Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

IOS

Last Updated: December 2019

Cruise and Analysis Information	
Cruise Number:	2022-075
Event:	
Station:	JS1 ~~[illegible]~~
Event Date (Local):	
Analysis Date (Local):	Oct. 24, 2022
Analyst:	KS
Stdization Date (Local):	Oct. 24, 2022
KIO_3 N:	0.0120957
Standard Titer:	0.50524
Blank Titer:	0.00042
THIO N:	~~0.21673~~
Sample Flask Water Seal?	(Yes) 0.239477 / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO
Notes:	Bender

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			1	3162		3.498	
2			2A	956		3.536 →	
3			3	2084		~~3.524~~	3.550 - named as 4, not 3.
4			~~4~~ 4	3035		3.559	
5			5	959		3.596	
6			6	1192		3.679	
7			7A	3034		3.739 →	
8			8	3049		3.832	
9			9	3048		3.829	
10			10	3200		3.928	
11							
12							
13							
14							
15							
16							
17							

Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2	2B	3054		3.524	- named as #3 not 2.
3					
4					
5					
6					
7	7B	3061		3738	
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

	1	2A	2B	3	4	5	6	7A	7B	8	9	10
18												
19	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
20	JS1	JS1	JS1	JS1	JS1	JS1	JS1	JS1	JS1	JS1	JS1	JS1
21	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075
22	b-5 m	400 m	400 m	300 m	200 m	100 m	50 m	20 m	20 m	10 m	5 m	0 m
23	bot 1	bot 2	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10
24												

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

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Cruise and Analysis Information	
Cruise Number:	2022-075
Event:	
Station:	HAK1
Event Date (Local):	
Analysis Date (Local):	24 Oct 2022
Analyst:	KS
Stdization Date (Local):	24 Oct. 2022
KIO_3 N:	0.0120457
Standard Titer:	0.30524
Blank Titer:	0.00042
THIO N:	0.23948
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO
Notes:	Bender

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1			✗					1					
2			12	3032		1.931		2					
3			13	3038		2.764		3					
4			14A	3164		3.754	→	4	14B	941		3.753	
5			15	2015		4.424		5					
6			16	3068		4.864		6					
7			17	3090		5.172		7					
8			18	3036		5.349		8					
9								9					
10								10					
11								11					
12								12					
13								13					
14								14					
15								15					
16								16					
17								17					
18								18					
19			12		13		14A		14B		15		16
20			OXY		OXY		OXY		OXY		OXY		OXY
21			HAK1		HAK1		HAK1		HAK1		HAK1		HAK1
22			2022-075		2022-075		2022-075		2022-075		2022-075		2022-075
23			b-5 m		100 m		50 m		50 m		20 m		10 m
24			bot 2		bot 3		bot 4		bot 4		bot 5		bot 6

Nisk ID													
19	17		18										
20	OXY		OXY										
21	HAK1		HAK1										
22	2022-075		2022-075										
23	5 m		0 m										
24	bot 7		bot 8										

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

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Cruise and Analysis Information	Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2022-075	1								1					
Event:	2								2					
Station: RO3	3			44	3131		2.705		3					
Event Date (Local):	4			45	3106		2.645	-slair-step curve - OT ✓	4					
Analysis Date (Local): 24 Oct. 2022	5				~~1054~~				5					
Analyst: KS	6			47	1064		3.004		6					
Stdization Date (Local): 24 Oct 2022	7			48A	456		3.593	→	7	48B	650		3.590	
KIO_3 N: 0.0120957	8			49	2032		4.015		8					
Standard Titer: ~~0.00042~~	9			50	3150		4.546	- Precipitate flakey and fluffy.	9					
Blank Titer: ~~0.23948~~	10			51	1407			- " " " "	10					
THIO N: 0.23948	11								11					
Sample Flask Water Seal? (Yes) No 0.00042	12								12					
	13			0.50824					13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK: $MnCl_2$, NaI/NaOH, H_2SO_4, KIO_3, THIO	14								14					
	15								15					
	16								16					
	17								17					
	18								18					
Notes: Bender	19			44	45	47	48A	48B	49	50	51			
	20			OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
	21			RO3	RO3	RO3	RO3	RO3	RO3	RO3	RO3			
	22			2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075			
	23			b-2 m	100 m	50 m	20 m	20 m	10 m	5 m	0 m			
	24			bot 3	bot 4	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10			

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

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Cruise and Analysis Information	Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
Cruise Number: 2022-075	1							
Event:	2							
Station: SP3	3			73	2094		1.547	
Event Date (Local):	4			74	3110		1.554	
Analysis Date (Local): 24 Oct. 2022	5			75	1470		1.524	
Analyst: KS	6			76	3194		1.737	
Stdization Date (Local): 24 Oct. 2022	7			77	942		1.943	
KIO_3 N: 0.0120957	8							
Standard Titer: 0.50529	9			79	940		3.158	
Blank Titer: 0.00042	10			80A	3044		3.678	→
THIO N: 0.23948	11			81	3000		4.263	
Sample Flask Water Seal? (Yes) / No	12			82	1347		4.602	
	13			83	3029		6.027	
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK: $MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO	14							
	15							
	16							
	17			73	74	75	76	77
	18			OXY	OXY	OXY	OXY	OXY
	19			SP3	SP3	SP3	SP3	SP3
	20			2022-075	2022-075	2022-075	2022-075	2022-075
	21			b-2 m	400 m	300 m	200 m	100 m
	22			bot 3	bot 4	bot 5	bot 6	bot 7
	23							
	24							

Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5					
6					
7					
8					
9					
10	80B	1408		3.675	
11					
12					
13					
14					
15					
16					
17	79	80A	80B	81	82	83
18	OXY	OXY	OXY	OXY	OXY	OXY
19	SP3	SP3	SP3	SP3	SP3	SP3
20	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075
21	50 m	20 m	20 m	10 m	5 m	0 m
22	bot 9	bot 10	bot 10	bot 11	bot 12	bot 13
23						
24						

Notes:
Shark

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

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Cruise and Analysis Information	Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2022-075	1								1					
Event:	2								2					
Station: FC1	3			128	638		1.515		3					
Event Date (Local):	4			129	3070		1.523		4					
Analysis Date (Local): 24 Oct. 2022	5			130	1400		1.555		5					
Analyst: KS	6			131	429		1.569		6					
Stdization Date (Local): 24 Oct. 2022	7			132	712		1.579		7					
KIO_3 N: 0.0120457	8			133	505		1.593		8					
Standard Titer: 0.50524	9			134A	471		1.611	→	9	134B	1156	1.611		
Blank Titer: 0.00082	10			135	950		2.005		10					
THIO N: 0.23948	11			136	3103		3.087		11					
Sample Flask Water Seal? (Yes) / No	12								12					
	13			138	1422		3.862		13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK: $MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO	14			139	3064		4.482		14					
	15			140	3080		4.855		15					
	16			141	2095		1.726	– Seems low, Mis-sampled?	16					
	17								17					
Notes: Shark.	18													

19	128 – OXY	129 – OXY	130 – OXY	131 – OXY	132 – OXY	133 – OXY	134A – OXY	134B – OXY	135 – OXY	136 – OXY	138 – OXY	139 – OXY
20	FC1	FC1	FC1	FC1	FC1	FC1	FC1	FC1	FC1	FC1	FC1	FC1
21	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075
22	b-2 m	700 m	600 m	500 m	400 m	300 m	200 m	200 m	100 m	50 m	20 m	10 m
23	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 9	bot 10	bot 11	bot 13	bot 14
24	140 – OXY	141 – OXY										
	FC1	FC1										
	2022-075	2022-075										
	5 m	0 m										
	bot 15	bot 16										

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

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Cruise Number:	2022-075	1								1					
Event:		2			197	3028		1.982		2					
Station:	DE4	3								3					
Event Date (Local):	23 Oct. 2022	4			199	3145		2.090		4					
Analysis Date (Local):	24 Oct. 2022	5								5					
Analyst:	KS	6			201A	621		2.242 →		6	201B	3091	2.362		
Stdization Date (Local):	24 Oct. 2022	7								7					
KIO_3 N:	0.0120157	8			203	570		2.684 - Floater in sample. Titration OK✓		8					
Standard Titer:	0.50524	9								9					
Blank Titer:	0.00042	10			205	691		3.028		10					
THIO N:	0.23948	11								11					
Sample Flask Water Seal?	(Yes) / No	12			207	462		3.184		12					
		13								13					
Reagent Change?	$MnCl_2$	14			209	1035		5.369		14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15								15					
	H_2SO_4	16			211	2089		6.648		16					
	KIO_3	17								17					
	THIO	18								18					

Notes:

Shark → Swordfish.

	197	199	201A	201B	203	205	207	209	211
19									
20	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
21	DE4	DE4	DE4	DE4	DE4	DE4	DE4	DE4	DE4
22	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075
23	b-2 m	200 m	100 m	100 m	50 m	20 m	10 m	5 m	0 m
24	bot 2	bot 4	bot 6	bot 6	bot 8	bot 10	bot 12	bot 14	bot 16

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

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Cruise Number:	2022-075	1								1					
Event:		2								2					
Station:	SM2	3			302	3089		1.790		3					
Event Date (Local):		4			303	371		1.821		4					
Analysis Date (Local):	24 Oct. 2022	5			~~305~~	~~3164~~				5					
Analyst:	KS	6			305	3161		1.725		6					
Stdization Date (Local):	24 Oct. 2022	7			~~307A~~	~~1429~~			~~→~~	7	~~307B~~				
KIO_3 N:	0.0120957	8			307A	1429		1.794	→	8	307B	3116		1.792	
Standard Titer:	0.50524	9								9					
Blank Titer:	0.00042	10			309	3135		2.943		10					
THIO N:	0.23948	11								11					
Sample Flask Water Seal?	(Yes) / No	12			311	2056		3.567		12					
		13								13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO	14			313	2049		3.299		14					
		15								15					
		16			315	3108		3.346		16					
		17								17					
		18			317	3078		4.381		18					
		19								19					

Notes:

20	302 - OXY	303 - OXY	305 - OXY	307A - OXY	307B - OXY	309 - OXY	311 - OXY	313 - OXY	315 - OXY	317 - OXY
21	SM2	SM2	SM2	SM2	SM2	SM2	SM2	SM2	SM2	SM2
22	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075
23	b-2 m	300 m	200 m	100 m	100 m	50 m	20 m	10 m	5 m	0 m
24	bot 3	bot 4	bot 6	bot 8	bot 8	bot 10	bot 12	bot 14	bot 16	bot 18

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 bottle fails the integrity check and explain in the comments column.

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Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2022-075	1								1					
Event:		2								2					
Station:	KN06	3			348	1050		2.620		3					
Event Date (Local):		4			349	948		2.654		4					
Analysis Date (Local):	24 Oct. 2022	5			~~351~~	~~0158~~				5					
Analyst:	KS	6			351	0158		2.797		6					
Stdization Date (Local):	24 Oct. 2022	7								7					
KIO_3 N:	0.0120957	8			353A	2000		2.986	→	8	353B	2063		2.988	
Standard Titer:	0.50524	9								9					
Blank Titer:	0.00642	10			355	2019		3.272		10					
THIO N:	0.23948	11								11					
Sample Flask Water Seal?	(Yes) / No	12			357	930		3.573		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_2SO_4 / KIO_3 / THIO	13								13					
		14			359	622		3.429		14					
		15								15					
		16			361	3118		3.514		16					
		17								17					
		18			363	3109		3.845		18					
		19								19					
		20			365	1473		6.425		20					
		21								21					

	348	349	351	353A	353B	355	357	359	361	363	365	367
22	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
23	KN06	KN06	KN06	KN06	KN06	KN06	KN06	KN06	KN06	KN06	KN06	KN06
24	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075	2022-075
	b-2 m	500 m	400 m	300 m	300 m	200 m	100 m	50 m	20 m	10 m	5 m	0 m
	bot 3	bot 4	bot 6	bot 8	bot 8	bot 10	bot 12	bot 14	bot 16	bot 18	bot 20	bot 22

Notes:

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

Nsk 22 367 967 7.300 mL/L