

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: 2020-083	1		1	2016	6.9	1.941								1					
Event: 12	2													2					
Station: HEC1	3		3	3173	8.6	3.172								3					
Event Date (Local): Oct 9, 2020	4		4	3116	9.5	3.601								4					
Analysis Date (Local): 09.10.20	5		5	3090	11.1	4.565								5					
Analyst: HLG	6													6					
Stdization Date (Local): 07.10.20	7		7	2015	13.0	5.566								7					
KIO ₃ N: 0.0118246	8		8A	3036	13.2	5.707								8	8B	1422	13.3	5.705	
Standard Titer: 0.04804327	9		9	712	13.2	5.954	OVERTITRATE NO CURVE							9					
Blank Titer: 0.0005844	10		10	1416	13.1	6.018								10					
THIO N: 0.246457	11		11	2094	13.2	6.684								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)	14													14					
NOTE NEW BATCH IN LOG BOOK	15													15					
	16													16					
	17													17					
	18													18					
Notes: SHARK	19		1	3	4	5	7	8A	8B	9	10	11							
	20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY							
	21		HEC1	HEC1	HEC1	HEC1	HEC1	HEC1	HEC1	HEC1	HEC1	HEC1							
	22		2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083							
	23		b-5 m	100 m	75 m	50 m	30 m	20 m	20 m	10 m	5 m	0 m							
	24		bot 1	bot 3	bot 4	bot 5	bot 7	bot 8	bot 8	bot 9	bot 10	bot 11							

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							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		13	3050	7.3	2.753	BOTTOM VENT RESET	1									
2		14	3091	7.2	2.784		2									
3		15A	1407	7.1	2.782		3	15B	3047	7.2						
4		16	3194	7.2	2.799		4				2.785					
5		17A	3114	7.2	2.816		5	17B	621	7.3	2.816					
6		18	620	7.3	2.837		6									
7		19	3106	7.4	2.898		7									
8		20	3096	7.7	3.007		8									
9		21	3089	7.9	3.380		9									
10		22	3068	9.0	3.783		10									
11		23	3146	9.5	4.261		11									
12		24	3110	10.1	4.698		12									
13		25A	3147	10.7	4.875		13	25B	3065	10.6	4.875					
14		26	3093	11.2	5.378		14									
15		27	745	10.9	5.834		15									
16		28	435	10.6	5.816		16									
17							17									
18							18									
19		13	14	15A	15B	16	17B	18	19	20	21					
20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY					
21		SC69	SC69	SC69	SC69	SC69	SC69	SC69	SC69	SC69	SC69					
22		2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083					
23		b-5 m	600 m	500 m	500 m	400 m	300 m	300 m	250 m	200 m	150 m	100 m				
24		bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9				

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		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:	2020-083						1	1	29	206	7.1	2.728								1											
Event:	25						2	4	32	3173	7.2	2.803							2												
Station:	SC61						3	5	33A	3116	7.2	2.844	→						3	33B	3090	7.2	2.844								
Event Date (Local):	02/9/2020						4	6	34	2015	7.2	2.891							4												
Analysis Date (Local):	09.10.20						5	7	35	3036	7.3	2.906							5												
Analyst:	MG						6	8	36	1422	7.5	2.985							6												
Stdization Date (Local):	07.10.20						7	9	37	712	7.7	3.146							7												
KIO ₃ N:	0.0118246						8	10	38	1416	8.2	3.341							8												
Standard Titer:	04804627						9	11	39	2094	9.5	4.181							9												
Blank Titer:	0.000544						10	13	41	3054	10.4	4.754							10												
THIO N:	0.246457						11	14	42A	2025	11.1	5.155	→						11	42B	1408	11.2	5.153								
Sample Flask Water Seal?	Yes						12	15	43	3010	11.3	5.292							12												
Reagent Change?	MnCl ₂						13	16	44	458	11.5	5.540	11.5°C						13												
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						14	17	45	1442	10.3	6.066							14												
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						15												15												
	KIO ₃						16												16												
	THIO						17												17												
Notes:	SHARK						18												18												
							19												19												
							20												20												

29	32	33A	33B	34	35	36	37	38	39	41	42A	42B	43	44	45
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
SC61	SC61	SC61	SC61	SC61	SC61	SC61	SC61	SC61	SC61	SC61	SC61	SC61	SC61	SC61	SC61
2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083
b-5 m	400 m	300 m	300 m	250 m	200 m	150 m	100 m	75 m	50 m	30 m	20 m	20 m	10 m	5 m	0 m
bot 1	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 13	bot 14	bot 14	bot 15	bot 16	bot 17

Turtle

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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:	2020-083	1		48	3090	8.3	1.750	←	1					
Event:	34	2							2					
Station:	HECS4	3							3					
Event Date (Local):	10 Oct 2020	4		51	3091	9.0	2.671	←	4					
Analysis Date (Local):	10.10.20	5		52	1407	10.8	4.356	←	5					
Analyst:	ME	6							6					
Stdization Date (Local):	10.10.20	7		54	3047	11.9	5.862	←	7	54	3194	12.0	5.865	NO WATER
KIO ₃ N:	0.0118246	8		55	3114	12.0	5.788	← 11.9	8					
Standard Titer:	0.480463	9		56	621	11.9	5.689	← 11.9	9					
Blank Titer:	0.000513	10		57	620	11.8	5.692	← 11.8	10					
THIO N:	0.24642	11		58	3106	11.8	5.690	←	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:	TURTLE	19		48	51	52	54A ●	54B ●	55	56	57	58		
		20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
		21		HECS4	HECS4	HECS4	HECS4	HECS4	HECS4	HECS4	HECS4	HECS4		
		22		2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083		
		23		b-5 m	75 m	50 m	30 m	30 m	20 m	10 m	5 m	0 m		
		24		bot 1	bot 4	bot 5	bot 7	bot 7	bot 8	bot 9	bot 10	bot 11		

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 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		61	3089	7.4	2.502		1									
2							2									
3							3									
4		64	3066	8.1	3.151	OVERTITRATE OFF SCALE? + AGAIN? → Redraw due to chem dis 8.2	4	3646	3146	8.1	3.110	SHOULD HAVE PUT DUP ONTO NEXT BOTTLE				
5		65	3110	8.8	4.083		5									
6		66	3147	11.7	5.528		6									
7							7									
8		68	3093	11.8	5.705		8									
9		69	745	11.8	5.712		9									
10		70	435	11.8	5.715		10									
11		71	3084	11.8	5.719		11									
12		72	3209		5.715	ASSUMING 11.8	12									
13							13									
14							14									
15							15									
16							16									
17							17									
18							18									
Notes: TURTLE Reagent Change? ☒ MnCl ₂ (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																
19		61	* 64A	* 64B	65	66	68	69	70	71	72					
20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY					
21		HECS7	HECS7	HECS7	HECS7	HECS7	HECS7	HECS7	HECS7	HECS7	HECS7					
22		2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083					
23		b-5 m	100 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m	0 m					
24		bot 1	bot 4	bot 4	bot 5	bot 6	bot 8	bot 9	bot 10	bot 11	bot 12					

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1	X	75A	1223	7.5	2.636	Adjusted bottom cap stop leaks	1					
2		85					2					
3							3					
4		78	3023	9.7	4.099		4					
5		79	3199	10.6	4.724		5					
6							6					
7		81	3062	11.4	5.128		7					
8		82	3018	11.7	5.442	OVER TITRATE BAD CURVE AT TOP	8					
9		83	3117	11.5	5.840		9					
10		84A	3161	11.4	5.795		10	84B	3132	11.4	5.793	
11		85	3053	11.4	5.794		11					
12							12					
13							13					
14							14					
15							15					
16							16					
17							17					
18							18					
19		75	78	79	81	82	83	84A	84B	85		
20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
21		HECS8	HECS8	HECS8	HECS8	HECS8	HECS8	HECS8	HECS8	HECS8		
22		2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083		
23		b-5 m	75 m	50 m	30 m	20 m	10 m	5 m	5 m	0 m		
24		bot 1	bot 4	bot 5	bot 7	bot 8	bot 9	bot 10	bot 10	bot 11		

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Cruise and Analysis Information							OXY-1					OXY-2				
Cruise Number:	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: 2020-083	1		154	3060	6.9	2.384		1								
Event: 51	2	4	157	304	7.4	2.744		2								
Station: CHAT 3	3	5	158	1407	8.3	3.261		3								
Event Date (Local): 10 Oct 20	4	6	159	304	9.7	3.924		4								
Analysis Date (Local): 11.10.20	5	8	161	3194	10.0	4.311		5								
Analyst: MG 10.10.20	6	9	162A	3114	10.3	4.763	→	6	162B	621	10.3	4.698				
Stdization Date (Local): 10.10.20	7	10	163	620	10.3	4.764		7								
KIO ₃ N: 0.018246	8	11	164	3106	10.4	4.959		8								
Standard Titer: 0.480463	9	12	165	3096	10.2	5.602		9								
Blank Titer: 0.000513	10	13	166	3089	10.1	5.965		10								
THIO N: 0.24642	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								
	16							16								
NOTE NEW BATCH IN LOG BOOK	17							17								
	18							18								
Notes: Turtle	19		154	157	158	159	161	162A	162B	163	164	165	166			
	20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
	21		Chat3	Chat3	Chat3	Chat3	Chat3	Chat3	Chat3	Chat3	Chat3	Chat3	Chat3			
	22		2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083			
	23		b-5 m	100 m	75 m	50 m	40 m	30 m	30 m	20 m	10 m	5 m	0 m			
	24		bot 1	bot 4	bot 5	bot 6	bot 8	bot 9	bot 9	bot 10	bot 11	bot 12	bot 13			

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TURTLE

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				
1		231	3066	7.2	2.420		1									
2							2									
3							3									
4		234	3146	7.3	2.442		4									
5		235	3110	8.1	2.802		5									
6		236	3147	8.7	3.228		6									
7		237	3065	9.7	4.003	→	7	237	3093	9.7	4.001					
8							8									
9		239	745	10.5	4.686		9									
10		240	435	10.7	4.930		10									
11		241	3084	10.7	5.444		11									
12		242	3209	10.5	5.723		12									
13		243	1223	10.3	5.832		13									
14							14									
15							15									
16							16									
17							17									
18							18									
19		231	234	235	236	237A	239	240	241	242	243					
20		OXY	OXY	OXY	OXY	* OXY	OXY	OXY	OXY	OXY	OXY					
21		CH16	CH16	CH16	CH16	CH16	CH16	CH16	CH16	CH16	CH16					
22		2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083					
23		b-5 m	150 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m	0 m					
24		bot 1	bot 4	bot 5	bot 6	bot 7	bot 9	bot 10	bot 11	bot 12	bot 13					

Notes:

HAS BEEN FAIRLY
CALM SO HOPEFULLY
THIS WILL BE NO PROBLEM
8 HOURS W NO WATER

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Cruise Number:	2020-083						1		270	425	8.1	2.554		1						
Event:	62						2							2						
Station:	CHAT2						3							3						
Event Date (Local):	11.10.20						4		273	1465	8.8	2.933		4						
Analysis Date (Local):	11.10.20						5		274	690	8.9	3.266		5						
Analyst:	MG						6		275	429	9.6	3.814		6						
Stdization Date (Local):	10.10.20						7		276	1087	10.7	4.638		7						
KIO ₃ N:	0.0118246						8							8						
Standard Titer:	0.480463						9		278	1378	11.0	4.866		9						
Blank Titer:	0.000513						10		279	196	11.2	5.256	→	10	279B	933	11.3	5.256		
THIO N:	0.24642						11		280	3008	11.4	5.547		11						
Sample Flask Water Seal?	Yes						12		281	1015	11.4	5.596		12						
	No						13		282	569	11.3	5.604		13						
Reagent Change?	MnCl ₂						14		283	3007	11.2	5.595		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:	TREE SWALLOW.						19		270	273	274	275	276	278	279A	279B	280	281	282	283
							20		OXY	OXY	OXY	OXY	OXY	OXY	X OXY	X OXY	OXY	OXY	OXY	OXY
							21		Chat2	Chat2	Chat2	Chat2	Chat2	Chat2	Chat2	Chat2	Chat2	Chat2	Chat2	Chat2
							22		2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083
							23		b-5 m	150 m	100 m	75 m	50 m	40 m	30 m	30 m	20 m	10 m	5 m	0 m
							24		bot 1	bot 4	bot 5	bot 6	bot 7	bot 9	bot 10	bot 10	bot 11	bot 12	bot 13	bot 14

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Cruise and Analysis Information							OXY-1					OXY-2				
Cruise Number:	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			
2020083	1		342	2016	9.4	3.064		1								
Event: 69	2							2								
Station: EHAT 1	3							3								
Event Date (Local): 11.10.20	4		345	2015	9.2	3.049		4								
Analysis Date (Local): 11.10.20	5		346	3090	9.8	3.147		5								
Analyst: MG	6		347A	3116	10.2	3.782		6	347B	3173	10.2	3.780				
Stdization Date (Local): 10.10.20	7							7								
KIO ₃ N: 0.0118246	8		349	3036	10.8	4.409		8								
Standard Titer: 0.480463	9		350	2025	11.1	4.663		9								
Blank Titer: 0.000513	10		351	3054	11.3	4.963		10								
THIO N: 0.24642	11		352	2094	11.8	5.486		11								
Sample Flask Water Seal? ☒ Yes ☐ No	12		353	1416	10.7	6.632		12								
Reagent Change? MnCl ₂	13							13								
(Please circle reagent that was changed prior to sampling and standardization)	14							14								
NOTE NEW BATCH IN LOG BOOK	15							15								
	16							16								
	17							17								
	18							18								
Notes: SHARK	19		342	345	346	347A	347B	349	350	351	352	353				
	20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY				
	21		Chat1	Chat1	Chat1	Chat1	Chat1	Chat1	Chat1	Chat1	Chat1	Chat1				
	22		2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083				
	23		b-5 m	100 m	75 m	50 m	50 m	30 m	20 m	10 m	5 m	0 m				
	24		bot 1	bot 4	bot 5	bot 6	bot 6	bot 8	bot 9	bot 10	bot 11	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: December 2019

Cruise and Analysis Information							OXY-1					OXY-2				
Cruise Number:	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			
2020-083	1		401	557	6.9	2.268		1								
Event: 75	2							2								
Station: PI 1	3							3								
Event Date (Local): 11.10.20	4		404A	2014	6.9	2.313	→	4	404B	339	6.9	2.271				
Analysis Date (Local): 11.10.20	5		405	658	6.9	2.257		5								
Analyst: MG	6		406	730	6.9	2.314		6					418 OXY PI1			
Stdization Date (Local): 10.10.20	7		407	3051	7.0	2.314		7								
KIO ₃ N: 0.0118246	8		408	1035	7.1	2.304		8								
Standard Titer: 0.482463	9		409	931	7.2	2.432		9					417 OXY PI1			
Blank Titer: 0.000513	10		410	3040	7.5	2.707		10								
THIO N: 0.24642	11		411	3176	8.2	3.198		11								
Sample Flask Water Seal? ☒ Yes	12		412	1472	9.5	3.783		12					416B OXY PI1			
	13							13								
Reagent Change? MnCl ₂	14		414	3118	10.4	4.600		14								
(Please circle reagent that was changed prior to sampling and standardization)	15		415	1402	10.6	4.855	NO WATER	15								
NOTE NEW BATCH IN LOG BOOK	16		416A	3025	10.4	5.431	→	16	416B	2056	10.4	5.426				
	17		417	3067	10.1	5.858		17					416A OXY PI1			
	18		418	3068	9.7	6.075		18								

Notes:	401	404	404B	405	406	407	408	409	410	411	412	414	415
MARLIN	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	PI1	PI1	PI1	PI1	PI1	PI1	PI1	PI1	PI1	PI1	PI1	PI1	PI1
	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083
	B-5 m	500M	500 m	400 m	300 m	250 m	200 m	150 m	100 m	75 m	50 m	30 m	20 m
	bot 1	Bot 4 A	bot 4B	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 14	bot 15

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



Tree Swallow

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:	2020-83						1		450	425	7.3	2.883		1						
Event:	9.3						2		451	/				2						
Station:	065						3		452	/				3						
Event Date (Local):	12.10.20						4		453	1465	7.2	2.917		4						
Analysis Date (Local):	12.10.20						5		454A	690	7.2	2.982		5	454B	429	7.2	2.980		
Analyst:	HG						6		455	2087	7.2	3.038		6						
Stdization Date (Local):	10.10.20						7		456	1378	7.2	3.115		7						
KIO ₃ N:	0.0118246						8		457	196	7.2	3.102		8						
Standard Titer:	0.480463						9		458	933	7.4	3.082		9						
Blank Titer:	0.000513						10		459	3008	7.5	3.151		10						
THIO N:	0.24642						11		460	1015	7.8	3.327		11						
Sample Flask Water Seal?	Yes						12		461	/				12						
	No						13		462	569	8.8	3.806		13						
Reagent Change?	MnCl ₂						14		463	3007	8.9	3.964		14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		464	2000	8.6	10.200	OVERTITRATE x 2 FORGOT MAG BAR OOPS !!	15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16		465A	1053	9.0	5.330		16	465B	2069	7.0	5.335		
	KIO ₃						17		466	691	9.1	5.936		17						
	THIO						18							18						
Notes:	19	450	453	454A	454B	455	456	457	458	459	460	462	464	465	466	467	468	469	470	471
	20	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	21	Ob5	Ob5	Ob5	Ob5	Ob5	Ob5	Ob5	Ob5	Ob5	Ob5	Ob5	Ob5	Ob5	Ob5	Ob5	Ob5	Ob5	Ob5	Ob5
	22	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083
	23	B-5 m	400 m	300 m	300 m	250 m	200 m	150 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m	2 m	1 m	0.5 m	0.2 m	0.1 m
	24	bot 1	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 13	bot 14	bot 15	bot 16	bot 17	bot 18	bot 19	bot 20	bot 21

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:	2020083						1		494	425	9.6	3.415		1						
Event:	100						2							2						
Station:	OGCH46						3							3						
Event Date (Local):	13-10-20						4		497	146	9.9	3.555		4						
Analysis Date (Local):	15-10-20						5		498	690	10.1	3.726		5						
Analyst:	ME						6		499A	429	10.7	4.266	→	6	499B	2087	10.7	4.267		
Stdization Date (Local):	15-10-20						7							7						
KIO ₃ N:	0.0118248						8		501	1378	10.7	4.478		8						
Standard Titer:	0.4799396						9		502	196	10.3	4.436		9						
Blank Titer:	0.0005431						10		503	933	10.3	4.657		10						
THIO N:	0.246741						11		504	3008	10.5	4.916		11						
Sample Flask Water Seal?	Yes						12		505	1015	10.3	5.186		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:	CLIFF SWALLOW						19		494	497	498	499A	499B	501	502	503	504	505		
							20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
							21		OGCH46	OGCH46	OGCH46	OGCH46	OGCH46	OGCH46	OGCH46	OGCH46	OGCH46	OGCH46		
							22		2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083		
							23		b-5 m	100 m	75 m	50 m	50 m	30 m	20 m	10 m	5 m	0 m		
							24		bot 1	bot 4	bot 5	bot 6	bot 6	bot 8	bot 9	bot 10	bot 11	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: December 2019

Cruise and Analysis Information							OXY-1					OXY-2						
Cruise Number:	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					
2020083	1		568	456	7.4	2.780		1										
Event: 171	2		569	2098	7.5	3.363		2										
Station: K151	3		570	611	7.8	3.168		3										
Event Date (Local): 15.10.20	4							4										
Analysis Date (Local): 15.10.20	5		572	3029	7.9	3.451		5										
Analyst: MG	6							6										
Stdization Date (Local): 15.10.20	7		574	2007	8.0	3.747		7										
KIO ₃ N: 0.0118246	8		575	3041	8.8	4.009		8										
Standard Titer: 0.47994	9		576A	3155	8.6	4.038	→	9	576B	3120	8.6	4.040						
Blank Titer: 0.00054	10		577	622	8.7	3.995		10										
THIO N: 0.246741	11		578	3044	8.9	3.985		11										
Sample Flask Water Seal? ☒ Yes ☐ No	12		579	3101	9.4	6.134		12										
	13		580	3078	9.3	6.421		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:	568	569	570	572	574	575	576A	576B	577	578	579	580
CADIPODOSAURUS	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	KIT1	KIT1	KIT1	KIT1	KIT1	KIT1	KIT1	KIT1	KIT1	KIT1	KIT1	KIT1
	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083
	B-5 m	150 m	100 m	75 m	50 m	30 m	20 m	20 m	15 m	10 m	5 m	0 m
	bot 1	bot 2	bot 3	bot 5	bot 7	bot 8	bot 9	bot 9	bot 10	bot 11	bot 12	bot 13

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



BARN SWALLOW

Last Updated: December 2019

Cruise and Analysis Information							Nisk ID		Nisk Int	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: 2020-083	1			586	425	7.4	2.867								1						
Event: 196	2			587	1465	7.4	2.952								2						
Station: FOC1	3			588A	690	7.4	2.991	→							3	588B	429	7.4	3.000		
Event Date (Local): Oct. 15, 2020	4			589	2087	7.4	3.060	ASSUMING TEMP							4						
Analysis Date (Local): 16. 10. 20	5			590	1378	7.5	3.115								5						
Analyst: MG	6			591	196	7.7	3.061								6						
Stdization Date (Local): 15. 10. 20	7			592	933	7.9	3.110								7						
KIO ₃ N: 0.0118246	8			593	3008	8.0	3.357								8						
Standard Titer: 0.47994	9			594A	1015	9.1	4.026	→							9	594B	569	9.1	4.032		
Blank Titer: 0.00054	10			595	3007	9.4	4.276								10						
THIO N: 0.246741	11			596	2000	9.2	4.418								11						
Sample Flask Water Seal? ☒ Yes	12			597	1053	9.3	4.528								12						
	13			598	2069	9.2	5.912								13						
Reagent Change? MnCl ₂	14														14						
(Please circle reagent that was changed prior to sampling and standardization)	15														15						
	16														16						
NOTE NEW BATCH IN LOG BOOK	17														17						
	18														18						

Notes:	586	587	588A	588B	589	590	591	592	593	594A	594B	597	595	596	598
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	FOC1	FOC1	FOC1	FOC1	FOC1	FOC1	FOC1	FOC1	FOC1	FOC1	FOC1	FOC1	FOC1	FOC1	FOC1
	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083
	b-5 m	300 m	250 m	250 m	200 m	150 m	100 m	75 m	50 m	30 m	30 m	5 m	20 m	10 m	0 m
	bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 9	bot 12	bot 10	bot 11	bot 13

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.

IN BOX OUT OF ORDER BUT CORRECTED IN ANALYSIS

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: 2020-083	1			609	425	9.0	2.930							1					
Event: 233	2													2					
Station: JPS7	3													3					
Event Date (Local): 17.10.20	4			612	1465	9.9	3.147							4					
Analysis Date (Local): 17.10.20	5			613A	690	9.8	3.767	→ 9.9 C						5	613B	429	9.9	3.764	
Analyst: MG	6			614	2087	11.0	4.418							6					
Stdization Date (Local): 15.10.20	7			616										7					
KIO ₃ N: 0.0118246	8			616	1378	12.4	5.880	→ 12.4 C						8					
Standard Titer: 0.47994	9			617	196	12.4	5.887							9					
Blank Titer: 0.00054	10			618A	933	12.4	5.884	→						10	618B	3008	12.4	5.890	
THIO N: 0.246741	11			619	1015	12.4	5.890							11					
Sample Flask Water Seal? Yes	12			620	569	12.3	5.895							12					
Reagent Change? MnCl ₂	13													13					
(Please circle reagent that was changed prior to sampling and standardization)	14													14					
NOTE NEW BATCH IN LOG BOOK	15													15					
	16													16					
	17													17					
	18													18					

Notes:	609	612	613A	613B	614	616	617	618A	618B	619	620
FAIRY TERN	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	JPS7	JPS7	JPS7	JPS7	JPS7	JPS7	JPS7	JPS7	JPS7	JPS7	JPS7
	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083
	b-5 m	100 m	75 m	75 m	50 m	30 m	20 m	10 m	10 m	5 m	0 m
	bot 1	bot 4	bot 5	bot 5	bot 6	bot 8	bot 9	bot 10	bot 10	bot 11	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: 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: 2020-083	1		623	456	8.0	1.954							THIS WAS RUN AS FLASK 2098 BECAUSE TITRATE	1					
Event: 237	2												SREWED UP RUNNING NOTHING STOPPED THIO	2					
Station: JPS4	3												FORGOT TO RESET BOTTLER NUMBER	3					
Event Date (Local): Oct 17, 2020	4		626A	2098	8.1	2.150							→	4	626B	611	8.1	2.151	
Analysis Date (Local): 18.10.20	5		627	3029	8.1	2.156								5					
Analyst: MG	6		628	2007	8.2	2.218								6					
Stdization Date (Local): 18.10.20	7		629	3041	8.4	2.324								7					
KIO ₃ N: 0.0118246	8		630	3155	9.3	3.148								8					
Standard Titer: 0.4799396	9		631	3120	9.9	3.535								9					
Blank Titer: 0.0005965	10		632	622	9.6	4.149								10					
THIO N: 0.246769	11													11					
Sample Flask Water Seal? Yes	12		634A	3044	11.1	5.028							→	12	634B	3101	11.1	5.028	
Reagent Change? MnCl ₂	13		635	3078	11.3	5.294								13					
(Please circle reagent that was changed prior to sampling and standardization)	14		636	3048	11.4	5.474								14					
NOTE NEW BATCH IN LOG BOOK	15		637	3131	11.3	5.483								15					
	16		638	3079	11.3	5.482								16					
	17													17					
	18													18					

Notes:	623	626A	626B	627	628	629	630	631	632	634A	634B	635	636
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	JPS4	JPS4	JPS4	JPS4	JPS4	JPS4	JPS4	JPS4	JPS4	JPS4	JPS4	JPS4	JPS4
	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083
	b-5 m	300 m	300 m	250 m	200 m	150 m	100 m	75 m	50 m	30 m	30 m	20 m	10 m
	bot 1	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 12	bot 12	bot 13	bot 14

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.

637 OXY JPS4 2020-083 5 m bot 15
638 OXY JPS4 2020-083 0 m bot 16

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)	643A OXY	643B OXY
Cruise Number:	2020-083	1		641	557	8.2	2.202	OVERTITRATE → STEPPED CURVE, NO BUBBLES	1										Juan2	Juan2
Event:	239	2							2										2020-083	2020-083
Station:	JUAN2 4	3		643A	2014			NO BOTTLE 3 → SFL BOTTLE	3	643B	339								b-5 m	b-5 m
Event Date (Local):	17-01/20	4		644	658	8.1	2.182		4										bot 3	bot 3
Analysis Date (Local):	18.10.20	5		645	730	8.5	2.442	OVERTITRATE → LATE IN CURVE	5											
Analyst:	MCg	6		646	3051	9.1	3.074	→	6	646B	2086	9.1	3.074	Dvp e end						
Stdization Date (Local):	18.10.20 0.6118246	7		647	1035	9.9	3.505		7											
KIO ₃ N:	0.47994	8		648	931	9.9	4.025		8											
Standard Titer:	0.0005965	9							9											
Blank Titer:		10		650A	3040	11.0	4.426	→	10	650B	3176	11.0	4.428	OVERTITRATE LATE IN CURVE						
THIO N:	0.246769	11		651	1472	11.1	4.760		11											
Sample Flask Water Seal?	Yes	12		652	3118	11.2	5.288		12											
	No	13		653	1402	11.2	5.440		13											
Reagent Change?	MnCl ₂	14		654	3025	11.1	5.376		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:	641 OXY	644 OXY	645 OXY	646 OXY	646B OXY	647 OXY	648 OXY	650A OXY	650B OXY	651 OXY	652 OXY	653 OXY	654 OXY
Shark. NO ACTUALLY THAT IS A SWORDFISH	Juan2	Juan2	Juan2	Juan2	Juan2	Juan2	Juan2	Juan2	Juan2	Juan2	Juan2	Juan2	Juan2
	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083
	b-5 m	200 m	150 m	100 m	200 m	75 m	50 m	30 m	30 m	20 m	10 m	5 m	0 m
	bot 1	bot 4	bot 5	bot 6	bot 7	bot 8	bot 10	bot 10	bot 11	bot 12	bot 13	bot 14	

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.

MARLIN WOULD ALSO BE CORRECT

XIPHIAS ALSO ACCEPTABLE

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:	2020-083	1		657	2065	8.6	2.053							1						
Event:	242 JPS1	2												2						
Station:	JPS1	3												3						
Event Date (Local):	17.10.20	4		660	3133	8.9	2.343							4						
Analysis Date (Local):	18.10.20	5		661	3158	9.6	2.903							5						
Analyst:	MG	6		662	3005	10.3	3.662							6						
Stdization Date (Local):	18.10.20	7												7						
KIO ₃ N:	0.0118246	8		664	2045	10.5	3.952							8						
Standard Titer:	0.47994	9		665A	1406	10.7	4.085	OVERTITRATE → MESSY CURVE						9	665B	3037	10.6	4.078		
Blank Titer:	0.000597	10		666	3003	10.7	4.248							10						
THIO N:	0.246769	11		667	3059	10.8	4.365							11						
Sample Flask Water Seal?	Yes No	12		668	3080	10.8	4.474							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:	657 OXY JPS1 2020-083 b-5 m bot 1	19		660										19						
		20		661										20						
		21		662										21						
		22		664										22						
		23		665A										23						
		24		665B										24						
		25		666										25						
		26		667										26						
		27		668										27						

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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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:	2020083	1		682	425	10.3	3.091						1					
Event:	244	2											2					
Station:	JPN3	3											3					
Event Date (Local):	17.10.20	4		685	1465	10.3	3.254						4					
Analysis Date (Local):	18.10.20	5		686	690	10.5	3.501						5					
Analyst:	MG	6		687	429	10.8	4.046						6					
Stdization Date (Local):	18.10.20	7											7					
KIO ₃ N:	0.0118246	8		689A	2087	10.8	4.258 →						8	689B	1378	10.8	4.260	
Standard Titer:	6.47994	9		690	196	10.8	4.321						9					
Blank Titer:	0.0005965	10		691	933	11.0	4.446						10					
THIO N:	0.246769	11		692	3008	11.1	4.639						11					
Sample Flask Water Seal?	Yes	12		693	1015	11.2	4.863						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:	BARN SWALLOW	19		682	685	686	687	689A	689B	690	691	692	693					
		20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY					
		21		JPN3	JPN3	JPN3	JPN3	JPN3	JPN3	JPN3	JPN3	JPN3	JPN3					
		22		2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083	2020-083					
		23		b-5 m	100 m	75 m	50 m	30 m	30 m	20 m	10 m	5 m	0 m					
		24		bot 1	bot 4	bot 5	bot 6	bot 8	bot 8	bot 9	bot 10	bot 11	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.