

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information				OXY-1 Comments										OXY-2 Comments															
Nisk ID	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)											Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)										
1	2	1409	9.3	2.448											1														
2	3	3057	9.4	2.511											2														
3	4	639	9.5	2.680											3														
4	5	3037	9.9	2.969											4														
5	6	969	10.7	3.563											5														
6	7	510	10.8	3.637											6														
7	8A	1401	10.8	3.659											7	8B	3002	10.8	3.663										
8	9	951	11.3	4.018	Flask = 3137										8														
9	10	951	11.3	4.080											9														
10	11	3081	11.6	4.308											10														
11	12A	20	11.9	4.509											11	12B	569	11.9	4.509										
12	13	673	12.1	4.620											12														
13															13														
14	2																												
15	OXY																												
16	Har059																												
17	2022-022																												
18	Bot-10 m																												
19	bot 1																												
20	12B																												
21	OXY																												
22	Har059																												
23	2022-022																												
24	5 m																												

15 - Moose.xlsx

Notes:

19

20

21

22

23

24

Reagent Changed?

MnCl₂

(Please circle reagent that was changed prior to sampling and standardization)

NOTE NEW BATCH IN LOG BOOK

Har059

2022-022

Bot-10 m

bot 1

12B

OXY

Har059

2022-022

5 m

bot 11

bot 12

1 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: December 2019

Cruise and Analysis Information				Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022	1	14	3120	7.9	1.328					1					
Event:	7	2	15	3134	7.9	1.340					2					
Station:	JF2	3	16	3104	8.0	1.766	4750				3					
Event Date (local):	25-08-22 26-08-22	4	17A	575	8.3	2.039	→				4	17B	396	8.4	2.030	
Analysis Date (local):	26 Aug 2022	5	18	1402	9.1	2.670					5					
Analyst:	KS	6	19	952	9.3	2.765					6					
Stratization Date (local):	26 Aug 2022	7	20	2092	10.5	4.018					7					
KIO ₃ N:	0.0118217	8	21	962	11.1	4.675					8					
Standard Titer:	0.45889	9	22	3173	11.4	5.271					9					
Blank Titer:	0.00040	10	23A	3007	11.4	5.265	→				10	23B	1378	11.4	5.265	
THIO N:	0.24583	11									11					
Sample Flask Water Seal?	☒ Yes	12	14	OXY							18					
Reagent Change?	☐ No	13	15	OXY							19	19	20			
(Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂	14	2022-022	JF2							19	OXY	JF2			
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15	2022-022	JF2							19	OXY	JF2			
	H ₂ SO ₄	16	150 m	bot 2							19	50 m	30 m			
	KIO ₃	17	100 m	bot 3							19	2022-022	JF2			
	THIO	18									19	20 m	bot 8			
Notes:		19									18					
		20									19					
15 - Moose.xlsx		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: December 2019

Cruise and Analysis Information				Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022			1		25	970	10.5	3.620		1					
Event:	16			2		26	971	10.7	3.896		2					
Station:	LB01			3		27A	972	11.9	5.061	-Value for B	3	27B	973	11.8	5.058	-Value for A
Event Date (local):	26-08-22			4		28	974	12.1	5.198		4					
Analysis Date (local):	26 Aug 2022			5							5					
Analyst:	KS			6							6					
Stratization Date (local):	26 Aug 2022			7							7					
KIO ₃ N:	0.0118217			8							8					
Standard Titer:	0.45804			9							9					
Blank Titer:	0.06040			10							10					
THIO N:	0.24583			11							11					
Sample Flask Water Seal?	☒ Yes			12							12					
Reagent Change?	No			13							13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	MnCl ₂ NaI/NaOH H ₂ SO ₄ KIO ₃ THIO			14						14						
Notes:				15							15					
				16							16					
				17							17					
				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



Last Updated: December 2019

Cruise and Analysis Information				OXY-1 Comments				OXY-2 Comments			
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	
1		30	975	9.1	7.84	1					
2						2					
3		32	976	16.5	3.553	3					
4						4					
5		34A	977	10.9	4.036 →	5	34B	978	10.9	4.032	
6						6					
7		36	979	11.8	5.299	7					
8		37	980	11.9	5.326	8					
9						9					
10						10					
11						11					
12						12					
13		30				13					
14		OXY				14					
15		LB02				15					
16		2022-022				16					
17		Bot-10 m				17					
18		bot 1				18					
19						19					
20						20					
21						21					
22						22					
23						23					
24						24					

Sample Flask Water Seal? ☒ (Yes) No

Reagent Changed? ☐ MnCl₂ ☐ Na₂/NaOH ☐ H₂SO₄ ☐ K₂Cr₂O₇ ☐ THIO

(Please circle reagent that was changed prior to sampling and standardization)

NOTE NEW BATCH IN LOG BOOK

Notes:

14 - Chicken & Egg.xlsx

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.



Cruise and Analysis Information				Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022			1		41	982	7.8	1.502		1					
Event:	13			2		42A	983	7.9	1.796		2	42B	984	7.9	1.787	
Station:	LB04			3		43	985	8.4	2.406		3					
Event Date (Local):	26-08-22			4		44	986	8.8	2.679		4					
Analysis Date (Local):	26 Aug 2022			5		45	987	9.5	2.967		5					
Analyst:	KS			6		46	988	10.5	4.595		6					
Standardization Date (Local):	26 Aug 2022			7		47	989	11.3	5.937		7					
KIO ₃ N:	0.0118217			8							8					
Standard Titer:	0.45804			9							9					
Blank Titer:	0.00040			10							10					
THIO N:	0.24583			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)	NaOH/NaOH			15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16							16					
	KIO ₃			17							17					
	THIO			18							18					
Notes:	41			19							19					
	OXY			20							20					
	LB04			21							21					
	2022-022			22							22					
	2022-022			23							23					
	2022-022			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



Cruise and Analysis Information				Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022	1		49	131	7.7	1.244				1					
Event:	18	2		50A	132	7.7	1.258				2	50B	133	7.8	1.258	
Station:	LB06	3		51	134	7.7	1.339				3					
Event Date (Local):	26-08-22	4		52	135	8.1	2.089				4					
Analysis Date (Local):	26 Aug 2022	5		53	136	8.9	3.000				5					
Analyst:	KS	6		54	137	9.9	3.941				6					
Stdization Date (Local):	26 Aug 2022	7		55	138	13.0	6.275				7					
KIO ₃ N:	0.0118217	8		56	139	14.5	7.020				8					
Standard Titer:	0.45804	9									9					
Blank Titer:	0.00040	10									10					
THIO N:	0.24583	11									11					
Sample Flask Water Seal?	☒ Yes	12									12					
Reagent Change?	MnCl ₂	13		49	50B											
(Please circle reagent that was changed prior to sampling and standardization)	NaCl/NaOH	14		OXY	OXY											
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		LB06	LB06											
	KIO ₃	16		2022-022	2022-022											
	THIO	17		Bot-10 m	100 m											
		18		bot 1	bot 2											
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.

**Institute of Ocean Sciences
Water Properties Group**



Last Updated: December 2019

Cruise and Analysis Information				Nisk ID	Nisk Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Nisk Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022	1		58	131	7.6	0.717			1					
Event:	33	2		59	132	7.5	0.783			2					
Station:	LB08	3		60A	133	7.5	0.792			3	60B	134	7.6	0.790	
Event Date (Local):	27 Aug 2022	4								4					
Analysis Date (Local):	27 Aug 2022	5		62	135	7.6	1.060			5					
Analyst:	K5	6		63	136	7.7	1.363		runaway OT	6					
Standardization Date (Local):	27 Aug 2022	7								7					
KIO ₃ N:	0.0118217	8		65	137	8.3	2.116			8					
Standard Titer:	0.48092	9								9					
Blank Titer:	0.00044	10								10					
THIO N:	0.24575	11		68	138	9.1	3.212			11					
Sample Flask Water Seal?	Yes	12		69	139	10.1	4.024			12					
Reagent Change?	Yes	13								13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14								14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		72	140	13.5	7.057			15					
	KIO ₃	16								16					
	THIO	17		74	141	13.7	7.076			17					
		18								18					
Notes:		19		58	59	60A	60B	62	63	65	68	69	72	74	
		20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
		21		LB08	LB08	LB08	LB08	LB08	LB08	LB08	LB08	LB08	LB08	LB08	
		22		2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	
		23		Bot-5 m	Bot-10 m	125 m	125 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m	
		24		bot 1	bot 2	bot 3	bot 3	bot 5	bot 6	bot 8	bot 11	bot 12	bot 15	bot 17	

**Institute of Ocean Sciences
Water Properties Group**



Last Updated: December 2019

[illegible]

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: December 2019

Cruise and Analysis Information				Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022			1		88	970	7.7	1.506		1					
Event:	39			2		89	971	7.8	1.526		2					
Station:	LB11			3		90	972	7.9	1.771		3					
Event Date (Local):	27-08-22			4		91	973	8.1	2.037		4					
Analysis Date (Local):	27 Aug 2022			5		92	974	8.3	2.849		5					
Analyst:	KS			6		93	975	8.3	2.317		6					
Standardization Date (Local):	27 Aug 2022			7		94A	976	8.5	3.132	→	7	94B	977	8.6	3.140	
KIO ₃ N:	0.0118217			8		95	978	9.9	3.517		8					
Standard Titer:	0.48092			9		96	979	11.5	5.087		9					
Blank Titer:	0.00044			10		97	980	12.6	5.884		10					
THIO N:	0.24575			11		98	981	12.7	5.876		11					
Sample Flask Water Seal?	☒ Yes			12							12					
Reagent Change?	MnCl ₂			13							13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			14	88	OXY					14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			15							15					
	KIO ₃			16	2022-022	LB11					16					
	THIO			17	2022-022	LB11					17					
				18	Bot-10 m	175 m	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022
				19	bot 1	150 m	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022
				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.

14 - Chicken & Egg.xlsx

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information

Cruise Number: 2022-022

Event:

Station: LB12

Event Date (Local): 27-08-22

Analysis Date (Local): 27 Aug 2022

Analyst: KS

Standardization Date (Local): 27 Aug 2022

KIO₃ N: 0.0118217

Standard Titer: 0.48092

Blank Titer: 0.00044

THIO N: 0.24575

Sample Flask Water Seal? ☒ Yes

Reagent Change?

(Please circle reagent that was changed prior to sampling and standardization)

NOTE NEW BATCH IN LOG BOOK

NaOH
H₂SO₄
KIO₃
THIO

Notes: Bottle 99g is

Blank, reserved

14 - Chicken & Egg xlsx

LB12

Box Free Tamarac

Bottle integrity: First test the top vent (V) by op

Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1		99	982	6.9	0.833		1					
2		100	983	7.1	1.111		2					
3		101A	984	7.5	1.414	Nessy curve, OT	3	101B	985	7.5	1.422	
4		102	986	7.7	1.676		4					
5		103	987	7.9	2.002		5					
6		104	988	8.0	2.062		6					
7		105	989	8.1	2.758		7					
8		106	990	8.3	2.826		8					
9		107	991	8.3	3.083		9					
10		108	992	8.5	3.696		10					
11		109	993	8.3	5.006		11					
12		110	994	9.5	3.684		12					
13		111	995	9.8	3.464		13					
14		112A	997	12.9	6.231		14	112B	998	12.9	6.233	
15		113	999	13.0	6.255		15					
16	99											
17	OXY		100									
18	LB12		LB12									
19	2022-022		2022-022									
20	Bot-10 m		400 m									
21	bot 1		bot 2									
22	110		111									
23	OXY		OXY									
24	LB12		LB12									
	2022-022		2022-022									
	30 m		20 m									
	bot 12		bot 13									
			10 m									
			10 m									
			5 m									
			bot 14									
			bot 15									



Cruise and Analysis Information

Cruise Number: 2022-022

Event: 44

Station: LB14 20

Event Date (local): 27-08-22

Analysis Date (local): 27 Aug 2022

Analyst: KS

Standardization Date (local): 27 Aug 2022

KIO₃ N: 0.0118217

Standard Titer: 0.48092

Blank Titer: 0.00044

THIO N: 0.24575

Sample Flask Water Seal? ☒ Yes

Reagent Change? ☐ No

(Please circle reagent that was changed prior to sampling and standardization)
NOTE NEW BATCH IN LOG BOOK

MnCl₂
Na₂/NaOH
H₂SO₄
KIO₃
THIO

Notes: Very windy while sampling
15 - Moose.xlsx

OXY-1 Comments

OXY-2 Comments

Nisk ID	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)
1	116	1409	5.7	0.328	1				
2	117A	3057	5.9	0.258	2	117B	639	6.0	0.253
3	118	3037			3				
4	119	969	6.6	0.780	4				
5	120	510	7.1	1.237	5				
6	121	1401	7.5	1.582	6				
7	122	3002	7.8	1.696	7				
8	123	3137	8.1	2.256	8				
9	124	951	8.1	2.587	9				
10	125	3081	8.3	3.080	10				
11	126A	20	8.5	3.317	11	126B	569	8.5	3.313
12	127	673	8.5	3.860	12				
13	128	3120	8.3	5.054	13				
14	129	3134	8.9	6.394	14				
15	130	3104	9.9	6.393	15				
16	131	575	10.7	6.958	16				
17	132	396	13.2	6.751	17				
18	133	1402	13.5	6.761	18				

USED VENTURA 2u (microneedle 3) Not sample
↳ samples collected before oxy.

bottle was opened

19	116	117A	117B	118	119	120	121	122	123	124	125	126A
20	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
21	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14	LB14
22	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022
23	Bot-10 m	1000 m	1000 m	750 m	500 m	400 m	300 m	250 m	200 m	175 m	150 m	125 m
24	bot 1	bot 2	bot 2	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11

ents column.



Cruise and Analysis Information				Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022	1	136	161	5.3	0.716					1					
Event:	53	2	137	162	5.6	0.429					2					
Station:	LC11	3	138	163	5.9	0.239					3					
Event Date (Local):	28 Aug 2022	4	139A	164	6.3	0.240	→				4	139B	165	6.4	0.237	
Analysis Date (Local):	28 Aug 2022	5	140	165	6.6	0.838					5					
Analyst:	KS	6	141	167	6.7	1.394					6					
Stratization Date (Local):	28 Aug 2022	7	142	168	7.3	1.899					7					
KIO ₃ N:	0.0121441	8	143	169	7.6	2.398					8					
Standard Titer:	0.49396	9	144	170	7.8	3.264					9					
Blank Titer:	0.00046	10	145A	171	8.1	3.445	→				10	145B	172	8.1	3.450	
THIO N:	0.21574	11	146	173	8.2	3.681					11					
Sample Flask Water Seal?	☒ Yes	12	147	174	8.4	3.844					12					
	No	13	148	175	8.4	4.455					13					
Reagent Change?	MnCl ₂	14	149	176	8.3	6.189					14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	150	177	8.9	6.518					15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16	151	178	11.1	7.057					16					
	☒ KIO ₃	17	152	179	16.1	6.501					17					
	THIO	18	153A	180	15.5	6.431	→				18	153B	181	15.5	6.423	
Notes:		19	154	182	15.8	6.429	Top Valve Offset - Leak				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.



Cruise and Analysis Information				Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022			1		155	131	6.5	0.484		1					
Event:	55			2		156	132	6.7	0.681		2					
Station:	LC09			3		157	133	7.0	0.995		3					
Event Date (Local):	28-08-22			4		158	134	7.3	1.339		4					
Analysis Date (Local):	28 Aug 2022			5							5					
Analyst:	KS			6		160A	135	7.5	1.529	→	6	160B	136	7.6	1.522	
Standardization Date (Local):	28 Aug 2022			7		161	137	7.9	1.806	Runaway titration. OT	7					
KIO ₃ N:	0.012144			8		162	138	7.9	1.939		8					
Standard Titer:	0.49396			9		163	139	8.1	2.667		9					
Blank Titer:	0.00046			10		164	140	8.3	2.982		10					
THIO N:	0.24574			11		165	141	8.3	3.833		11					
Sample Flask Water Seal?	☒ Yes			12		166A	142	8.3	5.384	→	12	166B	143	8.4	5.378	
Reagent Change?	☐ No			13		167	144	8.8	6.458		13					
(Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂			14							14					
NOTE NEW BATCH IN LOG BOOK	NaCl/NaOH			15							15					
	H ₂ SO ₄			16		170	145	9.8	6.629		16					
	KIO ₃			17		171	146	11.5	6.858		17					
	THIO			18							18					
Notes:	19 X			19		173	147	13.4	6.522	TOP VALVE NOT SIGHTING RIGHT	19					
				20							20					
				21		175	148	13.5	6.515		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: December 2019

Cruise and Analysis Information				OXY-1 Comments									
Nisk ID	Nisk Int V	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments		
1		179	149	7.6	1.429	1							
2		180	150	7.7	1.449	2							
3		181	151	7.7	1.518	3							
4		182	152	7.9	1.946	4							
5		183	153	8.4	3.128	5							
6		184	154	8.3	4.870	6							
7		185A	155	8.8	5.890	7	185B	156	8.8	5.889			
8		186	157	9.7	6.635	8							
9						9							
10		188	158	13.2	6.499	10							
11		189	159	15.2	6.180	11							
12						12							
13		191	160	15.3	6.178	13							
14		179	180	181	182	183	184	185A	185B	188	186	189	191
15		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
16		LC08	LC08	LC08	LC08	LC08	LC08	LC08	LC08	LC08	LC08	LC08	LC08
17		2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022
18		Bot-10 m	175 m	150 m	125 m	100 m	75 m	50 m	50 m	20 m	30 m	10 m	5 m
19		bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 10	bot 8	bot 11	bot 13
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.

13 - Mermaid.xlsx

Reagent Change? MnCl₂ (please circle reagent that was changed prior to sampling and standardization)
H₂SO₄
KIO₃
THIO
NOTE NEW BATCH IN LOG BOOK

Sample Flask Water Seal? (Yes) No

Standard Titer: 0.19396
Blank Titer: 0.00046
THIO N: 0.24574

Stidization Date (local): 28 Aug 2022
KIO₃ N: 0.012144

Analyst: KS
Analysis Date (local): 28 Aug 2022

Event Date (local): 28-08-22

Station: LC08

Event: 61

Cruise Number: 2022-022



Cruise and Analysis Information			Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022		1		192	1409	8.3	1.931		1					
Event:	65		2		193	3057	8.6	2.680		2					
Station:	LC06		3		194A	639	9.4	3.448		3	194B	3037	9.4	3.448	
Event Date (Local):	28-08-22		4		195	969	16.4	4.039		4					
Analysis Date (Local):	28 Aug 2022		5		196	510	12.6	6.101		5					
Analyst:	KS		6		197	1401	12.8	6.349		6					
Stratization Date (Local):	28 Aug 2022		7		198	3002	12.8	6.383		7					
KIO ₃ N:	0.0121441		8												
Standard Titer:	0.49396		9		192										
Blank Titer:	0.00046		10		OXY										
THIO N:	0.24514		11		LC06										
Sample Flask Water Seal?	Yes		12		2022-022										
	No		13		Bot-10 m										
Reagent Change?	Mnd ₂		14		bot 1										
(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												
15 - Moose.xlsx			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: December 2019

Cruise and Analysis Information				OXY-1 Comments										OXY-2 Comments			
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)							Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	
1		199	951	8.3	1.934							1					
2		200	3081	8.3	1.981							2					
3												3					
4		202	20	8.5	2.298							4					
5		203	569	8.5	2.565							5					
6												6					
7		205	673	8.7	2.492							7					
8		206	3120	9.2	3.069							8					
9												9					
10		208A	3134	9.7	3.094							10	208B	3104	9.7	3.094	
11		209	575	10.3	3.537							11					
12												12					
13		211	396	11.1	4.462							13					
14												14					
15		213	1402	13.1	7.136							15					
16		199															
17		OXY	200														
18		LC04	OXY														
19		2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022						
20		Bot-10 m	150 m														
21		bot 1	bot 2														
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.



Cruise and Analysis Information				OXY-1 Comments										OXY-2 Comments			
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)							
1		216	2092	8.3	2.089	1											
2		217	962	8.8	2.331	2											
3		218A	3173	9.6	2.978	3	218B	3007	9.6	2.977							
4		219	1378	10.3	3.360	4											
5		220	966	11.0	4.110	5											
6		221	3076	12.3	6.306	6											
7		222	2060	13.4	9.094	7											
8		216	217	218A	218B	219	220	221	222								
9		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY								
10		LC02	LC02	LC02	LC02	LC02	LC02	LC02	LC02								
11		2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022								
12		Bot-10 m	75 m	50 m	50 m	30 m	20 m	10 m	5 m								
13		bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7								
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Notes: 15 - Moose.xlsx

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.

**Institute of Ocean Sciences
Water Properties Group**



Last Updated: December 2019

Cruise and Analysis Information						Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:		2022-022				1		225	161	8.5	2.306		1					
Event:		76				2		226	162	8.8	2.449		2					
Station:		LC01				3		227A	163	9.5	2.796		3	227B	164	9.5	2.798	
Event Date (Local):		28-08-22				4							4					
Analysis Date (Local):		28 Aug 2022				5		229	165	10.5	3.663		5					
Analyst:		KS				6							6					
Satization Date (Local):		28 Aug 2022				7		231	166	11.3	4.463		7					
KIO ₃ N:		0.0121441				8		232	167	12.8	7.749		8					
Standard Titer:		0.19396				9							9					
Blank Titer:		0.00046				10		234	168	13.2	8.841		10					
THIO N:		0.24574				11							11					
Sample Flask Water Seal?		(Yes) No				12							12					
Reagent Change?	MnCl ₂					13							13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH H ₂ SO ₄ KIO ₃ THIO					14		225	-	225	OXY	-	14		229	231	232	234
						15		OXY	-	OXY	-	-	15		OXY	-	OXY	-
						16		LC01	-	LC01	-	-	16		LC01	-	LC01	-
						17		2022-022	-	2022-022	-	-	17		2022-022	-	2022-022	-
						18		Bot-10 m	-	75 m	-	-	18		20 m	-	10 m	-
						19		bot 1	-	bot 2	-	-	19		bot 7	-	bot 8	-
						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.



Cruise and Analysis Information				OXY-1 Comments				OXY-2 Comments			
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	
1		236	131	10.5	3.796	1					
2		237	132	10.7	4.000	2					
3		238A	133	12.4	5.625	3	238B	134	12.4	5.637	
4		239	135	13.3	6.538	4					
Analysis Date (Local): 78 Aug 2022											
Analyst: KS											
Standardization Date (Local): 28 Aug 2022											
KIO ₃ N: 0.0121441											
Standard Titer: 0.49396											
Blank Titer: 0.00046											
THIO N: 0.24574											
Sample Flask Water Seal? ☒ Yes											
Reagent Change? ☐ No											
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK											
MnO ₂											
NaI/NaOH											
H ₂ SO ₄											
KIO ₃											
THIO											
Notes:											
13 - Mermaid.xlsx											

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.



Cruise and Analysis Information				Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022			1		240	137	9.7	3.050		1					
Event:	80			2		241	138	9.7	3.126		2					
Station:	LD02			3		242A	139	9.7	3.295	10.2	3	242B	140	10.1	3.292	
Event Date (Local):	28-08-22			4		243	141	12.9	6.698		4					
Analysis Date (Local):	28 Aug 2022			5		244	142	14.3	6.806		5					
Analyst:	KS			6							6					
Stdization Date (Local):	28 Aug 2022			7							7					
KIO ₃ N:	0.6121441			8							8					
Standard Titer:	0.49396			9							9					
Blank Titer:	0.00046			10							10					
THIO N:	0.24574			11							11					
Sample Flask Water Seal?	☒ Yes			12	240						12					
	☐ No			13	OXY						13					
Reagent Change?	MnCl ₂			14	LD02						14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			15	2022-022						15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	16					
	KIO ₃			17	Bot-10 m	30 m	20 m	20 m	10 m	5 m	17					
	THIO			18	bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	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.



Cruise and Analysis Information				OXY-1 Comments					OXY-2 Comments					
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)				Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	
1		245A	144	8.9	2.649				1	246B	145	8.9	2.658	
2		247	146	9.9	3.368				2					
3		248	147	11.43	4.715				3					
4		249	148	12.5	5.995				4					
5		250	149	13.1	6.865				5					
6									6					
7		246A		246B	247				7					
8		OXY		OXY	OXY				8					
9		LD04		LD04	LD04				9					
10		2022-022		2022-022	2022-022				10					
11		Bot-10 m		Bot-10 m	30 m				11					
12		bot 1		bot 1	bot 2				12					
13									13					
14									14					
15									15					
16									16					
17									17					
18									18					
19									19					
20									20					
21									21					
22									22					
23									23					
24									24					

Notes:

13 - Mermaid.xlsx

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.



Cruise and Analysis Information				Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	Flask 1	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	Flask 2	OXY-2 Comments
Cruise Number:	2022-022			1		251	403	7.7	1.442	151		1						
Event:	88			2		252	254	8.3	3.023	152		2						
Station:	LD06			3		253	257	8.3	3.764	153		3						
Event Date (Local):	28-08-22			4		254	140	8.2	5.002	154		4						
Analysis Date (Local):	August 28, 2022			5		255	452	8.7	6.128	155		5						
Analyst:	KS			6		256	258	11.1	6.075	156		6						
Standardization Date (Local):	August 28, 2022			7		257	202	13.0	6.368	157		7						
KIO ₃ N:	0.0121441			8		258A	450	13.4	6.356	158		8	258B	254	13.4	6.358	159	Done First
Standard Titer:	0.49396			9								9						
Blank Titer:	0.00046			10								10						
THIO N:	0.24574			11								11						
Sample Flask Water Seal?	☒ Yes			12								12						
Reagent Change?	MnCl ₂			13		251						13						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			14		OXY						14						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			15		LD06						15						
	KIO ₃			16		2022-022						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



Last Updated: December 2019

Cruise and Analysis Information			
Cruise Number:	2022-022		
Event:	90		
Station:	LD08		
Event Date (Local):	29 Aug 2022		
Analysis Date (Local):	29 Aug 2022		
Analyst:	KS		
Standardization Date (Local):	29 Aug 2022		
KIO ₃ N:	0.0121441		
Standard Titer:	0.49404		
Blank Titer:	0.00053		
THIO N:	0.24573		
Sample Flask Water Seal?	☒ Yes		
Reagent Change?	MnCl ₂		
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK			
	NaI/NaOH		
	<u>H₂SO₄</u> 2101		
	KIO ₃		
	THIO		
Notes:			
15 - Moose.xlsx			

Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1		259	1409	6.3	0.243		1					
2		260	3057	6.3	0.248		2					
3		261A	639	6.9	0.766	→	3	261B	3037	7.0	0.764	
4		262	969	7.1	1.055		4					
5		263	510	7.5	1.359		5					
6		264	1401	7.6	1.696		6					
7		265	3002	7.9	1.769		7					
8		266	3137	8.0	1.905		8					
9		267	951	8.2	2.415		9					
10		268	3081	8.4	3.454		10					
11		269	20	8.6	3.331		11					
12		270	569	8.3	5.099		12					
13		271	673	8.8	6.341		13					
14		272A	3120	9.9	6.660	→	14	272B	3134	9.9	6.655	
15		273	3104	11.2	7.696		15					
16		274	575	15.6	6.191		16					
17		275	396	16.0	6.123		17					
18	259											
19	OXY											
20	LD08											
21	2022-022											
22	Bot-10 m											
23	bot 1											
24												
259	OXY											
260	OXY											
261A	OXY											
261B	OXY											
262	OXY											
263	OXY											
264	OXY											
265	OXY											
266	OXY											
267	OXY											
268	OXY											
269	OXY											

Check and explain this in the comments column.

270 OXY LD08 2022-022 75 m bot 12 271 OXY LD08 2022-022 50 m bot 13 272A OXY LD08 2022-022 30 m bot 14 272B OXY LD08 2022-022 30 m bot 14 273 OXY LD08 2022-022 20 m bot 15 274 OXY LD08 2022-022 10 m bot 16 275 OXY LD08 2022-022 5 m bot 17

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 Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022	1		278	161	5.9	0.736		1					
Event:	95	2		279	162	5.9	0.621		2					
Station:	LD11	3		280	163	6.0	0.426		3					
Event Date (Local):	29 Aug '22	4		281	164	6.3	0.221		4					
Analysis Date (Local):	29 Aug '22	5		282A	165	6.6	0.244	→	5	282B	166	6.7	0.228	
Analyst:	KS	6		283	167	6.9	0.228	0.729	6					
Standardization Date (Local):	29 Aug 2022	7		284	168	7.2	0.229	1.900	7					
KIO ₃ N:	0.0121441	8		285	169	7.4	1.405	2.162	8					
Standard Titer:	0.49404	9		286	170	7.8	2.462	2.660	9					
Blank Titer:	0.00053	10		287A	171	8.1	2.660	→ 3.254	10	287B	172	8.3	3.254	
THIO N:	0.24573	11		288	173	8.2	3.572		11					
Sample Flask Water Seal?	Yes	12		289	174	8.5	3.610		12					
	No	13		290	175	8.5	4.013		13					
Reagent Change?	MnCl ₂	14		291	176	8.7	5.510		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		292	177	9.4	6.478		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		293	178	16.4	6.680		16					
	KIO ₃	17							17					
	THIO	18		295	179	11.8	7.765		18					
Notes:		19							19					
		20		297	180	17.2	6.082		20					
		21		298	181	17.7	5.946		21					
		22		299A	182	17.8	5.940	→	22	299B	183	17.8	5.944	
		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: December 2019

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022	1		312	161	5.7	0.227		1					
Event:	109	2		313	162	6.1	0.263		2					
Station:	LG06	3		314A	163	6.7	0.764		3	314B	164	6.8	0.761	
Event Date (local):	29-08-22	4		315	165	7.0	1.035	Flask 180 redraw 7.2	4					
Analysis Date (local):	30 Aug 22	5		316	166	7.3	1.311		5					
Analyst:	MS	6		317	167	7.4	1.463		6					
Standardization Date (local):	29 Aug 2022	7		318	168	7.7	1.715		7					
KIO ₃ N:	0.0121441	8		319	169	7.8	2.174		8					
Standard Titer:	0.49404	9		320	170	7.8	2.330		9					
Blank Titer:	0.00053	10		321	171	8.2	3.003	OT	10					
THIO N:	0.24573	11		322	172	8.4	3.128		11					
Sample Flask Water Seal?	Yes	12		323	173	8.1	4.529		12					
	No	13		324	174	8.3	5.748		13					
Reagent Change?	MnCl ₂	14		325A	175	10.0	5.888		14	325B	176	10.0	5.891	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/AcOH	15		326	177	12.9	6.374		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		327	178	13.4	6.764		16					
	KIO ₃	17		328	179	13.6	6.847		17					
	THIO	18							18					
Notes:		19							19					
		20							20					
		21							21					
		22							22					

11 - Earth.xlsx

312 313 314A 314B 315

OXY OXY OXY OXY OXY

LG06 LG06 LG06 LG06 LG06

2022-02 2022-02 2022-02 2022-02 2022-02

Bot-10 750 m 500 m 500 m 400 m

316 317 318 319 320 321 322 323 324 325A 325B 326 327 328

OXY OXY OXY OXY OXY OXY OXY OXY OXY OXY OXY OXY OXY OXY

LG06 LG06 LG06 LG06 LG06 LG06 LG06 LG06 LG06 LG06 LG06 LG06 LG06 LG06

2022-02 2022-02 2022-02 2022-02 2022-02 2022-02 2022-02 2022-02 2022-02 2022-02 2022-02 2022-02 2022-02

300 m 250 m 200 m 175 m 150 m 125 m 100 m 75 m 50 m 30 m 30 m 20 m 10 m 5 m

ents column.

**Institute of Ocean Sciences
Water Properties Group**



Last Updated: December 2015

Cruise and Analysis Information					Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022	1		332	181	7.7	1.54					1					
Event:	111	2		333	182	7.7	1.73					2					
Station:	LG04	3		334	183	7.8	1.37					3					
Event Date (Local):	29-08-22	4		335	184	8.0	2.54					4					
Analysis Date (Local):	30-Aug-2022	5		336	185	8.2	3.18					5					
Analyst:	MJ	6		337A	186	8.3	4.10	→				6	337B	187	8.3	4.11	
Standardization Date (Local):	29-Aug-2022	7		338	188	12.2	6.19					7					
KIO ₃ N:	0.0121441	8		339	189	13.3	7.08					8					
Standard Titer:	0.1446427	9		340	190	13.4	7.26	OT				9					
Blank Titer:	0.00053	10										10					
THIO N:	0.245726	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										19					
		20										20					
		21										21					
		22										22					

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

	2022-01	2022-01	2022-02	2022-02	2022-03	2022-03	2022-02	2022-03	2022-04
Bot-10	125 n	100 n	75 m	50 m	30 n	30 m	20 m	10 m	5 m

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information			Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022		1		341	103	8.3	3.714		1					
Event:	115		2		342A	102	8.4	3.777	→	2	342B	101	8.4	3.773	same labels same flask as Dec 14 Bot
Station:	LG02		3		343	104	8.3	3.662		3					
Event Date (local):	29-08-22		4							4					
Analysis Date (local):	30-08-22		5							5					
Analyst:	Ng		6		346	105	8.7	5.661		6					
Standardization Date (local):	29-08-22		7							7					
KIO ₃ N:	0.0121441		8							8					
Standard Titer:	0.4940427		9		349	106	6.0	6.069		9					
Blank Titer:	0.0005317		10		350	107	6.2	6.256		10					
THIO N:	0.245726		11							11					
Sample Flask Water Seal?	Yes		12							12					
Reagent Change?	MnCl ₂		13		353	108	13.3	6.258		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/MaOH		14							14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		15							15					
	KIO ₃		16							16					
	THIO		17							17					
			18							18					
Notes:			19												
			20		341										
			21		OXY										
			22		LG02										
			23		2022-022										
			24		Bot-10 m										
					bot 1										
					bot 2										
					bot 2										
					bot 3										
					bot 6										
					bot 9										
					bot 10										
					bot 13										

Bottle integrity: First test the top vent (V) by opening the vent. Mark X in the appropriate column if either fails the integrity check and explain this in the comments column.

12 - Humming Bird.xlsx

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information			Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number: 2022-022			1		358	110	9.3	4.005		1						
Event: 119			2		359A	111	9.6	3.850	→ forgot T1P stop time/pressure	2	359B	112	9.6	3.854		
Station: LG01			3		360	113	9.9	5.470		3						
Event Date (Local): 30-08-22			4							4						
Analysis Date (Local): 30.08.22			5		362	114	11.6	5.348		5						
Analyst: MG			6		363	115	10.4	5.496		6						
Standardization Date (Local): 29.08.22			7							7						
KIO ₃ N: 0.0021441			8							8						
Standard Titer: 6.4940427			9							9						
Blank Titer: 0.0005317			10							10						
THIO N: 0.245726			11							11						
Sample Flask Water Seal? Yes			12							12						
Reagent Changed? No			13							13						
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK MnCl ₂ ☒ NaI/NaOH ☐ H ₂ SO ₄ ☐ KIO ₃ ☐ THIO ☐			14							14						
			15								15					
			16								16					
			17								17					
Notes:			18							18						
			19							19						
			20							20						
			21							21						
12 - Humming Bird.xlsx			22							22						
			23							23						
			24							24						

Bottle Integrity: First test the top vent (V) by op

358	359A	359B	360	362	363
OXY	OXY	OXY	OXY	OXY	OXY
LG01	LG01	LG01	LG01	LG01	LG01
2022-022	2022-022	2022-022	2022-022	2022-022	2022-022
Bot-10 m	30 m	30 m	20 m	10 m	5 m
bot 1	bot 2	bot 2	bot 3	bot 5	bot 6

ie 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: December 2019

Cruise and Analysis Information				Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022	1				374	131	5.4	1.368		1					
Event:	128	2				375A	132	5.6	0.649		2	375B	133	5.6	0.649	
Station:	LBP7	3				376	134	5.9	0.386	runaway, OT ✓	3					
Event Date (Local):	30-08-22	4				377	135	6.1	0.257		4					
Analysis Date (Local):	30 Aug 2022	5				378	136	6.5	0.263		5					
Analyst:	K5	6				379	137	6.8	0.685		6					
Standardization Date (Local):	29 Aug 2022	7				380	138	6.8	1.416		7					
KIO ₃ N:	0.0121441	8				381	139	7.4	1.662		8					
Standard Titer:	0.4904	9				382	140	7.6	2.283		9					
Blank Titer:	0.00053	10				383A	141	7.9	2.851		10	383B	142	8.1	2.843	✓
THIO N:	0.14573	11				384	143	8.0	3.190		11					
Sample Flask Water Seal?	Yes	12				385	144	8.1	3.544		12					
	No	13				386	145	8.2	3.498		13					
Reagent Change?	MnCl ₂	14				387	146	8.3	3.643		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		X		388	147	8.3	5.383	vent loose	15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16				389	148	8.9	5.927		16					
	KIO ₃	17				390	149	10.5	6.286		17					
	THIO	18				391A	150	16.5	6.141		18	391B	151	16.6	6.154	✓
Notes:		19		X		392	152	18.2	5.801	leaking bag	19					
		20				393	153	18.3	5.785		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: December 2019

Cruise and Analysis Information										Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments										Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Cruise Number:	2022-012										1		395	161	5.5	0.439																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information				OXY-1 Comments										OXY-2 Comments									
Cruise Number:	2022-022	Nisk ID	1	Nisk Int V S		Sample ID	414	Flask 1 <td>970</td> <th>Draw Temp 1 (°C)</th> <td>7.6</td> <th>OXY-1 (mL/L)</th> <td></td> <th>Nisk ID</th> <td>1</td> <th>Sample ID</th> <td></td> <th>Flask 2<td></td><th>Draw Temp 2 (°C)</th><td></td><th>OXY-2 (mL/L)</th><td></td></th>	970	Draw Temp 1 (°C)	7.6	OXY-1 (mL/L)		Nisk ID	1	Sample ID		Flask 2 <td></td> <th>Draw Temp 2 (°C)</th> <td></td> <th>OXY-2 (mL/L)</th> <td></td>		Draw Temp 2 (°C)		OXY-2 (mL/L)	
Event:	135		2			415	971	971	971	7.7	1.867			2									
Station:	LBP3		3			416	972	972	972	7.7	2.035			3									
Event Date (Local):	30-08-22		4			417	973	973	973	7.8	2.183			4									
Analysis Date (Local):	31-08-22		5			418	974	974	974	8.0	2.549			5									
Analyst:	MS		6			419	975	975	975	8.3	3.499			6									
Stdization Date (Local):	31-08-22		7											7									
KIO ₃ N:	0.0121441		8											8									
Standard Titer:	0.4943842		9			422	976	976	976	8.7	3.802			9									
Blank Titer:	0.0006987		10											10									
THIO N:	0.245659		11			424	977	977	977	9.0	3.680			11									
Sample Flask Water Seal?	Yes		12											12									
	No		13			426	978	978	978	11.1	4.649			13									
Reagent Change?	MnCl ₂ 133		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			429A	979	979	979	11.5	4.897	→ 10m Europa IN SAMPLE		16	429B	980	980	980	11.5	4.910			NO Europa
	KIO ₃		17											17									
	THIO		18											18									
Notes:	414	415	416	417	418	419	422	424	426	429A	429B	429A	429B										
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY										
14 - Chicken & Egg.xlsx	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3	LBP3										
	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022										
	Bot-10 m	150 m	125 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m	5 m												
	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 9	bot 11	bot 13	bot 16	bot 16												

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: December 2019

Cruise and Analysis Information			Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022		1		433	161	5.2	1.269		1					
Event:	150		2		434	162	5.6	0.588	Runaway. OT /	2					
Station:	CS00		3		435	163	5.7	0.367		3					
Event Date (Local):	31-08-22		4		436	164	6.1	0.223		4					
Analysis Date (Local):	31 Aug 2022		5		437A	165	6.3	0.231		5	437B	166	6.6	0.229	
Analyst:	KS		6		438	167	6.6	0.618		6					
Standardization Date (Local):	31 Aug 2022		7		439	168	7.0	1.141		7					
KIO ₃ N:	0.0121141		8		440	169	7.2	1.633		8					
Standard Titer:	0.49438		9		441	170	7.5	2.081		9					
Blank Titer:	0.00070		10		442	171	7.5	2.667		10					
THIO N:	0.24566		11		443	172	7.7	3.181		11					
Sample Flask Water Seal?	☒ Yes		12		444A	173	7.9	3.290		12	444B	174	8.0	3.290	
Reagent Change?	☐ No		13		445	175	7.7	4.235		13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	MnCl ₂		14		446	176	7.7	5.059		14					
	NaI/NaOH		15		447	177	7.9	6.613		15					
	H ₂ SO ₄		16		448	178	8.8	6.687		16					
	KIO ₃		17		449	179	11.6	6.754		17					
	THIO		18		450A	180	14.3	6.405		18	450B	181	14.3	6.404	
Notes:			19	X	451	182	17.7	5.906	leaking.	19					
			20		452	183	17.7	5.998		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



Last Updated: December 2019

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022	1		455	970	4.7	1.036				1					
Event:	156	2		456	971	5.2	0.681				2					
Station:	CS02	3		457	972	5.5	0.352				3					
Event Date (Local):	31-08-22	4		458	973	5.8	0.236	OVERATTENTIVE EXTRA STEP IN END POINT			4					
Analysis Date (Local):	01.09.22	5		459A	974	6.2	0.318	→			5	459B	975	6.3	0.302	
Analyst:	ME	6		460	976	6.5	0.757				6					
Standardization Date (Local):	30-08-22	7		461	977	6.8	0.963				7					
KIO ₃ N:	0.0121441	8		462	978	7.1	1.507				8					
Standard Titer:	0.4943842	9		463	979	7.3	1.782	SOMEbody SAMPLED - GLEN			9					
Blank Titer:	0.0006989	10		464	980	7.5	1.812				10					
THIO N:	0.245659	11		465	981	7.6	2.132				11					
Sample Flask Water Seal?	Yes	12		466	982	7.7	3.047				12					
Reagent Changed?	No	13		467A	983	8.0	2.843	→			13	467B	984	8.0	2.838	
(Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂	14		468	985	8.1	2.975				14					
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15		469	986	8.2	2.859				15					
	H ₂ SO ₄	16		470	987	8.6	2.954	OVERATTENTIVE - LATE IN CURVE			16					
	KIO ₃	17									17					
	THIO	18		472	988	9.3	3.503				18					
Notes: Recalculated with standards 01 Sep. 2022		19		473A	989	10.9	4.501	→			19	473B	990	10.9	4.496	
14 - Chicken & Eggs.xlsx		20									20					
		21		475	991	16.1	6.065				21					
		22									22					
		23		477	992	16.7	6.009				23					
		24		999	993	20.6	6.109				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: December 2019

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments			
Cruise Number:	2022-022	1		479	161	8.1	2.375		1								
Event:	164	2		480	162	8.2	2.538		2								
Station:	CS04	3		481	163	8.5	2.916		3								
Event Date (Local):	01-09-22	4		482	164	9.9	4.123		4								
Analysis Date (Local):	01-09-22	5		483A	165	10.6	4.462	→ BETMAN BUBBLE	5	483B	166	10.6	4.465				
Analyst:	MG	6							6								
Stdization Date (Local):	31-08-22	7		485	167	11.5	5.096		7								
KIO ₃ N:	0.0121441	8		486	168	12.3	5.444		8								
Standard Titer:	0.4943842	9		487	169	12.6	5.515		9								
Blank Titer:	0.0006987	10							10								
THIO N:	0.0245659	11							11								
Sample Flask Water Seal?	Yes	12							12								
Reagent Change?	MnCl ₂	13							13								
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14							14								
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15							15								
	KIO ₃	16							16								
	THIO	17							17								
		18							18								
Notes: Recalculated with standards 01 Sep. 2022																	
11 - Earth.xlsx																	
2022-022	CS04	479	OXY	480	OXY	481	OXY	482	OXY	483A	OXY	483B	OXY	486	OXY	487	OXY
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04	2022-022	CS04
Bot-5 m				Bot-10 m		75 m		50 m		30 m		30 m		20 m		10 m	
bot 1				bot 2		bot 3		bot 4		bot 5		bot 5		bot 7		bot 8	
2022-022	CS04			2022-022	CS04	2											

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information			Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-022		1		488	970	8.8	3.121		1					
Event:	178		2		489	971	9.0	3.301		2					
Station:	CS06		3		490A	972	9.1	3.455		3	490B	973	9.2	3.456	
Event Date (Local):	01-09-22		4							4					
Analysis Date (Local):	02 Sept. 2022		5		492	974	10.9	4.518		5					
Analyst:	KS		6							6					
Stdization Date (Local):	01 Sept. 2022		7		494	975	11.3	4.894		7					
KIO ₃ N:	0.0124411		8		495	976	12.9	5.876		8					
Standard Titer:	0.49398		9							9					
Blank Titer:	0.00065		10		497	977	14.6	6.140		10					
THIO N:	0.24592		11		488										
Sample Flask Water Seal?	Yes		12		OXY	OXY									
	No		13		CS06	CS06									
Reagent Change?	MnCl ₂		14		2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		15		Bot-5 m	Bot-10 m									
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		16		bot 1	bot 2									
	KIO ₃		17							17					
	THIO		18							18					
Notes:			19							19					
			20							20					
			21							21					
14 - Chicken & Egg.xlsx			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: December 2019

Cruise and Analysis Information			Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2022-022			1		501	979	7.3	1.582		1					
Event: 185			2		502	980	7.5	1.596		2					
Station: CS09			3		503	981	7.5	1.663		3					
Event Date (Local): 02-09-22			4		504	982	7.5	1.676		4					
Analysis Date (Local): 02 Sep '22			5							5					
Analyst: KS			6		506	983	7.7	2.177		6					
Standardization Date (Local): 01 Sep '22			7		507	984	7.2	2.388		7					
KIO ₃ N: 0.0121441			8							8					
Standard Titer: 0.49398			9		509	985	8.3	3.164		9					
Blank Titer: 0.00065			10		510A	986	9.4	4.369	→	10	510B	987	9.4	4.372	
THIO N: 0.24592			11							11					
Sample Flask Water Seal? ☒ No			12		512	988	10.4	4.557		12					
			13		513	989	14.6	5.578		13					
Reagent Change? ☐ (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK			14							14					
MnCl ₂			15		515	990	15.3	6.077		15					
NaI/NaOH			16							16					
H ₂ SO ₄			17		517	991	15.9	6.166		17					
KIO ₃			18												
THIO			19												
Notes:			20		501	OXY				20					
			21		502	OXY				21					
			22		503	OXY				22					
			23		504	OXY				23					
			24		505	OXY				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: December 2019

Cruise and Analysis Information				OXY-1 Comments										OXY-2 Comments									
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)													
1		526	1409	9.4	3.346	1																	
2		527	3057	9.5	3.549	2																	
3		528	639	9.6	3.662	3																	
4		529A	3037	9.7	3.730	4	529B	969	9.7	3.730													
5		530	510	9.8	3.735	5																	
6		531A	1401	10.0	3.855	6	531B	3002	10.0	3.856													
7		532	3137	10.1	3.951	7																	
8		533	951	10.2	3.994	8																	
9		534A	3081	10.5	4.380	9	534B	20	10.5	4.381	E.P. was late. OT ✓												
10		535	569	10.5	4.476	10																	
11		536	673	10.7	4.640	11																	
12		526	527		528	529A	529B	530	531A	531B	532	533	534A	534B									
13		OXY	OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY									
14		JS01	JS01		JS01	JS01	JS01	JS01	JS01	JS01	JS01	JS01	JS01	JS01									
15		2022-022	2022-022		2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022									
16		Bot-5 m	200 m		150 m	100 m	100 m	75 m	50 m	30 m	20 m	10 m	10 m										
17		bot 1	bot 2		bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 9										
18		535	536																				
19		OXY	OXY																				
20		JS01	JS01																				
21		2022-022	2022-022																				
22		5 m	0 m																				
23		bot 10	bot 11																				
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.



Cruise and Analysis Information				OXY-1 Comments										OXY-2 Comments																						
Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)											Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)																
1		538	970	9.8	3.027	-1st attempt collected. Filtered the atmospheric.										1																				
2		539	971	9.7	3.050											2																				
3		540A	972	9.7	3.108											3	540B	973	9.8	3.104																
4		541	974	9.7	3.180											4																				
5		542	975	9.7	3.251											5																				
6		543	976	9.6	3.159											6																				
7		544	977	9.7	3.111											7																				
8		545	978	10.2	3.468											8																				
9		546A	979	10.5	3.578											9	546B	980	10.5	3.583																
10		547	981	11.0	3.727											10																				
11		548	982	11.9	3.937											11																				
12		549	983	10.7	6.139											12																				
13		550	984	18.9	6.966											13																				
14		551	985	19.9	6.975											14																				
15	538		539		540A	540B	541	542	543	544	545	546A	546B	547																						
16	OXY		OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY																						
17	12		12		12	12	12	12	12	12	12	12	12	12																						
18	2022-022		2022-022		2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022	2022-022																						
19	Bot-10 m		300 m		250 m	250 m	200 m	150 m	100 m	75 m	50 m	40 m	40 m	30 m																						
20	bot 1		bot 2		bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 9	bot 10																						
21	548		549		550	551																														
22	OXY		OXY		OXY	OXY																														
23	12		12		12	12																														
24	2022-022		2022-022		2022-022	2022-022																														

Bottle Integrity: First test the top vent (V) by 20 m bot 11 10 m bot 12 5 m bot 13 0 m bot 14 vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Reagent Change? MnCl₂ NaI/NaOH
(Please circle reagent that was changed prior to sampling and standardization)
NOTE NEW BATCH IN LOG BOOK
H₂SO₄
KIO₃
THIO

Notes:
14 - Chicken & Egg.xlsx