

Water Properties Group

Rosette Log

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

Cruise ID: 2016-17

Station: NW-1

Event #: 1

Ship: SWL

UTC Date (dd|mm|yyyy): 03 JUL 2016

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	prod. Ph ₄ S ₂ / total Ph ₄ S ₂ / value	

1	1	1174	1134	1000	✓ 1000	X	X	X				5.5 6.0 Bubbles in 1174
2	2	1142	1177	750	✓ 751.2	X	X	X				5.8 6.0
3	3	1127	1094	500	✓ 501.8	X	X	X				6.4 6.6
4	4	1150	1198	350	✓ 353	X	X	X				6.7 7.0
5	5	1180	1192	250	✓ 259.6	X	X	X				7.5 7.7
6	6	1106	1119	225	✓ 226.5	X	X	X				7.8 8.0
7	7	1141	1158	200	✓ 200	X	X	X				8.1 8.5
8	8	1146	1123	175	✓ 175	X	X	X				8.3 8.5
9	9	1153	1138	150	✓ 151	X	X	X				8.7 8.9
10	10	1105	1110	125	✓ 125	X	X	X				8.9 9.1
11	11	1128	1144	100	✓ 99.2	X	X	X				9.3 9.4
12	12	1114	1136	75	✓ 74.8	X	X	X				9.6 9.6
13	13	1108		50	✓ 50							
14	14	1182	1178	50	✓ 50	X	X	X				10.0 10.1
15	15			35	✓ 35							10.5
16	16	1126	1189	35	✓ 35	X	X	X				10.6 10.7
17	17			30	✓ 30.5							
18	18	1130	1124	25	✓ 25.5	X	X	X				11.7 11.8
19	19			15	✓ 14.8							
20	20	1108	1196	15	✓ 14.8	X	X	X				13.6 13.7
21	21			5	✓ 5							
22	22	1120	1182	5	✓ 5	X	X	X				13.7 13.8 top vent not closed enough
23	23			0	✓ 2.5							
24	24			0	✓ 2.5							

Watchkeeper(s): SV/DW/SE

Bottom Depth: ~2000 m
Transmisso Cleaned: (Y) N

Time		UTC	Local
Start		1512	0812
Bottom		1532	0832
End		1609	0909

Positional Information
Start
Lat: 49 ° 41.141 N
Lon: 128 ° 24.174 W

Bottom
Lat: 49 ° 41.110 N
Lon: 128 ° 23.800 W

End
Lat: 49 ° 41.198 N
Lon: 128 ° 20.380 W

Oxygen Info For This Cast
Blank Value: _____ mL • L⁻¹
Std Value: _____ mL • L⁻¹
*Date Run: 1 1
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: 2016-17 Station: NP-2 Event #: 114 Ship: Swell UTC Date (dd|mm|yyyy): 07 | Jul | 2016

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken					Oxy 1 Oxy 2		Comments	
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄	temp	temp		
1	25	1005		1000	✓ 1000	X	XX	X				4.7		
2	26	3196 3204		750	✓ 779	XX	XX	X				5.2	5.6	
3	27	3182		500	✓ 500	X	XX	XX				5.9		
4	28	3178		350	✓ 344	X	XX	X				6.4		
5	29	3151		250	✓ 250	X	XX	X				7.0		
6	30	3171		225	✓ 225	X	XX	X				7.1		
7	31	3177		200	✓ 200	X	X	X				7.6		
8	32	308 301		175	✓ 175	XX	XX	X				7.9	8.1	
9	33	3166		150	✓ 149	X	XX	XX				8.4		
10	34	3207		125	✓ 125	X	XX	X				8.3		
11	35	3184		100	✓ 99	X	XX	X				8.8		
12	36	3189		75	✓ 75	X	XX	X				9.6		
13	37	3187		50	✓ 49	X	XX	X				10.9		
14	38	3160		35	✓ 35	X	XX	X				12.5		
15	39	3157		25	✓ 24	X	XX	X				14.2		
16	40	3174		15	✓ 14	X	XX	X				14.2		
17	41	1443		5	✓ 5	X	XX	X				14.3		
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s):
Sw, Sz, Ow

Bottom Depth: 2180 m
Transmissio Cleaned: (Y) 1 N

Time	UTC	Local
Start	01:09	
Bottom	01:28	
End	01:55	

Positional Information

Start

Lat: 50 ° 9.300 N
Lon: 130 ° 2.072 W

Bottom

Lat: 50 ° 9.370 N
Lon: 130 ° 1.768 W

End

Lat: 50 ° 9.460 N
Lon: 130 ° 1.210 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: 2016-17 Station: NP-3 Event #: 6 Ship: SWC UTC Date (dd|mm|yyyy): 4 | 7 | 2016

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	Dyg /ALK	Oxy1 temp	Oxy2 temp	CTD / ALK # 3
1	42	1174		1000	✓ 1001	X	XX	X			X	4.6		
2	43	1134		750	✓ 751	X	XX	X				4.9		
3	44	1142 1177		500	✓ 502	XX	XX	X			XX	5.5	5.7	
4	45	1127		350	✓ 350	X	XX	XX				5.8		
5	46	1094		250	✓ 275	X	XX	X			X	6.4		
6	47	1150		225	✓ 229	X	XX	X				6.7		
7	48	1188		200	✓ 200	X	XX	X			X	7.2		
8	49	1180		175	✓ 175	X	XX	XX				7.6		
9	50	1192		150	✓ 150	X	XX	X			X	7.8		
10	51	1106 1119		125	✓ 126	XX	XX	X				8.4	8.6	
11	52	1141		100	✓ 100	X	XX	X			X	8.7		
12	53	1158		75	✓ 75	X	XX	X	XX			9.2		
13	54	1146		50	✓ 51	X	XX	X	XX		X	9.9		
14	55	1123		35	✓ 35	X	XX	X	XX			10.5		
15	56	1153		25	✓ 26	X	XX	X	XX		X	13.0		
16	57	1138		15	✓ 15	X	XX	X	XX			13.0		
17	58	1105		5	✓ 5	X	XX	X	XX		X	13.2		
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): SV, SZ, DW

Bottom Depth: 21800 m
Transmissio Cleaned: (Y) / N

Time		UTC	Local
Start		1513	
Bottom		1532	
End		1559	

Positional Information

Start
Lat: 50 ° 56.040 N
Lon: 132 ° 54.900 W

Bottom
Lat: 50 ° 56.050 N
Lon: 132 ° 54.564 W

End
Lat: 50 ° 56.070 N
Lon: 132 ° 54.160 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: 2016-17

Station: NP-4

Event #: 11

Ship: SUC

UTC Date (dd|mm|yyyy): 5 | Jul | 2016

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		Oxy1 temp	Oxy2 temp
1	59	10853196		1000	✓ 1000	X	X	X				4.7	4.9
2	60	3204		750	✓ 750	X	X	X				5.1	
3	61	3182		500	✓ 500	X	X	X				5.6	
4	62	31783151		350	✓ 350	X	X	X				5.9	6.0
5	63	3171		250	✓ 250	X	X	X				6.7	
6	64	3174		225	✓ 225	X	X	X				7.0	
7	65	3188		200	✓ 200	X	X	X				7.4	
8	66	31813166		175	✓ 175	X	X	X				7.8	7.8
9	67	3207		150	✓ 149	X	X	X				8.1	
10	68	3184		125	✓ 125	X	X	X				8.5	
11	69	3189		100	✓ 100	X	X	X				8.7	
12	70	3187		75	✓ 76	X	X	X				9.2	
13	71	3160		50	✓ 50	X	X	X				9.9	
14	72	3157		35	✓ 35	X	X	X				10.6	
15	73	3174		25	✓ 25	X	X	X				12.1	
16	74	1443		15	✓ 15	X	X	X				12.4	
17	75	1434		5	✓ 5	X	X	X				12.6	
18													
19													
20													
21													
22													
23													
24													

Watchkeeper(s):

Bottom Depth: 3450 m

Transmisso Cleaned: Y / N

Time UTC Local

Start 01:03

Bottom 01:25

End 01:49

Positional Information

StartLat: 51 ° 28.630 N
Lon: 135 ° 6.818 W

BottomLat: 51 ° 28.810 N
Lon: 135 ° 6.670 W

EndLat: 51 ° 28.999 N
Lon: 135 ° 6.520 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

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

UTC Date (dd|mm|yyyy): 5 | 3rd | 2016

Watchkeeper(s):
SVS

Bottom Depth: 3500 m
Transmisso Cleaned: Y / N

Transmisso Cleaned: Y / N

Y / N

Time	UTC	Local
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Start	15:02	
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Bottom	15:25	
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End	7:00	
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Positional Information

Lat: 52 ° 12.500 N
Lon: 138 ° 44.503 W

Lon: 138 ° 44.503 W

▶

Lat: 52° 12.75' N

Lon: 130° 47.1' W

1000

Lat: 52 ° 13.154 N
Lon: 138 ° 43.909 W

Lon: 138 ° 43.909 W

Oxygen Info For This Cast

Blank Value: _____ $\text{mL} \cdot \text{L}^{-1}$

Std Value: _____ mL · L⁻¹

Date Run: ____/____/____

Analyst: _____

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

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

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

Sampled right after
bottle 2

Water Properties Group

Rosette Log

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

Cruise ID: 2016-17

Station: NP-6

Event #: 18

Ship: SeC

UTC Date (dd|mm|yyyy): 6 | Dec | 2016

Niskin #	Sample #	Oxygen Titrations		Rosette Target Pressure	Operation		Samples Taken					Comments	
		Flask Serial #	Value mL · L ⁻¹		Confirmed	Pressure	Oxy	Nut	Sal	Chl a	NH ₄		
1	100	3196		1000	✓	1001	X	X	X			X	xxx
2	101	3204		750	✓	750	X	X	X			X	xxx
3	102	3182		500	✓	495	X	X	X			X	xxx
4	103	3178		350	✓	351	X	X	X			X	xxx
5	104	3151	3171	250	✓	252	X	X	X				
6	105	3177		225	✓	225	X	X	X				
7	106	3180		200	✓	200	X	X	X				
8	107	3181		175	✓	176	X	X	X				
9	108	1352		150	✓	149	X	X	X				
10	109	3207	3184	125	✓	125	X	X	X			X	xxx
11	110	3189		100	✓	101	X	X	X				
12	111	3187		75	✓	75	X	X	X				
13	112	3160	3206	50	✓	50	X	X	X			X	xxx
14	113	3157		35	✓	35	X	X	X				
15	114	3174	1480	25	✓	25	X	X	X				
16	115	1443		15	✓	15	X	X	X				
17	116	1434	143	5	✓	5	X	X	X			X	xxx
18													
19													
20													
21													
22													
23													
24													

Watchkeeper(s):

Bottom Depth: 2720 m

Transmisso Cleaned: Y / N

Time		UTC	Local
Start		0107	
Bottom		0127	
End		0159	

Positional Information

Start
Lat: 52 ° 39.244 N
Lon: 171 ° 10.697 W

Bottom
Lat: 52 ° 39.290 N
Lon: 171 ° 10.703 W

End
Lat: 52 ° 39.370 N
Lon: 171 ° 9.894 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: 2016-17

Station: NP-7

Event #: 21

Ship: Surc

UTC Date (dd|mm|yyyy): 6 | Jul | 2016

Niskin #	Sample #	Oxygen Titrations		Rosette Operation Target Pressure	Operation Confirmed Pressure		Samples Taken					Comments	
		Flask Serial #	Value mL · L ⁻¹		✓	Pressure	Oxy	Nut	Sal	chl a	NH ₄	D's (Korona)	
1	117	1174	1134	1900	✓	1911	X	X	X		X		
2	118	1142		1750	✓	1750	X	X	X				
3	119	1174		1500	✓	1499	X	X	X				
4	120	1127		1250	✓	1250	X	X	X				
5	121	1094		1000	✓	1000	X	X	X		X		
6	122	1150		750	✓	750	X	X	X				
7	123	1188	1180	500	✓	500	X	X	X		X		
8	124	1192		350	✓	350	X	X	X				
9	125	1106		250	✓	255	X	X	X		X		
10	126	1119		225	✓	225	X	X	X				
11	127	1141		200	✓	200	X	X	X		X		
12	128	1158	1146	175	✓	175	X	X	X				
13	129	1123		150	✓	150	X	X	X		X		
14	130	1153		125	✓	125	X	X	X				
15	131	1138		100	✓	100	X	X	X		X		
16	132	1105		75	✓	75	X	X	X				
17	133	1110		50	✓	50	X	X	X		X		
18	134	1128	1182	35	✓	35	X	X	X				
19	135	1141		25	✓	25	X	X	X		X		
20	136	1114		15	✓	15	X	X	X		X		
21	137	1136		5	✓	5	X	X	X		X		
22													
23													
24													

Version: 28 Feb 2008

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

Watchkeeper(s):

Bottom Depth: 4085 m

Transmisso Cleaned: (Y) / N

Time		UTC	Local
Start		1505	
Bottom		1538	
End		1625	

Positional Information

Start
Lat: 53 ° 10.202 N
Lon: 144 ° 54.558 W

Bottom
Lat: 53 ° 10.109 N
Lon: 144 ° 54.769 W

End
Lat: 53 ° 10.078 N
Lon: 144 ° 54.779 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: 2016-17

Station: NP-8

Event #: 24

Ship: Seak

UTC Date (dd|mm|yyyy): 7 | 2016

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	138	1083 3196		1000	✓ 1000	X	X	X				3.8	3.8
2	139	3024		750	✓ 750	X	X	X				4.0	
3	140	3182		500	✓ 500	X	X	X				4.5	
4	141	3178		350	✓ 350	X	X	X				4.7	
5	142	3151 3171		250	✓ 251	X	X	X				4.8	5.0
6	143	3177		225	✓ 225	X	X	X				4.9	
7	144	2188		200	✓ 200	X	X	X				5.2	
8	145	3181		175	✓ 176	X	X	X				5.3	
9	146	1354 3204		150	✓ 150	X	X	X				5.4	5.4
10	147	3184		125	✓ 125	X	X	X				5.6	
11	148	3189		100	✓ 100	X	X	X				6.0	
12	149	1348		75	✓ 75	X	X	X				6.7	
13	150	3160		50	✓ 50	X	X	X				7.5	
14	151	3157		35	✓ 36	X	X	X				9.0	
15	152	3174		25	✓ 25	X	X	X				11.1	
16	153	1443		15	✓ 15	X	X	X				11.4	
17	154	1434		5	✓ 6	X	X	X				12.0	
18													
19													
20													
21													
22													
23													
24													

Watchkeeper(s):

Bottom Depth: 4021 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	0105	
Bottom	0128	
End	0152	

Positional Information

Start

Lat: 53 ° 27.440 N

Lon: 147 ° 26.544 W

Bottom

Lat: 53 ° 27.460 N

Lon: 147 ° 26.360 W

End

Lat: 53 ° 27.436 N

Lon: 147 ° 26.261 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: 2016-17

Station: NP-9

Event #: 28

Ship: SWL

UTC Date (dd|mm|yyyy): 7 | July | 2016

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken					Temp		Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	NH ₄	Oxy1 K ₁₀₁₄	Oxy2 K ₁₀₁₄	

1	155	11741134		1000	✓ 1050	X	X	X			4.0	4.2	
2	156	1142		250	✓ 752	X	X	X			4.2		
3	157	1177		500	✓ 501	X	X	X			4.7		
4	158	1127		850	✓ 351	X	X	X			5.1		
5	159	10941150		250	✓ 250	X	X	X			5.3		
6	160	1124		225	✓ 225	X	X	X			5.5		
7	161	1180		200	✓ 201	X	X	X			5.5		
8	162	1192		175	✓ 175	X	X	X			5.6		
9	163	1106		150	✓ 150	X	X	X			5.6		
10	164	1119		125	✓ 125	X	X	X			5.7		
11	165	11411158		100	✓ 100	X	X	X			6.0	6.0	
12	166	1145		100	✓ 100								
13	167	1146		75	✓ 75	X	X	X			6.3		
14	168			65	✓ 65								
15	169	1123		50	✓ 49	X	X	X			7.5		
16	170	1153		35	✓ 35	X	X	X			8.7		
17	171	1138		25	✓ 25	X	X	X			9.1		
18	172			24	✓ 24								
19	173	1105		15	✓ 15	X	X	X			11.9		
20	174			14	✓ 14								
21	175	1110		5	✓ 6	X	X	X			11.8		
22	176				✓ 6								
23	177			0	✓ 2								
24	178			0	✓ 2								

Watchkeeper(s):

Bottom Depth: 4573 m

Transmisso Cleaned: (Y) / N

Time		UTC	Local
Start		1503	
Bottom		1522	
End		1549	

Positional Information

Start
Lat: 53 ° 48.864 N
Lon: 151 ° 19.658 W

Bottom
Lat: 53 ° 49.014 N
Lon: 151 ° 19.390 W

End
Lat: 53 ° 49.170 N
Lon: 151 ° 19.338 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: 2016-17

Station: NP-10

Event #: 32

Ship: SwC

UTC Date (dd|mm|yyyy): 8 Jul 2016

Niskin #	Sample #	Oxygen Titrations		Rosette Operation Target Pressure	Operation Confirmed Pressure		Samples Taken					Oxy1 temp		Oxy2 temp	Comments
		Flask Serial #	Value mL · L ⁻¹		✓	Pressure	Oxy	Nut	Sal	Chl a	NH ₄				
1	179	10853196		1000	✓	1000	X	X	X			3.9	3.9		
2	180	3204		750	✓	745	X	X	X			4.2			
3	181	3182		500	✓	499	X	X	X			4.6			
4	182	31383151		350	✓	350	X	X	X			5.0	5.2		
5	183	3171		250	✓	251	X	X	X			5.2			
6	184	3177		225	✓	226	X	X	X			5.2			
7	185	3188		200	✓	202	X	X	X			5.4			
8	186	3181		175	✓	175	X	X	X			5.4			
9	187	13343287		150	✓	150	X	X	X			5.15	6.0		
10	188	3184		125	✓	125	X	X	X			5.8			
11	189	3189		100	✓	101	X	X	X			5.9			
12	190	13443		75	✓	75	X	X	X			6.2			
13	191	3160		50	✓	50	X	X	X			7.5			
14	192	31573108		35	✓	35	X	X	X			8.6	8.7		
15	193	3174		25	✓	26	X	X	X			11.5			
16	194	1443		15	✓	15	X	X	X			12.4			
17	195	14341428		5	✓	6	X	X	X			12.7	12.9		
18															
19															
20															
21															
22															
23															
24															

Watchkeeper(s):

Bottom Depth: 4626 m

Transmisso Cleaned: (Y) N

Time		UTC	Local
Start		0106	
Bottom		0127	
End		0152	

Positional Information

Start
Lat: 53 ° 58.000 N
Lon: 153 ° 55.740 W

Bottom
Lat: 53 ° 58.076 N
Lon: 153 ° 55.560 W

End
Lat: 53 ° 58.009 N
Lon: 153 ° 55.130 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: 2016-17

Station: NP-11

Event #: 36

Ship: Seac

UTC Date (dd|mm|yyyy): 8 | Dec | 2016

Niskin #	Sample #	Oxygen Titrations		Rosette Target Pressure	Operation		Samples Taken					Comments	
		Flask Serial #	Value mL · L ⁻¹		Confirmed	Pressure	Oxy	Nut	Sal	Chl a	NH ₄		
1	196	11741134		1000	✓	999	X	X	X			X	
2	197	1142		750	✓	752	X	X	X			4.5	
3	198	1172		500	✓	500	X	X	X			5.0	
4	199	11211094		350	✓	352	X	X	X			5.2	5.5
5	200	1150		250	✓	249	X	X	X			5.4	
6	201	1124		225	✓	227	X	X	X			5.7	
7	202	1180		200	✓	200	X	X	X			5.6	
8	203	1192		175	✓	176	X	X	X			5.7	
9	204	1106		150	✓	150	X	X	X			5.7	
10	205	11191130		125	✓	120	X	X	X			6.3	6.3
11	206	1158		100	✓	100	X	X	X			6.4	
12	207			75	✓	75							
13	208	1146		75	✓	75	X	X	X			6.9	
14	209			50	✓	50							
15	210	1123		50	✓	50	X	X	X			7.5	
16	211	11531138		35	✓	36	X	X	X			8.6	8.7
17	212	1105		25	✓	25	X	X	X			10.0	
18	213			18	✓	18							
19	214			15	✓	15							
20	215	11101128		15	✓	15	X	X	X			12.9	12.9
21	216			7	✓	7							
22	217	1144		5	✓	5	X	X	X			12.9	
23	218			0	✓								
24	219			0	✓								

Watchkeeper(s):

Bottom Depth: 2229 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	1502	
Bottom	1521	
End	1549	

Positional Information

Lat: 54 ° 7.194 N

Lon: 158 ° 51.763 W

Bottom

Lat: 54 ° 7.426 N

Lon: 158 ° 52.240 W

End

Lat: 54 ° 7.806 N

Lon: 158 ° 52.637 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

Net = Eurl 40

Cruise ID: Station: NP-12 Event #: 39 Ship: SWC UTC Date (dd|mm|yyyy): 9 | Jul | 2016

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	220			1000	✓ 97		X ✓	X				
2	221			750	✓ 97		X X	X X				
3	222			500	✓ 97		X X	X				
4	223			350	✓ 97		X X	X				
5	224			250	✓ 97		X X	X				
6	225			225	✓ 97		X X	X				
7	226			200	✓ 97		X X	X				
8	227			175	✓ 97		X X	X				
9	228			150	✓ 97		X X	X				
10	229			125	✓ 97		X X	X X				
11	230			100	✓ 97		X X	X	X X			
12	231			75	✓ 75		X X	X	X X			
13	232			50	✓ 50		X X	X	X X			
14	233			35	✓ 35		X X	X	X X			
15	234			25	✓ 25		X X	X	X X			
16	235			15	✓ 15		X X	X	X X			
17	236			5	✓ 5		X X	X				
18												
19												
20												
21												
22												
23												
24												

All the same

Watchkeeper(s):

Bottom Depth: 102 m
Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	0108	
Bottom	2	
End	0122	

Positional Information

Start

Lat: 54 ° 7.352 N
Lon: 161 ° 45.370 W

Bottom

Lat: ° 2 N
Lon: ° . W

End

Lat: 54 ° 7.610 N
Lon: 161 ° 45.395 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