Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 2 Event #: 2 Vessel: Vector UTC Date (dd|mmm|yyyy): 03 | Jul | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	*Confirmed* ✓	Pressure	Oxy	Nut	Sal	Chl a										
1		1	b-2	✓	21	x	x												
2		2	b-4	✓	19	x	x												
3		3	b-6	✓	17	xx	xx	x											
4		4	10	✓	10	x	x												
5		5	0	✓	0	x	x												
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): KS, AB, RP

Bottom Depth: 23 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	16 : 41	:
Bottom (BO)	16 : 42	:
End (EN)	16 : 49	:

Positional Information

Start	Lat:	49°	58.254	N
	Lon:	124°	40.96	W
Bottom	Lat:	49°	58.252	N
	Lon:	124°	40.96	W
Finish	Lat:	49°	58.25	N
	Lon:	124°	40.95	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Ma5 Event #: 4 Vessel: Vector UTC Date (dd|mmm|yyyy): 03 | Jul | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		6	b-2	✓	23	x	x												
2		7	b-4	✓	21	x	x												
3		8	b-2	✓	19	x	x	x											
4		9	10	✓	10	xx	xx												
5		10	0	✓	0	x	x												
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): KS, AB, D

Bottom Depth: 25 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	17 :27	:
Bottom (BO)	17 :29	:
End (EN)	17 :34	:

Positional Information

Start	Lat:	49°	58.37	N
	Lon:	124°	41.16	W
Bottom	Lat:	49°	58.37	N
	Lon:	124°	41.16	W
Finish	Lat:	49°	58.37	N
	Lon:	124°	41.16	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 **Station:** Mal 11 **Event #:** 17 **Vessel:** Vector **UTC Date (dd|mmm|yyyy):** 03 | Jul | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	*Confirmed* ✓	Pressure	Oxy	Nut	Sal	Chl a										
1		11	b-2	✓	44	x	x												
2		12	b-4	✓	42	x	x												
3		13	b-6	✓	40	x	x												
4		14	30	✓	30	x	x												
5		15	20	✓	20	xx	xx												
6		16	10	✓	10	x	x												
7		17	5	✓	5	x	x	x											
8		18	0	✓	0	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): KS, AB

Bottom Depth: 46 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: ~~Y / N~~

Time	*UTC*	*Local*
Start (BE)	22 : 44	:
Bottom (BO)	22 : 47	:
End (EN)	22 : 55	:

Positional Information

Start	Lat:	49°	58.95	N
	Lon:	124°	41.57	W
Bottom	Lat:	49°	58.95	N
	Lon:	124°	41.57	W
Finish	Lat:	49°	58.96	N
	Lon:	124°	41.57	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 8 Event #: 20 Vessel: Nector UTC Date (dd|mmm|yyyy): 03 | Jul | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	*Confirmed* Pressure	Oxy	Nut	Sal	Chl a										
1		19	b-2	✓	39	xx	xx												
2		20	b-4	✓	37	x	x												
3		21	b-6	✓	35	x	x												
4		22	30	✓	30	x	x	x											
5		23	20	✓	20	x	x												
6		24	10	✓	10	x	x												
7		25	5	✓	5	x	x												
8		26	0	✓	0	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): KS, AB, DM

Bottom Depth: 42 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	00:38	:
Bottom (BO)	00:39	:
End (EN)	00:47	:

Positional Information

Start	Lat:	49°	58.75	N
	Lon:	124°	41.30	W
Bottom	Lat:	49°	58.75	N
	Lon:	124°	41.31	W
Finish	Lat:	49°	58.75	N
	Lon:	124°	41.30	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 14 Event #: 30 Vessel: Vector UTC Date (dd|mmm|yyyy): 04 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		27	b-2	✓	51	x	x												
2		28	b-4	✓	49	x	x												
3		29	b-6	✓	47	x	x												
4		30	40	✓	40	x	x	x											
5		31	40	✓	40	x	x												duplicate Niskins
6		32	30	✓	30	x	x												
7		33	20	✓	20	x	x												
8		34	10	✓	10	xx	xx												
9		35	5	✓	5	x	x												
10		36	0	✓	0	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): KS, AB, DM

Bottom Depth: 53 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	14 : 27	:
Bottom (BO)	14 : 29	:
End (EN)	14 : 39	:

Positional Information

Start	Lat:	49°	59.32	N
	Lon:	124°	41.94	W
Bottom	Lat:	49°	59.32	N
	Lon:	124°	41.93	W
Finish	Lat:	49°	59.33	N
	Lon:	124°	41.95	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 17 Event #: 33 Vessel: Vector UTC Date (dd|mmm|yyyy): 04 | July | 2014

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		37	b-2	✓	64	x	x												
2		38	b-4	✓	62	xx	x												
3		39	b-6	✓	60	x	x												
4		40	50	✓	50	x	x												
5		41	40	✓	40	x	x												
6		42	30	✓	30	x	x												
7		43	20	✓	20	x	xx												
8		44	10	✓	10	x	x												
9		45	5	✓	5	x	x	x											
10		46	0	✓	0	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): KS/AB/DM/RP

Bottom Depth: 68 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	15:34	:
Bottom (BO)	15:37	:
End (EN)	15:47	:

Positional Information

Start	Lat:	49° 59.72	N
	Lon:	124° 42.51	W
Bottom	Lat:	49° 59.72	N
	Lon:	124° 42.50	W
Finish	Lat:	49° 59.73	N
	Lon:	124° 42.50	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 20 Event #: 44 Vessel: Vector UTC Date (dd|mmm|yyyy): 04 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	*Confirmed* ✓	Pressure	Oxy	Nut	Sal	Chl a										
1		47	b-2	✓	71	x	x												
2		48	b-4	✓	69	x	x												
3		49	b-6	✓	67	x	x												
4		50	50	✓	50	xx	xx												
5		51	40	✓	40	x	x	x											
6		52	30	✓	30	x	x												
7		53	20	✓	20	x	x												
8		54	10	✓	10	x	x												
9		55	5	✓	5	x	x												
10		56	0	✓	0	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): KS/DM/RP

Bottom Depth: 76 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	20:05	:
Bottom (BO)	20:08	:
End (EN)	20:19	:

Positional Information

Start	Lat:	50° 0.29	N
	Lon:	124° 42.80	W
Bottom	Lat:	50° 0.28	N
	Lon:	124° 42.80	W
Finish	Lat:	50° 0.29	N
	Lon:	124° 42.81	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 23 Event #: 47 Vessel: Vector UTC Date (dd|mmm|yyyy): 04 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		57	b-2	✓	89	x	x	x											
2		58	b-4	✓	87	x	x												
3		59	b-6	✓	85	x	x												
4		60	75	✓	75	x	x												
5		61	50	✓	50	x	x												
6		62	40	✓	40	x	x												
7		63	30	✓	30	x	x												
8		64	20	✓	20	x	x												
9		65	10	✓	10	x	x												
10		66	5	✓	5	xx	x												
11		67	0	✓	0	x	xx												
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): KS/DM/RP

Bottom Depth: 91 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	21 :35	:
Bottom (BO)	21 :38	:
End (EN)	21 :51	:

Positional Information

Start	Lat:	50°	1.07	N
	Lon:	124°	43.28	W
Bottom	Lat:	50°	1.07	N
	Lon:	124°	43.29	W
Finish	Lat:	50°	1.08	N
	Lon:	124°	43.28	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 26 Event #: 59 Vessel: Vector UTC Date (dd|mmm|yyyy): 05 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	*Confirmed* ✓	Pressure	Oxy	Nut	Sal	Chl a										
1		68	b-2	✓	78	x	x												
2		69	b-4	✓	76	x	x												
3		70	b-6	✓	74	x	x	x											
4		71	50	✓	50	x	x												
5		72	40	✓	40	x	x												
6		73	30	✓	30	x	x												
7		74	20	✓	20	xx	xx												
8		75	10	✓	10	x	x												
9		76	5	✓	5	x	x												
10		77	0	✓	0	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): KS/DM/AB/RP

Bottom Depth: 80 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	14 : 19	:
Bottom (BO)	14 : 22	:
End (EN)	14 : 31	:

Positional Information

Start	Lat:	50°	1.97	N
	Lon:	124°	43.79	W
Bottom	Lat:	50°	1.96	N
	Lon:	124°	43.80	W
Finish	Lat:	50°	1.96	N
	Lon:	124°	43.77	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 39 Event #: 68 Vessel: Vector UTC Date (dd|mmm|yyyy): 05 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	*Confirmed* Pressure	Oxy	Nut	Sal	Chl a										
1		78	b-2	✓	61	x	x												
2		79	b-4	✓	59	x	x												
3		80	b-6	✓	57	x	x												
4		81	50	✓	50	x	x	x											
5		82	40	✓	40	xx	xx												
6		83	30	✓	30	x	x												
7		84	20	✓	20	x	x												
8		85	10	✓	10	x	x												
9		86	5	✓	5	x	x												
10		87	0	✓	0	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): KS/AB/DM/RP

Bottom Depth: 6~~2~~3 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	18:18	:
Bottom (BO)	18:21	:
End (EN)	18:30	:

Positional Information

Start	Lat:	50°	2.35	N
	Lon:	124°	45.83	W
Bottom	Lat:	50°	2.35	N
	Lon:	124°	45.83	W
Finish	Lat:	50°	2.34	N
	Lon:	124°	45.84	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 33 Event #: 71 Vessel: Vector UTC Date (dd|mmm|yyyy): 05 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	*Confirmed* Pressure	Oxy	Nut	Sal	Chl a										
1		88	b-2	✓	51	x	x												
2		89	b-4	✓	49	x	x	x											
3		90	b-6	✓	47	x	x												
4		91	40	✓	40	x	x												
5		92	30	✓	30	x	x												
6		93	20	✓	20	xx	xx												
7		94	10	✓	10	x	x												
8		95	5	✓	5	x	x												
9		96	0	✓	0	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): KS

Bottom Depth: 53 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	19:58	:
Bottom (BO)	20:00	:
End (EN)	20:09	:

Positional Information

Start	Lat:	50°	1.94	N
	Lon:	124°	45.22	W
Bottom	Lat:	50°	1.94	N
	Lon:	124°	45.22	W
Finish	Lat:	50°	1.94	N
	Lon:	124°	45.21	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 35 Event #: 73 Vessel: Vector UTC Date (dd|mmm|yyyy): 05 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	*Confirmed* Pressure	Oxy	Nut	Sal	Chl a										
1		97	b-2	✓	45	xx	x												
2		98	b-4	✓	43	x	x												
3		99	b-6	✓	41	x	x												
4		100	30	✓	30	x	x												
5		101	20	✓	20	x	xx												
6		102	10	✓	10	x	x												
7		103	5	✓	5	x	x												
8		104	0	✓	0	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): KS/RP/DM/AB

Bottom Depth: 48 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	20 : 48	:
Bottom (BO)	20 : 49	:
End (EN)	20 : 58	:

Positional Information

Start	Lat:	50°	1.63	N
	Lon:	124°	44.87	W
Bottom	Lat:	50°	1.63	N
	Lon:	124°	44.87	W
Finish	Lat:	50°	1.63	N
	Lon:	124°	44.87	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Ma137 Event #: 75 Vessel: Vector UTC Date (dd|mmm|yyyy): 05 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	*Confirmed* Pressure	Oxy	Nut	Sal	Chl a										
1		105	b-2	✓	28	x	x												
2		106	b-4	✓	26	x	x												
3		107	b-6	✓	24	x	xx												
4		108	20	✓	20	x	x												
5		109	10	✓	10	x	x												
6		110	5	✓	5	x	x	x											
7		111	0	✓	0	xx	x												
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): KS/AB/DM/RP

Bottom Depth: 30 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	21 :34	:
Bottom (BO)	21 :36	:
End (EN)	21 :42	:

Positional Information

Start	Lat:	50 °	1.36	N
	Lon:	124 °	44.47	W
Bottom	Lat:	50 °	1.36	N
	Lon:	124 °	44.47	W
Finish	Lat:	50 °	1.36	N
	Lon:	124 °	44.47	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 40 Event #: 84 Vessel: Vector UTC Date (dd|mmm|yyyy): 06 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	*Confirmed* Pressure	Oxy	Nut	Sal	Chl a										
1		112	b-2	✓	67	x	x	x											
2		113	b-4	✓	65	x	x												
3		114	b-6	✓	63	x	x												
4		115	50	✓	50	x	xx												
5		116	40	✓	40	x	x												
6		117	30	✓	30	x	x												
7		118	20	✓	20	xx	x												
8		119	10	✓	10	x	x												
9		120	5	✓	5	x	x												
10		121	0	✓	0	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): KS/AB/DM/RP

Bottom Depth: 69 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	01 :04	:
Bottom (BO)	01 :08	:
End (EN)	01 :17	:

Positional Information

Start	Lat:	50° 2.72	N
	Lon:	124° 46.26	W
Bottom	Lat:	50° 2.73	N
	Lon:	124° 46.27	W
Finish	Lat:	50° 2.72	N
	Lon:	124° 46.27	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Ma145 Event #: 86 Vessel: Vector UTC Date (dd|mmm|yyyy): 06 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	*Confirmed* Pressure	Oxy	Nut	Sal	Chl a										
1		122	b-2	✓	68	x	x												
2		123	b-4	✓	66	x	x												
3		124	b-6	✓	64	x	x												
4		125	50	✓	50	xx	x	x											
5		126	40	✓	40	x	x												
6		127	30	✓	30	x	xx												
7		128	20	✓	20	x	x												
8		129	10	✓	10	x	x												
9		130	5	✓	5	x	x												
10		131	0	✗	0	x	x												- Problem with CTD acquisition. Bottle closed @ unknown depth. Did not sample relying on surface buckets instead. See cruise log for details if needed.
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): KS/AB/DM/RP

Bottom Depth: 70 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	02 :01	:
Bottom (BO)	02 :04	:
End (EN)	02 : 15	:

Positional Information

Start	Lat:	50°	3.90	N
	Lon:	124°	48.14	W
Bottom	Lat:	50°	3.90	N
	Lon:	124°	48.14	W
Finish	Lat:	50°	3.90	N
	Lon:	124°	48.14	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 34 Event #: 92 Vessel: Vector UTC Date (dd|mmm|yyyy): 06 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	*Confirmed* Pressure	Oxy	Nut	Sal	Chl a										
1		132	b-2	✓	48	x	x												
2		133	b-4	✓	46	x	x												
3		134	b-6	✓	44	x	xx												
4		135	30	✓	30	x	x												
5		136	20	✓	20	x	x	x											
6		137	10	✓	10	xx	x												
7		138	5	✓	5	x	x												
8		139	0	✓	0	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): KS/DM/TS/SP

Bottom Depth: 50 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	15 : 10	:
Bottom (BO)	15 : 11	:
End (EN)	15 : 19	:

Positional Information

Start	Lat:	50° 1.77	N
	Lon:	124° 45.02	W
Bottom	Lat:	50° 1.77	N
	Lon:	124° 45.02	W
Finish	Lat:	50° 1.77	N
	Lon:	124° 45.01	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 34 Event #: 95 Vessel: Vector UTC Date (dd|mmm|yyyy): 06 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		140	6-2	✓	48	x	x												
2		141	6-4	✓	46	x	x												
3		142	6-6	✓	44	x	xx												
4		143	30	✓	30	x	x												
5		144	20	✓	20	x	x	x											
6		145	10	✓	10	x	x												
7		146	5	✓	5	x x	x												
8		147	0	✓	0	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): KS/DM/TS/SP

Bottom Depth: 50 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	16 : 28	:
Bottom (BO)	16 : 29	:
End (EN)	16 : 37	:

Positional Information

Start	Lat:	50°	1.77	N
	Lon:	124°	45.02	W
Bottom	Lat:	50°	1.77	N
	Lon:	124°	45.02	W
Finish	Lat:	50°	1.78	N
	Lon:	124°	45.02	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 34 Event #: 97 Vessel: Vector UTC Date (dd|mmm|yyyy): 06 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	*Confirmed* ✓	Pressure	Oxy	Nut	Sal	Chl a										
1		148	b-2	✓	48	x	x	x											
2		149	b-4	✓	46	xx	x												
3		150	b-6	✓	44	x	x												
4		151	30	✓	30	x	x												
5		152	20	✓	20	x	x												
6		153	10	✓	10	x	x												
7		154	5	✓	5	x	x												
8		155	0	✓	0	x	xx												
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): KS/DM/RP

Bottom Depth: 50 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	17 : 30	:
Bottom (BO)	17 : 31	:
End (EN)	17 : 39	:

Positional Information

Start	Lat:	50°	1.78	N
	Lon:	124°	45.02	W
Bottom	Lat:	50°	1.78	N
	Lon:	124°	45.02	W
Finish	Lat:	50°	1.78	N
	Lon:	124°	45.04	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 34 Event #: 100 Vessel: Vector UTC Date (dd|mmm|yyyy): 06 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	*Confirmed* Pressure	Oxy	Nut	Sal	Chl a										
1		156	b-2	✓	45	x	xx												
2		157	b-4	✓	43	x	x												
3		158	b-6	✓	41	xx	x												
4		159	30	✓	30	x	x												
5		160	20	✓	20	x	x	x											
6		161	10	✓	10	x	x												
7		162	5	✓	5	x	x												
8		163	0	✓	0	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): KS/DM/RP

Bottom Depth: 50 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	19 :00	:
Bottom (BO)	19 :01	:
End (EN)	19 :09	:

Positional Information

Start	Lat:	50°	1.77	N
	Lon:	124°	45.04	W
Bottom	Lat:	50°	1.77	N
	Lon:	124°	45.05	W
Finish	Lat:	50°	1.77	N
	Lon:	124°	45.04	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 34 Event #: 102 Vessel: Vector UTC Date (dd|mmm|yyyy): 06 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		164	b-2	✓	47	x	x												
2		165	b-4	✓	45	x	x												
3		166	b-6	✓	43	x	x												
4		167	30	✓	30	xx	xx												
5		168	20	✓	20	x	x												
6		169	10	✓	10	x	x	x											
7		170	5	✓	5	x	x												
8		171	0	✓	0	x	x												
9																			— Sample #s 172 to
10																			180 were skipped
11																			Kenny had cranial
12																			Flatulence. Next
13																			cast begins @ 181
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): KS|DM|RP

Bottom Depth: 49 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	20 :01	:
Bottom (BO)	20 :02	:
End (EN)	20 :10	:

Positional Information

Start	Lat:	50°	1.77	N
	Lon:	124°	45.02	W
Bottom	Lat:	50°	1.77	N
	Lon:	124°	45.02	W
Finish	Lat:	50°	1.77	N
	Lon:	124°	45.02	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 34 Event #: 104 Vessel: Vector UTC Date (dd|mmm|yyyy): 06 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	*Confirmed* ✓	Pressure	Oxy	Nut	Sal	Chl a										
1		181	b-2	✓	48	x	x												
2		182	b-4	✓	46	x	x												
3		183	b-6	✓	44	x	x	x											
4		184	30	✓	30	x	x												
5		185	20	✓	20	xx	xx												
6		186	10	✓	10	x	x												
7		187	5	✓	5	x	x												
8		188	0	✓	0	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): KS/DM/RP

Bottom Depth: 50 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	21:02	:
Bottom (BO)	21:03	:
End (EN)	21:11	:

Positional Information

Start	Lat:	50°	1.77	N
	Lon:	124°	45.02	W
Bottom	Lat:	50°	1.77	N
	Lon:	124°	45.	W
Finish	Lat:	50°	1.77	N
	Lon:	124°	45.02	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 34 Event #: 106 Vessel: Vector UTC Date (dd|mmm|yyyy): 06 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		189	b-2	✓	48	x	x												
2		190	b-4	✓	46	x	x												
3		191	b-6	✓	44	x	x												
4		192	30	✓	30	x	x												
5		193	20	✓	20	x	x												
6		194	10	✓	10	x	x												
7		195	5	✓	5	xx	xx	x											
8		196	0	✓	0	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): KS/DM/RP/SP

Bottom Depth: 50 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	22:00	:
Bottom (BO)	22:02	:
End (EN)	22:10	:

Positional Information

Start	Lat:	50°	1.77	N
	Lon:	124°	45.01	W
Bottom	Lat:	50°	1.77	N
	Lon:	124°	45.02	W
Finish	Lat:	50°	1.77	N
	Lon:	124°	45.01	W

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

Water Properties Group

Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mo1 34 Event #: 107 Vessel: Vector UTC Date (dd|mmm|yyyy): 06 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ write samplers' initials under each sample type)													Comments
Niskin #	Firing #	Sample #	Target Pressure	Confirmed ✓	Confirmed Pressure	Oxy	Nut	Sal	Chl a for Tedri										
1		197	b-2	✓	52		x												
2		198	b-4	✓	50		x x												
3		199	b-6	✓	48		x												
4		200	30	✓	30		x												
5		201	20	✓	20		x	x											← Salinity sample was forgotten in the box so not sampled.
6		202	10	✓	10		x												
7		203	5	✓	5		x												
8		204	0	✓	0		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): KS/DM/RP

Bottom Depth: 50 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	00:29	:
Bottom (BO)	00:34	:
End (EN)	00:41	:

Positional Information

Start	Lat:	50° 1.78	N
	Lon:	124° 45.03	W
Bottom	Lat:	50° 1.78	N
	Lon:	124° 45.03	W
Finish	Lat:	50° 1.78	N
	Lon:	124° 45.02	W

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

Water Properties Group — Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: Mal 55 Event #: 108 Vessel: Vector UTC Date (dd|mmm|yyyy): 07 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	*Confirmed* ✓	Pressure	Oxy	Nut	Sal	Chl a										
1		205	b-2	✓	65		x												
2		206	b-4	✓	63		x												
3		207	b-6	✓	61		x												
4		208	50	✓	50		x												
5		209	40	✓	40		x												
6		210	30	✓	30		x												
7		211	20	✓	20		x												
8		212	10	✓	10		xx												
10 ~~9~~		213	5	✓	5		x												prematurely fired 9
11 ~~10~~		214	0	✓	0		x												Sampled from 10 (5m)
~~11~~																			and 11 (0m) instead
~~12~~																			
~~13~~																			
~~14~~																			
~~15~~																			
~~16~~																			
~~17~~																			
~~18~~																			
~~19~~																			
~~20~~																			
~~21~~																			
~~22~~																			
~~23~~																			
~~24~~																			

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

Watchkeeper(s): KS/DM/BP/SP

Bottom Depth: 68 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	01 : 32	:
Bottom (BO)	01 : 34	:
End (EN)	01 : 44	:

Positional Information

Start	Lat:	50°	3.43	N
	Lon:	124°	43.10	W
Bottom	Lat:	50°	3.43	N
	Lon:	124°	43.10	W
Finish	Lat:	50°	3.42	N
	Lon:	124°	43.10	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: 2013-55 Station: GH18 Event #: 109 Vessel: Vector UTC Date (dd|mmm|yyyy): 07 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	*Confirmed* ✓	Pressure	Oxy	Nut	Sal	Chl a										
1		215	b-2	✓	23	x	x												
2		216	b-4	✓	21	x	xx												
3		217	b-6	✓	19	x	x												
4		218	10	✓	10	x	x	x											
5		219	5	✓	5	x	x												
6		220	0	✓	0	xx	x												
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): KS/AB/DM/RP

Bottom Depth: 25 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	14 : 22	:
Bottom (BO)	14 : 23	:
End (EN)	14 : 29	:

Positional Information

Start	Lat:	50°	5.91	N
	Lon:	124°	59.92	W
Bottom	Lat:	50°	5.91	N
	Lon:	124°	59.93	W
Finish	Lat:	50°	5.90	N
	Lon:	124°	59.92	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: 2013-55 Station: GH15 Event #: 111 Vessel: Vector UTC Date (dd|mmm|yyyy): 07 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	*Confirmed* Pressure	Oxy	Nut	Sal	Chl a										
1		221	b-2	✓	19	x	x												
2		222	b-4	✓	17	x	x	x											
3		223	b-6	✓	15	xx	x												
4		224	10	✓	10	x	xx												
5		225	5	✓	5	x	x												
6		226	0	✓	0	x	x												
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): KS/AB/DM/RP

Bottom Depth: 21 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	15:00	:
Bottom (BO)	15:00	:
End (EN)	15:06	:

Positional Information

Start	Lat:	50°	5.50	N
	Lon:	124°	59.94	W
Bottom	Lat:	50°	5.50	N
	Lon:	124°	59.94	W
Finish	Lat:	50°	5.50	N
	Lon:	124°	59.95	W

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

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

Standards for Sample Collection: WaterProperties.ca/standards

Water Properties Group | **Sampling/Rosette Log** | **Institute of Ocean Sciences, Ocean Sciences Division**

Cruise ID: 2013-55 Station: GH13 Event #: 113 Vessel: Vector UTC Date (dd|mmm|yyyy): 07 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	*Confirmed* Pressure	Oxy	Nut	Sal	Chl a										
1		227	b-2	✓	36	x	x												
~~2~~		~~228~~	~~b-4~~		~~34~~	~~x~~	~~x~~												Fired prematurely.
3		229	b-6	✓	32	x	x	x											Used Bot 11
4		230	20	✓	20	x	x												instead for 34m
5		231	10	✓	10	x	x												samples
6		232	5	✓	5	xx	xx												
7		233	0	✓	0	x	x												
8																			
9																			
10																			
11		228	b-4	✓	34	x	x												
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): KS/AB/RP/DM

Bottom Depth: 38 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	15:43	:
Bottom (BO)	15:44	:
End (EN)	15:52	:

Positional Information

Start	Lat:	50°	5.56	N
	Lon:	125°	0.76	W
Bottom	Lat:	50°	5.55	N
	Lon:	125°	0.76	W
Finish	Lat:	50°	5.55	N
	Lon:	125°	0.77	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: 2013-55 Station: GH11 Event #: 115 Vessel: Nector UTC Date (dd|mmm|yyyy): 07 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	*Confirmed* Pressure	Oxy	Nut	Sal	Chl a										
1		234	b-2	✓	27	XX	X												
2		235	b-4	✓	25	X	XX												
3		236	b-6	✓	23	X	X												
4		237	20	✓	20	X	X												
5		238	10	✓	10	X	X	X											
6		239	5	✓	5	X	X												
7		240	0	✓	0	X	X												
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): KS/AB/RP/DM

Bottom Depth: 29 m

Transmisso Cleaned: Y / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	16 : 27	:
Bottom (BO)	16 : 27	:
End (EN)	16 : 34	:

Positional Information

Start	Lat:	50°	5.90	N
	Lon:	125°	6.52	W
Bottom	Lat:	50°	5.90	N
	Lon:	125°	6.52	W
Finish	Lat:	50°	5.90	N
	Lon:	125°	6.52	W

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**

Water Properties Group — Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: GH08 Event #: 128 Vessel: Vector UTC Date (dd|mmm|yyyy): 07 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	*Confirmed* Pressure	Oxy	Nut	Sal	Chl a										
1		241	b-2	✓	77	x	x												
2		242	b-4	✓	75	x	x												
3		243	b-6	✓	73	x	x												
4		244	50	✓	50	x	x	x											
5		245	40	✓	40	x	x												
6		246	30	✓	30	x	x												
7		247	20	✓	20	x	x												
8		248	10	✓	10	xx	xx												
9		249	5	✓	5	x	x												
10		250	0	✓	0	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): KS | AB | RP | DM | SP

Bottom Depth: _____ m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	22:33	:
Bottom (BO)	22:36	:
End (EN)	22:47	:

Positional Information

Start	Lat:	50°	4.40	N
	Lon:	125°	0.85	W
Bottom	Lat:	50°	4.40	N
	Lon:	125°	0.85	W
Finish	Lat:	50°	4.40	N
	Lon:	125°	0.86	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: 2013-55 Station: GH06 Event #: 130 Vessel: Vector UTC Date (dd|mmm|yyyy): 07 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	*Confirmed* Pressure	Oxy	Nut	Sal	Chl a										
1		251	b-2	✓	95	x	x												
2		252	b-4	✓	93	x	x												
3		253	b-6	✓	91	xx	xx												
4		254	75	✓	75	x	x												
5		255	50	✓	50	x	x	x											
6		256	40	✓	40	x	x												
7		257	30	✓	30	x	x												
8		258	20	✓	20	x	x												
9		259	10	✓	10	xx	xx												
10		260	5	✓	5	x	x												
11		261	0	✓	0	x	x												
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): KS|AB|RP|DM

Bottom Depth: 96 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	23 : 36	:
Bottom (BO)	23 : 38	:
End (EN)	23 : 46	:

Positional Information

Start	Lat:	50°	3.23	N
	Lon:	125°	0.72	W
Bottom	Lat:	50°	3.23	N
	Lon:	125°	0.72	W
Finish	Lat:	50°	3.23	N
	Lon:	125°	0.72	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: 2013-55 Station: GH04 Event #: 133 Vessel: Vector UTC Date (dd|mmm|yyyy): 08 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	✓	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1		262	b-2	✓	84	x	x												
2		263	b-4	✓	82	x	x												
3		264	b-6	✓	80	xx	x												
4		265	50	✓	50	x	xx	x											
5		266	40	✓	40	x	x												
6		267	30	✓	30	x	x												
7		268	20	✓	20	x	x												
8		269	10	✓	10	x	x												
9		270	5	✓	5	x	x												
10		271	0	✓	0	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): KS/AB/DM/RP

Bottom Depth: 86 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	14 :55	:
Bottom (BO)	14 :58	:
End (EN)	15 :08	:

Positional Information

Start	Lat:	50°	1.23	N
	Lon:	125°	1.79	W
Bottom	Lat:	50°	1.23	N
	Lon:	125°	1.78	W
Finish	Lat:	50°	1.24	N
	Lon:	125°	1.79	W

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

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

Standards for Sample Collection: WaterProperties.ca/standards

Water Properties Group — Sampling/Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division

Cruise ID: 2013-55 Station: GH02 Event #: 136 Vessel: Vector UTC Date (dd|mmm|yyyy): 08 | July | 2013

	Bottles & Samples			Rosette Operation			Samples Taken (↓ write samplers' initials under each sample type)													Comments
	Niskin #	Firing #	Sample #	Target Pressure	✓	Confirmed Pressure	Oxy	Nut	Sal	Chl a										
1			272	b-2	✓	228	x	x												
2			273	b-4	✓	226	x	x												
3			274	b-6	✓	224	x	x	x											
4			275	200	✓	200	xx	xx												
5			276	175	✓	175	x	x												@150m
6			277	150	✓	150	x	x												← Fired 2 bottles by
8 ~~7~~			278	125	✓	125	x	x												mistake. Sampled
9 ~~8~~			279	100	✓	100	xx	xx												from bot 6. Skipped
10 ~~9~~			280	75	✓	75	x	x												bot 7.
11 ~~10~~			281	50	✓	50	x	x												
12 ~~11~~			282	40	✓	40	x	x	x											
13 ~~12~~			283	30	✓	30	x	x												
14 ~~13~~			284	20	✓	20	x	x												Tide line went
15 ~~14~~			285	10	✓	10	x	x												by
16 ~~15~~			286	5	✓	5	x	x												
17 ~~16~~			287	0	✓	0	x	x												
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

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

Watchkeeper(s): KS | RP | DM

Bottom Depth: 230 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	UTC	Local
Start (BE)	17 : 48	:
Bottom (BO)	17 : 52	:
End (EN)	18 : 10	:

Positional Information

Start	Lat:	49°	59.62	N
	Lon:	125°	3.53	W
Bottom	Lat:	49°	59.62	N
	Lon:	125°	3.50	W
Finish	Lat:	49°	59.62	N
	Lon:	125°	3.47	W

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

Water Properties Group | **Sampling/Rosette Log** | **Institute of Ocean Sciences, Ocean Sciences Division**

Cruise ID: 2013-55 **Station:** GH20 **Event #:** 142 **Vessel:** Vector **UTC Date (dd|mmm|yyyy):** 08 | July | 2013

Bottles & Samples			Rosette Operation			Samples Taken (↓ *write samplers' initials under each sample type*)													Comments
Niskin #	Firing #	Sample #	Target Pressure	*Confirmed* ✓	Pressure	Oxy	Nut	Sal	Chl a										
1		288	b-2	✓	98	x	x												
2		289	b-4	✓	88	x	x												
3		290	b-6	✓	86	x	x												
4		291	75	✓	75	x	x												
5		292	50	✓	50	x	x												
6		293	40	✓	40	x	x	x											
7		294	30	✓	30	x	x												
8		295	20	✓	20	xx	xx												
9		296	10	✓	10	x	x												
10		297	5	✓	5	x	x												
11		298	0	✓	0	x	x												
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

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

Watchkeeper(s): KS/DM/AB/RP/SP

Bottom Depth: 92 m

Transmisso Cleaned: (Y) / N

Fluorometer Cleaned: Y / N

Time	*UTC*	*Local*
Start (BE)	21 : 29	:
Bottom (BO)	21 : 33	:
End (EN)	21 : 44	:

Positional Information

Start	Lat:	50°	5.75	N
	Lon:	125°	3.45	W
Bottom	Lat:	50°	5.75	N
	Lon:	125°	3.45	W
Finish	Lat:	50°	5.74	N
	Lon:	125°	3.35	W

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