Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

IOS

Last Updated: December 2019

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:	2023-025	1			17	1316	9.8	Ø	gain ≥ 2.4V error (anoxic)	1					
Event:	27	2			18	974	9.6	Ø	gain ≥ 2.4V error (anoxic)	2					
Station:	SI	3			19	2015	9.3		Zoop in flask. but curve ok. but late	3					
Event Date (Local):	2023-06-26	4			20	3072	9.0	1.524		4					
Analysis Date (Local):	2023-06-27	5			21	994	9.1	1.521		5					
Analyst:	ER	6			22	970	9.2	3.057		6					
Stdization Date (Local):	2023-06-26	7			23A	140	9.8	-99	Zoop in flask caused √ jumps – LOST	7	23B	131	9.7	4.439	
KIO_3 N:	0.011825	8			24	1330	9.8	4.796		8					
Standard Titer:	0.4940237	9			25	908	10.1	5.241		9					
Blank Titer:	0.0003312	10			26A	105	10.5	4.894		10	26B	932	10.5		wrong flask in file
THIO N:	0.239563	11			27	173	11.0			11					
Sample Flask Water Seal?	(Yes) / No	12			28	1485	11.7			12					
		13								13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$	14								14					
	NaI/NaOH	15								15					
	H_2SO_4	16								16					
	KIO_3	17								17					
	THIO	18								18					
Notes: 02701.ist + 02702.ist. Moose.xlsx Comments on reverse		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.

17
OXY
SI
2023-025
Bot-5 m
bot 1

<blank>
sample anoxic.
Ran a couple times
+ did OT.
gave ≥ 2.4V error

18
OXY
SI
2023-025
150 m
bot 2

OT... doesn't look right
Sample anoxic <blank
gave ≥ 2.4V error
before I tried to OT.

19
OXY
SI
2023-025
125 m
bot 3

Zooplankton
in flask
late-endpoint, OT
will need to adjust EP
1st curve OK, 2nd too noisy

raw titer= 0.03568 mL
230627 020302 O2CHECK

20
OXY
SI
2023-025
100 m
bot 4

21
OXY
SI
2023-025
75 m
bot 5

will need to go in
and get titer
volume.
Sorry! Accidentally did OT
and aborted.
raw titer = 0.29605mL
230627 021820 O2CHECK.

22
OXY
SI
2023-025
50 m
bot 6

23A
OXY
SI
2023-025
40 m
bot 7

Zooplankton in
Flask
V jumped from 1.6→2.4,
OT, but no improvement.
SAMPLE LOST

23B
OXY
SI
2023-025
40 m
bot 7

24
OXY
SI
2023-025
30 m
bot 8

25
OXY
SI
2023-025
20 m
bot 9

26A
OXY
SI
2023-025
10 m
bot 10

Accidentally clicked normal finish instead of 'go'! 02702 (cast2)
continued on.

26B
OXY
SI
2023-025
10 m
bot 10

and SN
Has wrong flask in
file, adjust volume
with correct volume
in processing
Changed Sample # in BLST to match Sample ID.

27
OXY
SI
2023-025
5 m
bot 11

28
OXY
SI
2023-025
0 m
bot 12

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
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IOS

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Cruise and Analysis Information	
Cruise Number:	2023-025
Event:	33
Station:	102
Event Date (Local):	2023-06-27
Analysis Date (Local):	27 June 2023
Analyst:	KS
Stdization Date (Local):	26 June 2023
KIO_3 N:	0.0118250
Standard Titer:	0.49402
Blank Titer:	0.00033
THIO N:	0.23956
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:	Samples 42 → 47: Flag 1 for QF
Snail.xlsx	

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1	✓	✓	33	130	7.2	1.566	had sample under tip of NaI/NaOH
2	✓	✓	34	923	7.2	1.641	
3	✓	✓	35A	3032	7.2	1.486	
4	✓	✓	36	126	7.3	1.443	
5	✓	✓	37A	1402	7.4	1.661	
6	✓	✓	38	3109	7.7	1.994	
7	✓	✓	39	151	7.8	2.035	had to re-sample due to spill
8	✓	✓	40	154	8.0	2.364	
9	✓	✓	41	129	8.5	2.750	
10			42	575	—	—	CTD failure due to wire snap
11			43	171	—	—	
12			44	903	—	—	
13			45	20	—	—	
14			46	1192	—	—	
15			47	114	—	—	

Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3	35B	913	7.3	1.475	
4					
5	37B	3096	7.5	1.661	
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

16	33	34	35A	35B	36	37A	37B	38	39	40	41	42	43	44	45	46	47
17	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
18	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
19	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025
20	Bot-5 m	250 m	200 m	200 m	175 m	150 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m	10 m	5 m	0 m
21	bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14	bot 15

Bottle integrity: First test the top vent (V) by opening the … her fails the integrity check and explain this in the comments column.

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Water Properties Group

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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:	2023-025	1			49	1316	7.9	1.680	- Runaway. Sample over-titrated ✓	1					
Event:	34	2			50	974	7.7	1.682		2					
Station:	72	3			51	2015	7.8	1.676		3					
Event Date (Local):	2023-06-27	4			52	3072	7.6	1.683		4					
Analysis Date (Local):	27 June 2023	5			53A	994	8.1	2.182	- Bump up @ inflection point.	5	53B	970	8.2	2.179	
Analyst:	KS	6			54	148	8.5	2.690	Sample over-titrated ✓	6					
Stdization Date (Local):	26 June 2023	7			55A	131	9.0	3.130		7	55B	1330	9.0	3.128	
KIO_3 N:	0.011825O	8			56	908	9.0	3.215		8					
Standard Titer:	0.49402	9			57	105	9.0	3.279		9					
Blank Titer:	0.00033	10			58	932	9.2	3.516		10					
THIO N:	0.23956	11			59	173	9.9	4.551		11					
Sample Flask Water Seal?	(Yes) / No	12			60	1485	10.1	4.636		12					
		13			61	1424	10.4	4.636		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	49	50	51	52	53B	53A	54	55A	55B	56	57	58	
		15	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
		16	72	72	72	72	72	72	72	72	72	72	72	72	
		17	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	
		18	Bot-5 m	175 m	150 m	125 m	100 m	100 m	75 m	50 m	50 m	40 m	30 m	20 m	
Notes:		19	bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	
		20	59	60	61										
Moose.xlsx		21	OXY	OXY	OXY										
		22	72	72	72										
		23	2023-025	2023-025	2023-025										
		24	10 m	5 m	0 m										
			bot 11	bot 12	bot 13										

Bottle integrity: First test the top vent (V) by op[illegible]y 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:	2023-025	1			63	1316	8.0	1.972		1					
Event:	36	2			64	974	8.0	2.081		2					
Station:	adcp	3			65	2015	8.3	2.344		3					
Event Date (Local):	2023-06-27	4			66	3072	9.3	3.352		4					
Analysis Date (Local):	27 June 2023	5			67	994	9.5	3.597		5					
Analyst:	KS	6			68	970	9.8	3.801		6					
Stdization Date (Local):	26 June 2023	7			69A	140	10.6	4.698	- Noisy curve. Sample over-titrated as a result.	7	69B	131	10.6	4.705	
KIO_3 N:	0.0118250	8			70	1330	10.9	5.105		8					
Standard Titer:	0.49402	9			71	908	11.0	5.075		9					
Blank Titer:	0.00033	10			72	105	11.5	5.153		10					
THIO N:	0.23956	11	63		64		65		66	67	68	69A	69B	70	71	72
Sample Flask Water Seal?	(Yes) / No	12	OXY		OXY		OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
		13	adcp		adcp		adcp		adcp	adcp	adcp	adcp	adcp	adcp	adcp	adcp
Reagent Change?	$MnCl_2$	14	2023-025		2023-025		2023-025		2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15	Bot-5 m		100 m		75 m		50 m	40 m	30 m	20 m	20 m	10 m	5 m	0 m
	H_2SO_4	16	bot 1		bot 2		bot 3		bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10
	KIO_3	17														
	THIO	18														
Notes:		19														
		20														
Moose.xlsx		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.

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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:	2023-025	1			78	2098	8.4	2.275		1					
Event:	39	2			79	3114	8.4	2.368		2					
Station:	62	3			80	904	8.5	2.466		3					
Event Date (Local):	2023-06-27	4			81A	973	9.3	3.309		4	81B	196	9.4	3.302	
Analysis Date (Local):	27 June '23	5			82A	1346	9.9	3.979		5	82B	3005	10.0	3.975	
Analyst:	KS	6			83	118	10.2	4.360		6					
Stdization Date (Local):	26 June 2023	7			84	169	10.3	4.494		7					
KIO_3 N:	0.0118250	8			85	3050	10.5	4.743		8					
Standard Titer:	0.49402	9			86	3044	10.6	4.760		9					
Blank Titer:	0.00033	10			87	941	11.4	5.940		10					
THIO N:	0.23956	11			88	111	11.6	5.976		11					
Sample Flask Water Seal?	(Yes) / No	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			78 OXY	79 OXY	80 OXY	81A OXY	81B OXY	82A OXY	82B OXY	83 OXY	84 OXY	85 OXY	86 OXY
		14			62	62	62	62	62	62	62	62	62	62	62
		15			2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025
		16			Bot-5 m	125 m	100 m	75 m	75 m	50 m	50 m	40 m	30 m	20 m	10 m
		17			bot 1	bot 2	bot 3	bot 4	bot 4	bot 5	bot 5	bot 6	bot 7	bot 8	bot 9
		18													
Notes:		19			87 OXY	88 OXY									
		20			62	62									
Chicken & Egg.xlsx		21			2023-025	2023-025									
		22			5 m	0 m									
		23			bot 10	bot 11									
		24													

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

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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:	2023-025	1			89	130	8.7	2.635	slow leak on spigot check	1					
Event:	42	2			90	923	8.7	2.636		2					
Station:	59	3			91	3032	8.7	2.671		3					
Event Date (Local):	2023-06-27	4			92	913	8.8	2.809		4					
Analysis Date (Local):	28 June 2023	5			93A	126	8.9	2.899		5	93B	1402	8.9	2.895	
Analyst:	KS	6			94	3096	9.3	3.361		6					
Stdization Date (Local):	28 June 2023	7			95A	3109	9.7	3.683		7	95B	151	9.7	3.681	
KIO_3 N:	0.0118250	8			96	154	10.1	4.235		8					
Standard Titer:	0.49330	9			97	129	10.4	4.494		9					
Blank Titer:	0.00021	10			98	575	10.6	4.776		10					
THIO N:	0.23977	11			99	171	10.4	4.859		11					
Sample Flask Water Seal?	Yes / No	12			100	903	10.5	5.172		12					
		13			101	20	11.0	5.390		13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ 2122MX; NaI/NaOH; H_2SO_4 2201; ~~KIO_3~~; ~~THIO~~	14			102	1192	11.7	5.566		14					

15	89	90	91	92	93A	93B	94	95A	95B	96	97	98			
16	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY			
17	59	59	59	59	59	59	59	59	59	59	59	59			
18	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025			
19	Bot-5 m	200 m	175 m	150 m	125 m	125 m	100 m	75 m	75 m	50 m	40 m	30 m			
20	bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10			
21	99	100	101	102											
22	OXY	OXY	OXY	OXY											
23	59	59	59	59											
24	2023-025	2023-025	2023-025	2023-025											
	20 m	10 m	5 m	0 m											
	bot 11	bot 12	bot 13	bot 14											

Notes: started sampling deep first

Snail.xlsx

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

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Cruise and Analysis Information	
Cruise Number:	2023-025
Event:	44
Station:	56
Event Date (Local):	2023-06-28
Analysis Date (Local):	28 June 2023
Analyst:	KS
Stdization Date (Local):	28 June 2023
KIO_3 N:	0.0118250
Standard Titer:	0.00021
Blank Titer:	0.23977
THIO N:	0.493302
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:	
Chicken & Egg.xlsx	

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			104	2098	9.3	3.001	
2			105	3114	9.3	3.022	
3			106	904	9.3	3.105	
4			107	973	9.3	3.132	
5			108	196	9.5	3.331	
6			109	1346	9.7	3.645	
7			110A	3005	9.8	3.737	
8			111	169	10.2	4.145	
9			112	3050	10.4	4.464	
10			113	3044	10.7	4.711	plankton in sample.
11			114	941	11.2	5.277	Bump in curve near endpoint. Sample over-titrated. ✓
12			115A	111	11.3	5.297	
13			116	976	11.3	5.309	
14			117	547	-99	5.440	temp not recorded

Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5					
6					
7	110B	118	9.8	3.737	
8					
9					
10					
11					
12	115B	953	11.2	5.299	
13					
14					

15	104	105	106	107	108	109	110A	110B	111	112	113	114
16	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
17	56	56	56	56	56	56	56	56	56	56	56	56
18	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025
19	Bot-5 m	200 m	175 m	150 m	125 m	100 m	75 m	75 m	50 m	40 m	30 m	20 m
20	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	bot 11
21	115B	115A	116	117								
22	OXY	OXY	OXY	OXY								
23	56	56	56	56								
24	2023-025	2023-025	2023-025	2023-025								
	10 m	10 m	5 m	0 m								
	bot 12	bot 12	bot 13	bot 14								

Bottle integrity: First test the top vent (V) by op... 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:	2023-025	1			165	1416	9.2	3.811		1					
Event:	50	2			166	971	9.1	4.019		2					
Station:	27	3								3					
Event Date (Local):	2023-06-28	4			167A	658	9.1	3.966		4	167B	168	9.2	3.963	
Analysis Date (Local):	28 June '23	5			168	943	9.1	4.181		5					
Analyst:	KS	6								6					
Stdization Date (Local):	28 June 2023	7			165	166	167A	167B	168	7					
KIO_3 N:	0.0118250	8			OXY	OXY	OXY	OXY	OXY	8					
Standard Titer:	~~0.49330~~ 0.49330	9			27	27	27	27	27	9					
Blank Titer:	0.00021	10			2023-025	2023-025	2023-025	2023-025	2023-025	10					
THIO N:	0.23977	11			Bot-5 m	300 m	250 m	250 m	200 m	11					
Sample Flask Water Seal?	(Yes) / No	12			bot 1	bot 2	bot #4	bot #4	bot #5	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								14					
		15								15					
		16								16					
		17								17					
		18								18					
Notes:		19								19					
		20								20					
Chicken & Egg.xlsx		21								21					
		22								22					
		23								23					
		24								24					

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

IOS

Last Updated: December 2019

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:	2023-025	1			119	1316	10.0	3.554		1					
Event:	46	2			120	974	10.1	3.742		2					
Station:	46	3			121	2015	10.4	4.136		3					
Event Date (Local):	2023-06-28	4			122	3072	10.4	4.239	lost some precip. at top	4					
Analysis Date (Local):	28 June 2023	5			123	994	10.3	4.318		5					
Analyst:	KS	6			124	970	10.2	4.517		6					
Stdization Date (Local):	28 June 2023	7			125A	140	10.4	4.581		7	125B	131	10.4	4.582	
KIO_3 N:	0.0118250	8			126	1330	10.7	4.726		8					
Standard Titer:	0.49330	9			127	908	11.1	4.904		9					
Blank Titer:	0.00021	10			128A	105	11.3	5.404		10	128B	932	11.3	5.400	
THIO N:	0.23977	11			129	173	12.3	6.067		11					
Sample Flask Water Seal?	Yes / No	12			130	1485	15.2	7.924		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~~

	119	120	121	122	123	124	125A	125B	126	127	128A	128B
13												
14	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
15	46	46	46	46	46	46	46	46	46	46	46	46
16	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025
17	Bot-5 m	150 m	125 m	100 m	75 m	50 m	40 m	40 m	30 m	20 m	10 m	10 m
18	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 7	bot 8	bot 9	bot 10	bot 10

	129	130
19		
20	OXY	OXY
21	46	46
22	2023-025	2023-025
23	5 m	0 m
24	bot 11	bot 12

Notes:

Moose.xlsx

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

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	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:	2023-025	1			131	164	9.9	3.895		1					
Event:	48	2			132	435	9.6	3.856		2					
Station:	42	3			133	1338	9.5	4.032		3					
Event Date (Local):	2023-06-28	4			134	3117	9.4	4.128		4					
Analysis Date (Local):	29 June 2023	5			135	968	9.4	4.320		5					
Analyst:	KS	6			136A	157	9.3	4.421		6	136B	963	9.5	4.425	
Stdization Date (Local):	28 June 2023	7			137	1465	9.5	4.420		7					
KIO_3 N:	0.0118250	8			138A	905	9.4	4.541		8	138B	3180	9.5	4.539	
Standard Titer:	0.49330	9			139	1326	9.6	4.548		9					
Blank Titer:	0.00021	10			140	146	9.7	4.528		10					
THIO N:	0.23977	11			141	3108	10.0	4.526		11					
Sample Flask Water Seal?	(Yes) / No	12			142	942	10.4	4.712		12					
Reagent Change?	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO	13			143	3127	11.0	4.775		13					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK		14			144	3095	12.0	5.117		14					
		15			145	150	16.4	6.883		15					
		16			146	1035	18.0	7.243		16					

17	131	132	133	134	135	136A	136B	137	138A	138B	139	140
18	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
19	42	42	42	42	42	42	42	42	42	42	42	42
20	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025
21	Bot-5 m	300 m	250 m	200 m	175 m	150 m	150 m	125 m	100 m	100 m	75 m	50 m
22	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 6	bot 7	bot 8	bot 8	bot 9	bot 10
23	141	142	143	144	145	146						
24	OXY	OXY	OXY	OXY	OXY	OXY						
	42	42	42	42	42	42						
	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025						
	40 m	30 m	20 m	10 m	5 m	0 m						
	bot 11	bot 12	bot 13	bot 14	bot 15	bot 16						

Notes:

Mermaid.xlsx

Bottle integrity: First test the top vent (V) by op... ...te column if either fails the integrity check and explain this in the comments column.

138C & 138D

DIC notes: may have ... in fraser plume floate...

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

IOS

Last Updated: December 2019

Cruise and Analysis Information	
Cruise Number:	2023-025
Event:	49
Station:	39
Event Date (Local):	2023-06-28
Analysis Date (Local):	2023 June 28
Analyst:	KS
Stdization Date (Local):	28 June 2023
KIO_3 N:	0.0118250
Standard Titer:	0.49330
Blank Titer:	0.00021
THIO N:	0.23977
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: Humming Bird.xlsx	

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			148A	1314	10.2	3.868	
2			149	912	9.9	~~3.887~~ 3.869	
3			150	3074	10.0	3.906	
4			151	1429	9.8	4.034	
5			152	1487	9.8	4.135	
6			153	3133	9.8	4.231	
7			154	178	10.1	4.394	
8			155	~~981~~ 557	9.6	4.498	bottle 557, redraw due to ZOOP!
9			156	1491	10.4	4.518	
10			157A	921	9.8	4.425	
11			158	3126	10.2	4.564	
12			159	185	10.3	4.406	
13			160	3148	10.6	4.483	
14			161	122	10.9	4.723	
15			162	915	12.1	5.272	
16			163	569	16.1	7.461	
17			164	1425	18.3	~~7.659~~ 7.693	

Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)
1	148B	3034	10.4	3.877
2				
3				
4				
5				
6				
7				
8	155	557	10.1	
9				
10	157B	3116	10.0	4.426
11				
12				
13				
14				
15				
16				
17				

OXY-2 Comments

158	159	160
OXY	OXY	OXY
39	39	39
2023-025	2023-025	2023-025
50 m	40 m	30 m
bot 11	bot 12	bot 13

161	162	163
OXY	OXY	OXY
39	39	39
2023-025	2023-025	2023-025
20 m	10 m	5 m
bot 14	bot 15	bot 16

164
OXY
39
2023-025
0 m
bot 17

148A	148B	149	150	151	152	153	154	156	155	157A	157B
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
39	39	39	39	39	39	39	39	39	39	39	39
2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025
Bot-5 m	Bot-5 m	350 m	300 m	250 m	200 m	175 m	150 m	100 m	125 m	75 m	75 m
bot 1	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 9	bot 8	bot 10	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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

IOS

Last Updated: December 2019

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:	2023-025	1			182	2098	9.8	3.467		1					
Event:	51	2			183	3114	9.6	3.501		2					
Station:	2	3			184	904	9.6	3.724		3					
Event Date (Local):	2023-06-28	4			185	973	9.5	3.889		4					
Analysis Date (Local):	28 June 2023	5			186	196	9.6	4.009		5					
Analyst:	KS	6			187	1346	9.5	4.111		6					
Stdization Date (Local):	28 June 2023	7			188	3005	9.5	4.203		7					
KIO_3 N:	0.0118250	8			189	118	9.6	4.315		8					
Standard Titer:	0.49330	9			190	169	10.0	4.005		9					
Blank Titer:	0.00021	10			191	3050	10.1	4.149		10					
THIO N:	0.23977	11			192	3044	10.4	4.296		11					
Sample Flask Water Seal?	(Yes) / No	12			193	941	11.2	4.876		12					
		13			194A	111	12.7	5.794		13	194B	953	12.9	5.792	
Reagent Change?	$MnCl_2$	14			195	976	15.0	7.129		14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH / H_2SO_4 / KIO_3 / THIO	15			196A	547	17.8	7.015		15	196B	3040	17.8	7.012	
Notes:		16	182	183	184	185	186	187	188	189	190	191	192	193	194A
		17	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
		18	2	2	2	2	2	2	2	2	2	2	2	2	2
		19	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025
		20	Bot-5 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m	10 m
		21	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13
Chicken & Egg.xlsx		22	194B	195	196A	196B									
		23	OXY	OXY	OXY	OXY									
		24	2	2	2	2									
			2023-025	2023-025	2023-025	2023-025									
			10 m	5 m	0 m	0 m									
			bot 13	bot 14	bot 15	bot 15									

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

IOS

Last Updated: December 2019

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:	2023-025	1			198	1316	9.6	3.826		1					
Event:	52	2			199	974	9.4	3.890		2					
Station:	6	3			200A	2015	9.3	3.988		3	200B	3072	9.4	3.988	
Event Date (Local):	2023-06-28	4			201	994	9.3	4.172		4					
Analysis Date (Local):	28 June 2023	5			202	970	9.3	4.283		5					
Analyst:	KS	6			203	140	9.6	3.814		6					
Stdization Date (Local):	28 June 2023	7			204	131	10.3	~~4.137~~	4.199	7					
KIO_3 N:	0.0118280	8			205	1330	10.4	~~5.252~~	4.385	8					
Standard Titer:	0.49330	9			206	908	10.7	~~5.259~~	4.631	9					
Blank Titer:	0.00021	10			207A	105	11.4	5.252		10	207B	932	11.4	5.259	
THIO N:	0.23977	11			208	173	13.0	6.353		11					
Sample Flask Water Seal?	(Yes) / No	12			209	1485	17.8	7.021		12					
		13			210	1424	18.7	6.663		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

	198	199	200A	200B	201	202	203	204	205	206	207A	207B
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	6	6	6	6	6	6	6	6	6	6	6	6
	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025	2023-025
	Bot-5 m	175 m	150 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m	20 m
	bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 10

	208	209	210
	OXY	OXY	OXY
	6	6	6
	2023-025	2023-025	2023-025
	10 m	5 m	0 m
	bot 11	bot 12	bot 13

Notes:

Moose.xlsx

Bottle integrity: First test the top vent (V) by o[illegible]er s[illegible]est[illegible] pening 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

IOS

Last Updated: December 2019

Cruise and Analysis Information	
Cruise Number:	2023-025
Event:	53
Station:	12
Event Date (Local):	2023-06-28
Analysis Date (Local):	28 June 2023
Analyst:	KS
Stdization Date (Local):	28 June 2023
KIO_3 N:	0.0118250
Standard Titer:	0.49330
Blank Titer:	0.00021
THIO N:	0.13977
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: Humming Bird.xlsx	

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			211	1314	9.9	3.599		1					
2			212	3034	9.6	3.794		2					
3			213	912	9.6	3.855		3					
4			214A	3074	9.7	3.880	B sampled before A	4	214B	1429	9.4	3.880	
5			215A	1487	9.4	3.960		5	215B	3133	9.6	3.968	
6			216	178	9.3	3.989		6					
7			217	981	9.3	4.048	- leaky Niskin. Suspect vent was a bit loose.	7					
8			218	1491	9.4	3.973		8					
9			219	921	9.6	3.912		9					
10			220	3116	9.9	4.040		10					
11			221	3126	10.3	4.160		11					
12			222	185	10.4	4.350		12					
13			223	3148	11.1	4.645		13					
14			224	122	14.3	6.697		14					
15			225	915	16.6	7.176		15					
16			226	569	20.0	6.381		16					
17	211		212		213		214A		214B		215A		215B
18	OXY		OXY		OXY		OXY		OXY		OXY		OXY
19	12		12		12		12		12		12		12
20	2023-025		2023-025		2023-025		2023-025		2023-025		2023-025		2023-025
21	Bot-5 m		300 m		250 m		200 m		200 m		175 m		175 m
22	bot 1		bot 2		bot 3		bot 4		bot 4		bot 5		bot 5
23	221		222		223		224		225		226		
24	OXY		OXY		OXY		OXY		OXY		OXY		
	12		12		12		12		12		12		
	2023-025		2023-025		2023-025		2023-025		2023-025		2023-025		
	40 m		30 m		20 m		10 m		5 m		0 m		
	bot 11		bot 12		bot 13		bot 14		bot 15		bot 16		

216	217	218	219	220
OXY	OXY	OXY	OXY	OXY
12	12	12	12	12
2023-025	2023-025	2023-025	2023-025	2023-025
150 m	125 m	100 m	75 m	50 m
bot 6	bot 7	bot 8	bot 9	bot 10

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

IOS

Last Updated: December 2019

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:	2023-025	1			228A	1314	9.3	3.804	⇒ sample was open for ~5min while troubleshooting burette function. Had to redo run due to burette not dispensing	1	228B	3034	9.5	3.810	
Event:	56	2								2					
Station:	14	3								3					
Event Date (Local):	2023-06-28	4								4					
Analysis Date (Local):	29 June 2023	5								5					
Analyst:	CI	6								6					
Stdization Date (Local):	28 June 2023	7								7					
KIO_3 N:	0.0118250	8			235	912	9.3	L	sample open for ~10 min while setting up over-titrate, OT x2 due to high end points	8					
Standard Titer:	0.49330	9								9					
Blank Titer:	0.00021	10			237	3074	10.3	4.265		10					
THIO N:	0.23977	11								11					
Sample Flask Water Seal?	(Yes) / No	12			239	1429	11.4	5.009		12					
		13			240	1487	11.8	5.027	titrated in air, restarted → some floaters in sample	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			241A	3133	13.1	5.732	⇒ bubbles & particles, OT → messy curve	14	241B	178	13.2		late end point :. OT x2
		15			242	981	15.8		late end point, OT, cleaved lenses, OT	15					
		16			243	1491	18.6	6.660		16					
		17								17					
		18								18					
Notes:	See reverse for comments on curves	19								19					
		20								20					
Humming Bird.xlsx		21								21					
		22								22					
		23								23					
		24								24					

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

228A
OXY
14
2023-025
Bot-5 m
bot 1

228B
OXY
14
2023-025
Bot-5 m
bot 1

good

241B
OXY
14
2023-025
10 m
bot 14

late end point on 1st curve :. OT x 2 but curves noisy & late end points. use 1st curve

→ 1st curve : raw titer = Kenny to look
23029 023002

235
OXY
14
2023-025
100 m
bot 8

late endpoint on 1st curve :. OT x 2 but curves noisy on OTs → use first curve
1st curve: raw titer = 0.39041 mL 230629 014117

237
OXY
14
2023-025
50 m
bot 10

239
OXY
14
2023-025
30 m
bot 12

good

242
OXY
14
2023-025
5 m
bot 15

OT x2 due to noisy curve, but endpoints noisy + late.
will need to pick best curve
and adjust endpoint in DQCheck.
use 1st curve (least messy).

→ 23029 023838
23029 024418
23029 024801
} all messy

240
OXY
14
2023-025
20 m
bot 13

zoops in sample
↳ caused messy curve
but endpoint okay!

243
OXY
14
2023-025
0 m
bot 16

good! :)

241A
OXY
14
2023-025
10 m
bot 14

zoops in sample
↳ messy curve