

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: SI Event #: 1 Ship: Vector UTC Date (dd|mmm|yyyy): 17 | SEP | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC					
1	1	2007	0.6318	100m	✓ 100m	✓	✓	✓								
2	2	2015	1.1701	75m	✓ 74	✓	✓									
3	3	2032	2.7418	50m	✓ 50	✓	✓									
4	4	2035	3.0284	40m	✓ 40	✓	✓									
5	5	3109	2.8965	30m	✓ 29	✓	✓									
6	6	2087	3.2525	20m	✓ 20	✓	✓		✓		✓					
7	7	2099	4.2093	10m	✓ 9	✓	✓		✓		✓					
8	8	3018	6.3667	5m	✓ 5	✓	✓									
9	9	3034	8.5855	sfc	✓ 1.2	✓	✓		✓		✓					
10	10			sfc	✓ 1.2						✓					
11	10			sfc	✓ 1.2						✓					
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): M.H. PC

Bottom Depth: 166 m

Transmissio Cleaned: (Y) N

	UTC	Local
Time Start	<u>0007</u>	<u>1707</u>
Bottom	<u>0010</u>	<u>1710</u>
End	<u>0022</u>	<u>1722</u>

Positional Information
Start
Lat: 48 ° 39 379 N
Lon: 123 ° 29 833 W

Bottom
Lat: 48 ° 39 356 N
Lon: 123 ° 29 837 W

End
Lat: 48 ° 39 320 N
Lon: 123 ° 29 746 W

Oxygen Info For This Cast
Blank Value: 0.001 mL · L⁻¹
Std Value: 0.719 mL · L⁻¹
*Date Run: 16 | 09 | 2009
Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: 59 Event #: 3 Ship: Vector UTC Date (dd|mmm|yyyy): 17 | 09 | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC					
1	11	3038	2.79796	200m	☒ 214	☒	☒									
2	12	3040	2.88690	175m	☒ 175	☒	☒									
3	13	3052	2.94223	150m	☒ 149	☒	☒									
4	14	3055	3.26641	125m	☒ 124	☒	☒									
5	15	3057	3.38362	100m	☒ 100	☒	☒									
6	16	3075	3.53184	75m	☒ 75	☒	☒									
7	17	3098	3.63679	50m	☒ 50	☒	☒									
8	18	1492	3.70051	40m	☒ 40	☒	☒									
9	19	3124	3.71746	30m	☒ 29	☒	☒									
10	20	3164	3.72201	20m	☒ 19	☒	☒		☒		☒					
11	21	3171	3.74238	10m	☒ 10	☒	☒		☒		☒					
12	22	3203	3.77581	5m	☒ 5	☒	☒									
13	23	1497	3.74529	sfc	☒ 1.2	☒	☒		☒		☒					
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): DT + SS

Bottom Depth: 227 m

Transmissio Cleaned: ☒ (Y) / N

	Time	UTC	Local
Start		0253	1953
Bottom		0258	1958
End		0313	2015

Positional Information

Start
Lat: 48 ° 37 716 N
Lon: 123 ° 14 623 W

Bottom
Lat: 48 ° 37 648 N
Lon: 123 ° 14 660 W

End
Lat: 48 ° 37 354 N
Lon: 123 ° 14 882 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹
Std Value: _____ mL · L⁻¹
*Date Run: ____ | ____ | ____
Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: 102 Event #: 7 Ship: Vector UTC Date (dd|mmm|yyyy): 17 | SEP | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC					
1	24	76	11897	250	✓ 250	✓	✓	✓								
2	25	371	12813	200	✓ 201	✓	✓									
3	26	557	145679	175	✓ 175	✓	✓									
4	27	559	19476	150	✓ 151	✓	✓									
5	28	632	178912	125	✓ 126	✓	✓									
6	29	3206	22686	100	✓ 100	✓	✓									
7	30	1085	23515	75	✓ 75	✓	✓									
8	31	1158	3.3119	50	✓ 50	✓	✓									
9	32	1312	4.1557	40	✓ 40	✓	✓									
10	33	1365	4.6624	30	✓ 29	✓	✓									
11	34	2014	5.2220	20	✓ 20	✓	✓		✓		✓					
12	35	3051	6.2188	10	✓ 10	✓	✓		✓		✓					
13	36	2075	6.30415	5	✓ 5	✓	✓									
14	37	2092	6.3010	SFL	✓ 1	✓	✓		✓		✓					
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): CS, RF

Bottom Depth: 256 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	1310	0610
Bottom	1323	0623
End	1345	0645

Positional Information

Start

Lat: 48 ° 29.935 N

Lon: 124 ° 44.000 W

Bottom

Lat: 48 ° 29.820 N

Lon: 124 ° 43.992 W

End

Lat: 48 ° 29.800 N

Lon: 124 ° 44.006 W

Oxygen Info For This Cast

Blank Value: 0.001 mL • L⁻¹

Std Value: 0.719 mL • L⁻¹

*Date Run: 16 | 09 | 2009

Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: 75 Event #: 10 Ship: VECTOR UTC Date (dd|mmm|yyyy): 17 | SEP | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed √ Pressure	Oxy	Nut	Sal	Chl a	NH ₄						
1	33	2007	1.0856	215	✓ 216	✓	✓	✓								
2	39	2015	1.0861	200	✓ 199	✓	✓									
3	40	2032	1.0928	175	✓ 175	✓	✓									
4	41	2035	1.2203	150	✓ 150	✓	✓									
5	42	3109	1.4766	125	✓ 125	✓	✓									
6	43	2064	1.9474	100	✓ 101	✓	✓									
7	44	2087	2.3298	75	✓ 75	✓	✓									x broke flask 2087
8	45	2099	3.0635	50	✓ 51	✓	✓									
9	46	3018	3.2699	40	✓ 40	✓	✓									
10	47	3034	3.5016	30	✓ 30	✓	✓									
11	48	3038	3.7603	20	✓ 20	✓	✓		✓		✓					
12	49	3040	5.0558	10	✓ 10	✓	✓		✓		✓					
13	50	3052	5.0825	5	✓ 5	✓	✓									
14	51	3055	5.2642	surf		✓	✓		✓		✓					
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): CS, RF

Bottom Depth: 220 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	16:09	9:09
Bottom	16:15	9:15
End	16:33	9:33

Positional Information
Start
Lat: 48 ° 28.216 N
Lon: 124 ° 32.798 W

Bottom
Lat: 48 ° 28.224 N
Lon: 124 ° 32.766 W

End
Lat: 48 ° 28.267 N
Lon: 124 ° 32.690 W

Oxygen Info For This Cast
Blank Value: 0.001 mL · L⁻¹
Std Value: 0.019 mL · L⁻¹
*Date Run: 16 | 09 | 2009
Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: 72 Event #: 13 Ship: VECTOR UTC Date (dd|mmm|yyyy): 17 | 09 | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ✓ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC	Ext'd HPCL				
1	52	76	1.0691	185	✓ 185	✓	✓	✓								
2	53	371	1.1036	175	✓ 176	✓	✓									
3	54	557	1.0914	150	✓ 151	✓	✓									
4	55	559	1.1361	125	✓ 126	✓	✓									
5	56	632	1.6895	100	✓ 101	✓	✓									
6	57	3206	2.1492	75	✓ 76	✓	✓									
7	58	1085	2.7684	50	✓ 50	✓	✓									
8	59	1158	2.8713	40	✓ 40	✓	✓									
9	60	1312	3.0303	30	✓ 30	✓	✓									
10	61	1365	3.3305	20	✓ 20	✓	✓		✓		✓	✓				
11	62	2014	3.4983	10	✓ 10	✓	✓		✓		✓	✓				
12	63	3051	3.7623	5	✓ 5	✓	✓									
13	64	2075	3.9847	0	✓	✓	✓		✓		✓	✓				
14	65											✓				
15												✓				
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): B/MH

Bottom Depth: 190 m

Transmisso Cleaned: (Y) N

	UTC	Local
Time Start	2008	1303
Bottom	2012	1312
End	2026	1326

Positional Information

Start
 Lat: 48 ° 18.407 N
 Lon: 124 ° 04.116 W

Bottom
 Lat: 48 ° 18.430 N
 Lon: 124 ° 04.110 W

End
 Lat: 48 ° 18.304 N
 Lon: 124 ° 04.009 W

Oxygen Info For This Cast

Blank Value: 0.001 mL • L⁻¹
 Std Value: 0.719 mL • L⁻¹
 *Date Run: 16 | 09 | 09
 Analyst: CL

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: 69 Event #: 16 Ship: VECTOR UTC Date (dd|mmm|yyyy): 17 | SEP | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC			
1	66	2007	1.1465	175	☒ 175	☒	☒	☒						
2	67	2015	1.1365	150	☒	☒	☒							
3	68	2032	1.3157	125	☒	☒	☒							
4	69	2035	2.0411	100	☒	☒	☒							
5	70	3109	2.6179	75	☒	☒	☒							
6	71	2064	3.0367	50	☒	☒	☒							
7	72	3052	3.1859	40	☒	☒	☒							
8	73	2099	3.1974	30	☒	☒	☒							
9	74	3018	3.2699	20	☒	☒	☒	☒	☒	☒	☒			
10	75	3034	3.4728	10	☒	☒	☒	☒	☒	☒	☒			oxy 758 = 3+1:3028 Depth = 10m = 34564
11	76	3040	3.4523	5	☒	☒	☒							
12	77	3055	3.5720	0	☒	☒	☒	☒	☒	☒	☒			
13														
14														
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16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): RP / mt

Bottom Depth: 180 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	22 44	
Bottom	22 49	
End		

Positional Information
Start Lat: 48 ° 15.707 N
Lon: 123 ° 43.118 W

Bottom Lat: 48 ° 15.730 N
Lon: 123 ° 43.068 W

End Lat: 48 ° 15.786 N
Lon: 123 ° 42.976 W

Oxygen Info For This Cast
Blank Value: 0001 mL • L⁻¹
Std Value: 0.719 mL • L⁻¹
*Date Run: 16109109
Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: ADCP Event #: 19 Ship: VECTOR UTC Date (dd|mmm|yyyy): 18 | SEP | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC			
1	78	3057	1.78739	113	☒	☒	☒							
2	79	3075	1.76348	100	☒	☒								
3	80	3098	1.92645	75	☒	☒								
4	81	1492	2.72574	50	☒	☒								
5	82	A=3124	2.92343	40	☒	☒	☒							B=3164 ; 2.94070 mL/L
6	83	3171	3.16248	30	☒	☒								
7	84	3203	3.26900	20	☒	☒			☒		☒			
8	85	1497	3.53378	10	☒	☒			☒		☒			
9	86	2055	3.68621	5	☒	☒								
10	87	2007	4.12371	0	☒	☒			☒		☒			
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): RP/MW

Bottom Depth: 118 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	01 49	
Bottom	01 52	
End	02 02	

Positional Information
Start
Lat: 48 ° 13.942 N
Lon: 123 ° 18.115 W

Bottom
Lat: 48 ° 13.937 N
Lon: 123 ° 18.190 W

End
Lat: 48 ° 14.032 N
Lon: 123 ° 18.380 W

Oxygen Info For This Cast
Blank Value: _____ mL • L⁻¹
Std Value: _____ mL • L⁻¹
*Date Run: ____ | ____ | ____
Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: 65 Event #: 23 Ship: Vector UTC Date (dd|mmm|yyyy): 18 | 09 | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC					
1	88	76	2.20949	Bot-5m	☒	119	☒	☒								
2	89	371	2.31024	100m	☒	100	☒									
3	90	557	2.68861	75m	☒	75	☒									
4	91	559	3.08269	50m	☒	50	☒									
5	92	A= 632	3.07304	40m	☒	40	☒									B = 3206 ; 3.07412
6	93	1085	3.09473	30m	☒	30	☒									
7	94	1158	3.26910	20m	☒	20	☒		☒		☒					
8	95	1312	3.51462	10m	☒	10	☒		☒		☒					
9	96	1365	3.67233	5m	☒	5	☒									
10	97	2014	3.93057	sfc	☒	1.2	☒		☒		☒					
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): SS DT

Bottom Depth: 127 m
Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	0452	2152
Bottom	0454	2154
End	0506	2206

Positional Information
Start
Lat: 48 ° 15 874 N
Lon: 123 ° 9 997 W

Bottom
Lat: 48 ° 15 826 N
Lon: 123 ° 10 022 W

End
Lat: 48 ° 15 763 N
Lon: 123 ° 10 073 W

Oxygen Info For This Cast
Blank Value: _____ mL • L⁻¹
Std Value: _____ mL • L⁻¹
*Date Run: ____ | ____ | ____
Analyst: _____

* Oxygen blanks and standards should be run daily, if possible



Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14

Station: 62

Event #: 26

Ship: Vector

UTC Date (dd|mmm|yyyy): 18 | 09 | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC			
1	98	1128	2.1219	bot - 5m	☒ 143	☒	☒							
2	99	1464	2.2537	125m	☒ 124	☒	☒							
3	100	1335	2.8071	100m	☒ 100	☒	☒							
4	101	1306	3.2480	75m	☒ 74	☒	☒							
5	102	A=1431	3.2866	50m	☒ 50	☒	☒							B = 1476 DO = 3.2921
6	103	1477	3.3285	40m	☒ 40	☒	☒							
7	104	1478	3.3221	30m	☒ 30	☒	☒							
8	105	1473	3.4028	20m	☒ 19	☒	☒		☒		☒			
9	106	1126	3.4849	10m	☒ 9	☒	☒		☒		☒			
10	107	1459	3.5221	5m	☒ 5	☒	☒							
11	108	745	3.5144	sfc	☒ 1.2	☒	☒		☒		☒			
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): SSDT

Bottom Depth: 148 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	<u>0745</u>	<u>0045</u>
Bottom	<u>0750</u>	<u>0050</u>
End	<u>0802</u>	<u>0102</u>

Positional Information

Start Lat: 48 ° 22 854 N
Lon: 123 ° 2 708 W

Start

Bottom

Lat: 48 ° 22 914 N
Lon: 123 ° 2 731 W

End

Lat: 48 ° 23 112 N
Lon: 123 ° 2 797 W

Oxygen Info For This Cast

Blank Value: 0.001 mL • L⁻¹
Std Value: 0.719 mL • L⁻¹
*Date Run: 16 | 09 | 09
Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: 56 Event #: 31 Ship: Vector UTC Date (dd|mmm|yyyy): 18 | Sep | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC			
1	109	2015	2.98242	61m-5	☒ 222	☒	☒							
2	110	2032	2.98131	200	☒ 201	☒	☒							
3	111	2035	3.02844	175	☒ 175	☒	☒							
4	112A	3109	3.03572	150	☒ 150	☒	☒							
5	113	A-2064	3.20260	125	☒ 125	☒	☒							6-3052 = 3.22069 mL ⁻¹
6	114	2099	3.37943	100	☒ 100	☒	☒							
7	115	3018	3.56955	75	☒ 75	☒	☒							
8	116	3034	3.65701	50	☒ 49	☒	☒							
9	117	3038	3.68714	40	☒ 39	☒	☒							
10	118	3040	3.70025	30	☒ 29	☒	☒							
11	119	3055	3.78707	20	☒ 19	☒	☒	☒	☒		☒			
12	120	3057	4.00598	10	☒ 10	☒	☒	☒	☒		☒			
13	121	3075	4.54820	5	☒ 4	☒	☒							
14	122	3098	4.81748	spc.	☒ 0.8	☒	☒	☒	☒		☒			
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): CS RF

Bottom Depth: m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	13:27	06:27
Bottom	13:32	06:32
End	13:47	06:47

Positional Information
Start
Lat: 48 ° 46.333 N
Lon: 123 ° 01.602 W

Bottom
Lat: 48 ° 46.307 N
Lon: 123 ° 01.610 W

End
Lat: 48 ° 46.213 N
Lon: 123 ° 01.505 W

Oxygen Info For This Cast
Blank Value: 0.001 mL • L⁻¹
Std Value: 0.718 mL • L⁻¹
*Date Run: 16 | 09 | 09
Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: 46 Event #: 39 Ship: VECTOR UTC Date (dd|mmm|yyyy): 18 | SEP | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC	Extra	HPLC	
1	123	1128	SEE BACK	blm-5	☒	167	☒	☒						Did 3 titrations. First titration only change is 0.002 ml - added to final volume
2	124	1464	3.2095	175	☒	167	☒							
3	125	1335	3.2797	150	☒		☒							
4	126	1306	SEE BACK	125	☒		☒							
5	127	1481	3.4509	100	☒		☒							B=1476 DO=3.4003
6	128	1477	3.5068	75	☒		☒							
7	129	1478	3.6952	50	☒		☒							
8	130	1473	3.6514	40	☒		☒							
9	131	1126	3.7159	20	☒		☒							
10	132	1459	3.7264	20	☒		☒		✓✓		✓✓			
11	133	745	3.9804	10	☒		☒		✓✓		✓✓			
12	134	1317	4.5066	5	☒		☒							
13	135	668	5.1456	sfc	☒		☒		✓✓		✓✓			
14				sfc	☒							✓		
15				sfc	☒							✓		
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): RED/NAH

Bottom Depth: 172 m

Transmisso Cleaned: ☒ Y / N

Time	UTC	Local
Start	20 53	
Bottom	20 57	
End	21 09	

Positional Information

Lat: 48 ° 51.476 N

Lon: 123 ° 10.766 W

Lat: 48 ° 51.473 N

Lon: 123 ° 10.796 W

Lat: 48 ° 51.456 N

Lon: 123 ° 10.866 W

Oxygen Info For This Cast

Blank Value: 0.001 mL · L⁻¹

Std Value: 0.718 mL · L⁻¹

*Date Run: 16 | 09 | 09

Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

* - SEE
BACK

* BROKE VIAL 3018

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: 42 Event #: 41 Ship: VECTOR UTC Date (dd|mmm|yyyy): 18 | SEP | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC			
1	137	2007	3.1719	Bot-5	☒	317	☒	☒						
2	138	2015	3.2285	300	☒		☒							
3	139	2032	3.2654	250	☒		☒							
4	140	2035	3.3734	200	☒		☒							
5	141	A-3109	3.2919	175	☒		☒							B = 2055 DO = 3.3213
6	142	2064	3.3298	150	☒		☒							
7	143	3052	4.0271	125	☒		☒							* Actually Sample 149 IN DATA
8	144	2099	3.2349	100	☒		☒							
9	145	3018	3.3753	75	☒		☒							
10	146	3034	3.4497	50	☒		☒							
11	147	3038	3.4733	40	☒		☒							
12	148	3040	3.6762	30	☒		☒							
13	149	1497	3.2994	20	☒		☒		☒	☒				* Actually Sample 103 IN DATA
14	150	3055	4.4605	10	☒		☒		☒	☒				
15	151	3057	5.3083	5	☒		☒							
16	152	3075	6.1756	.5FC	☒		☒		☒	☒				
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): PO/MH

Bottom Depth: 321 m
Transmisso Cleaned: Y / N

Time	UTC	Local
Start	23 14	
Bottom	23 21	
End	23 41	

Positional Information
Start
Lat: 49 ° 1.722 N
Lon: 123 ° 26.297 W

Bottom
Lat: 49 ° 1.690 N
Lon: 123 ° 26.350 W

End
Lat: 49 ° 1.620 N
Lon: 123 ° 26.519 W

Oxygen Info For This Cast
Blank Value: _____ mL • L⁻¹
Std Value: _____ mL • L⁻¹
*Date Run: ____ | ____ | ____
Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14

Station: 39

Event #: 45

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 19 | 09 | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC	PHYTO				
1	153	1128	3.11242	Bot - 5m	✓ 363	✓	✓	✓								Phyto @ surf.
2	154	1464	3.03297	350	✓ 350	✓	✓									
3	155	1335	3.16157	300	✓ 300	✓	✓									zeroed colorimeter
4	156	1306	3.33137	250	✓ 250	✓	✓									
5	157	A=1481	3.34748	200	✓ 200	✓	✓									B=1476; 3.34018
6	158	1477	3.34633	175	✓ 175	✓	✓									
7	159	1478	3.31599	150	✓ 150	✓	✓									
8	160	1473	3.26336	125	✓ 125	✓	✓									
9	161	1126	3.18517	100	✓ 100	✓	✓									Temp. sensors off/025
10	162	1459	3.29979	75	✓ 75	✓	✓									
11	163	745	3.43385	50	✓ 50	✓	✓									zeroed colorimeter
12	164	1317	3.52964	40	✓ 40	✓	✓									
13	165	668	3.63537	30	✓ 30	✓	✓									
14	166	1134	3.72868	20	✓ 20	✓	✓		✓		✓					
15	167	1483	4.26480	10	✓ 11	✓	✓		✓		✓					Temp. sensor off
16	168	1498	5.68287	5	✓ 5	✓	✓									zeroed colorimeter
17	169	1485	5.86944	SFC	✓ 5.6	✓	✓		✓		✓	✓				✓
18																203 seconds 0.068 ml DOS
19																
20																
21																
22																
23																
24																

Watchkeeper(s): SSDT

Bottom Depth: 375 m

Transmisso Cleaned: Y / N

	Time	UTC	Local
Start		0309	2009
Bottom		0316	2016
End		0338	2038

Positional Information

Start

Lat: 49 ° 9 887 N

Lon: 123 ° 32 921 W

Bottom

Lat: 49 ° 9 931 N

Lon: 123 ° 32 912 W

End

Lat: 49 ° 10 026 N

Lon: 123 ° 32 904 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____|____|____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Version: 28 Feb 2008

Transmissometer to be cleaned before each cast, do not use Ammonia products

<http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/>

1485 - exit program, re entered STN info & used Event # 45 flask 1485
program should allow STN # & letter ie: 46b also allow for no flask # change

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: 27 Event #: 48 Ship: vector UTC Date (dd|mmm|yyyy): 19|09|2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC					
1	170	76	3.10252	bot -5	☒ 345	✓	✓	✓								
2	171	371	3.14327	300	☒ 303	✓	✓									zeroed colorimeter
3	172	557	3.30746	250	☒ 253	✓	✓									
4	173	559	3.21795	200	☒ 202	✓	✓✓									
5	174	A=632	3.31341	175	☒ 175	✓✓	✓									B = 3206 ; 3.30088
6	175	1085	3.27600	150	☒ 151	✓	✓									
7	176	1159	3.17730	125	☒ 125	✓	✓									
8	177	1312	3.17596	100	☒ 100	✓	✓									zeroed colorimeter
9	178	1365	3.19500	75	☒ 75	✓	✓									
10	179	2014	3.28765	50	☒ 50	✓	✓									zeroed colorimeter
11	180	3051	3.33221	40	☒ 40	✓	✓									zeroed colorimeter
12	181	2075	3.42996	30	☒ 29	✓	✓									
13	182	2092	3.71190	20	☒ 20	✓	✓		✓✓		✓✓					zeroed colorimeter
14	183	3024	5.49465	10	☒ 10	✓	✓		✓✓		✓✓					zeroed colorimeter
15	184	3196	5.99830	5	☒ 5	✓	✓									zeroed colorimeter
16	185	3084	6.01828	sfc	☒ .6	✓	✓		✓✓		✓✓					zeroed colorimeter
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): SSDT

Bottom Depth: 345 m

Transmissio Cleaned: ☒ N

	Time	UTC	Local
Start		0642	2342
Bottom		0652	2352
End		0712	0012

Positional Information

Start
 Lat: 49 ° 19 140 N
 Lon: 123 ° 48 092 W

Bottom
 Lat: 49 ° 19 355 N
 Lon: 123 ° 48 222 W

End
 Lat: 49 ° 19 490 N
 Lon: 123 ° 48 758 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹
 Std Value: _____ mL · L⁻¹
 *Date Run: ____ | ____ | ____
 Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Version: 28 Feb 2008

Transmissometer to be cleaned before each cast, do not use Ammonia products

<http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/>

* forgot to change the bottom depth on start-up screen ; reads 321, should read 345

* typed in only "174" for sample "174 A"

* missed a depth around sample 180(?) therefore there are 2 depths @ 20m

SARA WAS
SLEEP
DEPRIVED!
SORRY!

Cruise ID: 2009-14 Station: 2 Event #: 52 Ship: VECTOR UTC Date (dd|mmm|yyyy): 19 | Sep | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC			
1	186	1128	3.4467	11m-5	✓ 274	✓	✓	✓						
2	187	1464	3.4713	250	✓ 251	✓	✓							
3	188	1335	3.3683	200	✓ 200	✓	✓							
4	189	1306	3.3190	175	✓ 175	✓	✓							
5	190	A = 1481	3.2927	150	✓ 150	✓	✓							B = 1476 DO = 3.2499
6	191	1477	3.2334	125	✓ 125	✓	✓							
7	192	1478	3.1630	100	✓ 100	✓	✓							
8	193	1473	3.4811	75	✓ 75	✓	✓							
9	194	1126	3.5223	50	✓ 50	✓	✓							
10	195	1459	3.6783	40	✓ 40	✓	✓							
11	196	745	3.6119	30	✓ 30	✓	✓							
12	197	1317	3.9491	20	✓ 20	✓	✓		✓	✓	✓			
13	198	668	4.5009	10	✓ 10	✓	✓		✓	✓	✓			
14	199	1134	6.0141	5	✓ 5	✓	✓							
15	200	1483	6.0078	50	✓	✓	✓		✓	✓	✓			
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): CS RF

Bottom Depth: 279 m

Transmisso Cleaned: 6 / N

	Time	UTC	Local
Start		11 08	04 08
Bottom		11 14	04 14
End		11 30	04 30

Positional Information

Start

Lat: 49 ° 24. 081 N

Lon: 124 ° 09. 386 W

Bottom

Lat: 49 ° 24. 080 N

Lon: 124 ° 09. 385 W

End

Lat: 49 ° 24 116 N

Lon: 124 ° 09. 366 W

Oxygen Info For This Cast

Blank Value: 0.001 mL · L⁻¹

Std Value: 0.718 mL · L⁻¹

*Date Run: 16 | 09 | 09

Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

Cruise ID: 2009-14 Station: 3 Event #: 55 Ship: VECTOR UTC Date (dd|mmm|yyyy): 19 | SEP | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPIC					
1	201	2007	3.1940	600.5	☒ 322	☒	☒	☒								
2	202	2015	3.3516	300	☒ 300	☒	☒									
3	203	2032	3.4994	250	☒ 250	☒	☒									
4	204	2035	3.4686	200	☒ 200	☒	☒									
5	205	A=3109	3.4255	175	☒ 175	☒	☒									B = 2055 B0 = 3435B
6	206	2064	3.4369	150	☒ 150	☒	☒									
7	207	1497	3.2651	125	☒ 125	☒	☒									
8	208	2099	3.2295	100	☒ 100	☒	☒									
9	209	3034	3.2482	75	☒ 74	☒	☒									
10	210	3038	3.4789	50	☒ 50	☒	☒									
11	211	3040	3.5075	40	☒ 40	☒	☒									
12	212	3052	3.6732	30	☒ 30	☒	☒									
13	213	3055	3.8437	20	☒ 20	☒	☒		☒		☒					
14	214	3057	5.7232	10	☒ 10	☒	☒		☒		☒					
15	215	3075	6.0639	5	☒ 5	☒	☒									
16	216	3098	6.1416	surf	☒ surf	☒	☒		☒		☒					
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): CS RF

Bottom Depth: 327 m

Transmisso Cleaned: ☒ Y / N

	Time	UTC	Local
Start		13 49	06 49
Bottom		13 56	06 56
End		14 17	07 17

Positional Information

Start Lat: 49 ° 26.563 N

Lon: 124 ° 20.300 W

Start

Bottom Lat: 49 ° 26.641 N

Lon: 124 ° 20.340 W

Bottom

End

Lat: 49 ° 26.915 N

Lon: 124 ° 20.448 W

Oxygen Info For This Cast

Blank Value: 0.001 mL · L⁻¹

Std Value: 0.719 mL · L⁻¹

*Date Run: 16 | 09 | 09

Analyst: CS

* Oxygen blanks and standards should be run daily, if possible

NO SURFACE SAMPLE BOTTLE DID NOT FIRE

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-141

Station: 6

Event #: 51

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 19 | Sep | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄	NO ₃	NO ₂	PO ₄	
1	217	371	3.5292	64m-s	✓ 186	✓	✓	✓						
2	218	76	3.4646	175	✓ 176	✓	✓							
3	219	3118	3.4236	150	✓ 150	✓	✓							
4	220	559	3.4062	125	✓ 124	✓	✓							
5	221	A: 3206	3.2651	100	✓ 100	✓	✓							B: 632 DO: 3.2541
6	222	1158	3.2569	75	✓ 75	✓	✓							
7	223	1085	3.3187	50	✓ 50	✓	✓							
8	224	1312	3.5328	40	✓ 40	✓	✓							
9	225	1365	3.6959	30	✓ 30	✓	✓							
10	226	2014	3.8086	20	✓ 20	✓	✓		✓	✓				
11	227	3051	5.9068	10	✓ 10	✓	✓		✓	✓				
12	228	2092	6.0355	5	✓ 5	✓	✓							
13	229	2075		0	✓ surf.	✓	✓		✓	✓				DID NOT FIRE. NO SURFACE
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

No sample from SURFACE *

Watchkeeper(s): CS RF

Bottom Depth: 192 m

Transmisso Cleaned: (X) / N

Time	UTC	Local
Start	15 46	08 46
Bottom	15 51	08 51
End	16 04	09 04

Positional Information

Start Lat: 49 ° 30 644 N
Lon: 124 ° 27 906 W

Bottom Lat: 49 ° 30 641 N
Lon: 124 ° 27 934 W

End Lat: 49 ° 30 640 N
Lon: 124 ° 27 968 W

Oxygen Info For This Cast

Blank Value: 0.001 mL · L⁻¹
Std Value: 0.719 mL · L⁻¹
*Date Run: 16 | 09 | 09
Analyst: CS

*Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: 9 Event #: 59 Ship: VECTOR UTC Date (dd|mmm|yyyy): 19 | SEP | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	MP	Temp	Depth	
1	230	1464	3.25823	btm-S	☒	163	☒	☒						
2	231	1128	3.01519	150	☒		☒							
3	232	1335	2.94298	125	☒		☒							
4	233	1306	3.02753	100	☒		☒							
5	234	A-1496		75	☒		☒							B=1481 DO=3.2623
6	235	1478	3.7135	50	☒		☒							
7	236	1477	3.9286	40	☒		☒							
8	237	1473	4.1729	30	☒		☒							
9	238	1126	4.2403	20	☒		☒		☒	☒				
10	239	1459	5.5831	10	☒		☒		☒	☒				
11	240	745	6.0131	5	☒		☒							
12	241	1317	6.1215	0	☒		☒		☒	☒				
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

** Oxy/Computer crashed in the middle of sample # 234A*

Watchkeeper(s): MH PL

Bottom Depth: 167 m

Transmisso Cleaned: ☒ Y / ☐ N

	Time	UTC	Local
Start		1755	
Bottom		1759	
End			

Positional Information

Start Lat: 49 ° 35.478 N
Lon: 124 ° 38.270 W

Start

Bottom Lat: 49 ° 35.462 N
Lon: 124 ° 38.352 W

Bottom

End Lat: ° N
Lon: ° W

End

Oxygen Info For This Cast

Blank Value: 0.001 mL · L⁻¹
Std Value: 0.719 mL · L⁻¹
*Date Run: 16 | 09 | 09
Analyst: MH

* Oxygen blanks and standards should be run daily, if possible

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: 12 Event #: 63 Ship: VECTOR UTC Date (dd|mmm|yyyy): 19 | SEP | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPCL	Extra HPCL		
1	242	1421	3.4195	61m-S	☒	350	☒	☒						
2	243	2060	3.3766	350	☒		☒							
3	244	3007	3.4307	300	☒		☒							
4	245	3061	3.4061	250	☒		☒							
5	246	A-3069	3.4117	200	☒		☒							R-3104 DO-3.4115
6	247	3157	3.4104	175	☒		☒							
7	248	3119	3.3836	150	☒		☒							
8	249	3142	3.3472	125	☒		☒							
9	250	3174	3.0724	100	☒		☒							
10	251	3191	3.1179	75	☒		☒							
11	252	3200	3.2837	50	☒		☒							
12	253	3204	3.4840	40	☒		☒							
13	254	3207	3.8680	30	☒		☒							
14	255	3596	4.6398	20	☒		☒		☒		☒			
15	256	3100	5.2119	10	☒		☒		☒		☒			
16	257	3193	6.0448	5	☒		☒							
17	258	3187	6.1765	SAZ	☒		☒		☒		☒			
18	259			sfc	☒							☒		
19	259			sfc	☒							☒		
20														
21														
22														
23														
24														

Watchkeeper(s): ED NH

Bottom Depth: 353 m

Transmisso Cleaned: ☒ Y / ☐ N

	Time	UTC	Local
Start		21 07	
Bottom		21 18	
End			

Positional Information

Start
 Lat: 49 ° 43.612 N
 Lon: 124 ° 40.842 W

Bottom
 Lat: 49 ° 43.781 N
 Lon: 124 ° 40.763 W

End
 Lat: 49 ° N
 Lon: 124 ° W

Oxygen Info For This Cast

Blank Value: mL · L⁻¹

Std Value: mL · L⁻¹

*Date Run: | |

Analyst:

* Oxygen blanks and standards should be run daily, if possible

Z.C. = zeroed colorimeter ; usually only at 100.1 to 100.2

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: 14 Event #: 66 Ship: VECTOR UTC Date (dd|mmm|yyyy): 20 | 09 | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken								Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC	PHYTO		
1	260	3061	3.46186	400-5	☒ 304	☒		☒						
2	261	3007	3.44191	300	☒ 294	☒								zeroed colorimeter (Z.C.)
3	262	1421	3.44236	250	☒ 247	☒								Z.C.
4	263	2060	3.41936	200	☒ 198	☒	☒							Z.C.
5	264	A-3104	2.93190	175	☒ 183	☒								Z.C.
6	265	3107	3.16243	150	☒ 154	☒								
7	266	3119	3.11591	125	☒ 128	☒								Z.C.
8	267	3191	3.51513	100	☒ 99	☒								Z.C.
9	268	3200	3.61611	75	☒ 75	☒								Z.C.
10	269	3142	3.70731	50	☒ 50	☒								* Z.C.
11	270	3174	3.80632	40	☒ 40	☒								* Z.C.
12	271	3096	3.98511	30	☒ 30	☒								* Z.C.
13	272	3100	4.18192	20	☒ 20	☒			☒		☒			Z.C.
14	273	3204	4.45312	10	☒ 10	☒			☒		☒			Z.C.
15	274	3207	4.76123	5	☒ 5	☒			☒		☒			
16	275	3193	5.36516	SFC	☒ .9	☒			☒		☒	☒		
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s):
DT SS

Bottom Depth: 315 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0347	2047
Bottom	0354	2054
End	0413	2113

Positional Information

Start
Lat: 49 ° 53 029 N
Lon: 124 ° 59 527 W

Bottom
Lat: 49 ° 53 937 N
Lon: 124 ° 59 708 W

End
Lat: 49 ° 52 668 N
Lon: 124 ° 59 765 W

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Lots of wind, large wire angles

* bubbles in Alk. Iod. changed - Lot 072289

Water Properties Group

Rosette Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2009-14 Station: 16 Event #: 68 Ship: VECTOR UTC Date (dd|mmm|yyyy): 20 | 09 | 2009

Niskin #	Sample #	Oxygen Titrations		Rosette Operation			Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ✓	Pressure	Oxy	Nut	Sal	Chl a	NH ₄	HPLC					
1	276	76	3.31975	B-5	✓	139	✓	✓	✓								* forgot to change bottom depth
2	277	371	3.36990	125	✓	125	✓	✓									* forgot to change bottom depth
3	278	3118	3.26498	100	✓	100	✓	✓									finally changed bottom depth!
4	279	559	3.11798	75	✓	75	✓	✓									Z.C.
5	280	A-3206	3.38442	50	✓	50	✓	✓									B = 632 ; 3.41307 Z.C.
6	281	1085	3.80163	40	✓	39	✓	✓									Z.C.
7	282	1158	4.03409	30	✓	30	✓	✓									Z.C.
8	283	3051	4.39204	20	✓	20	✓	✓		✓		✓					
9	284	2014	4.67327	10	✓	10	✓	✓		✓		✓					Z.C.
10	285	1365	5.45201	5	✓	5	✓	✓									Z.C.
11	286	1312	5.89733	Swif.	✓	1.1	✓	✓		✓		✓					
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): SSDT

Bottom Depth: 149 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0536	2236
Bottom	0540	2240
End	0551	2251

Positional Information

Start Lat: 49 ° 57 595 N
Lon: 125 ° 8 900 W

Start

Bottom Lat: 49 ° 57 610 N
Lon: 125 ° 8 958 W

Bottom

End Lat: 49 ° 57 688 N
Lon: 125 ° 9 211 W

End

Oxygen Info For This Cast

Blank Value: _____ mL · L⁻¹

Std Value: _____ mL · L⁻¹

*Date Run: ____ | ____ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible