

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:	2020-028	1		14	3134	10.5	3.514		1					
Event:	13	2		15	1059	10.4	3.529		2					
Station:	16	3		16A	1054	10.3	3.502	→ Many particles in sample Nisk	3	16B	3021	10.4	3.506	- Did not dispense on first attempt. Absorbed and re-ran titration. Sample sat ~2 minutes.
Event Date (Local):	18/06/2020	4		17	3104	10.3	3.425	titration. OT was a bit better.	4					
Analysis Date (Local):	18 June 2020	5		18	3170	10.7	3.513		5					
Analyst:	KS	6		19	3150	11.0	3.862		6					
Stdization Date (Local):	17 June 2020	7		20A	639	11.5	4.229	→	7	20B	3056	11.6	4.229	- Yay!
KIO ₃ N:	0.018 120864	8		21	3034	11.8	4.490		8					
Standard Titer:	0.49255	9		22	2081	12.2	4.682		9					
Blank Titer:	0.00051	10		23	1002	12.9	4.939		10					
THIO N:	0.24562	11		24	3035	17.0	6.876		11					
Sample Flask Water Seal?	Yes	12							12					
	No	13							13					
Reagent Change?	MnCl ₂	14		14					14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		16					15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		2020-028					16					
	KIO ₃	17		Bot-5 m	125 m	100 m	100 m	75 m	50 m	40 m	30 m	30 m	20 m	10 m
	THIO	18		bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9
		19		24										
Notes:		20		OXY										
		21		16										
		22		2020-028										
		23		0 m										
		24		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.

Sea Turtle

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:	2020-028						1		25	3050	10.8	2.945		1						
Event:	16						2		26	3091	10.5	3.390		2						
Station:	12						3		27A	1407	10.4	3.397	→	3	27B	3047	10.3		NO SAMPLE?	
Event Date (Local):	18 June 2020						4		28	3194	10.3	3.673		4						
Analysis Date (Local):	19 June 2020						5		29	3114	10.3	3.708		5						
Analyst:	MOIRA						6		30	621	10.3	3.785		6						
Stdization Date (Local):	17 June 2020						7		31A	620	10.2	3.805	→	7	31B	3106	10.2	3.804		
KIO ₃ N:	0.0120864						8		32	3096	10.7	3.596		8						
Standard Titer:	0.49255						9		33	3089	10.7	3.574		9						
Blank Titer:	0.00051						10		34	3066	11.0	3.805		10						
THIO N:	0.24562						11		35	3146	11.1	3.953		11						
Sample Flask Water Seal?	Yes						12		36A	3110	11.3	4.110	→	12	36B	3147	11.4	4.115		
	No						13		37	3065	12.0	4.379		13						
Reagent Change?	MnCl ₂						14		38	3093	14.9	5.763		14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		39	745	16.1	6.435		15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16		40	435	18.8	7.141		16						
	KIO ₃						17							17						
	THIO						18							18						
Notes:							19							19						
							20							20						
							21							21						
							22							22						
							23							23						
							24							24						

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

25	26	27A	27B	29	28	30	31A	31	32	OXY	OXY	OXY	OXY	30B
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028
Bot-5 m	300 m	250 m	250 m	175 m	200 m	150 m	125 m	125 m	100 m	75 m	50 m	40 m	30 m	30 m
bot 1	bot 2	bot 3	bot 3	bot 5	bot 4	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 12
37	38	39	40											
OXY	OXY	OXY	OXY											
12	12	12	12											
2020-028	2020-028	2020-028	2020-028											
20 m	10 m	5 m	0 m											
bot 13	bot 14	bot 15	bot 16											

EMPTY TIRSK

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: 2020-028	1		41	2089	10.5	3.279								1						
Event: 19	2		42	371	10.3	3.479								2						
Station: 9	3		43	3009	10.2	3.666								3						
Event Date (Local): 19/06/2020	4		44	3100	10.3	3.559								4						
Analysis Date (Local): 19.06.20	5		45A	2043	10.7	3.629								5	45B	2019	10.7	3.624		
Analyst: MORA	6		46	3060	11.1	4.011								6						
Stdization Date (Local): 17.06.20	7		47	2027	11.5	4.067								7						
KIO ₃ N: 0.0120864	8		48	3032	11.7	4.206								8						
Standard Titer: 4.9255 0.00035	9		49	2047	12.7	4.736								9						
Blank Titer: 0.00051	10		50	3072	14.2	5.641								10						
THIO N: 0.24562	11		51	3030	15.5	6.486								11						
Sample Flask Water Seal? ☒ Yes	12		52A	3109	17.3	7.167								12	52B	505	17.5	7.395	TAKEN LATER DOPS LOOK LIKE NOT	
☐ No	13													13					WORTH IT	
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: ☒ SENDER	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.

41	42	43	44	45A	45B	46	47	48	49	OXY	51	52A	52B
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	9	OXY	OXY	OXY
9	9	9	9	9	9	9	9	9	9	2020-028	9	9	9
2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	10 m	2020-028	2020-028	2020-028
Bot-5 m	150 m	125 m	100 m	75 m	75 m	50 m	40 m	0 m	20 m	bot 10	5 m	0 m	0 m
bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9		bot 11	bot 12	bot 12

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:	2020-024						1		53	2089	10.8	3.653		1						
Event:	22						2		54	371	10.1	3.671		2						
Station:	6						3		55	3009	10.0	3.796		3						
Event Date (Local):	19/06/2020						4		56A	3100	10.0	3.863		4	56B	2043	10.0	3.866		
Analysis Date (Local):	19.06.20						5		57	2019	10.0	3.932		5						
Analyst:	MORA						6		58	3000	10.6	3.538		6						
Stdization Date (Local):	17.06.20						7		59	2027	11.1	3.964		7						
KIO ₃ N:	0.0120864						8		60	3032	11.4	4.185		8						
Standard Titer:	0.4925457						9		61	2047	11.8	4.387		9						
Blank Titer:	0.0005097						10		62A	3072	12.2	4.670		10	62B	3030	12.1	4.658	?	
THIO N:	0.245623						11		63	3109	12.9	4.990		11						
Sample Flask Water Seal?	Yes						12		64	505	13.8	5.563		12						
	No						13		65	3049	17.8	7.435		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						
	Bender						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.

53	54	55	56A	56B	57	58	59	60	61	62A	62B	63	64	65
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028
Bot-5 m	175 m	150 m	125 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m	20 m	10 m	5 m	0 m
bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10	bot 11	bot 12	bot 13

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: 2020-024	1			66A	216	10.7	3.051		1	66B	3173	10.7	3.049						
Event: 25	2			67	3116	10.5	2.933		2										
Station: 3	3			68	3090	10.5	3.213		3										
Event Date (Local): 19/06/2020	4			69	2015	10.4	3.447		4										
Analysis Date (Local): 19.06.20	5			70	3036	10.3	3.619		5										
Analyst: M. W. R. A.	6			71	1422	10.1	3.754		6										
Stdization Date (Local): 17.06.20	7			72A	712	10.0	3.976		7	72B	1416	10.1	3.960	?					
KIO ₃ N: 0.0120864	8			73	2014	9.9	3.906		8										
Standard Titer: 0.4925457	9			74	3054	10.1	3.786		9										
Blank Titer: 0.0005097	10			75	2025	10.8	3.761		10										
THIO N: 0.245623	11			76	1408	11.0	3.943		11										
Sample Flask Water Seal? ☒ Yes	12			77	3010	11.3	4.120		12										
	13			78	458	10.5	4.343		13										
Reagent Change? MnCl ₂	14			79	1442	14.0	5.842		14										
(Please circle reagent that was changed prior to sampling and standardization)	15			80B	3036	15.3	6.311		15	80B	5162	15.3	6.309	DID B FIRST. SWITCHED ON LABEL					
NOTE NEW BATCH IN LOG BOOK	16			81	3094	18.2	6.117		16										
	17								17										
	18								18										
Notes:	19								19										
Great White	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.

[illegible]

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Sampled by Moira and Kenny.
fell b/w watches.

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:	2020-028						1		82A	3134	10.6	3.286		1	82B	1059	10.8	3.287	
Event:	26						2		83	1054	10.5	3.315		2					
Station:	2						3		84	3021	10.4	3.673		3					
Event Date (Local):	19/06/2020						4		85	3104	10.1	3.915		4					
Analysis Date (Local):	19 June 2020						5		86	3170	10.1	4.106		5					
Analyst:	KS						6		87A	3150	9.9	4.116		6	87B	639	9.9	4.115	IB Before A
Stdization Date (Local):	19 June 2020						7		88	3056	10.0	4.025		7					
KIO ₃ N:	0.0120864						8		89	3034	10.2	3.949		8					
Standard Titer:	0.49261						9		90	2084	10.8	3.936		9					
Blank Titer:	0.00051						10		91	1002	11.2	3.963		10					
THIO N:	0.24551						11		92	3035	11.4	4.085		11					
Sample Flask Water Seal?	Yes						12		93	647	11.8	4.186		12					
	No						13		94A	3061	13.7	5.884		13	94B	673	13.8	5.884	
Reagent Change?	MnCl ₂						14		95	2063	15.1	6.426		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		96	3028	18.2	6.782		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16							16					
	KIO ₃						17							17					
	THIO						18							18					
Notes:							19							19					
Octopus							20							20					
							21							21					
							22							22					
							23							23					
							24							24					

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

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

* Should be event 27 not 28*

2020-028	2020-028	2020-028	2020-028	2020-028	2020-028
30 m	20 m	10 m	10 m	5 m	0 m
bot 11	bot 12	bot 13	bot 13	bot 14	bot 15

Great White

Dissolved Oxygen Analysis Log SheetInstitute 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:	2020-028						1		97	2016	10.3	3.574		1						
Event:	35						2		98	3173	10.2	3.600		2						
Station:	28						3		99	3116	10.2	3.639		3						
Event Date (Local):	19 June 2020						4		100A	3090	10.1	3.870	→	4	100B	2015	10.1	3.869		
Analysis Date (Local):	19 June 2020						5		101	3036	10.1	3.923		5						
Analyst:	KS						6		102	1422	10.0	4.003		6						
Stdization Date (Local):	19 June 2020						7		103	712	10.1	4.068		7						
KIO ₃ N:	0.0120864						8		104A	1416	9.9	4.100	→	8	104B	2094	10.0	4.101		
Standard Titer:	0.49261						9		105	3054	9.9	3.969		9						
Blank Titer:	0.00051						10		106	2025	10.1	3.696		10						
THIO N:	0.24551						11		107	1408	10.2	3.701		11						
Sample Flask Water Seal?	Yes						12		108A	3010	10.7	4.092	→	12	108B	458	10.8	4.105	→ E.P. may be late. Must check	
	No						13		109	1442	12.2	5.264		13						
Reagent Change?	MnCl ₂						14		110	3038	13.3	5.690		14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		111	3162	15.4	6.812	- Floaters. Plankton. low O2V	15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						16		112	3094	17.6	7.207	- " " low O2V	16						
	KIO ₃						17							17						
	THIO						18							18						
Notes:							19		97	98	99	100A	100B	101	102	103	104A	104B	105	106
							20		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
							21		27	27	27	27	27	27	27	27	27	27	27	27
							22		2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028
							23		Bot-5 m	300 m	250 m	200 m	200 m	175 m	150 m	125 m	100 m	100 m	75 m	50 m
							24		bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 8	bot 9	bot 10
							25		107	108A	108B	109	110	111	112					
							26		OXY	OXY	OXY	OXY	OXY	OXY	OXY					
							27		27	27	27	27	27	27	27					
							28		2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028					
							29		40 m	30 m	30 m	20 m	10 m	5 m	0 m					
							30		bot 11	bot 12	bot 12	bot 13	bot 14	bot 15	bot 16					

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

the integrity check and explain this in the comments column.

Jaws

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:	2020-028						1	✓	117	2016	16.4	3.574	LEAKY BOTTOM RESET	1					
Event:	44						2		118	3173	10.2	3.459		2					
Station:	39						3		119	3116	10.3	3.545		3					
Event Date (Local):	19 Jun 2020						4		120	3090	10.1	3.647		4					
Analysis Date (Local):	20 Jun 2020						5		121A	2015	10.2	3.837 →		5	121B	3036	10.3	3.835	
Analyst:	MOIRA						6		122	1422	10.1	3.991		6					
Stdization Date (Local):	19 June 2020						7		123	712	10.1	4.120		7					
KIO ₃ N:	0.0120864						8		124	1416	10.1	4.173		8					
Standard Titer:	0.49261						9		125	2094	10.1	4.118		9					
Blank Titer:	0.00051						10		126A	3054	10.3	4.029 →		10	126B	2025	10.3	4.032	
THIO N:	0.24551						11		127	1468	10.6	4.060		11					
Sample Flask Water Seal?	Yes						12		128	3010	10.7	4.285		12					
	No						13		129	458	10.8	4.400		13					
Reagent Change?	MnCl ₂						14		130	1442	11.2	4.474		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15		131	3038	12.3	5.227		15					
	H ₂ SO ₄						16		132	3162	13.8	6.772		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃						17		133A	3094	15.7	7.239 →		17	133B	3143	15.7		NO CHANCE TO OVER TITRATE WOULD NOT COME TO END POINT?
	THIO						18												
Notes:	19	117	118	119	120	121A	121B	122	123	124	125	126A	126B	127					
	20	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY					
	21	39	39	39	39	39	39	39	39	39	39	39	39	39					
	22	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028					
	23	Bot-5 m	350 m	300 m	250 m	200 m	200 m	175 m	150 m	125 m	100 m	75 m	75 m	50 m					
	24	bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10	bot 11					
	25	128	129	130	131	132	133A	133B											
	26	OXY	OXY	OXY	OXY	OXY	OXY	OXY											
	27	39	39	39	39	39	39	39											
	28	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028											
	40 m	30 m	20 m	10 m	5 m	0 m	0 m												
	bot 12	bot 13	bot 14	bot 15	bot 16	bot 17	bot 17												

Bottle integrity: First test the top vent (V) by o s the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Turtle



Last Updated: 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:	2020-028	1		134	3050	10.2	3.545							1						
Event:	50	2		135	3091	10.0	3.568	-E.P. late. Over-titrated and ok						2						
Station:	42	3		136	1407	10.0	3.723							3						
Event Date (Local):	20.06.20	4		137	3047	10.0	3.927							4						
Analysis Date (Local):	20 Jun 2020	5		138 ^A	3194	9.9	3.979	→						5	138B	3114	10.0	3.976		
Analyst:	KS	6		139	621	9.9	4.088	-EP late. OT all good.						6						
Stdization Date (Local):	19 Jun 2020	7		140	620	10.0	4.189							7						
KIO ₃ N:	0.0120864	8		141	3106	10.4	4.148							8						
Standard Titer:	0.49261	9		142	3096	10.3	4.125							9						
Blank Titer:	0.00051	10		143	3089	10.9	4.181							10						
THIO N:	0.24551	11		144A	3066	11.1	4.225	→						11	144B	3146	11.1	4.222		
Sample Flask Water Seal?	☒ Yes	12		145	3110	11.3	4.441							12						
	No	13		146	3147	11.7	4.544							13						
Reagent Change?	MnCl ₂	14		147	3065	11.8	4.756							14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		148	3093	13.7	5.550							15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		149	745	13.7	-99.0	titration stalled @ 1.44V too much sediment.						16						
	KIO ₃			134	135	136	137	138A	138B	139	140	141	142	143	144A					
	THIO			OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY					
Notes:	TURTLE			42	42	42	42	42	42	42	42	42	42	42	42					
				2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028					
				Bot-5 m	300 m	250 m	200 m	175 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m					
				bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11					
				144B	145	146	147	148	149	23										
				OXY	OXY	OXY	OXY	OXY	OXY	24										
				42	42	42	42	42	42											
				2020-028	2020-028	2020-028	2020-028	2020-028	2020-028											
				40 m	30 m	20 m	10 m	5 m	0 m											
				bot 11	bot 12	bot 13	bot 14	bot 15	bot 16											

Bottle integrity: First test the top vent (V)

te 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:	2020-028	1		151	3134	10.6	~99	Sample lost. Analyst spilled	1						
Event:	54	2		152	1054	10.7	3.833	sample when removing stopper	2						
Station:	46	3		153A	1054	10.7	3.938	→	3	153B	3021	10.7	3.933		
Event Date (Local):	20 June 2020	4		154	3104	10.7	4.070		4						
Analysis Date (Local):	20 June 2020	5		155	3170	10.2	4.089		5						
Analyst:	RS	6		156	3150	10.4	4.267		6						
Stdization Date (Local):	19 June 2020	7		157A	639	10.9	4.340	→	7	157B	3056	10.9	10.7	4.340 (used this temp)	
KIO ₃ N:	0.0128864	8		158	3034	11.2	4.433		8						
Standard Titer:	0.49261	9		159	2084	12.1	4.882		9						
Blank Titer:	0.00051	10		160	1002	13.5	5.582		10						
THIO N:	0.24551	11		161	3055	14.6	6.129	incorrect sample ID (160) and flask	11						
Sample Flask Water Seal?	Yes	12		162	647	15.6	6.530	max O2V = 2.09 but ok. (1002)	12						
Reagent Change?	MnCl ₂	13		151	152	153A	153B	154	155	156	157A	157B	158	159	161
(Please circle reagent that was changed prior to sampling and standardization)	NaOH	14		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		46	46	46	46	46	46	46	46	46	46	46	46
	KIO ₃	16		2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028
	THIO	17		Bot-5 m	150 m	125 m	125 m	100 m	75 m	50 m	40 m	40 m	30 m	20 m	5 m
Notes:		18		bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 11
Octopus		19		160	162										
		20		OXY	OXY										
		21		46	46										
		22		2020-028	2020-028										
		23		10 m	0 m										
		24		bot 10	bot 12										

Bottle integrity: First test the top vent (V) by opening 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:	2020-028						1		163	2016	10.6	3.735		1						
Event:	62						2		164	3173	-99	-99	skip	2						
Station:	56						3		165A	3116	-99	-99	skip	3	165B	3090	-99	-99	skip	shallower than expected.
Event Date (Local):	20 June 2020						4		166	2015	10.5	3.771		4						
Analysis Date (Local):	20 June 2020						5		167	3036	10.6	3.887		5						
Analyst:	KS						6		168	1422	10.7	4.033		6						
Stdization Date (Local):	19 June 2020						7		169A	712A	10.7	4.090	→	7	169B	4116	10.8	4.088		
KIO ₃ N:	0.0120864						8		170	2094	10.9	4.227		8						
Standard Titer:	0.49261						9		171	3054	10.9	4.278		9						
Blank Titer:	0.00051						10		172	2025	11.1	4.368		10						
THIO N:	0.24551						11		173	1408	11.1	4.435		11						
Sample Flask Water Seal?	Yes						12		174	3010	11.3	4.555		12						
	No						13		175	458	11.6	4.649		13						
Reagent Change?	MnCl ₂						14		176	1442	11.9	4.750		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		163	166	167	168	169A	169B	170	171	172	173	174	175
	KIO ₃						17		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	THIO						18		56	56	56	56	56	56	56	56	56	56	56	56
Notes:							19		2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028
							20		Bot-5 m	150 m	125 m	100 m	75 m	75 m	50 m	40 m	30 m	20 m	10 m	5 m
							21		bot 1	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13
							22													
							23													
							24													

~~164
OXY
56
2020-028
200 m
bot 2~~

~~165A
OXY
56
2020-028
175 m
bot 3~~

~~165B
OXY
56
2020-028
175 m
bot 3~~

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.

176
OXY
56
2020-028
0 m
bot 14



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: 2020-028	1			196A	3134	9.5	2.843	→	1	196B	1059	9.6	2.797				
Event: 75	2			197	1054	9.3	2.859		2								
Station: 62	3			198	3021	9.6	2.868		3								
Event Date (Local): 21 June 2020	4			199	3104	10.6	3.971		4								
Analysis Date (Local): 21 June 2020	5			200	3170	11.0	4.264		5								
Analyst: KS	6			201	3150	11.1	4.362		6								
Stdization Date (Local): 21 June 2020	7			202	639	11.1	4.480	OT - Dancing bubble in sample.	7								
KIO ₃ N: 0.0120864	8			203A	3056	11.1	4.504	→	8	203B	3034	11.1	4.503	- E.P. late. OT ok.			
Standard Titer: 0.49282	9			204	2084	11.2	4.565		9								
Blank Titer: 0.00092	10			205	1002	11.3	4.648		10								
THIO N: 0.24576	11			206	3035	11.3	4.657		11								
Sample Flask Water Seal? ☒ Yes ☐ No	18			196A	196B	197	198	199	200	201	202	203A	203B	204	205	206	
	19			OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
Reagent Change? ☒ MnCl ₂ ☐ NaI/NaOH	20			62	62	62	62	62	62	62	62	62	62	62	62	62	
(Please circle reagent that was changed prior to sampling and standardization)	21			2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	
NOTE NEW BATCH IN LOG BOOK	22			Bot-5 m	Bot-5 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m	20 m	10 m	5 m	0 m	
	23			bot 1	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 8	bot 9	bot 10	bot 11	
	24																
Notes: New MnCl ₂	18																
#1819 MIX	19																
mixed on 24 Jan 2020	20																
	21																
	22																
	23																
	24																

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: 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: 2020-028	1		211	5061	9.1	2.385								1					
Event: 79	2		212	673	9.5	2.803								2					
Station: 65	3		213A	2063	9.9	3.279 →								3	213B	3028	9.9	3.278	
Event Date (Local): 21 June 2020	4		214	631	10.1	3.634								4					
Analysis Date (Local): 21 June 2020	5		215	325	10.2	3.677								5					
Analyst: KS	6		216	657	10.5	3.816								6					
Stdization Date (Local): 21 June 2020	7		217	658	10.5	3.879 - 1 ml E.P. OT ✓								7					
KIO ₃ N: 0.0180864	8		218	1312	11.5	5.003								8					
Standard Titer: 0.49282	9		219	462	11.5	5.023								9					
Blank Titer: 0.00092	10		220	2097	11.6	5.046								10					
THIO N: 0.24576	11																		
Sample Flask Water Seal? ☒ Yes ☐ No	12																		
Reagent Change? MnCl ₂	13																		
(Please circle reagent that was changed prior to sampling and standardization)	14																		
NOTE NEW BATCH IN LOG BOOK	15																		
	16																		
	17																		
	18																		
Notes: OCUP1 - TULLY	19																		
	20																		
	21																		
	22																		
	23																		
	24																		

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: 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: 2020-028		1		221	2016	9.1	2.349		1					
Event: 94		2		222	3173	9.1	2.389		2					
Station: adcp		3		223	316	9.6	2.994		3					
Event Date (Local): 21 June 2020		4		224	3090	9.8	3.302		4					
Analysis Date (Local): 21 June 2020		5		225	2015	10.0	3.459		5					
Analyst: KS		6		226	3036	10.1	3.582		6					
Stdization Date (Local): 21 June 2020		7		227A	1422	10.4	3.801	→	7	227B	712	10.4	3.814	
KIO ₃ N: 0.0120864		8		228	1416	11.3	4.846		8					
Standard Titer: 0.49282		9		229	2094	11.5	5.067		9					
Blank Titer: 0.00092		10		230	3054	11.6	5.136		10					
THIO N: 0.24576		11							11					
Sample Flask Water Seal? Yes			221	222	223	224	225	226	227A	227B	228	229	230	
No			OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
Reagent Change? MnCl ₂			adcp	adcp	adcp	adcp	adcp	adcp	adcp	adcp	adcp	adcp	adcp	
(Please circle reagent that was changed prior to sampling and standardization)			2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	
NOTE NEW BATCH IN LOG BOOK			Bot-5 m	100 m	75 m	50 m	40 m	30 m	20 m	20 m	10 m	5 m	0 m	
			bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	
		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							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: 2020-028	1		231	2025	8.8	1.967								1					
Event: 87	2		232	1408	8.8	1.982								2					
Station: 69	3		233	3010	8.9	2.029								3					
Event Date (Local): 21 June 2020	4		234	458	9.1	2.184								4					
Analysis Date (Local): 21 June 2020	5		235A	1442	9.2	2.433								5	235B	3038	9.2	2.434	
Analyst: KS	6		236	3162	9.5	2.767								6					
Standardization Date (Local): 21 June 2020	7		237	3044	9.7	3.018								7					
KIO ₃ N: 0.0120864	8		238	3413	10.5	4.004								8					
Standard Titer: 0.49282	9		239	3175	11.0	4.523								9					
Blank Titer: 0.00092	10		240	570	11.1	4.675								10					
THIO N: 0.24576	11		241A	3444	11.5	4.784								11	241B	321	11.4	4.783	no water seal
Sample Flask Water Seal? ☒ Yes	12		242	3442	11.6	4.789								12					
	13													13					

Reagent Change?	MnCl ₂	231	232	234	233	235A	235B	236	237	238	239	240	241A	241B
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	69	69	69	69	69	69	69	69	69	69	69	69	69
	KIO ₃	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028
	THIO	Bot-5 m	150 m	100 m	125 m	75 m	75 m	50 m	40 m	30 m	20 m	10 m	5 m	5 m
Notes:		bot 1	bot 2	bot 4	bot 3	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 11
SHARK		242												
		OXY												
		69												
		2020-028												
		0 m												
		bot 12												

Bottle integrity: First test the top vent (V

bot 12 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: 2020-028		1		244	3050	8.4	1.150		1					
Event: 92		2		245	3091	8.4	1.954		2					
Station: 72		3		246	1407	8.4	1.949		3					
Event Date (Local): 21 JUNE 20		4		247A	3047	8.3	1.958	→	4	247B	3194	8.4	1.951	
Analysis Date (Local): 21 June 20		5		248	3114	8.6	1.998		5					
Analyst: KS		6		249	621	9.1	2.517		6					
Stdization Date (Local): 21 June 2020		7		250	620	9.4	2.837		7					
KIO ₃ N: 0.0120864		8		251A	3106	9.7	3.158	→	8	251B	3096	9.7	3.158	
Standard Titer: 0.49		9		252	3089	10.2	3.683		9					
Blank Titer: 0.0009282		10		253	3066	10.6	4.111		10					
THIO N: 0.24576		11		254	3146	11.1	4.929		11					
Sample Flask Water Seal? ☒ Yes ☐ No		12		255	3110	11.3	5.255		12					
		13		256	3147	11.4	5.329		13					

Reagent Change?	MnCl ₂	244	245	246	247A	247B	248	249	250
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	H ₂ SO ₄	72	72	72	72	72	72	72	72
NOTE NEW BATCH IN LOG BOOK	KIO ₃	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028
	THIO	Bot-5 m	175 m	150 m	125 m	125 m	100 m	75 m	50 m
Notes:		bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7
		251A	251B	252	253	254		255	256
		OXY	OXY	OXY	OXY	OXY		OXY	OXY
		72	72	72	72	72		72	72
		2020-028	2020-028	2020-028	2020-028	2020-028		2020-028	2020-028
		40 m	40 m	30 m	20 m	10 m		5 m	0 m
		bot 8	bot 8	bot 9	bot 10	bot 11		bot 12	bot 13

Bottle integrity: First test the top vent

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: 2020-028	1		258	209	8.3	2.083		1					1					
Event: 102 0	2		259	371	8.4	2.233		2					2					
Station: 102 0	3		260	5009	8.5	2.345		3					3					
Event Date (Local): 22 June 20	4		261A	3100	8.5	2.019 →		4	261B	2043	8.5	2.016	4					
Analysis Date (Local): 22-06-20	5		262	2019	8.6	1.847		5					5					
Analyst: MORA	6		263	3000	8.9	2.536		6					6					
Stdization Date (Local): 21-06-20	7		264	2027	9.2	2.919		7					7					
KIO ₃ N: 0.0120864	8		265	3052	9.5	3.251		8					8					
Standard Titer: 0.492516	9		266	2047	10.3	3.695		9					9					
Blank Titer: 0.0009242	10		267	3072	10.7	4.259	7	10					10					
THIO N: 0.245761	11		268	3050	10.8	4.254		11					11					
Sample Flask Water Seal? Yes	12		269A	3109	11.6	5.258 →		12	269B	505	11.6	5.094	12					
No	13		270	3049	12.0	5.546		13					13					
Reagent Change? MnCl ₂	14		271	3057	12.0	5.772		14					14					
(Please circle reagent that was changed prior to sampling and standardization)	15		258	259	260	261A	261B	262	263	264	265	266	267	268				
NOTE NEW BATCH IN LOG BOOK	16		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY				
	17		102	102	102	102	102	102	102	102	102	102	102	102				
	18		2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028				
	19		Bot-5 m	200 m	175 m	150 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m				
	20		bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11				
	21		269A	269B	270	271												
	22		OXY	OXY	OXY	OXY												
	23		102	102	102	102												
	24		2020-028	2020-028	2020-028	2020-028												

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

10 m
bot 12
10 m
bot 12
5 m
bot 13
0 m
bot 14

t. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

Notes:

Bender



268

A DUES 267 B

30M

Bot 10

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: 2020-028	1		272A	3050	8.3	1.972	→	1	272B	3091	8.4	1.967		2					
Event: 105	2		273	1407	8.3	1.967		2						3					
Station: 75	3		274	3047	8.3	1.919		3						4					
Event Date (Local): 22 June 20	4		275	3194	8.6	1.693		4						5					
Analysis Date (Local): 22.06.20	5		276	3114	8.6	1.806		5						6					
Analyst: Moira	6		277	621	8.7	2.038		6						7	278B	3106	9.1	2.391	
Stdization Date (Local): 21.06.20	7		278A	620	9.1	2.386	→	7						8					
KIO ₃ N: 0.0120864	8		279	3096	9.8	3.123		8						9					
Standard Titer: 0.492816	9		280	3089	10.1	3.453		9						10					
Blank Titer: 0.0009242	10		281	3066	10.4	3.752		10						11					
THIO N: 0.245761	11		282	3146	10.7	4.054		11						12					
Sample Flask Water Seal? Yes	12		283	3110	11.3	4.858		12						13					
No	13		284	3147	11.8	5.482		13						14					
Reagent Change? MnCl ₂	14		285	3065	12.6	5.827		14											
(Please circle reagent that was changed prior to sampling and standardization)	15	272A	272B	273	274	275	276	277	278A	278B	279	280	281						
NOTE NEW BATCH IN LOG BOOK	16	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY						
	17	75	75	75	75	75	75	75	75	75	75	75	75						
	18	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028	2020-028						
Notes: Turbidity	19	Bot-5 m	Bot-5 m	200 m	175 m	150 m	125 m	100 m	75 m	75 m	50 m	40 m	30 m						
	20	bot 1	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10						
	21	282	283	284	285									21					
	22	OXY	OXY	OXY	OXY									22					
	23	75	75	75	75									23					
	24	2020-028	2020-028	2020-028	2020-028									24					

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

20 m
bot 11

10 m
bot 12

5 m
bot 13

0 m
bot 14

t. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.