Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

IOS

Last Updated: July 2018

Cruise and Analysis Information	Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2019-001	1			449	3147	6.8	3.163		1					
Event: 82	2			450	3072	6.7	3.190		2					
Station: CH2	3			451A	3145	6.6	3.960	⇒	3	451B	3127	6.9	3.953	
Event Date (Local): 16-02-2019	4			452	1429	6.7	3.918		4					
Analysis Date (Local): 16FEB2019	5			453	2007	6.8	4.193		5					
Analyst: MB	6			454	2016	6.7	4.455		6					
Stdization Date (Local): 16FEB2019	7			455	2015	6.9	4.629		7					
KIO_3 N: 0.01198	8			456	3158	6.7	5.067		8					
Standard Titer: 0.4770	9			457	2019	6.7	5.983		9					
Blank Titer: 0.007	10			458	3109	5.9	6.391		10					
THIO N: 0.2852	11			459	2027	6.1	6.528	bottle leaking	11					
Sample Flask Water Seal? (Yes) / No	12			460	2032	6.0	6.619		12					
	13			461A	2043	6.0	6.667	⇒ Drew Duplicate from 14 not 13, as indicated on cast sheet	13	461B	3009	5.6		
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			462	2047	5.9	6.674		14	↓	↓	↓	6.681	Duplicate @ 14 not 13
	15			463	2092	6.0	6.685		15					
	16								16					
	17								17					
	18								18					
Notes: Whale.	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.

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Cruise Number: 2019-001	1			507	932	6.6	4.356		1					
Event: 86	2			508	3019	6.6	4.443		2					
Station: CH5	3			509	3143	6.7	4.859		3					
Event Date (Local): 16 02/19	4			510	3164	6.7	5.132		4					
Analysis Date (Local): 18 FEB 2019	5			511	3083	6.7	5.594		5					
Analyst: MB	6			512	3099	6.3	6.236		6					
Stdization Date (Local): 17 FEB 2019	7			513	3121	6.0	6.626		7					
KIO_3 N: 0.01198	8			514	1311	5.7	6.732		8					
Standard Titer: 0.4787	9			515A	3044	6.0	6.750	→	9	515B	3041	6.0	6.748	
Blank Titer: 0.007	10			516	3120	6.1	6.761		10					
THIO N: 0.250528	11								11					
Sample Flask Water Seal? (Yes) / No	12			5086A	622	6.5	6.759	O2 loop	12	5086B	3048	6.5	6.763	O2 loop
	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: Bender	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.

V

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Cruise Number: 2019-001	1			579	3091	6.4	5.691		1					
Event: 94	2			580	3161	6.4	5.766		2					
Station: CH14	3			581A	3023	6.2	6.157	⇒	3	581B	3132	6.3	6.154	
Event Date (Local): 2019/2/17	4			582	3126	5.7	6.687		4					
Analysis Date (Local): 18FEB19	5			583	3144	5.6	6.751		5					
Analyst: MB	6			584	3066	5.5	6.789		6					
Stdization Date (Local): 18FEB19	7			585	3096	5.7	6.818		7					
KIO_3 N: 0.01198	8			586	3209	5.5	6.856		8					
Standard Titer: 0.4787	9			587	3146	5.8	6.859		9					
Blank Titer: 0.0007	10								10					
THIO N: 0.250528	11								11					
Sample Flask Water Seal? (Yes) / No	12								12					
	13								13					
Reagent Change? ($MnCl_2$)	14								14					
(Please circle reagent that was changed prior to sampling and standardization) NaI/NaOH	15								15					
NOTE NEW BATCH IN LOG BOOK H_2SO_4	16								16					
KIO_3	17								17					
THIO	18								18					
Notes: Kite	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.

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Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2019-001	1	✓	✓	415	3053	6.6	3.121		1					
Event:	79	2	✓	✓	416	3002	6.7	3.156		2					
Station:	EDR	3	✓	✓	417	3162	6.7	3.260		3					
Event Date (Local):	15FEB2019	4	✓	✓	418A	3129	6.7	3.723	→	4	418B	3175	6.7	3.717	
Analysis Date (Local):	16FEB2019	5	✓	✓	419	3165	6.5	3.868		5					
Analyst:	MS	6	✓	✓	420	611	6.5	4.791		6					
Stdization Date (Local):	16FEB2019	7	✓	✓	421	612	6.8	5.508		7					
KIO_3 N:	0.01198	8	✓	✓	422	3043	6.4	6.524		8					
Standard Titer:	0.4790	9	✓	✓	423	708	6.2	6.636		9					
Blank Titer:	0.0057	10	✓	✓	424	510	6.1	6.679		10					
THIO N:	0.25052	11	✓	✓	425A	745	6.1	6.729	→ leaking from bottom	11	425B	2098	6.1	6.731	
Sample Flask Water Seal?	(Yes) / No	12			426	3093	6.0	6.731		12					
		13			427	3148	5.9	6.770		13					
Reagent Change?	$MnCl_2$	14			428	570	5.9	6.773		14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15			429	3138	5.8	6.771		15					
	H_2SO_4	16								16					
	KIO_3	17								17					
	THIO	18								18					
Notes: Swallow		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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Cruise Number: 2019-001	1			588	3053	6.5	5.613		1					
Event: 95	2			589	3002	6.6	5.625		2					
Station: CHAT20	3			590A	3162	6.9	5.745	⇒	3	590B	3129	6.7	5.748	B done before A
Event Date (Local): 2019/2/17	4			591	3175	6.6	5.811		4					
Analysis Date (Local): 18FEB2019	5			592	3165	6.5	5.979		5					
Analyst: MB	6			593	611	6.3	6.331		6					
Stdization Date (Local): 18FEB2019	7			594	612	6.2	6.571		7					
KIO_3 N: 0.01198	8			595	3043	6.0	6.604		8					
Standard Titer: 0.4787	9			596	708	6.0	6.637		9					
Blank Titer: 0.0057	10			597	510	6.1	6.674	OVER TITRATED	10					
THIO N: 0.250528	11			598	745	6.1	6.665	bottle leaking	11					
Sample Flask Water Seal? (Yes) / No	12			599	2098	6.1	6.651		12					
	13								13					
Reagent Change? $MnCl_2$	14								14					
(Please circle reagent that was changed prior to sampling and standardization) NaI/NaOH	15								15					
NOTE NEW BATCH IN LOG BOOK H_2SO_4	16								16					
KIO_3	17								17					
THIO	18								18					
Notes: Kite	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.

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Cruise Number:	2019-001	1			631	435	7.6	6.420		1					
Event:	101	2			632	439	7.3	6.429		2					
Station:	PRHR-74	3			633	575	6.7	6.597		3					
Event Date (Local):	17.02.2019	4			634A	456	6.5	6.706 →		4	634B	458	6.4	6.710	
Analysis Date (Local):	18FEB2019	5			635	3173	6.3	6.731		5					
Analyst:	MS	6								6					
Stdization Date (Local):	18FEB2019	7								7					
KIO_3 N:	0.01198	8								8					
Standard Titer:	0.4787	9								9					
Blank Titer:	0.0007	10								10					
THIO N:	0.250528	11								11					
Sample Flask Water Seal?	(Yes) / No	12								12					
		13								13					
Reagent Change?	$MnCl_2$	14								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								16					
	KIO_3	17								17					
	THIO	18								18					
Notes: Aea Tuttle		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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Cruise Number: 2019-001	1			644	1422	7.1	5.718		1					
Event: 103	2			645A	1416	7.3	5.738	→	2	645B	3010	7.2	5.736	
Station: CHAT 1	3			646	2094	7.2	6.063		3					
Event Date (Local): 17.02.19	4			647	3000	6.8	6.577		4					
Analysis Date (Local): 18FEB2019	5			648	1442	7.0	6.501		5					
Analyst: MB	6			649	3086	7.0	6.419		6					
Stdization Date (Local): 18FEB2019	7			650	3106	6.4	6.546		7					
KIO_3 N: 0.01198	8			651	3074	6.4	6.614		8					
Standard Titer: 0.6787	9			652	3079	6.3	6.693		9					
Blank Titer: 0.0007	10								10					
THIO N: 0.250528	11								11					
Sample Flask Water Seal? (Yes) / No	12								12					
	13								13					
Reagent Change? $MnCl_2$	14								14					
(Please circle reagent that was changed prior to sampling and standardization) NaI/NaOH	15								15					
NOTE NEW BATCH IN LOG BOOK H_2SO_4	16								16					
KIO_3	17								17					
THIO	18								18					
Notes: Sea Turtle (also PRHR-74)	19								19					
	20								20					
	21								21					
	22								22					
	23								23					
	24								24					

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Cruise Number: 2019-001	1			679	3147	6.7	7.645	OVERTITRATE - NO CURVE SOMETHING WIERD HERE	1					
Event: 107	2			680	3072	6.7	6.489		2					
Station: CH26	3			681	3145	6.8	6.398		3					
Event Date (Local): 2019/2/18	4			682	3127	6.7	6.357		4					
Analysis Date (Local): 18.02.19	5			683	1429	6.5	6.458		5					
Analyst: MG	6			684A	2007	6.5	6.515	⇒	6	684B	2016	6.5	6.519	
Stdization Date (Local): 18.02.19	7			685	2015	6.0	6.636		7					
KIO_3 N: 0.01198	8								8					
Standard Titer: 0.47873	9								9					
Blank Titer: 0.00074	10								10					
THIO N: 0.250528	11								11					
Sample Flask Water Seal? (Yes) / No	12								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								14					
	15								15					
	16								16					
	17								17					
	18								18					
Notes: Sperm whale	19								19					
	20							=	20	=				
	21								21					
	22								22					
	23								23					
	24								24					

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Cruise Number: 2019-001	1			700	2019	7.1	6.239		1					
Event: 110	2			701	3109	7.1	6.253		2					
Station: CH31	3			702	2027	7.2	6.272	6.272	3					
Event Date (Local): 2019/02/18	4			703	2032	7.1	6.287		4					
Analysis Date (Local): 18 Feb 2019	5			704A	2043	7.0	6.201	⇒	5	704B	3009	7.0	6.206	
Analyst: Jasmine Wietzke	6			705	2047	6.9	6.362		6		=			
Stdization Date (Local): 18-02-19	7			706	2092	6.9	6.394		7					
KIO_3 N: 0.01198	8			707	3032	6.6	6.433		8					
Standard Titer: 0.47873	9								9					
Blank Titer: 0.00074	10								10					
THIO N: 0.250528	11								11					
Sample Flask Water Seal? (Yes) / No	12								12					
	13								13					
Reagent Change? $MnCl_2$ / $NaI/NaOH$ / H_2SO_4 / KIO_3 / THIO (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: Sperm whale	19								19					
	20								20					
	21								21					
	22								22					
	23								23					
	24								24					

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Cruise Number:	2019-001	1			733	435	8.7	2.227		1					
Event:	127	2			734	439	8.6	2.766		2					
Station:	22	3			735	575	8.5	3.863		3					
Event Date (Local):	20 02/19	4			736	456	8.5	4.112		4					
Analysis Date (Local):	21.02.19	5			737	458	8.4	4.428		5					
Analyst:	MG	6			738	3173	8.3	4.826	OVERTITRATÉ WONKY CURVE LATE	6					
Stdization Date (Local):	21.02.19	7			739	3180	7.9	5.056		7					
KIO_3 N:	0.01198	8			740	1422	7.4	5.909		8					
Standard Titer:	0.4789334	9			741A	1416	6.9	6.516	⇒	9	741B	3010	6.9	6.523	
Blank Titer:	0.0007404	10			742	2094	7.0	6.831		10					
THIO N:	0.250658	11			743	1442	6.9	6.637		11					
Sample Flask Water Seal?	(Yes) / No	12								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:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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Cruise and Analysis Information	
Cruise Number:	2019-001
Event:	136
Station:	GEO1
Event Date (Local):	2/FEB 2019
Analysis Date (Local):	21FEB2019
Analyst:	MB
Stdization Date (Local):	21FEB2019
KIO_3 N:	0.01198
Standard Titer:	0.4789
Blank Titer:	0.0007
THIO N:	0.250658
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:	Sperm whale

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1	✓	✓	753	3147	8.8	2.153	Didn't put top in
2	✓	✓	754	3072	8.9	3.045	
3	✓	✓	755	3145	8.5	3.852	
4			756	3127	8.5	3.840	
5			757	1429	8.0	4.210	
6			758A	2007	7.4	4.560	⇒
7			759	2015	7.1	5.588	
8			760	3158	6.8	5.567	
9			761	2019	6.6	5.198	
10			762	3109	6.6	5.469	
11			763	2027	6.5	5.360	
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5					
6	758B	2016	7.4	5.032	Really bad dup?
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

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Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
Cruise Number:	2019-001	1			767	2043	8.8	2.598	
Event:	141	2			768	3009	8.5	3.352	
Station:	42	3			769	2047	8.2	4.964	
Event Date (Local):	21 FEB 2019	4			770	2092	8.1	5.012	
Analysis Date (Local):	MB 21 FEB 19	5			771	3032	7.9	4.817	
Analyst:		6			772	3033	7.7	5.327	
Stdization Date (Local):	21 FEB 2019	7			773A	3054	7.4	5.779	⇒
KIO_3 N:	0.01198	8			774	3065	6.8	6.530	
Standard Titer:	0.4789	9			775	3094	6.7	6.708	
Blank Titer:	0.0007	10			776	3116	6.7	6.789	
THIO N:	0.250658	11			777	3100	6.6	6.913	
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							
		14							
		15							
		16							
		17							
		18							
Notes:	sperm whale	19							
		20							
		21							
		22							
		23							
		24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5					
6					
7	773B	3062	7.5	5.781	
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

IOS

Last Updated: July 2018

Cruise and Analysis Information	
Cruise Number:	2019-001
Event:	143
Station:	HARO5
Event Date (Local):	21FEB2019
Analysis Date (Local):	21.02.19
Analyst:	MG
Stdization Date (Local):	21.02.19
KIO_3 N:	0.01198
Standard Titer:	0.47789334
Blank Titer:	0.00007404
THIO N:	0.250658
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:	

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			778	3036	7.6	5.519	
2			779	3106	7.6	5.543	
3			780A	3074	7.7	5.558	→
4			781	3098	7.7	5.554	
5			782	3088	7.7	5.562	
6			783	3089	7.7	5.614	
7			784	3090	7.7	5.611	
8			785	3095	7.7	5.623	
9			786	3084	7.7	5.626	
10			787	3101	7.8	5.637	
11			788A	3142	7.8	5.664	→ OVERTITRATE WATE
12			789	3133	7.8	5.672	
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3	780B	3079	7.7	5.555	
4					
5					
6					
7					
8					
9					
10					
11	788B	3103	7.8	5.667	
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

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