Bottom (BO)	20 : 41	:
End (EN)	20 : 58	:

Positional Information
Lat: 51 ° 07 . 64 N
Lon: 129 ° 28 . 56 W

Start

Bottom

Finish

Lat: 51 ° 07 . 61 N
Lon: 129 ° 28 . 52 W

Lat: 51 ° 07 . 69 N
Lon: 129 ° 28 . 53 W

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

Standard

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: CT-3 Event #: 75 Vessel: TULLY UTC Date (dd|mmm|yyyy): 11 JUL 2016

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	386	10-5	214	✓	✓												
2	2	387	150	150	✓	✓												
3	3	388	100	100.5	✓	✓												
4	4	389	75	75	✓	✓												
5	5	390	50	50	✓	✓												
6	6	391	30	30	✓	✓												
7	7	392	20	20.6	✓	✓		✓	✓									
8	8	393	10	10	✓	✓		✓	✓									
9	9	394	0	3.2	✓	✓		✓	✓									
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 217 m
Transmisso Cleaned: (Y) N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	02 : 07	19 : 07
Bottom (BO)	02 : 10	19 : 10
End (EN)	02 : 22	19 : 22

Positional Information

Start	Lat: <u>51</u> ° <u>21</u> . <u>080</u> N
	Lon: <u>128</u> ° <u>42</u> . <u>980</u> W
Bottom	Lat: <u>51</u> ° <u>21</u> . <u>030</u> N
	Lon: <u>128</u> ° <u>42</u> . <u>930</u> W
Finish	Lat: <u>51</u> ° <u>21</u> . <u>010</u> N
	Lon: <u>128</u> ° <u>42</u> . <u>890</u> W

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

9 bottles

Enhanced

385

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12

Station: CI1

Event #: 77

Vessel: TVLLY

UTC Date (dd|mmm|yyyy): 11 JUL 2016

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TOC	DOC	S ¹⁸	CDOM		phyto	SPC		
1	1	395	6-5	153													✓	
2	2	396	6-5	153			✓			✓	✓	✓	✓					
3	3	397	6-5	153	✓	✓												
4	4	398	160	105	✓	✓	✓											
5	5	399	75	75	✓	✓												
6	6	400	50	50.8			✓			✓	✓	✓	✓					
7	7	401	50	50.8	✓	✓												
8	8	402	30	30	✓	✓												
9	9	403	20	20	✓	✓		✓	✓									
10	10	404	10	10	✓	✓		✓	✓									
11	11	405	0	3.6	✓	✓		✓	✓									
12	12	406	0	3.6		✓	✓			✓	✓	✓	✓		✓		no phyto - no bottle left	
13	13	407	0	3.6													✓	
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 155 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	04:58	21:58
Bottom (BO)	05:00	22:00
End (EN)	05:10	10:10

Positional Information

Start	Lat: 51° 35.770 N
	Lon: 128° 18.220 W

Bottom

Lat: 51° 35.740 N
Lon: 128° 18.180 W

Finish

Lat: 51° 35.710 N
Lon: 128° 18.370 W

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

Standards for Sample Collection: WaterProperties.ca/standards

13 bottles

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: CS11 Event #: 78 Vessel: Tully UTC Date (dd|mmm|yyyy): 11 JUL 2016

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	408	6.5	144											
2	2	409	6.5	144			✓			✓	✓	✓	✓		
3	3	410	6.5	144	✓	✓									
4	4	411	100	100	✓	✓									
5	5	412	75	75	✓	✓									
6	6	413	75	75			✓			✓	✓	✓	✓		
7	7	414	50	50	✓	✓									
8	8	415	30	30	✓	✓									
9	9	416	20	20.8	✓	✓		✓							
10	10	417	10	10	✓	✓		✓							
11	11	418	0	3.2	✓	✓		✓							
12	12	419	0	3.2			✓			✓	✓	✓	✓		
13	13	420	0	3.2										✓	
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

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

Time	UTC	Local
Start (BE)	06 : 44	23 : 44
Bottom (BO)	06 : 47	23 : 47
End (EN)	06 : 58	23 : 58

Positional Information

Lat:	51 ° 23 . 010	N
Lon:	128 ° 12 . 430	W

Start

Bottom

Finish

Lat:	51 ° 23 . 010	N
Lon:	128 ° 12 . 400	W

Lat:	51 ° 23 . 030	N
Lon:	128 ° 12 . 540	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: 2016-12 Station: C59 Event #: 80 Vessel: TULUY UTC Date (dd|mmm|yyyy): 11 JUL 2016

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	421	6-5	191	✓	✓												
2	2	422	150	150	✓	✓												
3	3	423	100	100	✓	✓												
4	4	424	75	35	✓	✓												
5	5	425	50	50	✓	✓												
6	6	426	30	30	✓	✓												
7	7	427	20	20	✓	✓		✓	✓									
8	8	428	10	10	✓	✓		✓	✓									
9	9	429	0	3.7	✓	✓		✓	✓									
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 194 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	09:02	02:02
Bottom (BO)	09:08	02:08
End (EN)	09:20	02:20

Positional Information

Lat:	51° 12.541	N
Lon:	128° 28.171	W

Start

▼

Lat:	51° 12.524	N
Lon:	128° 28.171	W

Bottom

▼

Lat:	51° 12.553	N
Lon:	128° 28.099	W

Finish

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

11 bottles

Enhanced

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12

Station: CS6

Event #: 83

Vessel: TULLY

UTC Date (dd|mmm|yyyy): 11 JUL 2016

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)										Comments	
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a		TOC	DOC	SR	CDOM	SPC		
1	1	430	b-5	63											✓✓	
2	2	431	b-5	63			✓			✓	✓	✓	✓			
3	3	432	b-5	63	✓	✓										
4	4	433	50	50	✓	✓										
5	5	434	30	30	✓	✓										
6	6	435	30	30			✓			✓	✓	✓	✓			
7	7	436	20	20	✓	✓										
8	8	437	10	10	✓✓	✓✓										
9	9	438	0	3.4	✓	✓										
10	10	439	0	3.4			✓			✓	✓	✓	✓			
11	11	440	0	3.4										✓✓✓		
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

X3

X2

X3

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

Bottom Depth: 67 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

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

Positional Information
Start
Lat: 51° 0' .140 N
Lon: 128° 49' .950 W

Bottom
Lat: 51° 0' .140 N
Lon: 128° 50' .000 W

Finish
Lat: 51° 0' .160 N
Lon: 128° 50' .090 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: 2016-12 Station: A1 Event #: 94 Vessel: TULUY UTC Date (dd|mmm|yyyy): 13 JUL 2016

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	441	6-5	511															for water
2	2	442	6-5	511															
3	3	443	6-5	511	✓	✓													
4	4	444	400	400	✓	✓	✓												
5	5	445	300	300	✓✓	✓✓													
6	6	446	250	250	✓	✓													
7	7	447	200	200	✓	✓													
8	8	448	150	150	✓	✓													
9	9	449	100	100	✓✓	✓✓													
10	10	450	75	75	✓	✓													
11	11	451	50	50	✓	✓													
12	12	452	30	30	✓	✓													
13	13	453	20	20	✓	✓		✓✓											
14	14	454	10	10	✓	✓		✓✓											
15	15	456	0	3.3	✓	✓		✓✓											
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: 514 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>19:06</u>	<u>12:06</u>
Bottom (BO)	<u>19:13</u>	<u>12:13</u>
End (EN)	<u>19:35</u>	<u>12:35</u>

Positional Information

Lat:	<u>48° 31.730</u> N
Lon:	<u>126° 12.320</u> W

▼

Lat:	<u>48° 31.730</u> N
Lon:	<u>126° 12.270</u> W

▼

Lat:	<u>48° 31.750</u> N
Lon:	<u>126° 12.190</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: 2016-12 Station: EFF02 Event #: 96 Vessel: Tully UTC Date (dd|mmm|yyyy): 15 | JUL | 2016

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	457	6-5	66	✓													
2	2	458	50	50	✓													
3	3	459	30	30	✓													
4	4	460	20	20	✓													
5	5	461	10	10	✓													
6	6	462	0	3.1	✓													
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 71 m
 Transmissio Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	15:28	08:28
Bottom (BO)	15:29	08:29
End (EN)	15:37	08:37

Positional Information
 Lat: 49° 4' . 98 N
 Lon: 125° 10' . 310 W

▼
 Lat: 49° 4' . 98 N
 Lon: 125° 10' . 300 W

▼
 Lat: 49° 4' . 97 N
 Lon: 125° 10' . 300 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: 2016-12 Station: EFF03 Event #: 97 Vessel: Tully UTC Date (dd|mmm|yyyy): 15 JUL 2016

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	463	65	113.5	✓													
2	2	464	100	160	✓													
3	4	465	75	75	✓													
4	5	466	50	50	✓													
5	6	467	30	30	✓													
6	7	468	20	20	✓													
7	8	469	10	10.5	✓													
8	9	470	0	3.1	✓													
9	3		92	92														
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 118 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	15 : 55	08 : 55
Bottom (BO)	15 : 58	08 : 58
End (EN)	16 : 10	09 : 10

Positional Information

Lat:	49° 4 . 306	N
Lon:	125° 9 . 409	W

Start

▼

Lat:	49° 4 . 313	N
Lon:	125° 9 . 403	W

Bottom

▼

Lat:	49° 4 . 328	N
Lon:	125° 9 . 395	W

Finish

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)
1-2-9-3-4-5-6-7-8

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: EFF04 Event #: 98 Vessel: JPT UTC Date (dd|mmm|yyyy): 15 JUL 2016

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	471	6-5	52.8	✓													
2	2	472	30	30.6	✓✓													
3	3	473	20	20.7	✓													
4	4	474	10	10.4	✓													
5	5	475	0	3.3	✓													
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):
SP

Bottom Depth: 58 m
 Transmisso Cleaned: ☒ Y | ☐ N
 Fluorometer Cleaned: ☐ Y | ☐ N

Time	UTC	Local
Start (BE)	17 : 35	10 : 35
Bottom (BO)	17 : 38	10 : 38
End (EN)	17 : 44	10 : 44

Positional Information
 Lat: 49° 3' 110 N
 Lon: 125° 8' 540 W

Start

Lat: 49° 3' 110 N
 Lon: 125° 8' 540 W

Bottom

Lat: 49° 3' 110 N
 Lon: 125° 8' 520 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: 2016-12 Station: EEF05 Event #: 99 Vessel: Tully UTC Date (dd|mmm|yyyy): 15 JUL 2016

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	476	65	198.8	✓													
2	2	477	175	175.6	✓													
3	3	478	150	150.6	✓													
4	4	479	125	125.3	✓													
5	5	480	100	100.4	✓													
6	6	481	75	75.7	✓													
7	7	482	50	50.6	✓													
8	8	483	30	30.3	✓													
9	9	484	20	20.5	✓													
10	10	485	10	10.6	✓													
11	11	486	0	3.4	✓													
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 203 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	12:57	10:57
Bottom (BO)	18:00	11:00
End (EN)	18:16	11:16

Positional Information

Lat:	<u>49° 2.560</u>	N
Lon:	<u>125° 9.090</u>	W

Start

▼

Lat:	<u>49° 2.570</u>	N
Lon:	<u>125° 9.070</u>	W

Bottom

▼

Lat:	<u>49° 2.580</u>	N
Lon:	<u>125° 9.050</u>	W

Finish

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: ETFO6 Event #: 100 Vessel: JRT UTC Date (dd|mmm|yyyy): 15 JUL 2016

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	487	6.5	155.8	✓													
2	2	488	125	125.9	✓													spigot open - see 6.7.46/10
3	3	489	100	160.5	✓✓													
4	4	490	75	75.6	✓													spigot open - redone at bot 12
5	5	491	50	50.7	✓													
6	6	492	30	30.3	✓													
7	7	493	20	20.7	✓✓													
8	8	494	10	10.4	✓													spigot open - redone at bot 14
9	9	495	0	3.0	✓													
10	10	488	125	125.5														
11	11																	
12	12	490	75	75.0														
13	13																	
14	14	494	10	10.4														
15	15	"	"															
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 157 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	18:55	11:55
Bottom (BO)	18:58	11:58
End (EN)	19:25	12:25

Positional Information

Lat:	49° 1.820	N
Lon:	125° 9.200	W

Start

Lat:	49° 1.810	N
Lon:	125° 9.150	W

Bottom

Lat:	49° 1.810	N
Lon:	125° 9.150	W

Finish

Lat:	49° 1.810	N
Lon:	125° 9.150	W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)
2, 4, 8 not sealed
resampled at 10, 12, 14

125m 75m 10m

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 206-12 Station: 101 Event #: EFF07 Vessel: JRT UTC Date (dd|mmm|yyyy): 15 JUL 2016

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	496	6-5	117	✓													
2	2	497	100	100.7	✓													
3	3	498	75	75.4	✓													
4	4	499	50	50.3	✓													
5	5	500	30	30.2	✓													
6	6	501	20	20.4	✓													
7	7	502	10	10.7	✓													
8	8	503	0	3.2	✓													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 122 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>19:37</u>	<u>12:37</u>
Bottom (BO)	<u>19:39</u>	<u>12:39</u>
End (EN)	<u>19:50</u>	<u>12:50</u>

Positional Information

Lat:	<u>49° 1.260</u>	<u>N</u>
Lon:	<u>175° 9.420</u>	<u>W</u>

▼

Lat:	<u>49° 1.260</u>	<u>N</u>
Lon:	<u>175° 9.440</u>	<u>W</u>

▼

Lat:	<u>49° 1.260</u>	<u>N</u>
Lon:	<u>175° 9.450</u>	<u>W</u>

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: 2016-12 Station: EFF08 Event #: 102 Vessel: JPT UTC Date (dd|mmm|yyyy): 15 JUL 2016

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	504	0-5	81.7	✓✓													
2	2	505	75	75.4	✓													
3	3	506	50	50.7	✓													
4	4	507	30	30.4	✓													
5	5	508	20	20.2	✓													
6	6	509	10	10.3	✓													
7		510	0	3.4	✓													
8		511	0	3.4														
9		512	0	3.4														
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 86 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	20:09	13:09
Bottom (BO)	20:11	13:11
End (EN)	20:19	13:19

Positional Information

Lat:	49° 0.670	N
Lon:	125° 10.250	W

▼

Lat:	49° 0.670	N
Lon:	125° 10.250	W

▼

Lat:	49° 0.660	N
Lon:	125° 10.260	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2016-12 Station: EFF09 Event #: 103 Vessel: JRT UTC Date (dd|mmm|yyyy): 15 JUL 2016

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	511	6.5	46.9	✓													
2	2	512	30	30.5	✓✓													
3	3	513	20	20.5	✓													
4	4	514	10	10.6	✓													
5	5	515	0	3.4	✓													
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):
SP

Bottom Depth: 53 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>20:33</u>	<u>13:33</u>
Bottom (BO)	<u>20:34</u>	<u>13:34</u>
End (EN)	<u>20:40</u>	<u>13:40</u>

Positional Information

Lat:	<u>49° 0' .130</u>	N
Lon:	<u>125° 10' .870</u>	W

Bottom

Lat:	<u>49° 0' .120</u>	N
Lon:	<u>125° 10' .870</u>	W

Finish

Lat:	<u>49° 0' .120</u>	N
Lon:	<u>125° 10' .870</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: 2016-12

Station: EFF10

Event #: 104

Vessel: JPT

UTC Date (dd|mmm|yyyy): 15 JUL 2016

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	516	10-5	96.1	✓													
2	2	517	75	75	✓✓													
3	3	518	50	50.6	✓													
4	4	519	30	30.8	✓													
5	5	520	20	20.5	✓													
6	6	521	10	10.6	✓✓													
7	7	522	0	3.2	✓													
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

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

Time	UTC	Local
Start (BE)	20 : 52	13 : 52
Bottom (BO)	20 : 54	13 : 54
End (EN)	21 : 02	14 : 02

Positional Information
 Lat: 48° 59.840 N
 Lon: 125° 11.220 W

Bottom
 Lat: 48° 59.840 N
 Lon: 125° 11.240 W

Finish
 Lat: 48° 59.840 N
 Lon: 125° 11.270 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: 2016-12 Station: EEF11 Event #: 105 Vessel: JPT UTC Date (dd|mmm|yyyy): 15 JUL 2016

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	523	6-5	81.3	✓													
2	2	524	50	50.3	✓													
3	3	525	30	30.2	✓													
4	4	526	20	20.7	✓													
5	5	527	10	9.5	✓													
6	6	528	0	3.3	✓													
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):
SP

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

Time	UTC	Local
Start (BE)	21:20	14:20
Bottom (BO)	21:23	14:23
End (EN)	21:29	14:29

Positional Information

Lat:	48° 59' . 110	N
Lon:	125° 11' . 06	W

Start

▼

Lat:	48° 59' . 120	N
Lon:	125° 11' . 06	W

Bottom

▼

Lat:	48° 59' . 110	N
Lon:	125° 11' . 08	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: 2016-12

Station: EFF12

Event #: 106

Vessel: SPT

UTC Date (dd|mmm|yyyy): 15 | Jul | 2016

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	528	6-5	88.1	✓													
2	2	530	75	74.8	✓													
3	3	531	50	50.2	✓													
4	4	532	30	30.7	✓✓													
5	5	533	20	19.6	✓													
6	6	534	10	9.8	✓													
7	7	535	0	3.3	✓													
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):
HRB

Bottom Depth: 93 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>21:50</u>	<u>14:50</u>
Bottom (BO)	<u>21:54</u>	<u>14:54</u>
End (EN)	<u>22:00</u>	<u>15:00</u>

Positional Information

Lat:	<u>48° 58' . 020</u>	N
Lon:	<u>175° 10' . 47</u>	W

▼

Lat:	<u>48° 58' . 030</u>	N
Lon:	<u>175° 10' . 48</u>	W

▼

Lat:	<u>48° 58' . 040</u>	N
Lon:	<u>175° 10' . 48</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: 2016-12 Station: EEF13 Event #: 107 Vessel: JPT UTC Date (dd|mmm|yyyy): 15 Jul 2016

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	536	6.5	98.9	✓													
2	2	537	75	75.2	✓													
3	3	538	50	50.6	✓✓													
4	4	539	30	30.2	✓													
5	5	540	20	20.5	✓													
6	6	541	10	10.5	✓													
7	7	542	0	3.6	✓													
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):
413

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

Time	UTC	Local
Start (BE)	<u>22:17</u>	<u>15:17</u>
Bottom (BO)	<u>22:21</u>	<u>15:21</u>
End (EN)	<u>22:27</u>	<u>15:27</u>

Positional Information

Lat:	<u>48° 56.510</u>	N
Lon:	<u>175° 10.710</u>	W

Start

▼

Lat:	<u>48° 56.510</u>	N
Lon:	<u>175° 10.720</u>	W

Bottom

▼

Lat:	<u>48° 56.530</u>	N
Lon:	<u>175° 10.690</u>	W

Finish

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