

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Sea Turtle



Last Updated: July 2018

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2020-009	1		1	3050	16.1	3.314		1					
Event:	/	2		2	3091	12.6	3.741		2					
Station:	LB01	3		3	1407	14.3	5.443		3					
Event Date (Local):	24 Aug 2020	4		4A	3047	15.7	7.781	⇒ lots of phytoplankton in sample	4	4B	3194	15.5	7.815	-Also lots of phytoplankton.
Analysis Date (Local):	24 Aug 2020	5							5					
Analyst:	KS	6							6					
Stdization Date (Local):	23 Aug 2020	7							7					
KIO ₃ N:	0.0120864	8		1	2	3	4A	4B	8					
Standard Titer:	0.48846	9		OXY	OXY	OXY	OXY	OXY	9					
Blank Titer:	0.00050	10		LB01	LB01	LB01	LB01	LB01	10					
THIO N:	0.24757	11		2020-009	2020-009	2020-009	2020-009	2020-009	11					
Sample Flask Water Seal?	(Yes) No	12		Bot-5 m	20 m	10 m	5 m	5 m	12					
		13		bot 1	bot 2	bot 3	bot 4	bot 4	13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

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Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-009	1		5	621	11.1	3.252							1						
Event:	2	2		6	620	-99	-99	niskin didn't close fire.						2						
Station:	LB02	3		7	3106	14.1	5.951							3						
Event Date (Local):	24 Aug 2020	4		8A	3096	15.1	7.455	⇒						4	8B	3089	15.1	7.457		
Analysis Date (Local):	24 Aug 2020	5		9	3066	16.4	7.543	- lots of phytoplankton, slight noise						5						
Analyst:	KS	6												6						
Stdization Date (Local):	23 Aug 2020	7												7						
KIO ₃ N:	0.0120864	8		5		6		7	8A	8B	9			8						
Standard Titer:	0.48846	9		OXY		OXY		OXY	OXY	OXY	OXY			9						
Blank Titer:	0.00050	10		LB02		LB02		LB02	LB02	LB02	LB02			10						
THIO N:	0.24757	11		2020-009		2020-009		2020-009	2020-009	2020-009	2020-009			11						
Sample Flask Water Seal?	(Yes) No	12		Bot-10 m		30 m		20 m	10 m	10 m	5 m			12						
		13		bot 1		bot 2		bot 3	bot 4	bot 4	bot 5			13						
Reagent Change?	MnCl ₂	14												14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15												15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16												16						
	KIO ₃	17												17						
	THIO	18												18						
Notes:		19												19						
		20												20						
		21												21						
		22												22						
		23												23						
		24												24						

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

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Cruise and Analysis Information							Nisk ID	Nisk Int V-S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-009						1		11	3110	9.1	2.236	LEAK Bottom CAP	1						
Event:	4						2		12	3147	9.3	2.664		2						
Station:	LB04						3		13A	3065	10.3	2.915		3	13B	3093	10.3	2.919		
Event Date (Local):	24-Aug-2020						4		14	745	11.8	4.435		4						
Analysis Date (Local):	24 Aug 2020						5		15	435	12.6	4.850		5						
Analyst:	KS						6		16	3084	13.3	6.087		6						
Stdization Date (Local):	23 Aug 2020						7		17	3209	14.1	6.894		7						
KIO ₃ N:	0.0120864						8							8						
Standard Titer:	0.48846						9							9						
Blank Titer:	0.00050						10							10						
THIO N:	0.24757						11		11	12	13A	13B	14	15	16	17				
Sample Flask Water Seal?	Yes						12		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY				
	No						13		LB04	LB04	LB04	LB04	LB04	LB04	LB04	LB04				
Reagent Change?	MnCl ₂						14		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009				
(Please circle reagent that was changed prior to sampling and standardization)	NaOH						15		Bot-10 m	75 m	50 m	50 m	30 m	20 m	10 m	5 m				
	H ₂ SO ₄						16		bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7				
NOTE NEW BATCH IN LOG BOOK	KIO ₃						17													
	THIO						18													
Notes:							19													
							20													
							21													
							22													
							23													
							24													

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

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Bender



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Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2020-009	1		19A	2089	8.7	1.241	⇒	1	19B	371	8.7	1.239	
Event:	8	2		20	3009	8.7	1.250		2					
Station:	LB06	3		21	3100	8.9	1.483		3					
Event Date (Local):	24-Aug-2020	4		22	2043	9.4	2.036		4					
Analysis Date (Local):	24 Aug 2020	5		23	2019	10.4	2.838		5					
Analyst:	KS	6		24	2027	11.7	3.766		6					
Stdization Date (Local):	23 Aug 2020	7		25	3000	14.6	5.593		7					
KIO ₃ N:	0.0120864	8		26	3032	15.9	7.017		8					
Standard Titer:	0.48846	9							9					
Blank Titer:	0.00050	10							10					
THIO N:	0.24757	11							11					
Sample Flask Water Seal?	Yes	12							12					
	No	13							13					
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
Notes:		19		19A	19B	20	21	22	23	24	25	26		
		20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
		21		LB06	LB06	LB06	LB06	LB06	LB06	LB06	LB06	LB06		
		22		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009		
		23		Bot-10 m	Bot-10 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m		
		24		bot 1	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8		
		25												
		26												
		27												
		28												
		29												
		30												

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

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Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-009						1		28	2089	9.1	1.243		1						
Event:	22						2		29	371	9.2	1.227		2						
Station:	LB08						3		30	3009	9.2	1.257		3						
Event Date (Local):	25.08.20						4		31	3100	9.3	1.337		4						
Analysis Date (Local):	25 Aug 2020						5		32	2043	9.6	1.776		5						
Analyst:	KS						6		33	2019	10.1	3.242		6						
Stdization Date (Local):	25 Aug 2020						7		34A	2027	11.7	4.074		7	34B	3000	11.5	4.076		
KIO ₃ N:	0.0120864						8		35	3032	14.5	6.006	Runaway @ end causing late EP.	8						
Standard Titer:	0.48859						9		36	2047	15.6	6.529	OT was good.	9						
Blank Titer:	0.00050						10							10						
THIO N:	0.24756						11		28	29	30			11						
Sample Flask Water Seal?	Yes						12		OXY	OXY	OXY			12						
	No						13		LB08	LB08	LB08			13						
Reagent Change?	MnCl ₂						14		2020-009	2020-009	2020-009			14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		Bot-10 m	125 m	100 m			15						
	H ₂ SO ₄						16		bot 1	bot 2	bot 3			16						
NOTE NEW BATCH IN LOG BOOK	KIO ₃						17							17						
	THIO						18							18						
Notes:	BENDER						19							19						
							20							20						
							21							21						
							22							22						
							23							23						
							24							24						

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

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Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020009						1		37	3030	9.0	1.134		1						
Event:	23						2		38A	3109	9.1	1.251		2	38B	505	9.1	1.245		
Station:	L1309						3		39	3049	9.5	1.668		3						
Event Date (Local):	25.08.20						4		40	3057	9.9	2.014		4						
Analysis Date (Local):	25 Aug 2020						5		41	1429	10.5	2.384		5						
Analyst:	KS						6		42	930	11.3	3.161		6						
Stdization Date (Local):	25 Aug 2020						7		43	1409	11.9	3.603		7						
KIO ₃ N:	0.0120864						8		44	2032	12.4	4.300		8						
Standard Titer:	0.48859						9		45	3187	13.7	6.225		9						
Blank Titer:	0.00050						10							10						
THIO N:	0.24756						11		37	38A	38B	39	40	41	42	44	43	45		
Sample Flask Water Seal?	(Yes) No						12		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
							13		LB09	LB09	LB09	LB09	LB09	LB09	LB09	LB09	LB09	LB09		
Reagent Change?	MnCl ₂						14		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009		
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		Bot-10 m	125 m	125 m	100 m	75 m	50 m	30 m	10 m	20 m	5 m		
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16		bot 1	bot 2	bot 2	bot 3	bot 4	bot 5	bot 6	bot 8	bot 7	bot 9		
	KIO ₃						17													
	THIO						18													
Notes:							19													
							20													
							21													
							22													
							23													
							24													

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.



Analyzed out of order.

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Water Properties Group



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Cruise and Analysis Information																
	Nisk ID	Nisk Int V-S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments			
Cruise Number: 2020009	1		47	3050	9.5	1.831		1								
Event: 26	2		48	3091	9.7	2.071		2								
Station: LB11	3		49	1407	10.5	3.245		3								
Event Date (Local): 25 Aug 2020	4		50	3047	10.1	3.414		4								
Analysis Date (Local): 25 Aug 2020	5	✓✓	51A	3194	9.9	4.364		5	51B	3114	9.9	4.361				
Analyst: KS	6	✓✓	52	621	10.2	4.892		6								
Stdization Date (Local): 25 Aug 2020	7	✓✓	53	620	11.4	5.109		7								
KIO ₃ N: 0.0120864	8	✓✓	54	3106	14.4	5.761		8								
Standard Titer: 0.48859	9	✓✓	55	3096	17.5	6.088		9								
Blank Titer: 0.00050	10	✓✓	56	3089	18.1	6.013		10								
THIO N: 0.24756	11							11								
Sample Flask Water Seal? ☒ Yes	12							12								
	13							13								
Reagent Change? MnCl ₂	14							14								
(Please circle reagent that was changed prior to sampling and standardization)	15							15								
NOTE NEW BATCH IN LOG BOOK	16							16								
	17							17								
	18															
Notes:	19		47	48	49	50	51A	51B	52	53	54	55	56			
	20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
	21		LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11	LB11			
	22		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009			
	23		Bot-10 m	175 m	125 m	100 m	75 m	75 m	50 m	30 m	20 m	10 m	5 m			
	24		bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10			

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Water Properties Group



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Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020 009	1		57	3146	9.1	0.811							1						
Event:	27	2		58	3110	9.1	1.129							2						
Station:	LB12	3		59A	3147	9.3	1.653	→						3	59B	3065	9.6	1.644		
Event Date (Local):	25.08.20	4		60	3093	9.6	2.074							4						
Analysis Date (Local):	25 Aug 2020	5		61	745	16.0	2.362							5						
Analyst:	KS	6		62	435	16.3	2.825							6						
Stdization Date (Local):	25 Aug 2020	7		63	3084	16.5	2.981							7						
KIO ₃ N:	0.0120864	8		64	3209	10.3	3.634							8						
Standard Titer:	0.48859	9		65	1223	16.3	4.000							9						
Blank Titer:	0.00050	10		66	3023	16.7	5.274							10						
THIO N:	0.24756	11		67	3199	10.5	6.416	- EP late. OT ✓						11						
Sample Flask Water Seal?	Yes	12	✓	68	3062	11.5	6.406							12						
	No	13	✓	69	3018	13.0	5.970							13						
Reagent Change?	MnCl ₂	14	✓	70A	3117	16.8	6.200	→						14	70B	3161	16.7	6.202		
(Please circle reagent that was changed prior to sampling and standardization)	Na ₂ /NaOH	15	✓	71	3132	17.2	6.217							15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		57	58	59A	59B	60	61	62	63	64	65	66	67					
	KIO ₃	17		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY					
	THIO	18		LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12	LB12					
Notes:		19		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009					
		20		Bot-10 m	400 m	300 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m					
		21		bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11					
		22		68	69	70A	70B	71												
		23		OXY	OXY	OXY	OXY	OXY												
		24		LB12	LB12	LB12	LB12	LB12												

Bottle integrity: First test the top vent (V) by op 2020-009 30 m bot 12

2020-009 20 m bot 13

2020-009 10 m bot 14

2020-009 10 m bot 14

2020-009 5 m bot 15

the appropriate column if either fails the integrity check and explain this in the comments column.

**Institute of Ocean Sciences
Water Properties Group**

Octopus



Last Updated: July 2018

Cruise and Analysis Information							OXY-1 Comments							OXY-2 Comments						
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)		Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)									
1		73A	3134	7.2	0.354	→	1	75A	1059	7.3	0.346									
2		74	1054	7.4	0.251	A bit of a runaway. OT	2													
3		75	3021	7.7	0.269		3													
4		76	3104	8.2	0.887		4													
5		77	3170	8.7	1.257		5													
6		78A	3150	9.0	1.925	→	6	78B	639	9.1	1.918									
7		79	3056	9.5	1.918	2.072	7													
8		80	3034	9.7	2.072	2.326	8													
9		81	2084	10.0	2.326	2.301	9													
10		82	1002	10.2	2.301	2.767	10													
11		83	3035	10.4	2.767	3.056	11													
12		84	1647	10.3	3.056	4.345	12													
13		85	3061	10.1	4.345	6.194	13													
14		86A	2063	10.7	6.194	→ VENT COOL (6.588)	14	86B	3028	10.6	6.591									
15		87	631	13.0	6.613		15													
16		88	3125	16.0	6.253		16													
17		89	657	18.4	5.801		17													
18		90	2638	18.5	5.801		18													

73B

OXY

LB14

2020-009

Bot-10 m

bot 1

74

OXY

LB14

2020-009

1000 m

bot 2

75

OXY

LB14

2020-009

750 m

bot 3

76

OXY

LB14

2020-009

500 m

bot 4

77

OXY

LB14

2020-009

400 m

bot 5

78A

OXY

LB14

2020-009

300 m

bot 6

78B

OXY

LB14

2020-009

300 m

bot 6

79

OXY

LB14

2020-009

250 m

bot 7

80

OXY

LB14

2020-009

200 m

bot 8

81

OXY

LB14

2020-009

175 m

bot 9

82

OXY

LB14

2020-009

150 m

bot 10

83

OXY

LB14

2020-009

125 m

bot 11

84

OXY

LB14

2020-009

100 m

bot 12

85

OXY

LB14

2020-009

75 m

bot 13

86A

OXY

LB14

2020-009

50 m

bot 14

86B

OXY

LB14

2020-009

50 m

bot 14

2020-009

30 m

bot 15

88

OXY

LB14

2020-009

20 m

bot 16

89

OXY

LB14

2020-009

10 m

bot 17

90

OXY

LB14

2020-009

5 m

bot 18

First test the tap vent (A) by opening the lower vent.

opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

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Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-009						1		99	3050	7.7	0.671		1						
Event:	39/40						2		100	3091	7.9	0.354		2						
Station:	LC11						3		101	1407	8.1	0.234		3						
Event Date (Local):	Aug 26, 2020						4		102	3047	8.4	0.234		4						
Analysis Date (Local):	26 Aug 2020						5		103A	3194	8.8	0.804	→	5	103B	3114	8.9	0.804		
Analyst:	KS						6		104	621	8.9	1.297		6						
Stdization Date (Local):	25 Aug 2020						7		105	620	9.2	2.148		7						
KIO ₃ N:	0.0120864						8		106	3106	10.0	3.021		8						
Standard Titer:	0.48859						9		107	3096	10.1	3.230		9						
Blank Titer:	0.00050						10		108A	3089	10.0	3.966	→ Runaway, late EP. OT ✓	10	108B	3066	10.0	3.960		
THIO N:	0.24756						11		109	3146	10.3	4.379		11						
Sample Flask Water Seal?	(Yes) No						12		110	3110			Not closed	12						
Reagent Change?	MnCl ₂						13		111	3147	10.5	5.141		13						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						14		112	3065	10.7	6.298		14						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						15		113	3093	12.7	6.243		15						
	KIO ₃						16		114	745	16.0	6.230		16						
	THIO						17		115	435	18.6	5.757		17						
							18		116	3084	18.6	5.769		18						
							19		117	3209	18.7	5.748		19						

99	100	101	102	103A	103B	104	105	106	107	108A	108B	109	111	112	113	114
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11	LC11
2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009
Bot-10 m	1250 m	1000 m	750 m	500 m	500 m	400 m	300 m	250 m	200 m	175 m	175 m	150 m	100 m	75 m	50 m	30 m
bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10	bot 11	bot 13	bot 14	bot 15	bot 16

115	116	117
OXY	OXY	OXY
LC11	LC11	LC11
2020-009	2020-009	2020-009
20 m	10 m	5 m
bot 17	bot 18	bot 19

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2020-009	1		118	3134	8.6	0.480								1					
Event: 42	2		119	1059	8.7	0.791								2					
Station: LC09	3		120	1054	8.9	1.073								3					
Event Date (Local): Aug 26, 2020	4		121	3021	9.2	1.810								4					
Analysis Date (Local): 26 Aug 2020	5		122	3104	9.5	2.331								5					
Analyst: KS	6		123A	3150	10.0	2.813	→ 3170 NOT LABELLED							6	123B	639	10.1	2.812	
Stdization Date (Local): 25 Aug 2020	7		124	3056	10.2	3.035								7					
KIO ₃ N: 0.0120864	8		125	3034	10.4	3.070								8					
Standard Titer: 0.48859	9		126	2084	10.3	3.497								9					
Blank Titer: 0.00050	10		127	1002	10.3	4.145								10					
THIO N: 0.24756	11		128	3035	10.3	5.807								11					
Sample Flask Water Seal? ☒ Yes ☐ No	12		129A	647	11.3	6.441	→							12	129B	3061	11.1	6.439	
Reagent Change? ☒ MnCl ₂ ☒ NaI/NaOH ☒ H ₂ SO ₄ ☒ KIO ₃ ☒ THIO	13		130	2063	13.7	6.186								13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	14		131	3078	17.4	6.094								14					
	15		132	631	18.7	5.786								15					
	16		133	3125	18.9	5.785								16					

Notes:	118	119	120	121	122	123A	123B	124	125	126	127	128	129A
Octo	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09	LC09
	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009
	Bot-10 m	500 m	400 m	300 m	250 m	200 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m
	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12
	129B	130	131	132	133								
	OXY	OXY	OXY	OXY	OXY								
	LC09	LC09	LC09	LC09	LC09								
	2020-009	2020-009	2020-009	2020-009	2020-009								
	50 m	30 m	20 m	10 m	5 m								
	bot 12	bot 13	bot 14	bot 15	bot 16								

Bottle integrity: First test the top vent (V)

rk 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2020-009	1		135	2089	9.2	1.988		1										
Event:	47	2		136	371	9.3	1.990		2										
Station:	LC08	3		137	3009	9.6	2.397		3										
Event Date (Local):	26 AUG 2020	4		138	3100	10.1	3.471		4										
Analysis Date (Local):	26 Aug 2020	5		139	2043	10.3	4.011		5										
Analyst:	KS	6		140	2019	10.0	5.665		6										
Stdization Date (Local):	25 Aug 2020	7		141	2027	10.5	6.441		7										
KIO ₃ N:	0.0120864	8		142A	3000	12.1	6.472	→	8	142B	3032	12.0	6.469						
Standard Titer:	0.48859	9		143	2047	13.7	6.659		9										
Blank Titer:	0.00050	10		144	3072	18.1	5.976		10										
THIO N:	0.24756	11		145	3030	18.4	5.986		11										
Sample Flask Water Seal?	☒ Yes ☐ No	12							12										
Reagent Change?	MnCl ₂	13		135					13										
(Please circle reagent that was changed prior to sampling and standardization)	Na ₂ /NaOH	14		OXY					14										
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		LC08					15										
	KIO ₃	16		2020-009					16										
	THIO	17		Bot-10 m					17										
		18		bot 1					18										
Notes:		19							19										
		20							20										
		21							21										
		22							22										
		23							23										
		24							24										

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Bender



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2020-009	1		146A	505	9.8	3.007	=>		1	148B	3049	9.9	2.999					
Event:	50	2		147	3057	9.9	3.421			2									
Station:	LC06	3		148	1429	10.5	3.477			3									
Event Date (Local):	26 Aug 2020	4		149	930	11.5	3.139			4									
Analysis Date (Local):	26 Aug 2020	5		150	1409	12.1	3.394	SLIGHT DRIP		5									
Analyst:	KS	6		151	2032	13.7	5.050	slight runaway, late EP. OT		6									
Stdization Date (Local):	25 Aug 2020	7		152	3127	17.3	7.346			7									
KIO ₃ N:	0.0120864	8								8									
Standard Titer:	0.48859	9		146A	146B	147	148	149	150	151	152								
Blank Titer:	0.00050	10		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY								
THIO N:	0.24756	11		LC06	LC06	LC06	LC06	LC06	LC06	LC06	LC06								
Sample Flask Water Seal?	Yes	12		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009								
	No	13		Bot-10 m	Bot-10 m	75 m	50 m	30 m	20 m	10 m	5 m								
Reagent Change?	MnCl ₂	14		bot 1	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7								
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15																	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16																	
	KIO ₃	17																	
	THIO	18																	
Notes:		19																	
		20																	
		21																	
		22																	
		23																	
		24																	

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Sea Turtle



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2020-009	1		153	3050	9.9	1.719	← must recalculate. incorrect flask ID (1223) under event 57											
Event:	54	2		154	3091	9.9	1.808												
Station:	LC04	3		155	1407	10.0	1.888												
Event Date (Local):	26 August 2020	4		156	3047	10.1	2.004												
Analysis Date (Local):	26 August 2020	5		157	3194	10.3	2.788												
Analyst:	KS	6		158	3114	10.9	2.911												
Stdization Date (Local):	25 August 2020	7		159	621	12.3	4.054												
KIO ₃ N:	0.0120864	8		160	620	12.9	4.986												
Standard Titer:	0.48859	9		161	3106	13.6	6.226												
Blank Titer:	0.00050	10		162A	3096	15.4	9.118	⇒ wow!											
THIO N:	0.24756	11																	
Sample Flask Water Seal?	☒ Yes ☐ No	12		153	154	155	156	157	158	159	160	161	162A	162B					
		13		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY					
		14		LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04	LC04					
Reagent Change?	MnCl ₂	15		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	16		Bot-10 m	150 m	125 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m	5 m					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	17		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10					
	KIO ₃	18																	
	THIO	19																	
Notes:		20																	
		21																	
		22																	
		23																	
		24																	

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-009	1		163	3146	10.2	2.285							1						
Event:	S6	2		164	3147	10.5	2.974	-Incorrect Flask ID used. Grrrr.												
Station:	LC02	3		165	3110	11.4	3.265	Must recalculate.												
Event Date (Local):	26 August 2020	4		166	3065	12.8	3.925	UNKNOWN LEAK												
Analysis Date (Local):	26 August 2020	5		167A	3093	13.5	5.031	=>												
Analyst:	KS	6		168	435	14.9	7.390							6						
Stdization Date (Local):	25 August 2020	7		169	3084	16.7	7.735							7						
KIO ₃ N:	0.0120864	8												8						
Standard Titer:	0.48859	9		163	164	165	166	167A	167B	168	169									
Blank Titer:	0.00050	10		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY									
THIO N:	0.24756	11		LC02	LC02	LC02	LC02	LC02	LC02	LC02	LC02									
Sample Flask Water Seal?	Yes	12		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009									
	No	13		Bot-10 m	75 m	50 m	30 m	20 m	20 m	10 m	5 m									
Reagent Change?	MnCl ₂	14		bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7									
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15												15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16												16						
	KIO ₃	17												17						
	THIO	18												18						
Notes:		19												19						
		20												20						
		21												21						
		22												22						
		23												23						
		24												24						

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2020-009	1		171	1223	10.4	2.471								1					
Event: 57	2		172	3023	10.5	2.522								2					
Station: LC01	3		173	3199	11.2	2.982								3					
Event Date (Local): 26 August 2020	4		174	3062	12.7	4.417								4					
Analysis Date (Local): 26 August 2020	5		175	3018	13.7	5.469								5					
Analyst: KS	6		176A	3117	16.0	6.390	⇒							6	176B	3161	16.0	6.390	
Stdization Date (Local): 25 August 2020	7		177	3132	16.5	6.301								7					
KIO ₃ N: 0.0120864	8													8					
Standard Titer: 0.48859	9													9					
Blank Titer: 0.00050	10													10					
THIO N: 0.24756	11													11					
Sample Flask Water Seal? ☒ Yes	12													12					
	13													13					
Reagent Change? MnCl ₂	14													14					
(Please circle reagent that was changed prior to sampling and standardization)	15																		
NOTE NEW BATCH IN LOG BOOK	16		171	172	173	174	175	176A	176B	177									
	17		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY									
	18		LC01	LC01	LC01	LC01	LC01	LC01	LC01	LC01									
	19		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009									
	20		Bot-10 m	75 m	50 m	30 m	20 m	10 m	10 m	5 m									
	21		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7									
	22													22					
	23													23					
	24													24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Bender



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-009	1		178	2089	12.5	3.567							1						
Event:	S9	2		179	371	-99	-99	210	NO FERR					2						
Station:	LD01	3		180A	3009	14.2	5.812	→						3	180B	3100	14.1	5.818		
Event Date (Local):	26 AUG 2020	4		181	2043	15.7	7.895							4						
Analysis Date (Local):	27 August 2020	5												5						
Analyst:	KS	6												6						
Stdization Date (Local):	27 August 2020	7												7						
KIO ₃ N:	0.0120864	8												8						
Standard Titer:	0.48841	9												9						
Blank Titer:	0.00044	10		178	180A	180B	181							10						
THIO N:	0.24756	11		OXY	OXY	OXY	OXY							11						
Sample Flask	(Yes)	12		LD01	LD01	LD01	LD01							12						
Water Seal?	No	13		2020-009	2020-009	2020-009	2020-009							13						
Reagent Change?	MnCl ₂ 2001	14		bot 1	bot 3	bot 3	bot 4							14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15												15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16												16						
	KIO ₃	17												17						
	THIO	18												18						
Notes:		19												19						
		20												20						
		21												21						
		22												22						
		23												23						
		24												24						

179
OXY
LD01
2020-009
20 m
bot 2

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

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Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-009						1		182	2027	12.8	4.151		1						
Event:	61						2		183	3000	-99	-99	DID NOT FILL	2						
Station:	LD02						3		184	3632	13.8	5.339		3						
Event Date (Local):	26 Aug 2020						4		185A	2047	14.1	5.492	→	4	185B	3072	13.9	5.492		
Analysis Date (Local):	27 Aug 2020						5		186	3030	16.3	7.765		5						
Analyst:	KLS						6							6						
Stdization Date (Local):	27 Aug 2020						7							7						
KIO ₃ N:	0.0120864						8		182	184	185A	185B	186	8						
Standard Titer:	0.48841						9		OXY	OXY	OXY	OXY	OXY	9						
Blank Titer:	0.00044						10		LD02	LD02	LD02	LD02	LD02	10						
THIO N:	0.24756						11		2020-009	2020-009	2020-009	2020-009	2020-009	11						
Sample Flask Water Seal?	Yes						12		Bot-10 m	20 m	10 m	10 m	5 m	12						
	No						13		bot 1	bot 3	bot 4	bot 4	bot 5	13						
Reagent Change?	MnCl ₂						14							14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15							15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16							16						
	KIO ₃						17							17						
	THIO						18							18						
Notes:							19							19						
							20							20						
							21							21						
							22							22						
							23							23						
							24							24						

183
OXY
LD02
2020-009
30 m
bot 2

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-009						1	✓✓	187	505	10.7	2.696		1						
Event:	65						2	✓✓	188A	3049	11.9	3.553	→	2	188B	3057	11.9	3.560		
Station:	LD04						3	✓✓	189	1429	13.7	5.362		3						
Event Date (Local):	Aug 27, 2020						4	✓✓	190	930	14.3	6.390		4						
Analysis Date (Local):	27 Aug 2020						5	✓✓	191	1409	15	7.427		5						
Analyst:	KS						6							6						
Stdization Date (Local):	27 Aug 2020						7							7						
KIO ₃ N:	0.0120864						8		187		188A		188B		189		190		191	
Standard Titer:	0.48841						9		OXY		OXY		OXY		OXY		OXY		OXY	
Blank Titer:	0.00044						10		LD04		LD04		LD04		LD04		LD04		LD04	
THIO N:	0.24756						11		2020-009		2020-009		2020-009		2020-009		2020-009		2020-009	
Sample Flask Water Seal?	(Yes) No						12		Bot-10 m		30 m		30 m		20 m		10 m		5 m	
							13		bot 1		bot 2		bot 2		bot 3		bot 4		bot 5	
Reagent Change?	MnCl ₂						14													
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15													
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16													
	KIO ₃						17													
	THIO						18													
Notes:							19													
	Bender						20													
							21													
							22													
							23													
							24													

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID		Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID		Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2020 009						1	✓	✓	192	3127	9.9	2.477			1					
Event:	67						2	✓	✓	193	3145	10.0	3.588			2					
Station:	LD06						3	✓	✓	194A	2092	10.0	4.147	→		3	194B	3074	10.1	4.144	
Event Date (Local):	27.08.20						4	✓	✓	195	471	10.3	4.784			4					
Analysis Date (Local):	27 Aug 2020						5	✓	✓	196	3046	12.5	4.783			5					
Analyst:	KS						6	✓	✓	197	3073	16.1	5.987			6					
Stdization Date (Local):	27 Aug 2020						7	✓	✓	198	1055	16.7	6.182			7					
KIO ₃ N:	0.0120864						8	✓	✓	199	2068	16.7	6.183			8					
Standard Titer:	0.48841						9									9					
Blank Titer:	0.00044						10			192						10					
THIO N:	0.24756						11			OXY						11					
Sample Flask Water Seal?	(Yes) No						12			LD06						12					
Reagent Change?	MnCl ₂						13			2020-009						13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						14			Bot-10 m						14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						15			bot 1						15					
	KIO ₃						16									16					
	THIO						17									17					
Notes:							18									18					
							19									19					
							20									20					
							21									21					
							22									22					
							23									23					
							24									24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

TURTLE



Last Updated: July 2018

Cruise and Analysis Information							OXY-1 Comments					OXY-2 Comments				
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)		Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)					
1	✓	200	3050	8.4	0.276		1									
2		201	3091	-99	-99	Bottle 2 did not fire.	2									
3	✓	202	1467	9.1	0.917		3									
4	✓	203A	3047	9.2	1.199	→	4	203B	3194	9.3	1.197					
5	✓	204	3114	9.2	1.756		5									
6	✓	205	621	9.5	2.011		6									
7	✓	206	620	9.7	2.423		7									
8	✓	207	3106	10.1	2.870		8									
9	✓	208	3096	10.3	2.987		9									
10	✓	209	3099	10.4	3.425		10									
11	✓	210A	3066	10.2	4.177	→	11	210B	3146	10.3	4.171					
12	✓	211	3110	10.0	5.935		12									
13	✓	212	3147	11.2	6.402		13									
14	✓	213	3065	13.1	6.495		14									
15	✓	214	3093	17.3	6.120		15									
16	✓	215	745	18.3	5.861	Runaway. Late EP. OT	16									
17	✓	216	435	18.4	5.851		17									
18							18									

	200	202	203A	203B	204	205	206	207	208	209	210A	210B	211	212	213	214
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08	LD08
	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009
	Bot-10 m	500 m	400 m	400 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	100 m	75 m	50 m	30 m	20 m
	bot 1	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 11	bot 12	bot 13	bot 14	bot 15

ity: First test the ton vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

215
OXY
LD08
2020-009
10 m
bot 16
216
OXY
LD08
2020-009
5 m
bot 17

Dissolved Oxygen Analysis Log Sheet

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Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2020-009						1		218	3134	7.4	0.771		1					
Event:	77						2							2					
Station:	LD11						3		219A	1054	7.5	0.413	→	3	219B	3021	7.6	0.414	
Event Date (Local):	27 Aug 20						4		220	3104	7.8	0.243	Very rounded curve. ✓ No	4					
Analysis Date (Local):	27 Aug 2020						5		221	3170	8.2	0.259	clear inflection. OT ✓	5					
Analyst:	KS						6		222	3150	8.5	0.701		6					
Stdization Date (Local):	27 Aug 2020						7		223	639	8.7	1.148		7					
KIO ₃ N:	0.0120864						8		224	3056	9.1	1.882		8					
Standard Titer:	0.48841						9		225A	3034	9.5	2.454	→	9	225B	2084	9.5	2.452	
Blank Titer:	0.00044						10		226	1002	9.9	3.096		10					
THIO N:	0.24756						11		227	3085	10.0	3.458		11					
Sample Flask Water Seal?	Yes No						12		228	647	9.9	3.702		12					
Reagent Change?	MnCl ₂ NaI/NaOH H ₂ SO ₄ KIO ₃ THIO						13		229	3061	9.9	4.659		13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK							14		230	2063	10.4	5.695	14 LOOSE VENT	14					
							15		231	3028	11.4	6.480		15					
							16		232	651	13.1	6.729		16					
							17		233A	3125	17.3	6.402	→	17	233B	657	17.2	6.400	
							18							18					
Notes:							19		235	1312	19.0	5.737	Another oddly rounded curve. ✓	19					
							20		236	462	19.3	5.745	Ambiguous EP. OT	20					
							21							21					
							22							22					
							23		218	2097	-99	-99	FORGET TO FREE	23					
							24		234	2095	18.9	5.766	This is the 20m sample	24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the

218/
OXY
LD11
2020-009
1500 m
bot 23

um if either fails the integrity check and explain this in the comments column.

[illegible]

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2020-009	1	✓✓	242	3134	8.1	0.238								1					
Event: 85	2													2					
Station: LG06	3	✓✓	243	1059	8.5	0.293								3					
Event Date (Local): Aug 28, 2020	4	✓✓	244A	1054	8.9	0.607	→							4	244B	3021	8.8	0.601	
Analysis Date (Local): 28 Aug 2020	5	✓✓	245	3104	8.9	1.022								5					
Analyst: KS	6	✓✓	246	3170	8.9	1.562								6					
Stdization Date (Local): 28 Aug 2020	7	✓✓	247	3150	9.4	1.981								7					
KIO ₃ N: 0.0120864	8	✓✓	248	639	9.7	2.505								8					
Standard Titer: 0.48861	9	✓✓	249	3056	9.9	2.718								9					
Blank Titer: 0.00046	10	✓✓	250	3034	10.1	2.855								10					
THIO N: 0.0120864	11													11					
Sample Flask Water Seal? ☒ Yes ☐ No	12	✓✓	251	2084	10.3	2.988								12					
	13	✓✓	252	1002	10.4	3.052								13					
Reagent Change? ☒ MnCl ₂ ☒ NaI/NaOH 1902	14	✓✓	253	3035	10.1	3.489								14					
(Please circle reagent that was changed prior to sampling and standardization)	15	✓✓	254	647	10.8	3.835								15					
NOTE NEW BATCH IN LOG BOOK	16	✓✓	255	3061	11.8	4.794								16					
	17	✓✓	256A	2063	13.2	4.586	→							17	256B	3028	13.2	4.593	
	18	✓✓	257	631	17	6.517								18					
Notes: octo New NaI/NaOH Batch #1902	19	✓✓	258	3125	17.7	7.316								19					
	20													20					
	21													21					
	22													22					
	23													23					
	24													24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Event 85

[illegible]

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2080009						1		259	638	9.85	1.681		1						
Event:	88						2	3	260	1312	9.5	1.664		2						
Station:	LG04						3	4	261	462	10.1	2.873		3						
Event Date (Local):	28.08.20						4	5	262A	8097	10.3	3.309	→	4	262B	2095	10.3	3.307		
Analysis Date (Local):	28 August 2020						5	6	263	3042	10.4	3.426		5						
Analyst:	KS						6	7	264	673	11.1	2.601		6						
Stdization Date (Local):	28 August 2020						7	8	265	1050	11.7	2.636		7						
KIO ₃ N:	0.0120864						8	9	266	547	12.6	2.844		8						
Standard Titer:	0.48861						9	10	267	3200	17.5	7.221		9						
Blank Titer:	0.00046						10							10						
THIO N:	0.24744						11													
Sample Flask Water Seal?	Yes						12		259	260	261	262B	262A	263	264	265	266	267		
	No						13		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
							14		LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04	LG04		
Reagent Change?	MnO ₂						15		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009		
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						16		Bot-10 m	125 m	100 m	75 m	75 m	50 m	30 m	20 m	10 m	5 m		
	H ₂ SO ₄						17		bot 1	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10		
NOTE NEW BATCH IN LOG BOOK	KIO ₃						18													
	THIO						19													
Notes:	occupy						20													
							21													
							22													
							23													
							24													

Analyzed in reverse order.

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Bender



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020009						1	✓	268	2089	9.8	1.480		1						
Event:	92						3	✓	269A	371	10.0	2.756	→	2	269B	3009	10.0	2.757		
Station:	LG02						4	✓	270	3100	10.7	3.218		3						
Event Date (Local):	28 Aug 20						5	✓	271	2043	12.0	3.585		4						
Analysis Date (Local):	28 August 2020						6	✓	272	2019	12.7	4.607		5						
Analyst:	KS						7	✓	273	2027	15.0	5.635		6						
Stdization Date (Local):	28 August 2020						8	✓	274	930	16.3	7.293		7						
KIO ₃ N:	0.0120864						8							8						
Standard Titer:	0.48861						9							9						
Blank Titer:	0.00046						10													
THIO N:	0.0120864						11													
Sample Flask Water Seal?	Yes						12													
Reagent Change?	MnCl ₂						13													
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						14													
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						15													
	KIO ₃						16													
	THIO						17													
Notes:							18													
							19													
							20													
							21													
							22													
							23													
							24													

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2020-009	1	✓✓	277	2041	11.9	3.209								1					
Event: 93	2													2					
Station: LG01	3	✓✓	278A	3072	12.2	3.339								3	278B	3030	12.0	3.337	
Event Date (Local): Aug 28, 2020	4	✓✓	279	3109	12.8	3.636								4					
Analysis Date (Local): 28 Aug 2020	5	✓✓	280	505	14.3	4.626								5					
Analyst: KS	6	✓✓	281	3049	16.6	6.400								6					
Stdization Date (Local): 28 Aug 2020	7													7					
KIO ₃ N: 0.0120864	8		277	278A	278B	279	280	281						8					
Standard Titer: 0.48861	9		OXY	OXY	OXY	OXY	OXY	OXY						9					
Blank Titer: 0.00046	10		LG01	LG01	LG01	LG01	LG01	LG01						10					
THIO N: 0.24744	11		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009						11					
Sample Flask Water Seal? Yes	12		Bot-10 m	30 m	30 m	20 m	10 m	5 m						12					
	13		bot 1	bot 3	bot 3	bot 4	bot 5	bot 6						13					
Reagent Change? MnCl ₂	14													14					
(Please circle reagent that was changed prior to sampling and standardization)	15													15					
NOTE NEW BATCH IN LOG BOOK	16													16					
	17													17					
	18													18					
Notes: BENDER	19													19					
	20													20					
	21													21					
	22													22					
	23													23					
	24													24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number: 2020-009	1	✓	✓	293	3134	6.9	1.373							1						
Event: IIS	2													2						
Station: LBPT	3	✓	✓	294	1059	7.1	0.637							3						
Event Date (Local): 29.08.20	4	✓	✓	295	1054	7.3	0.369							4						
Analysis Date (Local): 29 August 2020	5	✓	✓	296	3021	7.7	0.244							5						
Analyst: KS	6	✓	✓	297A	3104	7.9	0.277	→						6	297B	3170	8.0	0.270		
Stdization Date (Local): 29 August 2020	7	✓	✓	298	3150	8.2	0.682							7						
KIO ₃ N: 0.0117868	8	✓	✓	299	639	8.3	1.111							8						
Standard Titer: 0.453 0.47648	9	✓	✓	300	3056	8.7	1.798							9						
Blank Titer: 0.00058	10	✓	✓	301	3034	9.0	2.040							10						
THIO N: 0.24761	11			302										11						
Sample Flask Water Seal? ☒ Yes	12	✓	✓	302	2084	9.3	2.378							12						
	13	✓	✓	303	1002	9.4	2.549							13						
Reagent Change? ☒ NaCl ₂	14	✓	✓	304	3035	9.5	2.833							14						
(Please circle reagent that was changed prior to sampling and standardization)	15	✓	✓	305	647	9.7	3.229							15						
	16	✓	✓	306	3061	9.7	3.378							16						
NOTE NEW BATCH IN LOG BOOK	17	✓	✓	307A	2063	9.8	3.587	→						17	307B	3026	9.8	3.586		
	18	✓	✓	308	6316	10.2	3.621	- EP late OT ✓						18						
Notes:	19	✓	✓	309	8125	11.8	3.942							19						
	20	✓	✓	310	657	15.1	5.300							20						
	21	✓	✓	311	638	17.7	6.209							21						
	22	✓	✓	312	1312	17.9	6.728							22						
	23													23						
	24													24						

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Event 115

[illegible]

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Bender's
mouth



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-009								313	2089	6.9	0.468								
Event:	117								314	371	7.1	0.413								
Station:	LBP5								315A	3009	7.2	0.324	→							
Event Date (Local):	29 Aug 2020								316	2043	7.7	0.343								
Analysis Date (Local):	29 Aug 2020								317	2019	8.1	0.887								
Analyst:	KS								318	3000	8.3	1.230								
Stdization Date (Local):	29 Aug 2020								319	2027	8.5	1.599								
KIO ₃ N:	0.0117868								320	3032	8.8	1.861								
Standard Titer:	0.47648								321	2047	8.9	1.939								
Blank Titer:	0.00058								322	3072	9.1	2.283								
THIO N:	0.24761								323	3030	9.3	2.648								
Sample Flask Water Seal?	Yes								324	3109	9.3	2.227	Loose vent							
	No								325A	505	9.5	3.122	→							
Reagent Change?	MnCl ₂								326	3057	9.7	4.146								
(Please circle reagent that was changed prior to sampling and standardization)	H ₂ O ₂								327	1429	10.3	4.728								
NOTE NEW BATCH IN LOG BOOK	THIO								328	936	11.3	4.628								
									329	1409	13.7	4.964								
									330	2032	16.6	6.045								
									331	3127	16.9	6.055								

poor duplicate
Runaway @ end causing late E.P. OTV

313	314	315A	315B	316	317	318	319	320	321	322	323	324	325A	325B	326	327
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5	LBP5
2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009
Bot-10 m	1250 m	1000 m	1000 m	750 m	500 m	400 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	100 m	75 m	50 m
bot 1	bot 2	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 12	bot 13	bot 14	bot 15	bot 15	bot 16	bot 17

329	328	330	331
OXY	OXY	OXY	OXY
LBP5	LBP5	LBP5	LBP5
2020-009	2020-009	2020-009	2020-009
20 m	30 m	10 m	5 m
bot 19	bot 18	bot 20	bot 21

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-009						1		332	3050	9.2	2.068		1						
Event:	120						2							2						
Station:	LBP3						3		333	3091	9.2	2.011		3						
Event Date (Local):	29 Aug 2020						4		334	1407	9.3	2.067	store slip @ end. late EP. OT ✓	4						
Analysis Date (Local):	29 Aug 2020						5		335	3047	9.5	2.577		5						
Analyst:	KS						6		336	3194	9.7	3.490		6						
Stdization Date (Local):	29 Aug 2020						7		337	3114	9.9	4.762		7						
KIO ₃ N:	0.0117868						8		338	621	10.3	5.520		8						
Standard Titer:	0.47648						9		339	620	11.5	5.346		9						
Blank Titer:	0.00058						10		340A	3106	15.1	5.634	→	10	340B	3096	15.1	5.635		
THIO N:	0.24761						11							11						
Sample Flask Water Seal?	Yes						12		341	3089	15.8	5.873		12						
	No						13							13						
Reagent Change?	MnCl ₂						14		332	333	334	335	336	337	338	339	340A	340B	341	
(Please circle reagent that was changed prior to sampling and standardization)	Na ₂ /NaOH						15		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
	H ₂ SO ₄						16		LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	
NOTE NEW BATCH IN LOG BOOK	KIO ₃						17		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	
	THIO						18		Bot-10 m	150 m	125 m	100 m	75 m	50 m	30 m	20 m	10 m	10 m	5 m	
							19		bot 1	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10	bot 12	
Notes:							20													
							21													
							22													
							23													
							24													

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Sea Turtle



Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2020009	1		343A	3050	7.0	1.350	→	1	343B	3091	7.1	1.351						
Event:	133	2		344					2										
Station:	CS00	3		344	1407	7.1	0.612		3										
Event Date (Local):	30.08.20	4		345	3041	7.3	0.379		4										
Analysis Date (Local):	30 Aug 2020	5		346	3194	7.7	0.240		5										
Analyst:	KS	6		347	3114	7.9	0.263		6										
Stdization Date (Local):	30 Aug 2020	7		348	621	8.3	0.858		7										
KIO ₃ N:	0.01187868	8		349	620	8.5	1.336		8										
Standard Titer:	0.47668	9		350	3106	8.8	1.845	large O2 volt drop 2.20	9										
Blank Titer:	0.00046	10		351A	3096	9.0	2.262	→ large O2 volt drop 2.08	10	351B	3089	9.1	2.289						
THIO N:	0.24756	11							11										
Sample Flask Water Seal?	yes	12		352	3066	9.3	2.760		12										
	No	13		353	3146	9.4	3.179		13										
Reagent Change?	NaCl ₂	14		354	3110	9.7	3.438		14										
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		355	3147	9.9	3.748		15										
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄ #1901	16		356	3065	10.0	3.917		16										
	KIO ₃	17		357	3093	10.6	4.535		17										
	THIO	18		358	745	11.9	5.552		18										
Notes:		19		359	435	16.7	5.618		19										
		20		360A	3084	18.4	5.768	→	20	360B	3209	18.4	5.767						
		21		361	1223	18.6	5.769		21										
		22		362	3023	18.8	5.774		22										
		23							23										
		24							24										

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Octopus



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-009						1		363	3134	6.9	1.183		1						
Event:	137						2							2						
Station:	CS02						3		364	1059	7.1	0.608		3						
Event Date (Local):	30-Aug-2020						4		365	1054	7.3	0.367		4						
Analysis Date (Local):	30 Aug 2020						5		366	3021	7.7	0.264		5						
Analyst:	KS						6		367	3104	7.9	0.284		6						
Stdization Date (Local):	30 Aug 2020						7		368	3170	8.2	0.845		7						
KIO ₃ N:	0.0117868						8		369	3150	8.4	1.392	→	8	3698	639	8.5	1.390		
Standard Titer:	0.47668						9		370	3056	8.8	2.133		9						
Blank Titer:	0.00046						10		371	3034	9.1	2.690		10						
THIO N:	0.24756						11							11						
Sample Flask Water Seal?	Yes						12		372	2084	9.4	3.319		12						
	No						13		373	1002	9.5	3.672	Messy curve. Ambiguous EP. OT✓	13						
Reagent Change?	MnSO ₄						14		374A	3035	9.6	3.554	→	14	374B	647	9.7	3.548		
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		375	3061	9.7	4.036		15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16		376	2063	9.9	4.351		16						
	KIO ₃						17		377	3028	10.4	4.820		17						
	THIO						18		378	631	11.3	5.193		18						
Notes:							19		379	3125	14.1	5.191		19						
							20		380	657	17.3	5.650		20						
							21		381	638	18.4	5.812	Blip in curve near EP caused it to be late. OT✓	21						
							22		382	1312	18.7	5.815		22						
							23							23						
							24							24						

Octopus

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

[illegible]

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID		Nisk Int	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID		Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2020-009	1	✓	383	2089	10.7	4.525			1						2	384B	3009	10.6	6.807	
Event:	144	2	✓	384A	371	10.7	6.286	⇒													
Station:	CS04	3	✓	385	3100	12.5	5.228			3											
Event Date (Local):	31 Aug 2020	4	✓	386	2043	15.4	5.984			4											
Analysis Date (Local):	31 Aug 2020	5	✓	387	2019	18.4	5.820			5											
Analyst:		6	✓	388	3000	18.6	5.754			6											
Stdization Date (Local):	30 Aug 2020	7	✓	389	2027	18.6	5.763			7											
KIO ₃ N:	0.0117868	8								8											
Standard Titer:	0.47668	9								9											
Blank Titer:	0.00046	10								10											
THIO N:	0.24756	11								11											
Sample Flask Water Seal?	Yes	12								12											
	No	13								13											
Reagent Change?	MnCl ₂	14								14											
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15								15											
	H ₂ SO ₄	16								16											
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17								17											
	THIO	18								18											
Notes:		19		383	384A	384B	385	386	387	388	389										
		20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY										
		21		CS04	CS04	CS04	CS04	CS04	CS04	CS04	CS04										
		22		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009										
		23		Bot-10 m	75 m	75 m	50 m	30 m	20 m	10 m	5 m										
		24		bot 1	bot 2	bot 2	bot 4	bot 5	bot 5	bot 7	bot 7										

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Sea Turtle



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2020-009	1		390	3050	11.5	3.460								1					
Event: 157 156	2													2					
Station: CS06	3		391	3091	11.6	3.577								3					
Event Date (Local): 31-AUG-2020	4		392	307	13.5	4.577								4					
Analysis Date (Local): 03 Sept. 2020	5		393	3047	15.5	5.490								5					
Analyst: KS	6		394A	3194	17.5	6.150								6	394B	621	17.5	6.157	
Stdization Date (Local): 03 Sept. 2020	7		395	3114	17.6	6.464								7					
KIO ₃ N: 0.0117868	8													8					
Standard Titer: 0.47269	9		390	391	392	393	394A	394B	395					9					
Blank Titer: 0.00046	10		OXY	OXY	OXY	OXY	OXY	OXY	OXY					10					
THIO N: 0.24952	11		CS06	CS06	CS06	CS06	CS06	CS06	CS06					11					
Sample Flask Water Seal? ☒ Yes	12		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009					12					
	13		Bot-10 m	50 m	30 m	20 m	10 m	10 m	5 m					13					
	14		bot 1	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7					14					
Reagent Change? ☒ MnCl ₂	15													15					
(Please circle reagent that was changed prior to sampling and standardization)	16													16					
	17													17					
NOTE NEW BATCH IN LOG BOOK	18													18					
	19													19					
	20													20					
	21													21					
	22													22					
	23													23					
	24													24					

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Sea Turtle



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-009							1	396	3106	9.1	2.057			1					
Event:	160							3	397	3096	9.1	2.068			2					
Station:	CS09							4	398A	3089	9.1	2.055	⇒		3	398B	3066	9.2	2.058	
Event Date (Local):	31 Aug 2020							5	399	3146	9.5	2.311			4					
Analysis Date (Local):	03 Sep. 2020							6	400	3110	9.7	2.244			5					
Analyst:	KS							7	401	3147	10.6	3.357			6					
Stdization Date (Local):	03 Sep. 2020							8	402	3065	11.5	3.660			7					
KIO ₃ N:	0.0017868							9	403	3093	12.4	4.192			8					
Standard Titer:	0.47269							10	404	745	13.5	4.693			9					
Blank Titer:	0.00046							12	405	435	14.5	5.235			10					
THIO N:	0.24952							13	406	3084	15.9	6.787			11					
Sample Flask Water Seal?	Yes							12												
	No							13	396	397	398A	398B	399	400	401	402	403	404	405	406
Reagent Change?	MnCl ₂							14	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH							15	CS09	CS09	CS09	CS09	CS09	CS09	CS09	CS09	CS09	CS09	CS09	CS09
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄							16	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009
	KIO ₃							17	Bot-10 m	175 m	150 m	150 m	125 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m
	THIO							18	bot 1	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 12	bot 13
Notes:								19												
								20												
								21												
								22												
								23												
								24												

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020009						1	✓	413	1223	9.2	2.108		1						
Event:	170						2	✓	414	3023	9.1	2.330		2						
Station:	SS4						3	✓	415A	3199	9.3	2.260	→	3	415B	3062	9.3	2.261		
Event Date (Local):	01.09.20						4	✓	416	3018	9.6	2.573		4						
Analysis Date (Local):	03 Sept. 2020						5	✓	417	3117	10.1	3.281		5						
Analyst:	KS						6	✓	418	3161	12.3	4.619		6						
Stdization Date (Local):	03 Sept. 2020						7	✓	419	3132	15.9	5.638		7						
KIO ₃ N:	0.0117868						8	✓	420	3053	16.7	5.991		8						
Standard Titer:	0.47269						9							9						
Blank Titer:	0.00046						10		413	414	415A	415B	416	417	418	419	420			
THIO N:	0.24952						11		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
Sample Flask Water Seal?	(Yes) No						12		SS4	SS4	SS4	SS4	SS4	SS4	SS4	SS4	SS4			
Reagent Change?	MnCl ₂						13		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009			
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						14		Bot-10 m	200 m	160 m	160 m	120 m	80 m	40 m	20 m	5 m			
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						15		bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8			
	KIO ₃						16													
	THIO						17													
Notes:	TURTLE						18													
							19													
							20													
							21													
							22													
							23													
							24													

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2020-009		1		438	456	9.1	1.663		1					
Event: AI		2		439	2098	9.2	1.618		2					
Station: HAK1		3		440	611	9.7	2.116		3					
Event Date (Local): 2 Sep 2020		4		441	3029	10.7	3.126		4					
Analysis Date (Local): 03 Sep 2020		5		442	2007	11.6	3.762		5					
Analyst: KS		6		443A	3041	12.8	4.305	→	6	443B	3155	12.7	4.307	
Stdization Date (Local): 03 Sep. 2020		7		444	3120	14.4	4.571		7					
KIO ₃ N: 0.0117868		8		445	622	17.3	5.940		8					
Standard Titer: 0.47269		9		446	3044	17.6	6.174		9					
Blank Titer: 0.00046		10							10					
THIO N: 0.24952		11							11					
Sample Flask Water Seal? ☒ Yes ☐ No		12							12					
Reagent Change? MnCl ₂		14		438	439	440	441	442	443A	443B	444	445	446	
(Please circle reagent that was changed prior to sampling and standardization)		15		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
NOTE NEW BATCH IN LOG BOOK		16		HAK1	HAK1	HAK1	HAK1	HAK1	HAK1	HAK1	HAK1	HAK1	HAK1	
		17		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	
		18		Bot-10 m	125 m	100 m	75 m	50 m	40 m	40 m	30 m	10 m	5 m	
		19		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 9	
Notes: NISSY		20												
		21												
		22												
		23												
		24												

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Bender



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2020-009	1		447	2089	11.5	3.296							1					
Event:	197	2		448	371	11.5	3.356							2					
Station:	JS	3		449	3009	11.5	3.385							3					
Event Date (Local):	03 Sept. 2020	4		450	3100	11.6	3.411							4					
Analysis Date (Local):	03 Sept 2020	5		451	2043	11.6	3.439							5					
Analyst:	KS	6		452	2019	11.7	3.457							6					
Stdization Date (Local):	03 Sept 2020	7		453	3000	11.7	3.497							7					
KIO ₃ N:	0.0117868	8		454	2027	11.7	3.505							8					
Standard Titer:	0.47269	9		455A	3032	11.9	3.585	⇒						9	455B	2047	11.8	3.581	
Blank Titer:	0.00046	10		456	3072	12.2	3.670							10					
THIO N:	0.24952	11		457	3030									11					
Sample Flask Water Seal?	☒ Yes No	12		458	3109	12.4	3.849							12					
Reagent Change?	MnCl ₂	13		459	305	12.7	4.097							13					
(Please circle reagent that was changed prior to sampling and standardization)	NaOH	14		460	3049	13.3	4.319							14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15												15					
	KIO ₃	16												16					
	THIO	17												17					
		18												18					
Notes:		19		447	448	449	450	451	452	453	454	455A	455B	456	458				
		20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
		21		JS	JS	JS	JS	JS	JS	JS	JS	JS	JS	JS	JS	JS			
		22		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009			
		23		Bot-10 m	300 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	75 m	50 m	20 m				
		24		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 9	bot 10	bot 12				

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk Int V S		Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk Int V S		Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-009						1		465	2089	11.5	3.066		1							
Event:	204						2		466A	371	11.5	3.132	→	2		466B	3009	11.8	3.135		
Station:	12						3		467	3100	11.4	3.214		3							
Event Date (Local):	04 Sep 2020						4		468	2043	11.3	3.205		4							
Analysis Date (Local):	04 Sep 2020						5		469A	2019	11.4	3.223	→	5		469B	3000	11.4	3.223		
Analyst:	KS						6		470	2027	11.3	3.233		6							
Stdization Date (Local):	08 Sep 2020						7		471	3032	11.4	3.178		7							
KIO ₃ N:	0.0117868						8		472	2047	11.5	3.065		8							
Standard Titer:	0.47269						9		473	3072	11.7	3.198		9							
Blank Titer:	0.00046						10		474	3030	12.0	3.220		10							
THIO N:	0.24952						11							11							
Sample Flask Water Seal?	Yes						12		475	3109	12.3	3.303		12							
	No						13		476	505	12.9	3.729		13							
Reagent Change?	MnCl ₂						14		477	3049	13.2	3.934		14							
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		478	3057	14.3	4.290		15							
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16		479	1429	17.1	5.779	6.826	16							
	KIO ₃						17		480	930	19.2	5.826	16.826	17							
	THIO						18							18							
Notes:	REEEE!						19		465	466A	466B	467	468	469A	469B	470	471	472	473	474	475
	(Bender)						20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
							21		12	12	12	12	12	12	12	12	12	12	12	12	12
							22		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009
							23		Bot-5 m	300 m	300 m	250 m	200 m	175 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m
							24		bot 1	bot 2	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 12
							25		476	477	478	479	480								
							26		OXY	OXY	OXY	OXY	OXY								
							27		12	12	12	12	12								
							28		2020-009	2020-009	2020-009	2020-009	2020-009								
							29		30 m	20 m	10 m	5 m	0 m								

in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2020-009	1		505	3050	12.1	3.053							1					
Event:	222	2		506	3091	11.9	3.089							2					
Station:	27 24	3		507	1407	11.8	3.124							3					
Event Date (Local):	05-09-20	4		508A	3047	11.7	3.207							4	508B	3194	11.8	3.206	
Analysis Date (Local):	05 Sep. 2020	5		509	121	11.8	3.288							5					
Analyst:	KS	6		510	3114	11.9	3.265							6					
Stdization Date (Local):	05 Sep. 2020	7		511	620	12.0	3.297							7					
KIO ₃ N:	0.0117868	8		512	3106	12.0	3.245							8					
Standard Titer:	0.47246	9		513	3096	12.1	3.329							9					
Blank Titer:	0.00046	10		514A	3089	12.3	3.453							10	514B	3066	12.3	3.455	
THIO N:	0.24952	11	12	515	3146	12.5	3.464							11					
Sample Flask Water Seal?	Yes	12	13	516	3110	12.7	3.489							12					
	No	13	14	517	3147	13.1	3.608							13					
Reagent Change?	MnCl ₂	14	15	518	3065	14.7	5.555							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	16	519	3093	18.3	6.851							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16	17	520	745	19.6	6.696							16					
	KIO ₃																		
	THIO																		
Notes:		27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009
		Bot-5 m	300 m	250 m	200 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	50 m	40 m					
		bot 1	bot 2	bot 24	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10	bot 12					
		516	517	518	519	520								23					
		OXY	OXY	OXY	OXY	OXY								24					
Bottle integrity: First test the top ver		27	27	27	27	27													
		2020-009	2020-009	2020-009	2020-009	2020-009													
		30 m	20 m	10 m	5 m	0 m													
		bot 13	bot 14	bot 15	bot 16	bot 17													

Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Nessy



Last Updated: July 2018

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-009						1		529	456	12.0	2.971		1						
Event:	231						2		530	2098	11.9	3.001		2						
Station:	42						3		531A	611	12.1	3.122	Messy curve. OT still a bit noisy but ok EP placement.	3	531B	3029	12.2	3.128		
Event Date (Local):	05 Sept. 2020						4		532	2007	11.9	3.195		4						
Analysis Date (Local):	05 Sept. 2020						5		533	3041	12.6	3.182		5						
Analyst:	KS						6		534	3555	11.9	3.325		6						
Stdization Date (Local):	05 Sept. 2020						7		535	3120	12.0	3.283		7						
KIO ₃ N:	0.0117868						8		536	622	12.3	3.174		8						
Standard Titer:	0.47246						9		537	3444	12.7	3.153		9						
Blank Titer:	0.00046						10		538	301	12.7	3.430		10						
THIO N:	0.24952						11							11						
Sample Flask Water Seal?	Yes						12		539	3078	12.9	3.487		12						
	No						13		540	3048	13.4	3.642		13						
Reagent Change?	MnCl ₂						14		541	3331	14.1	3.928	LEAKS, VENT LEAK	14						
(Please circle reagent that was changed prior to sampling and standardization)	NaOH						15		542	3079	15.3	4.386		15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16		543	3442	17.4	5.707	02V also depressed to about 2.1V	16						
	KIO ₃						17		544A	2065	20.1	6.925	Sample cloudy. Noisy curve.	17	544B	3533	19.8	6.926	also depressed 02V @ 2.2V. Sample also cloudy	
	THIO																			
Notes:	529	530	178	531A	531B	532	533	534	535	536	537	538	539							
	OXY	OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY							
	42	42		42	42	42	42	42	42	42	42	42	42							
	2020-009	2020-009		2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009							
	Bot-5 m	300 m		250 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m							
	bot 1	bot 2		bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 12							
	540	541	542	543	544A	544B														
	OXY	OXY	OXY	OXY	OXY	OXY														
	42	42	42	42	42	42														
	2020-009	2020-009	2020-009	2020-009	2020-009	2020-009														
	30 m	20 m	10 m	5 m	0 m	0 m														

opriate column if either fails the integrity check and explain this in the comments column.