

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-30 Station: SI Event #: 2 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 12 | JUN | 2018

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	100	✓ 100	X	X			X									
2		2	75	✓ 75		XX	X											
3		3	50	✓ 50														
4		4	40	✓ 40	XX													
5		5	30	✓ 30														
6		6	20	✓ 20				X										
7		7	10	✓ 10				XX										
8		8	5	✓ 5														
9		9	3fc	✓ 2.0	X	X		X										
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
SE/PC/CS/RY/LIB/HE/TF

Bottom Depth: 152 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	02:37	19:37
Bottom (BO)	02:38	19:38
End (EN)	02:49	19:49

Positional Information
Start
Lat: 48° 40' .339 N
Lon: 123° 30' .330 W

Bottom
Lat: 48° 40' .338 N
Lon: 123° 30' .334 W

Finish
Lat: 48° 40' .333 N
Lon: 123° 30' .329 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: 2018-30 Station: 59 Event #: 4 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 12 | 06 | 2018

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	HPC	PAR	DA	DIC	ION					
1		10	6-5	✓ 228	X	X						X	X					
2		11	200	✓ 200			X					X	X					
3		12	175	✓ 175	XX													
4		13	150	✓ 150	X							X	X					
5		14	125	✓ 125		XX												
6		15	100	✓ 100		X						XX	X					
7		16	75	✓ 75		XX						X	X					
8		17	50	✓ 50		X						X	X					
9		18	40	✓ 40	XX													
10		19	30	✓ 30	X							XX	X					
11		20	20	✓ 20				XX				X	X					
12		21	10	✓ 10				X				X	X					
13		22	5	✓ 5								X	X					
14		23	SFC	✓ 2.2	X	X		X	XX	X	X	X	X					
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 230 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	05:29	22:29
Bottom (BO)	05:34	22:34
End (EN)	05:48	22:48

Positional Information

Lat:	48° 37.879	N
Lon:	123° 14.640	W

Start

▼

Lat:	48° 37.894	N
Lon:	123° 14.684	W

Bottom

▼

Lat:	48° 38.010	N
Lon:	123° 14.789	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: 2018-30 Station: 102 Event #: 8 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 12 | Jun | 2018

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	HPLC	PAR	DA							
1		24	5-5	✓ 250	X	X												
2		25	200	✓ 201			X											
3		26	175	✓ 176	XX													
4		27	150	✓ 151														
5		28	125	✓														
6		29	100	✓		XX												
7		30	75	✓														
8		31	50	✓ 51		XY												
9		32	40	✓														
10		33	30	✓														
11		34	20		XY			X										
12		35	10					X										
13		36	5															
14		37	8fc		X	X		XX	XX	X	X							
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: _____ m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 16 : 01 09 : 01
Bottom (BO) 16 : 07 :
End (EN) 16 : 27 :

Positional Information
Start
Lat: 48 ° 30 . 084 N
Lon: 124 ° 44 . 041 W
▼
Bottom
Lat: 48 ° 30 . 126 N
Lon: 124 ° 44 . 196 W
▼
Finish
Lat: 48 ° 30 . 174 N
Lon: 124 ° 44 . 558 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: 2018-30 Station: 75 Event #: 11 Vessel: Vector UTC Date (dd|mmm|yyyy): 12 Jun 2018

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	HPLC									
1		38	B-5	✓ 218														
2		39	200	✓ 200			X											
3		40	175	✓ 175														
4		41	150	✓ 150		XX												
5		42	125	✓ 125	XX													
6		43	100	✓ 100														
7		44	75	✓ 75														
8		45	50	✓ 50														
9		46	40	✓ 40														
10		47	30	✓ 30		XX												
11		48	20	✓ 20				X										
12		49	10	✓ 10				X										
13		50	5	✓ 5	XX													
14		51	surf	✓ 2.2	✓	✓		XX	XX									
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 220 m
Transmisso Cleaned: (Y) / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>19 :14</u>	<u>12 :14</u>
Bottom (BO)	<u>19 :21</u>	<u>12 :21</u>
End (EN)	<u>19 :34</u>	<u>12 :34</u>

Positional Information

Lat:	<u>48 ° 28 . 138</u>	N
Lon:	<u>124 ° 32 . 482</u>	W

▼

Lat:	<u>48 ° 28 . 126</u>	N
Lon:	<u>124 ° 32 . 413</u>	W

▼

Lat:	<u>48 ° 28 . 129</u>	N
Lon:	<u>124 ° 32 . 092</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: 2018-30 Station: 72 Event #: 15 Vessel: Vector UTC Date (dd|mmm|yyyy): 12 | 06 | 2018

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	HRP	PAR	DA	DIC	10m				
1		52	6.5	✓ 186	X	XX						X	X				
2		53	175	✓ 175			X										
3		54	150	✓ 150								XX	X				
4		55	125	✓ 125													
5		56	100	✓ 100	XX							X	X				
6		57	75	✓ 75	XX							X	X				
7		58	50	✓ 50								X	X				
8		59	40	✓ 40													
9		60	30	✓ 30		XX						XX	X				
10		61	20	✓ 20				X				X	XX				
11		62	10	✓ 10				XX				X	X				
12		63	5	✓ 5								X	X				
13		64	80	✓ 2.3	X	X		X	XX	X	X	X	X				
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

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

Bottom Depth: 189 m
 Transmisso Cleaned: ☒ Y / ☐ N
 Fluorometer Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start (BE)	<u>23 : 26</u>	<u>16 : 26</u>
Bottom (BO)	<u>23 : 30</u>	<u>16 : 30</u>
End (EN)	<u>23 : 41</u>	<u>16 : 41</u>

Positional Information

Start	Lat: <u>48 ° 18 . 641</u> N
	Lon: <u>124 ° 04 . 028</u> W
	▼
Bottom	Lat: <u>48 ° 18 . 578</u> N
	Lon: <u>124 ° 04 . 882</u> W
	▼
Finish	Lat: <u>48 ° 18 . 385</u> N
	Lon: <u>124 ° 03 . 492</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: 2018-30 Station: 69 Event #: 18 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 13 | 06 | 2018

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	HPLC										
1		65	6-5	✓	173	X	X												
2		66	150	✓	150	XX		X											
3		67	125	✓	125														
4		68	100	✓	100														
5		69	75	✓	75		XX												
6		70	50	✓	50														
7		71	40	✓	40	XX													
8		72	30		30														start stake time
9		73	20	✓	20			XX											
10		74	10	✓	10			X											
11		75	5	✓	5														
12		76	ste	✓	2.7	X	XX	X	XX										
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s):
PMB KYCS

Bottom Depth: 180 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>02 :31</u>	<u>19 :31</u>
Bottom (BO)	<u>02 :35</u>	<u>19 :35</u>
End (EN)	<u>02 :47</u>	<u>19 :45</u>

Positional Information

Start	Lat: <u>48 ° 15 .588</u> N
	Lon: <u>123 ° 43 .430</u> W
	▼
Bottom	Lat: <u>48 ° 15 .606</u> N
	Lon: <u>123 ° 43 .434</u> W
	▼
Finish	Lat: <u>48 ° 15 .643</u> N
	Lon: <u>123 ° 43 .507</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: 208-30 Station: ADCP Event #: 21 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 13 | JUN | 2018

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	HPLC	PAR	DA							
1		77	Blm S	✓	118	x	x	x										
2		78	100	✓	100													
3		79	75	✓	75		xx											
4		80	50	✓	50	xx												
5		81	40	✓	40													
6		82	30	✓	30													
7		83	20	✓	20			xx										
8		84	10	✓	10	xx		x										
9		85	5	✓	5													
10		86	sfc	✓	2.2	x	xx	x	xx	x	x							
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 125 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>05:50</u>	<u>22:50</u>
Bottom (BO)	<u>05:52</u>	<u>22:52</u>
End (EN)	<u>06:01</u>	<u>23:01</u>

Positional Information

Start	Lat: <u>48° 13' .990</u> N
	Lon: <u>123° 18' .016</u> W
Bottom	Lat: <u>48° 13' .991</u> N
	Lon: <u>123° 18' .046</u> W
Finish	Lat: <u>48° 13' .961</u> N
	Lon: <u>123° 18' .216</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: 2018-30 Station: 65 Event #: 25 Vessel: VECTRA UTC Date (dd|mmm|yyyy): 13 | Jun | 2012

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	HPLC									
1		87	Blm-5	✓	124	X	X	X										
2		88	100	✓		XX												
3		89	75	✓		X												
4		90	50	✓														
5		91	40	✓		XY												
6		92	30	✓														
7		93	20	✓				X										
8		94	10	✓		XX		XX										
9		95	5	✓		XX	X											
10		96	SLC	✓		X	X	X	XX									
11																		
12																		
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: _____ m
Transmisso Cleaned: ☒ Y / ☐ N
Fluorometer Cleaned: ☐ Y / ☐ N
Time UTC Local
Start (BE) 08:33 01:33
Bottom (BO) 08:37 :
End (EN) 08:48 :

Positional Information
Start
Lat: 48° 15.894 N
Lon: 123° 9.793 W
▼
Bottom
Lat: 48° 15.891 N
Lon: 123° 9.784 W
▼
Finish
Lat: 48° 15.888 N
Lon: 123° 9.775 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: 208-30 Station: 63 Event #: 28 Vessel: Vector UTC Date (dd|mmm|yyyy): 13 | June | 2018

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	DA	Phyto							
1		97	20	/		X		X										
2		98	10	/		XX		XX										
3		99	Surf	/		X		X	XX	X	X							
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):

ER

Bottom Depth: 159 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	10:34	03:34
Bottom (BO)	10:37	:
End (EN)	10:43	:

Positional Information

Start	Lat: 48° 14.639 N
	Lon: 122° 58.519 W
	▼
Bottom	Lat: 48° 14.628 N
	Lon: 122° 58.489 W
	▼
Finish	Lat: 48° 14.614 N
	Lon: 122° 58.448 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: 2018-30 Station: 62 Event #: 29 Vessel: Vector UTC Date (dd|mmm|yyyy): 13 | June | 2018

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	HPLC										
1		100	B-5		147														
2		101	125					X											
3		102	100																
4		103	75				XX												
5		104	50			XX													
6		105	40																
7		106	30																
8		107	20					XX											
9		108	10			XX		X											
10		109	5				XX												
11		110	Surf			✓	✓	X	XX										
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: 149 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	12:01	05:01
Bottom (BO)	12:05	:
End (EN)	12:17	:

Positional Information
Start
Lat: 48° 22.765 N
Lon: 123° 2.648 W

Bottom
Lat: 48° 22.764 N
Lon: 123° 2.646 W

Finish
Lat: 48° 22.751 N
Lon: 123° 2.659 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: 2018-30 Station: 56 Event #: 34 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 13 | Jul | 2018

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	HPLC	DA	Phyto							
1		111	B-5	✓	211													
2		112	200	✓	200			X										
3		113	175	✓	175													
4		114	150	✓	150		XX											
5		115	125	✓	125													
6		116	100	✓	100	XX												
7		117	75	✓	75													
8		118	50	✓	50													
9		119	40	✓	40													
10		120	30	✓	30													
11		121	20	✓	20		XX		XX									
12		122	10	✓	10	XX			X									
13		123	5	✓	5	↓	↓											
14		124	SWF	✓	2.3	↓	↓		X	XX	X	X						
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 217 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 20:00 13:00
Bottom (BO) 20:05 13:05
End (EN) 20:17 13:17

Positional Information
Start
Lat: 48° 46.391 N
Lon: 123° 01.520 W
▼
Bottom
Lat: 48° 46.441 N
Lon: 123° 01.448 W
▼
Finish
Lat: 48° 46.648 N
Lon: 123° 01.199 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: 2018-30 Station: 46 Event #: 45 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 14 JUN 2018

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	HPLC										
1		125	Botm-5	✓	184	X	X	X											
2		126	150	✓	150		1												
3		127	125	✓	125		X												
4		128	100	✓	100	XX													
5		129	75	✓	75														
6		130	50	✓	50														
7		131	40	✓	40														
8		132	30	✓	30														
9		133	20	✓	20					X									
10		134	10	✓	10		XX			X									
11		135	5	✓	5	XY													
12		136	sfc	✓	sfc	X				XX	XX								
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
 Ros (default) | TrMet/Ros | X-Niskin
 Watchkeeper(s):
PC/cy/MB/CJ

Bottom Depth: 187 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: (Y) / N
 Time UTC Local
 Start (BE) 03:53 20:55
 Bottom (BO) 03:57 20:57
 End (EN) 04:08 21:08

Positional Information
 Start
 Lat: 48° 51' .287 N
 Lon: 123° 10' .703 W
 Bottom
 Lat: 48° 51' .219 N
 Lon: 123° 10' .558 W
 Finish
 Lat: 48° 51' .062 N
 Lon: 123° 10' .103 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: 2018-30 Station: 42 Event #: 50 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 14 | June | 2018

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	HPLC	Phylo	DJ	DIC	ION					
1		137	Btm-5	/	319	X	X	X					X	X				
2		138	300	/														
3		139	250	/									X	X				
4		140	200	/									X	X				
5		141	175	/														
6		142	150	/									X	X				
7		143	125	/									XX	X				
8		144	100	/									X	X				
9		145	75	/									X	X				
10		146	50	/									X	X				
11		147	40	/									X	X				
12		148	30	/									X	X				
13		149	20	/									XX	X				
14		150	10	/									X	XX				
15		151	5	/									X	X				
16		152	sf6	/									X	X				
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 324 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N
 Time UTC Local
 Start (BE) 08:51 01:51
 Bottom (BO) 08:58 :
 End (EN) 09:18 :

Positional Information
 Start
 Lat: 49° 01.705 N
 Lon: 123° 26.274 W
 Bottom
 Lat: 49° 01.679 N
 Lon: 123° 26.339 W
 Finish
 Lat: 49° 01.673 N
 Lon: 123° 26.462 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: 2018-30 Station: 39 Event #: 56 Vessel: Vector UTC Date (dd|mmm|yyyy): 14 | June | 2018

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	HPLC										
1		153	B-5	✓ 373	↓	↓													
2		154	350	✓	↓	↓	X												
3		155	300	✓ 301	↓	↓													
4		156	250	✓	↓	XX													
5		157	200	✓	↓	↓													
6		158	175	✓	↓	↓													
7		159	150	✓	XX	↓													
8		160	125	✓	↓	↓													
9		161	100	✓	↓	↓													
10		162	75	✓	↓	↓													
11		163	50	✓	↓	↓													
12		164	40	✓	↓	↓													
13		165	30	✓	XX	↓													
14		166	20	✓	↓	XX		X											
15		167	10	✓	↓	↓		XX											
16		168	5	✓	↓	↓													
17		169	surf	✓	↓	↓		X	XX										bottle did not close we used bot 16 for CHL a + HPCL
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s):

SR

Bottom Depth: 378 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time

UTC

Local

Start (BE)

14 : 44

07 : 44

Bottom (BO)

14 : 51

:

End (EN)

15 : 17

:

Positional Information

Start

Lat: 49 ° 9 . 818 N

Lon: 123 ° 33 . 005 W

▼

Bottom

Lat: 49 ° 9 . 835 N

Lon: 123 ° 33 . 060 W

▼

Finish

Lat: 49 ° 9 . 809 N

Lon: 123 ° 33 . 178 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: 2018-30 Station: GE01 Event #: 59 Vessel: Vector UTC Date (dd|mmm|yyyy): 14 | Jun | 2018

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	HPLC									
1		186	20	✓		X		X										
2		187	10	✓		XX		X										
3		188	surf	X		X		XX	XX									See event 60 for bot+3file
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):
SR

Bottom Depth: 402 m
 Transmisso Cleaned: (Y) / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	<u>17:32</u>	:
Bottom (BO)	<u>17:40</u>	:
End (EN)	<u>17:50</u>	:

Positional Information
 Start
 Lat: 49° 15 .071 N
 Lon: 123° 44 .990 W

Bottom
 Lat: 49° 15 .050 N
 Lon: 123° 45 .019 W

Finish
 Lat: 49° 15 .049 N
 Lon: 123° 45 .010 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: 2018-30 Station: 27 Event #: 64 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 14 | Jun | 2018

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	HPLC	Phyto	DA	DIC	101					
1		170	B-5	✓ 338								X	X					
2		171	300	✓ 300			X					X	X					
3		172	250	✓ 250		XX						X	X					
4		173	200	✓ 200								X	XX					
5		174	175	✓ 175								X	X					
6		175	150	✓ 150	XX							XX	X					
7		176	125	✓ 125								X	X					
8		177	100	✓ 100								X	X					
9		178	75	✓ 75								X	X					
10		179	50	✓ 50								X	X					
11		180	40	✓ 40								X	X					
12		181	30	✓ 30	XX							X	X					
13		182	20	✓ 20		XX		X				XX	X					
14		183	10	✓ 10				XX				X	X					
15		184	5	✓ 5								X	X					
16		185	SWF	✓ 2.1	↓	↓		X	XX	X	X	X	X					
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
RCS/MB/KY

Bottom Depth: 345 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 20:17 13:17
Bottom (BO) 20:24 13:24
End (EN) 20:40 13:40

Positional Information
Start Lat: 49° 19' .130 N
Lon: 123° 47' .984 W
Bottom Lat: 49° 19' .117 N
Lon: 123° 47' .914 W
Finish Lat: 49° 19' .212 N
Lon: 123° 48' .013 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: 2018-30 Station: 2 Event #: 70 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 15 JUL 2018

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	HPIC	PH _{TD}	TA							
1		186	Bm S	✓ 276		1	X											
2		187	50	✓ 250		X												
3		188	200	✓ 200	X													
4		189	175	✓ 175														
5		190	50	✓ 150														
6		191	125	✓ 125														
7		192	100	✓ 100														
8		193	75	✓ 75														
9		194	50	✓ 50														
10		195	40	✓ 40														
11		196	30	✓ 30		X												
12		197	20	✓ 20				XX										
13		198	10	✓ 10				X										
14		199	5	✓ 5	X													
15		200	sfc	✓ 2.2				X	XX	X	X							
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 282 m
 Transmisso Cleaned: Y / N
 Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	01 : 20	18 : 20
Bottom (BO)	01 : 26	18 : 26
End (EN)	01 : 40	18 : 40

Positional Information

Start	Lat: <u>49° 24' .143</u> N
	Lon: <u>124° 09' .266</u> W
	▼
Bottom	Lat: <u>49° 24' .167</u> N
	Lon: <u>124° 09' .124</u> W
	▼
Finish	Lat: <u>49° 24' .377</u> N
	Lon: <u>124° 09' .001</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: 2018-30 Station: 3 Event #: 75 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 15 | Jun | 2018

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	HPLC										
1		201	300	✓	326	X	X												
2		202	300	✓	300			X											
3		203	250	✓	250														
4		204	200	✓	200														
5		205	175	✓	175														
6		206	150	✓	150														
7		207	125	✓	125	XX													
8		208	100	✓	100														
9		209	75	✓	75														
10		210	50	✓	50	XX													
11		211	40	✓	40		XX												
12		212	30	✓	30														
13		213	20	✓	20			X											
14		214	10	✓	10			XX											
15		215	5	✓	5		XX												
16		216	SFC	✓	2.1			X	XX										
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
RKBK/08

Bottom Depth: 333 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 05:10 22:00
Bottom (BO) 05:17 22:17
End (EN) 05:32 22:32

Positional Information
Start
Lat: 49° 26.489 N
Lon: 124° 20.242 W
▼
Bottom
Lat: 49° 26.498 N
Lon: 124° 20.141 W
▼
Finish
Lat: 49° 26.446 N
Lon: 124° 19.988 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: 218-30 Station: 6 Event #: 78 Vessel: VECOR UTC Date (dd|mmm|yyyy): 15 | June | 2018

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	HPLC									
1		217	Btm-5	✓	190	x	x											
2		218	175	✓			x											
3		219	150	✓														
4		220	125	✓		x												
5		221	100	✓														
6		222	75	✓	x													
7		223	50	✓														
8		224	40	✓														
9		225	30															
10		226	20					x										
11		227	10			x		x										
12		228	5															
13		229	stc		x			x	x									
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 194 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 07:40 00:40
Bottom (BO) 07:43 :
End (EN) : :

Positional Information
Start
Lat: 49° 30.576 N
Lon: 124° 27.799 W
Bottom
Lat: 49° 30.588 N
Lon: 124° 27.797 W
Finish
Lat: 49° 30. N
Lon: 124° 27. 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: 2018-30 Station: 9 Event #: 81 Vessel: Vector UTC Date (dd|mmm|yyyy): 15 Jun 2018

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		230	B-5		166													
2		231	150					X										
3		232	125															
4		233	100			XX												
5		234	75															
6		235	50		XX													
7		236	40															
8		237	30															
9		238	20					X										
10		239	10					X										
11		240	5			XX												
12		241	surf		XX			XX	XX									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 173 m
Transmisso Cleaned: Y N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 10:41 03:41
Bottom (BO) 10:45 :
End (EN) 11:00 :

Positional Information
Start
Lat: 49° 35.520 N
Lon: 124° 38.288 W
Bottom
Lat: 49° 35.520 N
Lon: 124° 38.303 W
Finish
Lat: 49° 35.520 N
Lon: 124° 38.340 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: 2018-30 Station: 12 Event #: 816 Vessel: Vector UTC Date (dd|mmm|yyyy): 15 | Jun | 2018

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	DA	Phyto	DIC	ION					
1		242	B-5	✓	353							X						
2		243	300	✓			X											
3		244	250	✓								X						
4		245	200	✓								X						
5		246	175	✓		XX							XX					
6		247	150	✓								XX						
7		248	125	✓								X						
8		249	100	✓		XX						X						
9		250	75	✓								X						
10		251	50	✓								XX						
11		252	40	✓								X						
12		253	30	✓								X						
13		254	20	✓								X	XX					
14		255	10	✓		XX						X						
15		256	5	✓		XX						X						
16		257	SWIF	✓						X	X	X						no DA sample here
17		258	SWIF	✓					XX									
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 358 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 14:21 07:21
Bottom (BO) 14:29 :
End (EN) 14:52 :

Positional Information
Start
Lat: 49 ° 43.614 N
Lon: 124 ° 40.810 W
▼
Bottom
Lat: 49 ° 43.633 N
Lon: 124 ° 40.860 W
▼
Finish
Lat: 49 ° 43.633 N
Lon: 124 ° 40.987 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: 2018-30 Station: 14 Event #: 90 Vessel: Vector UTC Date (dd|mmm|yyyy): 15 Jun 2018

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	HLCC	DA	Phyto							
1		259	B-5	✓														
2		260	250	✓			X											
3		261	200	✓	XX													
4		262	175	✓														
5		263	150															
6		264	125			XX												
7		265	100															
8		266	75															
9		267	50															
10		268	40															
11		269	30															
12		270	20		XX			X										
13		271	10			XX		XX										
14		272	5															
15		273	surf					X	XX	X	X							
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 315 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 18:00 11:00
Bottom (BO) 18:07 :
End (EN) 18:25 :

Positional Information
Start
Lat: 49° 53.027 N
Lon: 124° 59.560 W

Bottom
Lat: 49° 53.042 N
Lon: 124° 59.632 W

Finish
Lat: 49° 53.027 N
Lon: 124° 59.849 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: 2018-30 Station: 16 Event #: 92 Vessel: Vector UTC Date (dd|mmm|yyyy): 15 | Jun | 2018

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	HOLC									
1		274	B-5	✓	137													
2		275	125	✓	125		xx	X										
3		276	100	✓	100	xx												
4		277	75	✓	75													
5		278	50	✓	50													
6		279	40	✓	40													
7		280	30	✓	30													
8		281	20	✓	20	xx			xx									
9		282	10	✓	10		xx		X									
10		283	5	✓	5													
11		284	Surf	✓	Surf	✓	✓		X	xx								
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Profile type:
Ros (default) | TrMetlRos | X-Niskin
Watchkeeper(s):
RC/MB/KY/CS

Bottom Depth: 152 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 19:56 12:56
Bottom (BO) 20:01 13:01
End (EN) 20:12 13:12

Positional Information
Start Lat: 49° 51' .655 N
Lon: 125° 08' .888 W
Bottom Lat: 49° 51' .651 N
Lon: 125° 09' .012 W
Finish Lat: 49° 51' .472 N
Lon: 125° 09' .155 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: 2018-30 Station: Q039 Event #: 94 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 15 | 06 | 2018

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		285	20	✓ 20				X											
2		286	10	✓ 10				XX											
3		287	8fc	✓ 2.3				X	XX										
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Bottom Depth: m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N
Time UTC Local
Start (BE) 21 : 27 14 : 27
Bottom (BO) 21 : 32 14 : 37
End (EN) : :

Positional Information
Start Lat: 50 ° 01 .850 N
Lon: 125 ° 05 .489 W
Bottom Lat: 50 ° 01 .843 N
Lon: 125 ° 05 .467 W
Finish Lat: 50 ° . N
Lon: 125 ° . 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: 2018-30 Station: 22 Event #: 98 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 16 | Jul | 2018

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	WPC	Phyto	DA	Phyto							
1		288	20	✓	20				X									2 nd peck in fluorescence profile sampled	
2		289	10	✓	10				XX										
3		290	5ft	✓	1.8				X	XX	X	X							
4		291*	60	✓	59				X	XX			X						
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Profile type:
Ros (default) | TrMetIRos | X-Niskin
Watchkeeper(s):
RICK MB/KY

Bottom Depth: 355 m
Transmisso Cleaned: Y / N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	02 :35	19 :35
Bottom (BO)	02 :42	19 :42
End (EN)	02 :52	19 :52

Positional Information
Start
Lat: 49 ° 40 . 111 N
Lon: 124 ° 16 . 340 W

Bottom
Lat: 49 ° 40 . 119 N
Lon: 124 ° 16 . 364 W

Finish
Lat: 49 ° 40 . 115 N
Lon: 124 ° 16 . 432 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: 2018-30 Station: BS-17 Event #: 126 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 17 | Jun | 2018

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	Ious	DOC								
1	1	291	BS-17	✓ 44.7	x	x	x		x	x								9291 b/c 291 on event 98
2	2	292	50	✓ 44.7	x	x			xx	x								
3	3	293	40	✓ 40	xx	x			x	xx								
4	4	294	30	✓ 30	x	x			x	x								
5	5	295	20	✓ 20	x	x	x		x	x								
6	6	296	10	✓ 10	x	xx			x	xx								
7	7	297	5	✓ 5	x	x	x		x	x								
8	8	298	SRF	✓ 2.0	x	x	x		x	x								
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

MB

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

Time	UTC	Local
Start (BE)	22:26	:
Bottom (BO)	22:27	:
End (EN)	22:33	:

Positional Information
Start
Lat: 49° 29.033 N
Lon: 124° 46.240 W

Bottom
Lat: 49° 29.022 N
Lon: 124° 46.244 W

Finish
Lat: 49° 29.016 N
Lon: 124° 46.256 W

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

SALINITY TAKEN
AS REQUEST BY
DEBBY JANSON

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2018-30 Station: BS-2 Event #: 128 Vessel: VECTOR UTC Date (dd|mmm|yyyy): 18 | Jun | 2018

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	SWS	DEC								
1	1	299	BOT-10	✓ 28	xx	xx	x		x	x								
2	2	300	Z0	✓ 20	x	x			x	xx								
3	3	301	10	✓ 10	✓	x	x		xx	x								
4	4	302	5	✓ 5	x	x	x		x	xx								
5	5	303	SRE	✓ 28	x	x	x		x	x								
6																		
7																		
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24																		

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

Bottom Depth: 33 m
Transmisso Cleaned: (Y) N
Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	15:02	:
Bottom (BO)	15:04	:
End (EN)	15:08	:

Positional Information
Start
Lat: 49° 38' . 452 N
Lon: 124° 53' . 706 W

Bottom
Lat: 49° 38' . 455 N
Lon: 124° 53' . 707 W

Finish
Lat: 49° 38' . 461 N
Lon: 124° 53' . 710 W

Extra comments: (e.g., DMS cast, PAR on, Heavy Rain, Niskins out of order, etc)
SALINITY TAKEN
AS REQUESTED BY
DGBB/ JASON