

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

EVENT NUMBER

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:	2021-001			1		1		574	8.4	4.693						1		28		339	8.4	4.763					
Event:	3			2		214		2014	8.4	4.763						2											
Station:	Har059			3		3		658	8.3	4.885						3											
Event Date (Local):	2021-001			4		4		730	8.3	4.963						4											
Analysis Date (Local):	01-02-21			5		5		307	8.3	5.056						5											
Analyst:	Me			6		6		1027	8.3	5.104						6											
Standardization Date (Local):	01-02-21			7		7		721	8.3	5.106						7											
KIO ₃ N:	0.018246			8		8		844	8.3	5.122						8		88		3176	8.3	5.122					
Standard Titer:	0.4797229			9		9		1442	8.3	5.166						9											
Blank Titer:	0.0033393			10		10		818	8.3	5.208						10											
THIO N:	0.246596			11		11		1402	8.3	5.333						11											
Sample Flask Water Seal?	Yes			12		12		805	8.3	5.260						12											
Reagent Change?	No			13		13		8056	8.3	5.263						13											
(Please circle reagent that was changed prior to sampling and standardization)	NaOH			14												14											
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			15												15											
	KIO ₃			16												16											
	THIO			17												17											
				18												18											

1	2A	2B	3	4	5	6	7	8A	8B	9	10	11	12	13
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
Har059	Har059	Har059	Har059	Har059	Har059	Har059	Har059	Har059	Har059	Har059	Har059	Har059	Har059	Har059
2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001
Bot-5 m	200 m	200 m	150 m	100 m	80 m	60 m	50 m	40 m	40 m	30 m	20 m	10 m	5 m	0 m
bot 1	bot 2	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 8	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 why in the comments column.

Swordfish

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information				N/S				N/S				N/S																																							
				ID	Int	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments				ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments																																
Cruise Number: 2021-001				1	✓	14	308	8.2	2.773					1																																					
Event: 06				2	✓	15	303	8.2	2.852					2																																					
Station: JF2				3	✓	16	1418	8.5	3.728					3																																					
Event Date (Local): 30.08.21				4	✓	17A	1457	8.5	4.497					4	17B	1023	8.5	4.502																																	
Analysis Date (Local): 01.02.21				5	✓	18	3045	8.3	4.921					5																																					
Analyst: MG				6	✓	19	437	8.3	5.091					6																																					
Stratization Date (Local): 01.02.21				7	✓	20	1432	8.2	5.342					7																																					
KIO ₃ N: 0.018246				8	✓	21	3031	8.2	5.440					8																																					
Standard Titer: 0.4797229				9	✓	22A	535	8.1	5.651					9	22B	1401	8.1	5.653																																	
Blank Titer: 0.0003393				10	✓	23	3044	8.1	5.678					10																																					
THIO N: 0.246596				11	✓	24	1400	8.1	5.883					11																																					
Sample Flask Water Seal? <u>(Yes)</u>				12										12																																					
Reagent Change? <u>MnCl₂</u>				13										13																																					
(Please circle reagent that was changed prior to sampling and standardization)				14										14																																					
<u>NaOH</u>				15										15																																					
<u>H₂SO₄</u>				16										16																																					
NOTE NEW BATTERY IN LOG BOOK				17										17																																					
KIO ₃				18										18																																					
THIO				19										19																																					
				20										20																																					
Notes: <u>SWORDFISH</u>																																																			
14				15				16				17B				17A				18				19				20				21				22A				22B				23				24			
OXY				OXY				OXY				OXY				OXY				OXY				OXY				OXY				OXY				OXY				OXY				OXY				OXY			
JF2				JF2				JF2				JF2				JF2				JF2				JF2				JF2				JF2				JF2				JF2				JF2				JF2			
2021-001				2021-001				2021-001				2021-001				2021-001				2021-001				2021-001				2021-001				2021-001				2021-001				2021-001				2021-001				2021-001			
Bot-5 m				150 m				100 m				80 m				80 m				60 m				50 m				30 m				20 m				10 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 9				bot 10				bot 11			

Summ.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information				Nisk ID				Nisk ID																	
Cruise Number:	2021-001	Nisk ID	1	Sample ID	25A	Flask 1	3050	Draw Temp 1 (°C)	8.3	OXY-1 (mL/L)	0.736	OXY-1 Comments		Nisk ID	1	Sample ID	25B	Flask 2	3091	Draw Temp 2 (°C)	8.5	OXY-2 (mL/L)	0.736	OXY-2 Comments	
Event:	10	Nisk ID	2	Sample ID	26	Flask 1	1407	Draw Temp 1 (°C)	8.8	OXY-1 (mL/L)	5.963	OXY-1 Comments		Nisk ID	2	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
Station:	P1	Nisk ID	3	Sample ID	27	Flask 1	3047	Draw Temp 1 (°C)	8.6	OXY-1 (mL/L)	6.312	OXY-1 Comments		Nisk ID	3	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
Event Date (Local):	31.01.21	Nisk ID	4	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	4	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
Analysis Date (Local):	01.02.21	Nisk ID	5	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	5	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
Analyst:	MG	Nisk ID	6	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	6	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
Standardization Date (Local):	01.02.21	Nisk ID	7	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	7	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
KIO ₃ N:	0.0118246	Nisk ID	8	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	8	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
Standard Titer:	0.4797229	Nisk ID	9	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	9	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
Blank Titer:	0.0003393	Nisk ID	10	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	10	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
THIO N:	0.246596	Nisk ID	11	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	11	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
Sample Flask Water Seal?	Yes	Nisk ID	12	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	12	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
Reagent Change?	No	Nisk ID	13	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	13	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	Nisk ID	14	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	14	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	Nisk ID	15	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	15	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
	KIO ₃	Nisk ID	16	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	16	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
	THIO	Nisk ID	17	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	17	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
		Nisk ID	18	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	18	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
		Nisk ID	19	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	19	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
		Nisk ID	20	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	20	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
		Nisk ID	21	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	21	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
		Nisk ID	22	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	22	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
		Nisk ID	23	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	23	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	
		Nisk ID	24	Sample ID		Flask 1		Draw Temp 1 (°C)		OXY-1 (mL/L)		OXY-1 Comments		Nisk ID	24	Sample ID		Flask 2		Draw Temp 2 (°C)		OXY-2 (mL/L)		OXY-2 Comments	

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				NIS K ID	NIS Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	NIS K ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2021-001			1		39	3114	8.6	3.352		1					
Event:	13			2		40	621	8.7	3.605		2					
Station:	P2			3		41	620	9.1	4.692		3					
Event Date (Local):	31 JAN 2021			4		42	3106	9.1	4.709		4					
Analysis Date (Local):	01-02-21			5		43	3096	9.1	6.389		5					
Analyst:	MG			6		44A	3089	9.1	6.410	NO WATER	6	44B	3086	9.1	6.410	
Standardization Date (Local):	01-02-21			7		45	3146	9.1	6.420		7					
KIO ₃ N:	0.0118246			8		46	3110	9.1	6.424		8					
Standard Titer:	0.4797229			9							9					
Blank Titer:	0.0003393			10							10					
THIO N:	0.246596			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)	Na ₂ /NaOH			15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16							16					
	KIO ₃			17							17					
	THIO			18							18					
Notes:	39 OXY P2			40 OXY P2	41 OXY P2	42 OXY P2	43 OXY P2	44A OXY P2	44B OXY P2	45 OXY P2	46 OXY P2					
	2021-001 Bot-10 m			2021-001 100 m	2021-001 75 m	2021-001 75 m	2021-001 50 m	2021-001 25 m	2021-001 25 m	2021-001 10 m	2021-001 5 m					
Bottle Integrity: First test the top vent (V) by uncapping the water spigot (S) then test the spigot by opening the vent. Mark X in the appropriate column if either tests are integrity check and explain this in the comments column.																

Leve

**Institute of Ocean Sciences
Water Properties Group**



105

Last Updated: December 2019

Cruise and Analysis Information					NIS k ID	NIS k ID	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	NIS k ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2021-001	1				82	425	4.0	0.408			1					
Event:	37	2				23	1165	4.1	0.346			2					
Station:	P14 (Deep)	3				84	690	4.1	0.337			3					
Event Date (Local):	03.02.21	4				85A	429	4.6	0.28	→		4	85B	269	4.7	0.28	
Analysis Date (Local):	2Feb2021	5				86	1348	5.4	0.263			5					
Analyst:	MB	6				87	196	5.9	0.563			6					
Standardization Date (Local):	3Feb2021	7				88	938	6.7	1.429			7					
KIO ₃ N:	0.0118246	8				89	3008	7.4	1.629			8					
Standard Titer:	0.4796	9				90A	1015	7.7	1.572	→		9	90B	569	7.7	1.569	
Blank Titer:	0.0003	10				91	3007	7.9	1.646			10					
THIO N:	0.246742	11				92	2002	8.0	1.681			11					
Sample Flask Water Seal?	(Yes) No	12				93	1053	8.1	1.632			12					
Reagent Change?	(Please circle reagent that was changed prior to sampling and standardization)	13				94A	2069	8.2	2.039	→		13	94B	691	8.2	2.034	
	NaI/NaOH	14				95	2040	8.4	2.628	LEAKING. SKINNY SIGHT?		14					
	H ₂ SO ₄	15				96	109	8.2	3.908			15					
	KIO ₃	16				97	94	8.7	6.001	*NO FLASK '95' FOR IN 109 TOLAN		16					
	THIO	17				98	2075	8.7	6.487			17					
Notes:		18				99	2068	8.7	6.483	RAN WITHOUT THIO TO FLASK, AGGT		18					
		19				100	650	8.7	6.482			19					
		20										20					
		21										21					
		22										22					
		23										23					

Swollen

Small 1620

Dissolved Oxygen Analysis Log Sheet



Swordfish

144
OXY
P8
2021-001
5 m
bot 24

143
OXY
P8
2021-001

Cruise and Analysis Information									
Cruise Number:	2021-001	NIS k ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	NIS k ID
Event:	94	1		121	557	4.5	1.336		1
Station:	P8	2		122	204	4.8	0.66		2
Event Date (Local):	4Feb2021	3		123A	359	5.7	0.401	→	3
Analysis Date (Local):	4Feb2021	4		124	730	5.5	0.284		4
Analyst:	MR	5		125	3051	5.7	0.276		5
Standardization Date (Local):	3Feb2021	6		126	1035	5.8	0.269		6
KIO ₃ N:	0.0118246	7		127A	981	6.3	1.142	→	7
Standard Titer:	0.4796	8		128	3176	6.7	1.937		8
Blank Titer:	0.0003	9		129	1472	7.1	2.247		9
THIO N:	0.246742	10		130	3118	7.5	2.585		10
Sample Flask Water Seal?	(Yes) No	11		131	1402	7.6	2.936		11
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	12		132	3025	7.7	3.384		12
Notes:		13		133	2056	7.9	4.158		13
		14		134	3068	8.4	5.436		14
		15		135	3067	8.9	6.506		15
		16		136A	3013	8.9	6.512	→	16
		17		137	1457	8.9	6.516		17
		18		138	1023	8.9	6.513		18
		19		139	3075	8.9	6.507		19
		20		140	437	8.9	6.516		20
		21		141	1432	8.9	6.519		21
		22		142	3031	8.9	6.516		22
		23		143	528	8.9	6.521		23
				144	1401	8.9	6.521		

127A : lower spigot (S) then test

121	122	123A	123B	124	125	126	127A	127B	128	129	130	131	132	133	134	135	136A	136B	137	138
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8
2000 m	1500 n	1250 n	1250 f	1000	800 m	126	400 n	400 m	300 m	250 n	200 f	175 n	150 n	125 n	100 m	75 m	60 n	60 m	50 m	40 m

[illegible]

240
Dissolved Oxygen Analysis Log Sheet

OXY
Institute of Ocean Sciences
Water Properties Group

SWALLAN
IOS

Last updated: December 2019

Cruise and Analysis Information										NIS K ID	NIS K ID	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	NIS K ID	NIS K ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
2021-001										1		240	475	2.1	2.782		1							
Bot-10 m										2		241	1465	2.1	3.116		2							
bot 1										3		242	690	2.2	2.634	OT-2	3							
241										4		243A	4429	2.67	2.409	Found P11	4		243B	2087	2.6	2.412		
OXY										5		244	1378	2.6	1.877		5							
P16										6		245	196	2.7	1.376		6							
2021-001										7		246	933	3.1	0.606		7							
3500 m										8		247A	3008	3.5	0.340		8		247B	1015	3.5	0.342		
hot 2										9		248	569	3.8	0.304		9							
242										10		249	3007	4.3	0.343		10							
OXY										11		250	2000	4.8	0.527	OT	11							
P16										12		251	1053	5.4	1.303		12							
2021-001										13		252	2069	5.7	1.809		13							
3500 m										14		253	691	5.9	2.318	P16 upr all out	14							
bot 3										15		254	2040	6.3	2.873		15							
243A										16		255	1019	6.5	3.121		16							
OXY										17		256	94	6.7	3.236	Slow drip changed to FINE 109	17		257	2088	6.7	3.876		
P16										18		257A	2075	6.8	3.852		18		257B	2088	6.8	3.876		
2021-001										19		258	650	7.1	5.318		19							
3000 m										20		259	1470	7.6	6.705		20							
bot 4										21		260	2090	7.6	6.709		21							
243B										22		261	438	7.6	6.716		22							
OXY										23		262	3070	7.6	6.718	OT	23							
P16										24		263	3147	7.5	6.723		24							
2021-001										25		264					25							
245										26		265					26							
OXY										27		266					27							
P16										28		267					28							
2021-0										29		268					29							
2021-0										30		269					30							
2000										31		270					31							
bot 6										32		271					32							
bot 7										33		272					33							
bot 8										34		273					34							
bot 9										35		274					35							
bot 10										36		275					36							
bot 11										37		276					37							
bot 12										38		277					38							
bot 13										39		278					39							
bot 14										40		279					40							
bot 15										41		280					41							
bot 16										42		281					42							
bot 17										43		282					43							
bot 18										44		283					44							
bot 19										45		284					45							
bot 20										46		285					46							
bot 21										47		286					47							
bot 22										48		287					48							
bot 23										49		288					49							
bot 24										50		289					50							
bot 25										51		290					51							
bot 26										52		291					52							
bot 27										53		292					53							
bot 28										54		293					54							
bot 29										55		294					55							
bot 30										56		295					56							
bot 31										57		296					57							
bot 32										58		297					58							
bot 33										59		298					59							
bot 34										60		299					60							
bot 35										61		300					61							
bot 36										62		301					62							
bot 37										63		302					63							
bot 38										64		303					64							
bot 39										65		304					65							
bot 40										66		305					66							
bot 41										67		306					67							
bot 42										68		307					68							
bot 43										69		308					69							
bot 44										70		309					70							
bot 45										71		310					71							
bot 46										72		311					72							
bot 47										73		312					73							
bot 48										74		313					74							
bot 49										75		314					75							
bot 50										76		315					76							
bot 51										77		316					77							
bot 52										78		317					78							
bot 53										79		318					79							
bot 54										80		319					80							
bot 55										81		320					81							
bot 56										82		321					82							
bot 57										83		322					83							
bot 58										84		323					84							
bot 59										85		324					85							
bot 60										86		325					86							
bot 61										87		326					87							
bot 62										88		327					88							
bot 63										89		328					89							
bot 64										90		329					90							
bot 65										91		330					91							
bot 66										92		331					92							
bot 67										93		332					93							
bot 68										94		333					94							
bot 69										95		334					95							
bot 70										96		335					96							
bot 71										97		336					97							
bot 72										98		337					98							
bot 73										99		338					99							
bot 74										100		339					100							
bot 75										101		340					101							
bot 76										102		341					102							
bot 77										103		342					103							
bot 78										104		343					104							
bot 79										105		344					105							
bot 80										106		345					106							
bot 81										107		346					107							
bot 82										108		347					108							
bot 83										109		348					109							
bot 84										110		349					110							
bot 85										111		350					111							
bot 86										112		351					112							
bot 87										113		352					113							
bot 88										114		353					114							
bot 89										115		354					115							
bot 90										116		355					116							
bot 91										117		356					117							
bot 92										118		357					118							
bot 93										119		358					119							
bot 94										120		359					120							
bot 95										121		360					121							
bot 96										122		361					122							
bot 97										123		362					123							
bot 98										124		363					124							
bot 99										125		364					125							
bot 100										126		365					126							
bot 101										127		366					127							
bot 102										128		367					128							
bot 103										129		368					129							
bot 104										130		369					130							
bot 105										131		370					131							
bot 106										132		371					132							
bot 107										133		372					133							
bot 108										134		373					134							
bot 109										135		374					135							
bot 110										136		375					136							
bot 111										137		376					137							
bot 112																								

Dissolved Oxygen Analysis Log Sheet



Last Updated: December 2019

Institute of Ocean Sciences

Water Properties Group

Cruise and Analysis Information									
Cruise Number:	2021-001	NIS ID	1	NIS Int	5	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)
Event:	75		2			307	3050	2.2	2.979
Station:	P20		3			308	3051	2.2	2.861
Event Date (Local):	7 FEB 2021		4			309	3407	2.2	2.858
Analysis Date (Local):	10 FEB 2021		5			310	3047	2.3	2.477
Analyst:	MS		6			311	3154	2.5	1.935
Standardization Date (Local):	9 FEB 2021		7			312	3114	2.6	1.244
KIO ₃ N:	0.018246		8			313A	621	3.1	0.487
Standard Titer:	0.4797		9			314	3106	3.3	0.355
Blank Titer:	0.0003		10			315	3096	3.8	0.356
THIO N:	0.24644		11			316	3085	4.2	0.358
Sample Flask Water Seal?	(Yes)		12			317	3066	4.7	0.532
Reagent Change?	MnCl ₂		13			318	3146	5.3	1.049
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		14			319A	3110	5.5	1.720
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		15			320	3065	5.7	2.186
	KIO ₃		16			321	3093	6.0	2.946
	THIO		17			322	345	6.3	2.572
			18			323	435	6.5	2.788
			19			324	3084	6.7	4.993
			20			325	3289	7.3	6.631
			21			326A	1223	7.3	6.743
			22			327	3199	7.3	6.758
			23			328	3062	7.2	6.767
						329	3018	7.3	6.774
						330	3119	7.2	6.774
						331			
						332			
						333			
						334			
						335			
						336			
						337			
						338			
						339			
						340			
						341			
						342			
						343			
						344			
						345			
						346			
						347			
						348			
						349			
						350			
						351			
						352			
						353			
						354			
						355			
						356			
						357			
						358			
						359			
						360			
						361			
						362			
						363			
						364			
						365			
						366			
						367			
						368			
						369			
						370			
						371			
						372			
						373			
						374			
						375			
						376			
						377			
						378			
						379			
						380			
						381			
						382			
						383			
						384			
						385			
						386			
						387			
						388			
						389			
						390			
						391			
						392			
						393			
						394			
						395			
						396			
						397			
						398			
						399			
						400			
						401			
						402			
						403			
						404			
						405			
						406			
						407			
						408			
						409			
						410			
						411			
						412			
						413			
						414			
						415			
						416			
						417			
						418			
						419			
						420			
						421			
						422			
						423			
						424			
						425			
						426			
						427			
						428			
						429			
						430			
						431			
						432			
						433			
						434			
						435			
						436			
						437			
						438			
						439			
						440			
						441			
						442			
						443			
						444			
						445			
						446			
						447			
						448			
						449			
						450			
						451			
						452			
						453			
						454			
						455			
						456			
						457			
						458			
						459			
						460			
						461			
						462			
						463			
						464			
						465			
						466			
						467			
						468			
						469			
						470			
						471			
						472			
						473			
						474			
						475			
						476			
						477			
						478			
						479			
						480			
						481			
						482			
						483			
						484			
						485			
						486			
						487			
						488			
						489			
						490			
						491			
						492			
						493			
						494			
						495			
						496			
						497			
						498			
						499			
						500			
						501			
						502			
						503			
						504			
						505			
						506			
						507			
						508			
						509			
						510			
						511			
						512			
						513			
						514			
						515			
						516			
						517			
						518			
						519			
						520			
						521			
						522			
						523			
						524			
						525			
						526			
						527			
						528			
						529			
						530			
						531			
						532			
						533			
						534			
						535			
						536			
						537			
						538			
						539			
						540			
						541			
						542			
						543			

1000 m
2021-001
bot 1
P25
OXY

Dissolved Oxygen Analysis Log Sheet
Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information			
Cruise Number:	2021-001	NIS ID	1
Event:	84	NIS Int	2
Station:	P25	Sample ID	3
Event Date (Local):	8 Feb 2021	Flask 1	4
Analysis Date (Local):	9 Feb 2021	Draw Temp 1 (°C)	5
Analyst:	MS	bot 23	6
Standardization Date (Local):	9 Feb 2021	bot 23	7
KIO ₃ N:	0.0118246	bot 22	8
Standard Titer:	0.4797	ot 22	9
Blank Titer:	0.0053	bot 21	10
THIO N:	0.246644	bot 20	11
Sample Flask Water Seal?	Yes	bot 20	12
Reagent Change?	No	bot 19	13
(Please circle reagent that was changed prior to sampling and standardization)		bot 19	14
NOTE NEW BATCH IN LOG BOOK		bot 18	15

Cruise Number:	2021-001
Event:	84
Station:	P25
Event Date (Local):	8 Feb 2021
Analysis Date (Local):	9 Feb 2021
Analyst:	MB
Stratization Date (Local):	9 Feb 2021
KIO ₃ N:	0.0118246
Standard Titer:	0.4797
Blank Titer:	0.0003
THIO N:	0.246644
Sample Flask Water Seal?	Yes
Reagent Changed?	No
(Please circle reagent that was changed prior to sampling and standardization)	
NOTE NEW BATCH IN LOG BOOK	
KIO ₃	
THIO	

Notes:	FLUSHING
	CHARGEMENT
	- OFFSHORE

1	389A	557	3.7	0.380	
2	390A	339	3.7	0.377	
3	391A	730	3.7	0.380	
4	392A	1035	3.7	0.370	
5	393A	7040	5.2	1.201	
6	394A	1472	5.2	1.216	LATE END REAGENT
7	395A	1402	5.2	1.218	
8	396A	2056	5.2	1.219	
9	397A	3067	6.5	4.020	
10	398A	1418	6.5	4.031	
11	399A	1023	6.5	4.026	
12	400A	437	6.5	4.033	
13	401A	3031	6.5	4.029	
14	402A	1401	6.9	4.020	
15	403A	1400	6.9	4.731	
16	404A	3134	6.8	4.747	
17	405A	1054	6.8	4.748	
18	406A	3104	6.9	4.748	
19	407A	3150	7.3	6.638	
20	408A	3056	7.2	6.657	
21	409A	2084	7.3	6.659	
22	410A	3035	7.2	6.664	OT
23	411A	3061	7.3	6.674	

1	389B	2014	3.7	0.374	
2	390B	658	3.8	0.381	
3	391B	3051	3.8	0.368	
4	392B	931	3.9	0.376	
5	393B	3176	5.2	1.204	
6	394B	3118	5.2	1.213	
7	395B	3025	5.2	1.218	
8	396B	3068	5.2	1.210	
9	397B	3013	6.5	4.020	
10	398B	1457	6.5	4.030	
11	399B	3075	6.6	4.024	
12	400B	1432	6.5	4.030	
13	401B	528	6.6	4.029	
14	402B	3085	6.9	4.691	
15	403B	1473	6.9	4.733	
16	404B	1059	6.9	4.745	
17	405B	3021	6.9	4.744	
18	406B	3170	6.9	4.745	
19	407B	639	7.3	6.659	
20	408B	3034	7.3	6.664	OT
21	409B	1002	7.3	6.660	
22	410B	647	7.3	6.665	
23	411B	2063	7.9	6.675	

404B	OXY	125 m
P25	OXY	125 m
2021-001	OXY	125 m
403A	OXY	125 m
P25	OXY	125 m
2021-001	OXY	125 m

435
OXY
P26
2021-001
Bot-10 m
bot 1

2021-001
Bot-10 m
bot 1

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information										Nisk										OXY-1 Comments										OXY-2 Comments									
Cruise Number: 2021-001										Event: 92										Station: P26 (Deep)										Event Date (local): 09/02/21									
Analysis Date (local): 10/08/2021										Analysis Date (local): 10/08/2021										Standard Titer: 0.4797										Blank Titer: 0.0003									
Standardization Date (local): 10/08/2021										KIO ₃ N: 0.018246										THIO N: 0.240644										Sample Flask Water Seal? Yes									
Reagent Change? No										MnCl ₂										NaI/NaOH										H ₂ SO ₄									
(Please circle reagent that was changed prior to sampling and standardization)										KIO ₃										THIO										LOG BOOK									
Notes:										Good & ready conditions																													
2021-001										2021-001										2021-001										2021-001									
2500 m										2500 m										2500 m										2500 m									
440										440										440										440									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
2000										2000										2000										2000									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									
1250 m										1250 m										1250 m										1250 m									
1000 m										1000 m										1000 m										1000 m									
800 m										800 m										800 m										800 m									
441										441										441										441									
OXY										OXY										OXY										OXY									
P26										P26										P26										P26									
2021-001										2021-001										2021-001										2021-001									
1500										1500										1500										1500									

Dissolved Oxygen Analysis Log Sheet



Last Updated: December 2019

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				Nisk				Nisk				Nisk				Nisk							
				k				Int				V				S							
				ID				Sample ID				Flask 1				Flask 2							
								Temp 1 (°C)				OXY-1 (mL/L)				Temp 2 (°C)				OXY-2 (mL/L)			
								OXY-1 Comments								OXY-2 Comments							
Cruise Number:	2021-001			1				459A	631	6.9	6.971			1	459B	3125	6.9	6.975					
Event:	93 94			2				460A	657	6.9	6.973			2	460B	638	6.9	6.972					
Station:	PA-014			3				461A	1312	6.9	6.971			3	461B	462	6.9	6.988					
Event Date (Local):	9-Feb-2021			4										4									
Analysis Date (Local):	10-Feb-2021			5										5									
Analyst:	MS			6										6									
Salinization Date (Local):	9-Feb-2021			7										7									
KIO ₃ N:	0.018246			8										8									
Standard Titer:	0.4797			9										9									
Blank Titer:	0.0003			10										10									
THIO N:	0.246644			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)	MnCl ₂			14										14									
NOTE NEW BATCH IN LOG BOOK	NaI/NaOH			15										15									
	H ₂ SO ₄			16										16									
	KIO ₃			17										17									
	THIO			18										18									
Notes:				19										19									
				20										20									
				21										21									
				22										22									
				23										23									
				24										24									

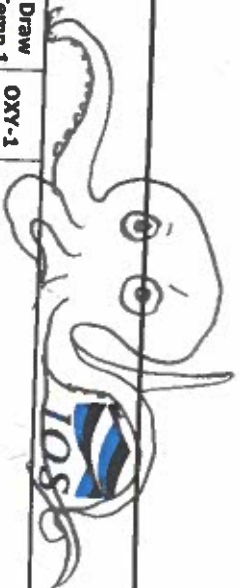
lower spigot (S) then test the spigot by opening the vent. Mark 'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

459A 459B 460A 460B 461A 461B
OXY OXY OXY OXY OXY OXY
PA-014 PA-01 PA-01' PA-01' PA-01 PA-014
2021-00 2021-0 2021-00 2021-01 2021-0 2021-001
10 m 10 m 5 m 5 m 0 m 0 m

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			
NIS K ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	NIS K ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	
1		462	3134	7.2	4.198	1					
2						2					
3						3					
4		465	1054	7.2	4.607	4					
5		466	1054	7.1	5.634	5					
6		467A	3021	6.5	6.770	6	467B	3104	6.5	6.773	
7						7					
8		469	3170	6.2	6.792	8					
9		470	3150	6.2	6.800	9					
10		471	639	6.2	6.800	10					
11		472	3056	6.2	6.801	11					
12		473	3034	6.1	6.825	12					
13						13					
14						14					
15						15					
16						16					
17						17					
18						18					

462	465	466	467A	467B	469	470	471	472	473
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
HEC1	HEC1	HEC1	HEC1	HEC1	HEC1	HEC1	HEC1	HEC1	HEC1
2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001
Bot-5 m	100 m	75 m	50 m	50 m	30 m	20 m	10 m	5 m	0 m
bot 1	bot 4	bot 5	bot 6	bot 6	bot 8	bot 9	bot 10	bot 11	bot 12

Reagent Change? ☒ Yes ☐ No

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

NOTE NEW BATCH IN LOG BOOK

THIO

18

17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

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. 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										N/S		OXY-1 Comments		N/S		OXY-2 Comments	
Cruise Number: 2021-001										K ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments		
Event: 112										1							
Station: SC69										2							
Event Date (Local): 12.02.21										3							
Analysis Date (Local): 14.02.21										4							
Analyst: MG										5							
Standardization Date (Local): 14.02.21										6							
KIO ₃ N: 0.0118246										7							
Standard Titer: 0.4799143										8							
Blank Titer: 0.0003393										9							
THIO N: 0.246643										10							
Sample Flask Water Seal? ☒ Yes										11							
Reagent Change? ☐ No										12							
MnCl ₂										13							
(Please circle reagent that was changed prior to sampling and standardization)										14							
NaI/NaOH										15							
H ₂ SO ₄										16							
NOTE NEW BATCH IN LOG BOOK										17							
KIO ₃										18							
THIO																	

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.

490 OXY SC69 2021-001 5 m bot 15 491 OXY SC69 2021-001 0 m bot 16

**Institute of Ocean Sciences
Water Properties Group**



Last Updated: December 2019

Cruise and Analysis Information									
Cruise Number:	2021-001								
Event:	117								
Station:	SC61								
Event Date (Local):	02-13-21								
Analysis Date (Local):	14.02.21								
Analyst:	MS								
Standardization Date (Local):	14.02.21								
KIO ₃ N:	0.0118246								
Standard Titer:	0.4799143								
Blank Titer:	0.0003393								
THIO N:	0.246643								
Sample Flask Water Seal?	Yes								
Reagent Change?	MnCl ₂								
(Please circle reagent that was changed prior to sampling and standardization)	H ₂ SO ₄								
NOTE NEW BATCH IN LOG BOOK	KIO ₃								
	THIO								

NIS k ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	NIS k ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1		492	557	7.5	2.050		1					
2							2					
3							3					
4		495	2014	7.4	2.413		4					
5		496	339	7.3	2.636		5					
6		497A	658	7.3	2.778		6	497B	730	7.1	2.568	
7		498	3057	7.3	3.476		7					
8		499	1035	7.2	4.482		8					
9		500	931	7.2	5.917		9					
10		501	3040	6.8	6.139		10					
11		502	3176	6.6	6.156		11					
12							12					
13		504	1472	6.5	6.157		13					
14		505	318	6.5	6.149		14					
15		506	1402	6.4	6.126		15					
16		507	3025	6.4	6.133		16					
17		508A	2056	6.4	6.153	Redrawn 6.5°C	17	508B	3068	6.5	6.167	
18							18					

492	OXY	496	497A	498	499	500	501	502	504	505	506	507	508A	508B
SC61	OXY	SC61	OXY	OXY	OXY	SC61	SC61	SC61	OXY	OXY	SC61	OXY	SC61	OXY
2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001
400 m	400 m	300 m	250 m	200 m	150 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m	0 m	0 m
bot 1	bot 4	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 17
Please indicate any instrument checks 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				NIS K ID	NIS Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	NIS K ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2021-001			1		513	3013	7.9	2.927		1					
Event:	127			2		514	1418	7.9	2.969		2					
Station:	KIT1			3		515	1457	7.9	3.717		3					
Event Date (Local):	13-02-21			4		516A	1023	7.9	4.018		4	516B	3075	8.0	4.072	?
Analysis Date (Local):	14-02-21			5		517	437	7.5	4.776		5					
Analyst:	MC			6		518	1432	7.4	4.955		6					
Salinization Date (Local):	14-02-21			7		519	3031	7.4	5.003		7					
KIO ₃ N:	0.0118246			8		520	528	7.3	5.642		8					
Standard Titer:	0.4799143			9		521	1401	7.3	5.623		9					
Blank Titer:	0.0003393			10		522	3085	7.2	5.044		10					
THIO N:	0.246643			11		523	1400	7.2	5.044		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					
513	514	515	516A	516B	517	518	519	520	521	522	523					
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY					
KIT1	KIT1	KIT1	KIT1	KIT1	KIT1	KIT1	KIT1	KIT1	KIT1	KIT1	KIT1					
2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001	2021-001					
Bot-5 m	150 m	100 m	75 m	75 m	50 m	30 m	20 m	15 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 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.

**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.

	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14

Dissolved Oxygen Analysis Log Sheet



Institute of Ocean Sciences
Water Properties Group

SARDF1514

Cruise and Analysis Information				NIS K ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	NIS K ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	20021001			1		567	557	7.3	2838		1					
Event:	157			2		568	2014	7.3	2896	→	2	568	339	7.3	2882	
Station:	FOC1			3		569	658	7.4	4140		3					
Event Date (Local):	15.02.21			4		570	730	7.5	4186		4					
Analysis Date (Local):	17Feb21			5		571	2651	7.5	4925		5					
Analyst:	MR			6		572	1035	7.5	5548		6					
Stratization Date (Local):	16Feb21			7		573	931	7.3	5874		7					
KIO ₃ N:	0.0120494			8		574	3040	6.9	6082		8					
Standard Titer:	0.4990			9		575	—				9					
Blank Titer:	0.0006			10		576	3176	6.7	6135		10					
THIO N:	0.246944			11		577	1472	6.3	6269		11					
Sample Flask Water Seal?	(Yes) No			12		578	3118	6.2	6224		12					
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			13		579	1702	6.1	6229		13					
Notes:				14		580	3085	6.2	6223		14					
				15							15					
				16							16					
				17							17					
				18							18					
				19							19					
				20							20					
				21							21					
				22							22					
				23							23					

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

[illegible]

OCTOPUS

Dissolved Oxygen Analysis Log Sheet



Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information				NIS k ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	NIS k ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2020-001				1							1					
Event: 164				2							2					
Station: HAK1				3		619	3134	7.9	4.904	OT	3					
Event Date (Local): 16-02-21				4		620	1059	7.8	6.395	Re. Draw (7.9°C)	4					
Analysis Date (Local): 17 Feb 2021				5		621A	1054	7.6	6.686	249	5	621B	3021	7.6	6.683	
Analyst: MB				6		622	3014	7.5	6.701		6					
Salinization Date (Local): 16 Feb 2021				7							7					
KIO ₃ N: 0.0120494				8		624	3170	7.5	6.718		8					
Standard Titer: 0.4890				9		625	3150	7.4	6.716		9					
Blank Titer: 0.0006				10		626	689	7.3	6.765		10					
THIO N: 0.246944				11		627	3056	7.2	6.745		11					
Sample Flask Water Seal? Yes				12		628	3034	7.2	6.758		12					
Reagent Change? No				13		629	1002	7.2	6.754		13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				14							14					
				15							15					
				16							16					
				17							17					
				18							18					
Notes:				19							19					
				20							20					
				21							21					
				22							22					
				23							23					
				24							24					

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

619 620 621A 621B 622 624 625 626 627 628 629

OXY OXY OXY OXY OXY OXY OXY OXY OXY OXY OXY

HAK1 HAK1 HAK1 HAK1 HAK1 HAK1 HAK1 HAK1 HAK1 HAK1 HAK1

2021-01 2021-01 2021-01 2021-01 2021-01 2021-01 2021-01 2021-01 2021-01 2021-01 2021-01

Bot-5 m 100 m 75 m 75 m 50 m 40 m 30 m 20 m 10 m 5 m 0 m

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Cruise and Analysis Information				NIS k ID	NIS k Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	NIS k ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2021-001				1		632	647	7.7	3.069		1					
Event: 166				2		633	3061	7.7	3.034		2					
Station: KC10				3		634	2084	7.8	2.961		3					
Event Date (Local): 16 Feb 2021				4		635	3028	7.8	3.057		4					
Analysis Date (Local): 17 Feb 2021				5		636	6031	7.8	3.443		5					
Analyst: MB				6		637	3125	7.9	5.038		6	637	657	7.9	5.024	
Standardization Date (Local): 16 Feb 2021				7		638	638	7.5	6.190	TARED w/ NEW SEAL	7					
KIO ₃ N: 0.0128494				8		639	1312	7.3	6.359		8					
Standard Titer: 0.4890				9		640	462	7.3	6.382		9					
Blank Titer: 0.0006				10		641	2097	7.2	6.421		10					
THIO N: 0.246944				11		642	2095	7.2	6.382		11					
Sample Flask Water Seal? ☒ Yes				12		643	3042	7.2	6.340		12					
				13		644	673	7.1	6.387		13					
Reagent Change? ☐ No				14		645	1050	7.1	6.369		14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK				15							15					
MnCl ₂				16							16					
NaI/NaOH				17							17					
H ₂ SO ₄				18							18					
KIO ₃				19							19					
THIO				20							20					
Notes:				21							21					
				22							22					
				23							23					

Integrity check and explain this in the comments column.

632	633	634	635	636	637A	637B	638	639	640	641	642	643	644	645
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
KC10	KC1C	KC1C	KC1C	KC10	KC10	KC10	KC1C	KC1C	KC10	KC10	KC1C	KC1C	KC1C	KC10
2021-01	2021-01	2021-01	2021-01	2021-01	2021-01	2021-01	2021-01	2021-01	2021-01	2021-01	2021-01	2021-01	2021-01	2021-001
300 f	250 m	200 n	150 n	100 n	100 m	100 m	75 m	50 n	30 m	20 m	15 m	10 m	5 m	0 m