

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23 Station: JS1 Event #: 002 Vessel: TULLY UTC Date (dd|mmm|yyyy): 06 | July | 2017

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)												Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a									
1		001	10-5	✓	456	✓	✓	✓									
2		002	400	✓		✓	✓	✓									
3		003	300	✓		✓	✓	✓									
4		004	250	✓		✓	✓	✓									
5		005	200	✓		✓	✓	✓									
6		006	150	✓		✓	✓	✓									
7		007	100	✓		✓	✓	✓									
8		008	75	✓		✓	✓	✓									
9		009	50	✓		✓	✓	✓									
10		010	30	✓		✓	✓	✓									
11		011	20	✓		✓	✓	✓									
12		012	10	✓		✓	✓	✓									
13		013	0	✓		✓	✓	✓			✓	✓					
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Watchkeeper(s):
SR

Bottom Depth: 461 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time

UTC

Local

Start (BE)

16 : 22

09 :

Bottom (BO)

16 : 30

:

End (EN)

:

:

Positional Information

Start

Lat: 50° 33.06 N

Lon: 126° 45.98 W

▼

Bottom

Lat: 50° 33.04 N

Lon: 126° 45.99 W

▼

Finish

Lat: 50° 32.99 N

Lon: 126° 45.97 W

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

Standard Rosette Chemistry

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23 Station: QCSI Event #: 003 Vessel: Tully UTC Date (dd|mmm|yyyy): 06 | July | 2017

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		014	6-5	✓	✓	✓												
2		015	100	✓	✓	✓												
3		016	75	✓	✓	✓												
4		017	50	✓	✓	✓												
5		018	30	✓	✓	✓												
6		019	20	✓	✓	✓		✓										
7		020	10	✓	✓	✓		✓										
8		021	0	✓	✓	✓		✓										
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Watchkeeper(s):
SPR

Bottom Depth: 158 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time

UTC

Local

Start (BE)

17:55

10:55

Bottom (BO)

18:04

:

End (EN)

18:15

:

Positional Information

Start

Lat: 50°40.05 N

Lon: 126°46.30 W

Bottom

Lat: 50°40.08 N

Lon: 126°46.30 W

Finish

Lat: 50°40.12 N

Lon: 126°46.33 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: 2017-23 Station: QCSH Event #: 005 Vessel: TULLY UTC Date (dd|mmm|yyyy): 06|JUL|2017

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	Phyto	DA								
1		022	0-5	✓ 408	✓	✓												
2		23	400	✓ 400	✓	✓	✓											
3		24	300	✓ 300	✓	✓												
4		25	250	✓ 250	✓	✓												
5		26	200	✓ 200	✓	✓												
6		27	150	✓ 150	✓	✓												
7		28	100	✓ 100	✓	✓												
8		29	75	✓ 75	✓	✓												
9		30	50	✓ 50	✓	✓												
10		31	30	✓ 30	✓	✓												
11		32	20	✓ 20	✓	✓		✓✓	✓	✓								
12		33	10	✓ 10	✓	✓		✓✓										
13		34	0	✓ 1.2	✓	✓		✓✓										
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 408 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>21:25</u>	<u>14:25</u>
Bottom (BO)	<u>21:33</u>	<u>14:33</u>
End (EN)	<u>:</u>	<u>14:</u>

Positional Information

Start	Lat: <u>50° 46.590</u> N
	Lon: <u>127° 24.300</u> W
Bottom	Lat: <u>50° 46.580</u> N
	Lon: <u>127° 24.250</u> W
Finish	Lat: <u>50° 46.700</u> N
	Lon: <u>127° 24.190</u> W

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

Standard Rosette Chem

Water Properties Group

oxygen cancelled

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23

Station: CPE1

Event #: 008

Vessel: Tully

UTC Date (dd|mmm|yyyy): 07 JUL 2017

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		35	6-5	✓	143	✓	✓										
2		36	100	✓	100	✓✓	✓										
3		37	75	✓	75	✓	✓✓										
4		38	50	✓	50	✓	✓										
5		39	30	✓	30	✓	✓										
6		40	20	✓	20	✓✓	✓		✓✓✓								
7		41	10	✓	10	✓	✓✓		✓✓✓								
8		42	0	✓	1.6	✓	✓✓		✓✓✓	✓	✓						DA not taken
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: 143 m
 Transmissio Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	02:14	19:14
Bottom (BO)	02:17	19:17
End (EN)	02:31	19:31

Positional Information

Lat:	51° 0.000	N
Lon:	127° 49.960	W

Start

▼

Lat:	50° 59.980	N
Lon:	127° 50.000	W

Bottom

▼

Lat:	50° 0.000	N
Lon:	127° 49.930	W

Finish

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

Standard Rosette Chemistry

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23 Station: CS11 Event #: 10 Vessel: TULLY UTC Date (dd|mmm|yyyy): 07 July 2017

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		ph	DA	SPC		
1		43	6-5	✓ 144	✓	✓			✓									
2		44	6-5	✓ 144			✓		✓	✓	✓	✓						
3		45	100	✓	✓	✓												
4		46	75	✓	✓	✓												
5		47	75	✓			✓		✓	✓	✓	✓						
6		48	50	✓	✓	✓												
7		49	30	✓	✓	✓												
8		50	20	✓	✓	✓		✓										
9		51	10	✓	✓	✓		✓										
10		52	0	✓	✓	✓		✓					✓	✓				
11		53	0	✓			✓		✓	✓	✓	✓						
12		54	0	✓											✓		Particles	
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 148 m
 Transmisso Cleaned: ☒ Y ☐ N
 Fluorometer Cleaned: ☐ Y ☐ N

Time	UTC	Local
Start (BE)	07:11	12:11
Bottom (BO)	07:17	:
End (EN)	07:28	:

Positional Information

Start	Lat: <u>51°23.02</u>	N
	Lon: <u>128°12.17</u>	W

Bottom

	Lat: <u>51°23.02</u>	N
	Lon: <u>128°12.13</u>	W

Finish

	Lat: <u>51°23.03</u>	N
	Lon: <u>128°12.15</u>	W

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

Enhanced chem
 carbon chem @ top, mid, bottom

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23 Station: CS9 Event #: 12 Vessel: TULU UTC Date (dd|mmm|yyyy): 07|Jul|2017

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		55	0-5	✓	191	✓	✓											
2		56	150	✓		✓✓	✓											
3		57	100	✓		✓	✓											
4		58	75	✓		✓	✓✓											
5		59	50	✓		✓	✓											
6		60	30	✓		✓	✓											
7		61	20	✓		✓✓	✓	✓✓										
8		62	10	✓		✓	✓	✓✓										
9		63	0	✓		✓	✓✓	✓✓										
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

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

Time	UTC	Local
Start (BE)	09:07	02:07
Bottom (BO)	09:15	:
End (EN)	09:27	:

Positional Information

Start	Lat: <u>51° 12.54</u>	N
	Lon: <u>128° 28.00</u>	W

▼

Bottom	Lat: <u>51° 12.56</u>	N
	Lon: <u>128° 27.94</u>	W

▼

Finish	Lat: <u>51° 12.52</u>	N
	Lon: <u>128° 27.95</u>	W

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

Standard Chem

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23 Station: CS6 Event #: 15 Vessel: TULLY UTC Date (dd|mmm|yyyy): 07|July|2017

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	CDOM		Phyto	DA	SPE		
1		64	6-5	✓ 60	✓	✓												
2		65	6-5	✓			✓		✓	✓	✓	✓						
3		66	50	✓	✓	✓												
4		67	30	✓	✓✓	✓✓												
5		68	30	✓			✓		✓	✓	✓	✓						
6		69	20	✓	✓	✓		✓✓										
7		70	10	✓	✓	✓		✓✓										
8		71	0	✓	✓	✓		✓✓						✓	✓			
9		72	0	✓			✓		✓✓	✓✓	✓✓	✓✓						
10		73	0	✓											✓✓✓	Particles		
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: 65 m
 Transmissio Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	11:42	04:42
Bottom (BO)	11:46	:
End (EN)	11:53	:

Positional Information

Start	Lat: <u>51° 0.00</u>	N
	Lon: <u>128° 50.17</u>	W

Bottom

	Lat: <u>51° 0.04</u>	N
	Lon: <u>128° 50.20</u>	W

Finish

	Lat: <u>51° 0.06</u>	N
	Lon: <u>128° 50.18</u>	W

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

Enhanced Chem
 Carbon Chem @ top, middle, bottom

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23 Station: C504 Event #: 021 Vessel: TULLY UTC Date (dd|mmm|yyyy): 07|JUL|2017

Bottles & Samples			Rosette Operation		Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		74	6-5	✓ 98	✓	✓												
2		75	75	✓ 75	✓	✓												
3		76	50	✓ 50	✓	✓												
4		77	30	✓ 30	✓	✓												
5		78	20	✓ 20	✓	✓		✓										
6		79	10	✓ 10	✓	✓		✓										
7		80	0	✓ 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):
SP

Bottom Depth: 102 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☐ Y / ☐ N

Time	UTC	Local
Start (BE)	19:21	12:21
Bottom (BO)	19:23	12:23
End (EN)	19:	12:

Positional Information

Start	Lat: <u>50° 49.180</u> N
	Lon: <u>129° 12.820</u> W
Bottom	Lat: <u>50° 49.180</u> N
	Lon: <u>129° 12.850</u> W
Finish	Lat: <u>50° 49.180</u> N
	Lon: <u>129° 12.910</u> W

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

Standard Chemistry

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23 Station: SCOTIS 2 Event #: 23 Vessel: TULLY UTC Date (dd|mmm|yyyy): 07 JUL 2017

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	10L	OC	SB	CDM	DKK		PHY	DA	SRC		
1		81	6-5	✓ 285	✓	✓													
2		82	6-5	✓ 285			✓		✓	✓	✓	✓	✓						
3		83	6-5	✓ 285														vvv OBS cal.	
4		84	250	✓ 250	✓✓	✓													
5		85	200	✓ 200	✓	✓✓													
6		86	150	✓ 150	✓	✓													
7		87	150	✓ 150			✓		✓	✓	✓	✓	✓						
8		88	100	✓ 100	✓	✓													
9		89	75	✓ 76	✓✓	✓													
10		90	50	✓ 50	✓	✓✓													
11		91	50	✓ 50										✓✓				] soafet calibrate	
12		92	40	✓ 40										✓✓					
13		93	30	✓ 30										✓✓					
14		94	30	✓ 30	✓	✓													
15		95	20	✓ 20	✓	✓		✓✓											
16		96	10	✓ 10	✓	✓		✓✓											
17		97	0	✓ 2.3	✓	✓		✓✓							✓	✓			
18		98	0	✓ 2.3			✓		✓✓	✓✓	✓✓	✓✓							
19		99	0	✓ 2.3														vvv	
20																			
21																			
22																			
23																			
24																			

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

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

Time	UTC	Local
Start (BE)	22:42	15:42
Bottom (BO)	22:47	15:47
End (EN)	23:05	16:05

Positional Information

Start
 Lat: 51° 7.580 N
 Lon: 129° 28.570 W

Bottom
 Lat: 51° 7.570 N
 Lon: 129° 28.590 W

Finish
 Lat: 51° 7.560 N
 Lon: 129° 28.580 W

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

Enhanced Chemi

102224

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23 Station: MSB Event #: 67 Vessel: TULLY UTC Date (dd|mmm|yyyy): 12 July 2017

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	H ₂ S		DOC	DOC	Si ⁴	DOM	P	DA		
1		280	0-5		✓	✓												
2		281	0-5				✓				✓	✓	✓	✓				
3		282	1500		✓	✓												
4		283	1100		✓	✓			✓	✓								
5		284	1050		✓	✓			✓	✓								
6		285	1000		✓	✓			✓	✓								
7		286	950		✓	✓			✓	✓								
8		287	900		✓	✓			✓	✓								
9		288	750		✓	✓												
10		289	500		✓	✓												
11		290	500				✓				✓	✓	✓	✓				
12		291	400		✓	✓												
13		292	300		✓	✓												
14		293	250		✓	✓												
15		294	200		✓	✓												
16		295	150		✓	✓												
17		296	100		✓	✓												
18		297	75		✓	✓												
19		298	50		✓	✓												
20		299	30		✓	✓												
21		300	20		✓	✓		✓										
22		301	10		✓	✓		✓										
23		302	0		✓	✓		✓							✓	✓		
24		303	0				✓				✓	✓	✓	✓				

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

Bottom Depth: _____ m
Transmisso Cleaned: (Y) / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 07:20 00:20
Bottom (BO) 08:02 :
End (EN) 08:57 :

Positional Information
Start
Lat: 51°23.89 N
Lon: 130°55.02 W
Bottom
Lat: 51°23.84 N
Lon: 130°54.98 W
Finish
Lat: 51°23.75 N
Lon: 130°54.88 W

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

Enhanced View

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

[illegible]

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


Bottom Depth: 2080 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	07:00	00:00
Bottom (BO)	07:38	:
End (EN)	08:29	:

Positional Information

Lat:	50° 53.31
Lon:	129° 52.34

Start	Lat: 50° 53.31
	Lon: 129° 52.34
Bottom	Lat: 50° 53.33
	Lon: 129° 52.38

Finish	Lat: 50° 53.43
	Lon: 129° 52.53

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

Version: 14 February 2013 Transmissometer and Fluorometer are to be cleaned before each cast – do not use Ammonia products

Standards for Sample Collection: WaterProperties.ca/standards

03 Transmissometer and Fluorometer are to be cleaned before each cast – do not use Ammonia products Standards for Sample Collection: WaterProperties.ca/standards

- please note if there is v. low oxygen between 750-1250 m
- when taking water note the presence of H_2S – take oxygen regardless

6815m

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23 Station: CI6 Event #: 27 Vessel: Tully UTC Date (dd|mmm|yyyy): 08|July|2017

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	8180		P	DA	SPC	
1		122	65	831	✓	✓												
2		123	65	831			✓			✓	✓	✓	✓					
3		124	760	✓	✓	✓												
4		125	600	✓	✓	✓												
5		126	500	✓	✓	✓												
6		127	400	✓	✓	✓												
7		128	400	✓			✓			✓	✓	✓	✓					
8		129	300	✓	✓	✓												
9		130	250	✓	✓	✓												
10		131	200	✓	✓	✓												
11		132	150	✓	✓	✓												
12		133	100	✓	✓	✓												
13		134	75	✓	✓	✓												
14		135	50	✓	✓	✓												
15		136	30		✓	✓												
16		137	20		✓	✓		✓										
17		138	10		✓	✓		✓										
18		139	0		✓	✓		✓							✓	✓		
19		140	0				✓			✓	✓	✓	✓					
20		141	0														✓✓✓ Particles	
21																		
22																		
23																		
24																		

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

Bottom Depth: 824 m
Transmisso Cleaned: (Y) N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	12 :00	05 :00
Bottom (BO)	12 :17	:
End (EN)	12 :45	:

Positional Information
Start
Lat: 51° 01.99 N
Lon: 129° 37.99 W

Bottom
Lat: 51° 02.01 N
Lon: 129° 38.00 W

Finish
Lat: 51° 02.05 N
Lon: 129° 37.97 W

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

Enhanced Chem

~ 258m

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23 Station: CI 4 Event #: 30 Vessel: TULLY UTC Date (dd|mmm|yyyy): 08|July|2017

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		142	6-5	✓ 255	✓	✓												
2		143	200	✓	✓	✓												
3		144	150	✓	✓	✓												
4		145	100	✓	✓	✓												
5		146	75	✓	✓	✓												
6		147	50	✓	✓	✓												
7		148	30	✓	✓	✓												
8		149	20	✓	✓	✓		✓										
9		150	10	✓	✓	✓		✓										
10		151	0	✓	✓	✓		✓										
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 259 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 16:22 09:22
Bottom (BO) 16:30 :
End (EN) 16:42 :

Positional Information
Start Lat: 51° 19.19 N
Lon: 129° 3.10 W
Bottom Lat: 51° 19.18 N
Lon: 129° 3.04 W
Finish Lat: 51° 19.18 N
Lon: 129° 3.07 W

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

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23 Station: CI1 Event #: 34 Vessel: TULLY UTC Date (dd|mmm|yyyy): 08 | JUL | 2017

[illegible]

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)	21:38	14:38
Bottom (BO)	21:41	14:41
End (EN)	21:52	14:52

Positional Information

Lat:	51° 35.690	N
Lon:	128° 18.270	W

Bottom Lat: 51° 35.690 N
Lon: 128° 18.220 W

Finish	Lat: 51° 35.700 N
	Lon: 128° 18.230 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: 2017-23 Station: HAR 1 Event #: 36 Vessel: Taney UTC Date (dd|mmm|yyyy): 08 | JUL | 2017

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	PLC	AIK	TOC	DOC	SR	COM				
1		6-5	164	✓ 137	✓	✓												
2		6-5	165	✓ 137			✓			✓	✓	✓	✓					
3		6-5	166	✓ 137														WV
4		100	167	✓ 100	✓	✓												
5		100	168	✓ 100			✓			✓	✓	✓	✓					
6		75	169	✓ 75	✓	✓												
7		75	170	✓ 75			✓			✓	✓	✓	✓					
8		50	171	✓ 50	✓	✓			✓									
9		50	172	✓ 50			✓			✓	✓	✓	✓					
10		40	173	✓ 40			✓		✓									
11		30	174	✓ 30	✓	✓	✓		✓									
12		30	175	✓ 30			✓			✓	✓	✓	✓					
13		20	176	✓ 20	✓	✓		✓										
14		20	177	✓ 20			✓			✓	✓	✓	✓					
15		10	178	✓ 10	✓	✓		✓										
16		10	179	✓ 10			✓			✓	✓	✓	✓					
17		0	180	✓ 1.8	✓	✓		✓								✓	✓	
18		0	181	✓ 1.8			✓			✓	✓	✓	✓					
19		0	182	✓ 1.8														WV
20																		
21																		
22																		
23																		
24																		

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

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

Time	UTC	Local
Start (BE)	23:32	16:32
Bottom (BO)	23:36	16:36
End (EN)	23:47	16:47

Positional Information

Start
 Lat: 51° 42.650 N
 Lon: 128° 13.750 W

Bottom
 Lat: 51° 42.650 N
 Lon: 128° 43.787 W

Finish
 Lat: 51° 42.709 N
 Lon: 128° 13.808 W

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

Super Chemistry

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23

Station: MS1

Event #: 37

Vessel: TULLY

UTC Date (dd|mmm|yyyy): 09 JUL 2017

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	DB	CDOM		P	DA	SPC	
1		183	6-5	✓ 209	✓	✓												
2		184	6-5	✓ 209			✓			✓	✓	✓	✓					
3		185	150	✓ 150	✓✓	✓												
4		186	100	✓ 100	✓	✓✓				✓	✓	✓	✓					
5		187	100	✓ 100			✓				✓	✓	✓	✓				
6		188	75	✓ 75	✓	✓												
7		189	50	✓ 50	✓	✓												
8		190	30	✓ 31	✓	✓												
9		191	20	✓ 20.7	✓✓	✓✓		✓✓										
10		192	10	✓ 10.5	✓	✓		✓✓										
11		193	0	1.5	✓	✓		✓✓										
12		194	0	1.5			✓			✓✓	✓✓	✓✓	✓✓					
13		195	0	1.5													✓✓	
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 214 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>04:52</u>	<u>21:52</u>
Bottom (BO)	<u>05:00</u>	<u>22:00</u>
End (EN)	<u>05:13</u>	<u>22:13</u>

Positional Information

Lat:	<u>52° 8.060</u>	N
Lon:	<u>128° 50.150</u>	W

Start

▼

Lat:	<u>52° 8.070</u>	N
Lon:	<u>128° 50.180</u>	W

Bottom

▼

Lat:	<u>52° 8.110</u>	N
Lon:	<u>128° 50.200</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: 2017-23 Station: JPS7 Event #: 43 Vessel: Tully UTC Date (dd|mmm|yyyy): 10 | 07 | 2017

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	TOC	POC	Si	Alb	Col	P	DA	SPC	
1		206	6-5	✓ 129	✓	✓	✓		✓	✓	✓	✓	✓					
2		207	6-5	✓ 129	✓	✓	✓		✓	✓	✓	✓	✓					
3		208	75	✓	✓	✓	✓		✓	✓	✓	✓	✓					
4		209	50	✓	✓	✓	✓		✓	✓	✓	✓	✓					
5		210	50	✓	✓	✓	✓		✓	✓	✓	✓	✓					
6		211	30	✓	✓	✓	✓		✓	✓	✓	✓	✓					
7		212	20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
8		213	10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
9		214	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		
10		215	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
11		216	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: 133 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	07:22	:
Bottom (BO)	07:25	:
End (EN)	07:38	:

Positional Information

Start	Lat: <u>52° 34.04</u> N
	Lon: <u>131° 5.82</u> W

Bottom

Lat: <u>52° 34.06</u> N
Lon: <u>131° 5.81</u> W

Finish

Lat: <u>52° 34.06</u> N
Lon: <u>131° 5.77</u> W

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

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Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23

Station: JPS 4

Event #: 48

Vessel: Tully

UTC Date (dd|mmm|yyyy): 10 July 2017

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	DOC	DOC	
1		247	65	✓ 331	✓	✓			✓	✓	✓	✓	✓				
2		248	65	✓ 331			✓		✓	✓	✓	✓	✓				
3		249	300	✓	✓	✓											
4		220	250	✓	✓	✓											
5		221	200	✓	✓	✓											
6		222	150	✓	✓	✓											
7		223	150	✓			✓		✓	✓	✓	✓	✓				
8		224	100	✓	✓	✓											
9		225	75	✓	✓	✓											
10		226	50	✓	✓	✓											
11		227	30	✓	✓	✓											
12		228	20	✓	✓	✓		✓									
13		229	10	✓	✓	✓		✓									
14		230	0	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓		
15		231	0	✓			✓		✓	✓	✓	✓	✓	✓	✓		
16		232	0	✓												✓	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Profile type:

Ros (default) | TrMetlRos | X-Niskin

Watchkeeper(s):

SR

Bottom Depth: 335 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time UTC Local

Start (BE) 11:10 04:10

Bottom (BO) 11:20 :

End (EN) 11:34 :

Positional Information

Start Lat: 52° 30.97 N

Lon: 131° 23.26 W

Start

Bottom Lat: 52° 30.95 N

Lon: 131° 23.21 W

Bottom

Finish Lat: 52° 30.93 N

Lon: 131° 23.08 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: 2017-23 Station: JP51 Event #: 51 Vessel: TULLY UTC Date (dd|mmm|yyyy): 10 | JUL | 2017

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	815	CO2		P	DA	SPC	
1	231	6-5		✓	✓	✓											
2	232	6-5		✓	✓		✓		✓	✓	✓	✓	✓				
3	233	100		✓	✓	✓											
4	234	75		✓	✓	✓			✓	✓	✓	✓	✓				
5	235	75		✓			✓		✓	✓	✓	✓	✓				
6	236	50		✓	✓	✓											
7	237	30		✓	✓	✓											
8	238	20		✓	✓			✓									
9	239	10		✓	✓			✓									
10	240	0		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓		
11	241	0		✓			✓		✓	✓	✓	✓	✓				
12	242	0		✓												✓	✓
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

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

Time	UTC	Local
Start (BE)	14:11	07:11
Bottom (BO)	14:16	:
End (EN)	14:26	:

Positional Information

Start	Lat: 52° 36.28	N
	Lon: 131° 40.12	W

Bottom

Lat: 52° 36.27	N
Lon: 131° 40.11	W

Finish

Lat: 52° 36.26	N
Lon: 131° 40.09	W

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

30 count
2 squirts
gently insert

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23 Station: SRC Event #: 55 Vessel: TULLY UTC Date (dd|mmm|yyyy): 10 | JUL | 2017

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		243	b-5	✓	211													
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
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16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

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

Time	UTC	Local
Start (BE)	<u>23 : 58</u>	<u>16 : 58</u>
Bottom (BO)	<u>00 : 03</u>	<u>17 : 03</u>
End (EN)	<u>00 : 08</u>	<u>17 : 08</u>

Positional Information

Start	Bottom	Finish
Lat: <u>52° 15.120</u> N	Lat: <u>52° 15.110</u> N	Lat: <u>52° 15.090</u> N
Lon: <u>129° 40.650</u> W	Lon: <u>129° 40.580</u> W	Lon: <u>129° 40.520</u> W

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

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Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23

Station: MSG4

Event #: 60

Vessel: Tully

UTC Date (dd|mmm|yyyy): 11 July 2017

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 ¹⁰	CDOM		P	A	SPC	
1		244	6-5	✓	358	✓	✓											
2		245	6-5	✓				✓		✓	✓	✓	✓					
3		246	300	✓		✓	✓											
4		247	250	✓		✓✓	✓											
5		248	200	✓		✓	✓✓											
6		249	150	✓		✓	✓											
7		250	150	✓				✓		✓	✓	✓	✓					
8		251	100	✓		✓	✓											
9		252	75	✓		✓✓	✓											
10		253	50	✓		✓	✓✓											
11		254	30	✓		✓	✓											
12		255	20	✓		✓	✓		✓✓									
13		256	10	✓		✓	✓		✓✓									
14		257	0	✓		✓	✓		✓✓						✓	✓		
15		258	0	✓				✓		✓✓	✓✓	✓✓	✓✓					
16		259	0	✓														✓✓
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth:	361	m
Transmissio Cleaned:	Y	N
Fluorometer Cleaned:	Y	N

Time	UTC	Local
Start (BE)	08:51	:
Bottom (BO)	09:02	:
End (EN)	09:31	:

Positional Information	
Start	
Lat: 51°41.49	N
Lon: 129°57.43	W

Start

Bottom	
Lat: 51°41.47	N
Lon: 129°57.39	W

Bottom

Finish	
Lat: 51°41.50	N
Lon: 129°57.41	W

Finish

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

11B35

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2017-23 Station: MS6 Event #: 62 Vessel: Tully UTC Date (dd|mmm|yyyy): 11 July 2017

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		260	65	✓	✓	✓	✓											
2		261	1250	✓	✓	✓	✓											
3		262	1100	✓	✓	✓												
4		263	1000	✓	✓	✓												
5		264	900	✓	✓	✓												
6		265	800	✓	✓	✓												
7		266	750	✓	✓	✓												
8		267	500	✓	✓	✓												
9		268	400	✓	✓	✓												
10		269	300	✓	✓	✓												
11		270	250	✓	✓	✓												
12		271	200	✓	✓	✓												
13		272	150	✓	✓	✓												
14		273	100	✓	✓	✓												
15		274	75	✓	✓	✓												
16		275	50	✓	✓	✓												
17		276	30	✓	✓	✓												
18		277	20	✓	✓	✓		✓										
19		278	10	✓	✓	✓		✓										
20		279	0	✓	✓	✓		✓										
21																		
22																		
23																		
24																		

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

Bottom Depth: 1355 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>12:24</u>	:
Bottom (BO)	<u>12:49</u>	:
End (EN)	<u>13:30</u>	:

Positional Information

Lat:	<u>51° 31.10</u>	N
Lon:	<u>130° 30.89</u>	W

Start

▼

Lat:	<u>51° 31.04</u>	N
Lon:	<u>130° 30.86</u>	W

Bottom

▼

Lat:	<u>51° 31.09</u>	N
Lon:	<u>130° 30.92</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: 2017-23 Station: A1 Event #: 97 Vessel: Tully UTC Date (dd|mmm|yyyy): 15 July 2017

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		914	6-5	✓ 521			✓										
2		915	500	✓			✓✓										
3		916	400	✓			✓										
4		917	300	✓			✓										
5		918	250	✓			✓										
6		919	200	✓			✓										
7		920	150	✓			✓										
8		921	100	✓			✓										
9		922	75	✓			✓										
10		923	50	✓			✓										
11		924	30	✓			✓										
12		925	20	✓			✓										
13		926	10	✓			✓										
14		927	0	✓			✓										
15		999	0	✓													Extra bottle for Cindy
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 523 m
 Transmisso Cleaned: ☒ Y ☐ N
 Fluorometer Cleaned: ☐ Y ☐ N

Time	UTC	Local
Start (BE)	<u>23:09</u>	<u>16:09</u>
Bottom (BO)	<u>23:22</u>	:
End (EN)	<u>23:43</u>	:

Positional Information

Start	Lat: <u>48° 32.29</u>	<u>N</u>
	Lon: <u>126° 11.74</u>	<u>W</u>

Bottom

	Lat: <u>48° 32.32</u>	<u>N</u>
	Lon: <u>126° 11.89</u>	<u>W</u>

Finish

	Lat: <u>48° 32.35</u>	<u>N</u>
	Lon: <u>126° 11.90</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: 2017-23 Station: EFFOS Event #: 93 Vessel: Tully UTC Date (dd|mmm|yyyy): 15 July 2017

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		314	0-5	✓ 196	✓													
2		315	150	✓	✓													
3		316	100	✓	✓													
4		317	75	✓	✓													
5		318	50	✓	✓													
6		319	30	✓	✓													
7		320	20	✓	✓													
8		321	10	✓	✓													
9		322	0	✓	✓													
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23		991	B-5	✓ 196														
24		992	150	✓ 150														

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

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

Time	UTC	Local
Start (BE)	15:40	02:40
Bottom (BO)	15:48	:
End (EN)	15:58	:

Positional Information

Start	Lat: 49° 2.55	N
	Lon: 125° 9.07	W

▼

Bottom	Lat: 49° 2.53	N
	Lon: 125° 9.13	W

▼

Finish	Lat: 49° 2.53	N
	Lon: 125° 9.13	W

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

75 90

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: _____ Station: EEFO3 Event #: 94 Vessel: Tully UTC Date (dd|mmm|yyyy): 15 | July | 2017

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		304	6-5	✓ 114	✓												
2		305	6-5	✓ 114													
3		306	90		✓												
4		307	75		✓												
5		308	60		✓												
6		309	50		✓												
7		310	30	30.49	✓												
8		311	20	20.15	✓												
9		312	10		✓												
10		313	0		✓												
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 119 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	16:25	:
Bottom (BO)	16:32	:
End (EN)	16:44	:

Positional Information

Start	Lat: <u>49° 4.22</u> N
	Lon: <u>125° 9.38</u> W
Bottom	Lat: <u>49° 4.23</u> N
	Lon: <u>125° 9.39</u> W
Finish	Lat: <u>49° 4.26</u> N
	Lon: <u>125° 9.42</u> W

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