

Water Properties Group

Rosette Log

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

Cruise ID: 2014-20

Station: FF03

Event #: N/A

Ship: Tully

UTC Date (dd|mmm|yyyy): 26 | Jul | 2014

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	1			6-5	✓	✓								
2	2			100		✓								
3	3			75		✓								
4	4			50		✓								
5	5			30		✓								
6	6			20		✓								
7	7			10		✓								
8	8			0		✓								
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

EFFINGHAM BLOCKED BY LOG BOOM NOT COMPLETED

Watchkeeper(s): KS / CW

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start Lat: ° N Lon: ° W

Bottom Lat: ° N Lon: ° W

End Lat: ° N Lon: ° 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: 2014-20 Station: EF04 Event #: 2 Ship: Tully UTC Date (dd|mmm|yyyy): 26 | Jul | 2014

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	9			6-5	☒ 47	☒								
2	10			30	☒ 30.2	☒								
3	11			20	☒ 19.6	☒								
4	12			10	☒ 9.9	☒								
5	13			0	☒ 2.1	☒								
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

Watchkeeper(s): KS/CW

Bottom Depth: 52 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	23:40	
Bottom	23:40	
End	23:46	

Positional Information

Start Lat: 49 ° 3.14 N
Lon: 125 ° 8.56 W

Bottom Lat: 49 ° 3.14 N
Lon: 125 ° 8.56 W

End Lat: 49 ° 3.14 N
Lon: 125 ° 8.55 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: 2014-20 Station: EF05 Event #: 3 Ship: Tully UTC Date (dd|mmm|yyyy): 26 | Jul | 2014

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	14			197	☒ 197.4	☒										
2	15			175	☒ 175.4	☒										
3	16			150	☒ 149.8	☒										
4	17			125	☒ 124.3	☒										
5	18			100	☒ 100.1	☒										
6	19			75	☒ 74.7	☒										
7	20			50	☒ 49.4	☒										
8	21			30	☒ 29.9	☒										
9	22			20	☒ 19.5	☒										
10	23			10	☒ 9.9	☒										
11	24			0	☒ 1.7	☒										
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): KS/CW

Bottom Depth: 199 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	00:44	
Bottom	00:48	
End	01:02	

Positional Information

Start Lat: 49 ° 2.55 N
Lon: 125 ° 9.15 W

Bottom Lat: 49 ° 2.50 N
Lon: 125 ° 9.15 W

End Lat: 49 ° 2.54 N
Lon: 125 ° 9.13 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: 2014-20

Station: EFF06

Event #: 4

Ship: VECTOR

UTC Date (dd|mmm|yyyy): 27 | 06 | 2014

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	25			Bot-5	☒	145.4	☒									
2	26			125	☒	124.9	☒									
3	27			100	☒	100.3	☒									
4	28			75	☒	75.4	☒									
5	29			50	☒	49.3	☒									
6	30			30	☒	30.5	☒									
7	31			20	☒	20.9	☒									
8	32			10	☒	9.9	☒									
9	33			0	☒	1.9	☒									
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): KS/CW

Bottom Depth: 150 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	02:22	
Bottom	02:25	
End	02:37	

Positional Information

Start

Lat: 49° 1.78 N

Lon: 125° 9.15 W

Bottom

Lat: 49° 1.78 N

Lon: 125° 9.15 W

End

Lat: 49° 1.77 N

Lon: 125° 9.15 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: 2014-20

Station: HEC1

Event #: 5

Ship: Tully

UTC Date (dd|mmm|yyyy): 30 | July | 2014

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 D/L 18	TOC	DOC	CDOM	DIC/AIK	Phyto	
1	34			bot-5	✓	132.8		x	x		xx	xx	xx	xx		
2	35			bot-5	✓	132.8	x		x					x	x	oops! That was dumb.
3	36			100	✓	99.8		xx	x		x	x	x	x		
4	37			100	✓	99.8	xx		x					x		
5	38			75	✓	75.8		x	xx		x	x	x	x		
6	39			75	✓	75.8	x		x					xx		
7	40			50	✓	49.8		x	x		x	x	x	x		
8	41			50	✓	49.8	x		x	xx				x		
9	42			30	✓	30.9		xx	x		x	x	x	x		
10	43			30	✓	30.9	x		xx					xx		
11	44			20	✓	19.7		x	x		x	xx	xx	xx		
12	45			20	✓	19.7	xx		x	xx				x		
13	46			10	✓	9.6		x	x		xx	x	x	x		
14	47			10	✓	9.6	xx		x	xx				x		
15	48			0	✓	1.8		x	x		x	x	x	x		
16	49			0	✓	1.8	x		x	xx				x		
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): XS/SJ

Bottom Depth: ~138 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	15:39	
Bottom	15:42	
End	15:53	

Positional Information

Start	Lat:	52 ° 49.24	N
	Lon:	129 ° 30.76	W
Bottom	Lat:	52 ° 49.24	N
	Lon:	129 ° 50.76	W
End	Lat:	52 ° 49.24	N
	Lon:	129 ° 50.76	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: 2014-20

Station: FOC1

Event #: 6

Ship: Tully

UTC Date (dd|mmm|yyyy): 01 | July | 2014

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				bot-5	✓	367.2								
2				"	✓	↓								
3				"	✓	↓								
4				"	✓	↓								
5				"	✓	↓								
6				"	✓	↓								
7				"	✓	↓								
8				"	✓	367.2								
9			200	100	✓	201.1								
10				"	✓	↓								
11				"	✓	↓								
12				"	✓	201.1								
13			100	50	✓	100.7								
14				"	✓	↓								
15				"	✓	↓								
16				"	✓	100.7								
17			50	25	✓	50.2								
18				"	✓	↓								
19				"	✓	↓								
20				"	✓	50.2								
21			0	✓	✓									
22				"	✓	did not fire.								
23				"	✓									
24				"	✓									

Watchkeeper(s): KS/SJ

Bottom Depth: 372 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	21:59	
Bottom	22:07	
End		

Positional Information

Start
Lat: 53 ° 44.13 N
Lon: 129 ° 1.74 W

Bottom
Lat: 53 ° 44.13 N
Lon: 129 ° 1.74 W

End
Lat: 53 ° 44. N
Lon: 129 ° 1. 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: 2014-20 Station: FOCI Event #: 8 Ship: Tully UTC Date (dd|mmm|yyyy): 01 | July | 2014

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 Del ₁₈	TOC	DOC	CDOM	DIC/ALK	Phylo	
1	50			bot-5	✓ 367.1		✓	✓		✓✓	✓✓	✓✓	✓✓			
2	51			bot-5	✓ 367.1	✓		✓						✓		
3	52			300	✓ 300.4		✓✓	✓		✓	✓	✓	✓			
4	53			300	✓ 300.4	✓		✓						✓✓		
5	54			250	✓ 250.5		✓	✓✓		✓	✓	✓	✓			
6	55			250	✓ 250.5	✓✓		✓						✓		
7	56			200	✓ 200.5		✓	✓		✓	✓	✓	✓			
8	57			200	✓ 200.5	✓		✓						✓		
9	58			150	✓ 149.6		✓	✓✓		✓✓	✓✓	✓✓	✓✓			
10	59			150	✓ 149.6	✓✓		✓						✓		
11	60			100	✓ 100.2		✓✓	✓		✓	✓	✓	✓			
12	61			100	✓ 100.2	✓		✓						✓		
13	62			75	✓ 74.8		✓	✓		✓	✓	✓	✓			
14	63			75	✓ 74.8	✓		✓						✓		
15	64			50	✓ 50.4		✓	✓✓		✓	✓	✓	✓			
16	65			50	✓ 50.4	✓		✓	✓✓					✓		
17	66			30	✓ 30.6		✓✓	✓		✓	✓	✓	✓			
18	67			30	✓ 30.6	✓		✓						✓✓		
19	68			20	✓ 19.6		✓	✓		✓	✓	✓	✓			
20	69			20	✓ 19.6	✓✓		✓	✓✓					✓		
21	70			10	✓ 10.3		✓	✓		✓	✓	✓	✓			
22	71			10	✓ 10.3	✓		✓	✓✓					✓		
23	72			0	✓ 1.3	✓	✓	✓		✓✓	✓✓	✓✓	✓✓			
24	73			0	✓ 1.3	✓		✓	✓✓					✓	✓	

Watchkeeper(s): KS/SJ

Bottom Depth: 367 m

Transmisso Cleaned: ☒ Y ☐ N

Time	UTC	Local
Start	<u>23:06</u>	
Bottom	<u>23:12</u>	
End	<u>23:29</u>	

Positional Information

Start	Lat:	<u>53° 44.16</u>	<u>N</u>
	Lon:	<u>129° 1.78</u>	<u>W</u>
▼			
Bottom	Lat:	<u>53° 44.15</u>	<u>N</u>
	Lon:	<u>129° 1.77</u>	<u>W</u>
▼			
End	Lat:	<u>53° 44.13</u>	<u>N</u>
	Lon:	<u>129° 1.78</u>	<u>W</u>

Oxygen Info For This Cast

Blank Value:	<u> </u> mL · L ⁻¹
Std Value:	<u> </u> mL · L ⁻¹
*Date Run:	<u> </u> <u> </u> <u> </u>
Analyst:	<u> </u>

* 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: 2014-20 Station: DOUG 4 Event #: 10 Ship: Tully UTC Date (dd|mmm|yyyy): 02 | July | 2014

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 Del 18	TOC	DOC	CDOM	DIC/ALK	Phyto	
1	101			6-5	☒	214.0		X	X		X	X	X	X		
2	102			6-5	☒	214.0	X		X					X		
3	103			200	☒	200.4		X	X		XX	X	X	X		
4	104			200	☒	200.4	XX		XX					X		
5	105			150	☒	150.4		XX	X		X	XX	X	X		
6	106			150	☒	150.4	X		X					XX		
7	107			100	☒	100.7		X	X		X	X	XX	X		
8	108			100	☒	100.7	X		XX					X		
9	109			75	☒	74.4		X	X		XX	X	X	XX		
10	110			75	☒	74.4	X		X					X		
11	111			50	☒	50.6		X	X		X	XX	X	X		
12	112			50	☒	50.6	X		X					X		
13	113			30	☒	30.2		X	X		X	X	XX	X		
14	114			30	☒	30.2	X		X					XX		
15	115			20	☒	20.0		XX	X		X	X	X	XX		
16	116			20	☒	20.0	X		X	XX				X		
17	117			10	☒	10.4		X	X		X	X	X	X		
18	118			10	☒	10.4	XX		XX	XX				X		
19	119			0	☒	1.4		X	X		X	X	X	X		
20	120			0	☒	1.4	X		X	XX				X	X	
21																
22																
23																
24																

Watchkeeper(s): KS/ ~~CS~~ CW/RL

Bottom Depth: 219 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	20:04	
Bottom	20:08	
End	20:23	

Positional Information

Start
Lat: 53 ° 55.63 N
Lon: 128 ° 42.20 W

Bottom
Lat: 53 ° 55.62 N
Lon: 128 ° 42.22 W

End
Lat: 53 ° 55.62 N
Lon: 128 ° 42.23 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: 2014-20

Station: Dougll

Event #: 13

Ship: Tully

UTC Date (dd|mmm|yyyy): 02 | July | 2014

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken					NH ₄ Del 18	TOC	DOC	CDOM	DIC/ALK	Comments
		Flask Serial #	Value mL • L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a							
1	—			b-5	✓ 343.2											} For Cooger
2	—			b-5	✓ 343.2											
3	—			b-5	✓ 343.2											
4	88			b-5	✓ 343.2	xx	x									Standard 105 rosette cast.
5	89			300	✓ 300.8	x	x									
6	90			250	✓ 250.0	x	x									
7	91			200	✓ 200.7	x	x	x								
8	92			150	✓ 151.0	x	x									
9	93			100	✓ 100.8	x	x									
10	94			75	✓ 75.4	xx	xx									
11	95			50	✓ 50.2	x	x									
12	96			30	✓ 30.6	x	x									
13	97			20	✓ 20.3	x	x		xx							
14	98			10	✓ 10.1	x	x		xx							
15	99			0	✓ 1.4	x	xx	x		xx	xx	xx	xx	xxx	removed Oxy. Not sampled	
16	100			0	✓ 1.4	xx		x	xx					xx		
17	—			0	✓ 1.4											} For Cooger
18	—			0	✓ 1.4											
19	—			0	✓ 1.4											
20																
21																
22																
23																
24																

Watchkeeper(s): KS/SS

Bottom Depth: 348 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	22:33	
Bottom	22:39	
End	22:57	

Positional Information

Start Lat: 53 ° 49.04 N
Lon: 128 ° 49.14 W

Bottom Lat: 53 ° 49.04 N
Lon: 128 ° 49.14 W

End Lat: 53 ° 49.04 N
Lon: 128 ° 49.13 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: 2014-20

Station: Doug 16

Event #: 14

Ship: Tully

UTC Date (dd|mmm|yyyy): 02 July 2014

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	OC/AIC	Del 18	TOC	DOC	CDOM		
1				b-5	✓ 384.5											} For Cooger
2				b-5	✓ 384.5											
3				b-5	✓ 384.5											
4	74			b-5	✓ 384.5	x	x									
5	75			350	✓ 350.1	x	x									105 Standard chem rosette.
6	76			300	✓ 300.2	xx	x	xx								
7	77			250	✓ 250.6	x	x									
8	78			200	✓ 200.1	x	xx									
9	79			150	✓ 150.4	x	x									
10	80			100	✓ 100.3	x	x									
11	81			75	✓ 75.3	x	x									
12	82			50	✓ 50.3	x	x									
13	83			30	✓ 30.4	x	x									
14	84			20	✓ 19.7	x	x		xx							
15	85			10	✓ 10.4	x	x		xx							only one cdom sample
16	86			0	✓ 1.7	x	xx	x			xx	xx	xx	xx		removed Oxy. Not sampled.
17	87			0	✓ 1.7	xx		x	xx	xx						
18				0	✓ 1.7											} For Cooger
19				0	✓ 1.7											
20				0	✓ 1.7											
21																
22																
23																
24																

Watchkeeper(s): KS

Bottom Depth: 389 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	23:50	
Bottom	23:56	
End	00:15	

Positional Information

Start Lat: 53° 46.79 N
Lon: 128° 54.73 W

Bottom Lat: 53° 46.79 N
Lon: 128° 54.73 W

End Lat: 53° 46.78 N
Lon: 128° 54.73 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: 2014-20 Station: DOUG26 Event #: 15 Ship: Tully UTC Date (dd|mmm|yyyy): 03 July 2014

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed Pressure	Oxy	Nut	Sal	Chl a	PH _T Del18	TOC	DOC	CDOM	DIC/ALK		
1	—			6-5	✓ 392.0											} For Cooger
2	—			6-5	✓ 392.1											
3	—			6-5	✓ 392.1											
4	121			6-5	✓ 392.1	X	X									
5	122			350	✓ 350.7	X	X									
6	123			300	✓ 300.4	X	X									
7	124			250	✓ 250.7	XX	XX									
8	125			200	✓ 199.9	X	X	X								
9	126			150	✓ 149.9	X	X									
10	127			100	✓ 100.0	X	X									
11	128			75	✓ 74.7	X	X									
12	129			50	✓ 49.2	X	X									
13	130			30	✓ 30.3	X	X									
14	131			20	✓ 19.7	X	X		XX							
15	132			10	✓ 10.2	X	X		XX							
16	133			0	✓ 1.6	XX		XX	XX					XX		
17	134			0	✓ 1.6		XX			XX	XX	XX	XX			
18	—			0	✓ 1.6											} For Cooger
19	—			0	✓ 1.6											
20	—			0	✓ 1.6											
21																
22																
23																
24																

Watchkeeper(s): KS/CW

Bottom Depth: 398 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	02:16	
Bottom	02:23	
End	02:	

Positional Information

Start Lat: 53° 40.45 N
Lon: 129° 7.30 W

Bottom Lat: 53° 40.45 N
Lon: 129° 7.30 W

End Lat: 53° 40. N
Lon: 129° 7. 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: 2014-20 Station: KSK1 Event #: 16 Ship: Tully UTC Date (dd|mmm|yyyy): 03 | July | 2014

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 Del18	TOC	DOC	CDOM	Disl ALK		
1	—			6-5	✓ 370.2											} For Cooger
2	—			6-5	✓ 370.2											
3	—			6-5	✓ 370.2											
4	135			6-5	✓ 370.2	x	x									
5	136			350	✓ 350.1	x	x									
6	137			300	✓ 300.1	xx	xx	xx								
7	138			250	✓ 249.9	x	x									
8	—			200	✓ 200.1											} For Cooger
9	—			200	✓ 200.1											
10	—			200	✓ 200.1											
11	142			200	✓ 200.1	x	x									
12	143			150	✓ 150.1	x	xx									
13	—			100	✓ 100.1											} For Cooger
14	—			100	✓ 100.1											
15	—			100	✓ 100.1											
16	147			100	✓ 100.1	x	x									
17	148			75	✓ 75.3	xx	x									
18	149			50	✓ 50.1	x	x									
19	150			30	✓ 30.1	x	x									
20	151			20	✓ 20.3	x	x		xx							
21	152			10	✓ 10.3	x	x		xx							
22	153			0	✓ 1.4	xx			xx						xx	
23	154			0	✓ 1.4		xx	xx		xx	xx	xx	xx			
24																

Watchkeeper(s): KS/CW

Bottom Depth: 379 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	15:39	
Bottom	15:46	
End	16:08	

Positional Information

Start

Lat: 53 ° 28.84 N

Lon: 129 ° 12.51 W

Bottom

Lat: 53 ° 28.84 N

Lon: 129 ° 12.51 W

End

Lat: 53 ° 28.84 N

Lon: 129 ° 12.51 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: 2014-20 Station: DOUG45 Event #: 21 Ship: Tully UTC Date (dd|mmm|yyyy): 03 | July | 2014

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 ⁺	TOC	DOC	CDOM	DIC/ALK	Phyto	
1				b-5	✓											} For Cooger
2				b-5	✓											
3				b-5	✓											
4	155			b-5	✓	450	x	x								
5	156			400	✓	400	xx	xx								Standard 10S
6	157			350	✓	350	x	x	x							chemistry cast
7	158			300	✓	300	x	x								
8	159			250	✓	250	x	x								
9	160			200	✓	200	x	x								
10	161			150	✓	150	x	x								
11	162			100	✓	100	x	x								
12	163			75	✓	75	x	x								
13	164			50	✓	50	x	x								
14	165			30	✓	30	xx	xx								
15	166			20	✓	20	x	x		xx						
16	167			10	✓	10	x	x		xx						
17	168			0			xx		xx	xx				xx	x	
18	169			0			xx	x		xx	xx	xx	xx			
19				0												} For Cooger
20				0												
21				0												
22																
23																
24																

Watchkeeper(s):

Bottom Depth: 462 m

Transmisso Cleaned: (Y) / N

Time	UTC	Local
Start	1953	
Bottom	2003	
End	2026	

Positional Information

Start Lat: 53 ° 22.272 N
Lon: 129 ° 11.699 W

Bottom Lat: ° N
Lon: ° W

End Lat: ° N
Lon: ° 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: 2014-20 Station: SC61 Event #: 25 Ship: Tully UTC Date (dd|mmm|yyyy): ⁰⁴~~03~~ | July | 2014

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 De/18	TOC	DOC	CDOM	DIC/ALK	Phyto	
1	170			bot-5	✓	499.8		x	x		xx	xx	xx	xx		
2	171			bot-5	✓	499.8	x		x					xx		
3	172			400	✓	400.5		x	x		x	x	x			
4	173			400	✓	400.5	xx		x					x		
5	174			300	✓	301.0		x	y		x	x	x			
6	175			300	✓	301.0	x		x					x		
7	176			200	✓	200.5		xx	xx		x	x	x			
8	177			200	✓	200.5	x		x					x		
9	178			150	✓	150.3		x	x		x	x	x			
10	179			150	✓	150.3	x		x					xx		
11	180			100	✓	100.6		x	x		xx	xx	xx	xx		
12	181			100	✓	100.6	x		x					x		
13	182			75	✓	74.7		x	xx		x	x	x			
14	183			75	✓	74.7	x		x					x		
15	184			50	✓	50.1		xx	x		x	x	x	y		
16	185			50	✓	50.1	xx		x					x		
17	186			30	✓	30.0		x	x		x	x	x			
18	187			30	✓	30.0	x		y					x		
19	188			20	✓	20.0		x	x		x	x	x			
20	189			20	✓	20.0	x		x	xx				x		
21	190			10	✓	9.8		x	x		x	x	x			
22	191			10	✓	9.8	xx		x	xx				xx		
23	192			0	✓	1.7		x	xx		xx	xx	xx	xx		
24	193			0	✓	1.7	x		x	xx				x	x	

Watchkeeper(s): KS/SJ

Bottom Depth: 505 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	02:06	
Bottom	02:15	
End	02:35	

Positional Information

Start
 Lat: 53° 11.99 N
 Lon: 129° 25.16 W

Bottom
 Lat: 53° 12.00 N
 Lon: 129° 25.14 W

End
 Lat: 53° 12.00 N
 Lon: 129° 25.15 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: 2014-20 Station: SC74 Event #: 32 Ship: Tully UTC Date (dd|mmm|yyyy): 04 | July | 2014

Niskin #	Sample #	Oxygen Titrations		Rosette Operation		Samples Taken										Comments
		Flask Serial #	Value mL · L ⁻¹	Target Pressure	Confirmed ☒ Pressure	Oxy	Nut	Sal	Chl a	NH₄ Del18	TOC	DOC	CDOM	DIC/ALK	Phyto	
1	194			6-5	☒ 376.1	☒	☒									
2	195			300	☒ 300.8	☒	☒									
3	196			250	☒ 250.8	☒	☒	☒								
4	197			200	☒ 200.7	☒	☒									
5	198			150	☒ 150.7	☒	☒									
6	199			100	☒ 100.1	☒	☒									
7	200			75	☒ 74.9	☒	☒									
8	201			50	☒ 50.7	☒	☒	☒								
9	202			30	☒ 29.5	☒	☒									
10	203			20	☒ 20.4	☒	☒		☒							
11	204			10	☒ 10.5	☒	☒		☒							
12	205			0	☒ 1.3	☒		☒	☒					☒		
13	206			0	☒ 1.3		☒	☒		☒	☒	☒	☒			
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): KS

Bottom Depth: 378 m

Transmisso Cleaned: ☒ Y / ☐ N

Time	UTC	Local
Start	22:49	
Bottom	22:56	
End	23:18	

Positional Information

Start Lat: 53 ° 0.69 N
Lon: 129 ° 15.97 W

Bottom Lat: 53 ° 0.69 N
Lon: 129 ° 15.97 W

End Lat: 53 ° 0.68 N
Lon: 129 ° 15.96 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: 2014-20

Station: CS84

Event #: 33

Ship: Tully

UTC Date (dd|mmm|yyyy): 05 | July | 2014

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 Del18	TOC	DOC	CDOM		DIC/ALK	
1	217			6-5	✓ 252.8	✓	✓									
2	218			200	✓ 200.4	✓✓	✓✓									
3	219			150	✓ 150.5	✓	✓	✓								
4	220			100	✓ 99.9	✓	✓									
5	221			75	✓ 75.0	✓	✓									
6	222			50	✓ 50.7	✓	✓									
7	223			30	✓ 30.9	✓	✓									
8	224			20	✓ 20.2	✓	✓		✓✓							
9	225			10	✓ 10.6	✓	✓		✓✓							
10	226			0	✓ 1.6	✓✓		✓✓	✓✓						✓✓	
11	227			0	✓ 1.6		✓✓	✓		✓✓	✓✓	✓✓	✓✓			
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Watchkeeper(s): KS/SJ/LP

Bottom Depth: 255 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	60:39	
Bottom	00:43	
End	01:02	

Positional Information

Start
Lat: 52° 51.02 N
Lon: 129° 23.95 W

Bottom
Lat: 52° 54.04 N
Lon: 129° 23.92 W

End
Lat: 52° 54.04 N
Lon: 129° 23.92 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