

Dissolved Oxygen Analysis Log Sheet

Last Updated: March 2014

Institute of Ocean Sciences
Water Properties Group

Run dummy sample (99^{1st}), then run without this in sample, backed up 1 and retested.

Cruise and Analysis Information								Nisk ID	Nisk Int V	S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2015-09	1	✓	✓	1	3083	113	7.3	2.173		1	3084	7.3	2.174								
Event: 5	2	✓	✓	2	3085	30	8.6	3.756		2											
Station: P1	3	✓	✓	3	3086	5	11.1	6.710		3											
Event Date (Local): 8 JUN 2015	4									4											
Analysis Date (Local): 11 JUN 2015	5									5											
Analyst: MB	6									6											
Stdization Date (Local): 11 JUN 2015	7									7											
KIO ₃ N: 0.0101564	8									8											
Standard Titer: 0.4280	9									9											
Blank Titer: 0.0003	10									10											
THIO N: 0.237145	11									11											
Sample Flask (Yes)	12									12											
Water Seal? No	13									13											
Reagent Change? MnCl ₂	14									14											
(Please circle reagent that was changed prior to sampling and standardization)	15									15											
NOTE NEW BATCH IN LOG BOOK	16									16											
	17									17											
	18									18											
Notes:	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	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2015-09	1			4	3089	105	7.3	2.431		1				
Event:	6	2			5	3090	100	7.2	2.413		2				
Station:	P2	3			6	3093	75	7.7	4.104		3				
Event Date (Local):	8 JUN 2015	4			7	3094	75	7.7	4.105		4	3095	7.7	4.104	
Analysis Date (Local):	11 JUN 2015	5			8	3096	50	8.1	4.507		5				
Analyst:	MB	6			9	3098	25	9.4	4.978		6				
Stdization Date (Local):	11 JUN 2015	7			10	3099	10	12.0	7.762		7				
KIO ₃ N:	0.0101504	8			11	3100	5	12.1	7.816		8				
Standard Titer:	0.4280	9									9				
Blank Titer:	0.0003	10									10				
THIO N:	0.237145	11									11				
Sample Flask	Yes	12									12				
Water Seal?	No	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 ₂ SO ₄	16									16				
	KIO ₃	17									17				
	THIO	18									18				
Notes:		19									19				
Moby Box: following P1		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:	2015-09	1		38	2055	132	3.9	0.477		1				
Event:	10	2		39	2056	1250	4.0	0.396		2				
Station:	P4 Deep	3		40	2059	1250	4.0	0.388		3	2060	4.2	0.404	
Event Date (Local):	9 JUN 2015	4		41	2063	1000	4.6	0.256		4				
Analysis Date (Local):	11 JUN 2015	5		42	2064	800	5.2	0.225		5				
Analyst:	MB	6		43	2065	600	5.7	0.485		6				
Stdization Date (Local):	11 JUN 2015	7		44	2068	400	6.2	1.388		7				
KIO ₃ N:	0.0101504	8		45	2069	300	6.8	2.001		8				
Standard Titer:	0.4280	9		46	2073	250	7.3	2.549		9				
Blank Titer:	0.0003	10		47	2075	200	7.6	2.963		10				
THIO N:	0.237145	11		48	2080	175	7.9	3.206		11				
Sample Flask Water Seal?	Yes	12		49	2082	150	8.0	3.790		12				
	No	13		50	2084	125	8.0	4.579		13				
Reagent Change?	MnCl ₂	14		51	2085	100	8.7	4.961		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		52	2086	75	10.1	5.856		15	2087	10.1	5.857	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		53	2088	50	10.4	6.235		16				
	KIO ₃	17		54	2089	25	11.9	6.536		17				
	THIO	18		55	2090	10	11.9	6.534		18				
Notes:		19		56	2091	5	12.0	6.535		19				
		20								20				
		21								21				
		22								22				
		23								23				
		24								24				

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Note: I ran niskin 16 after niskin 10, Manually changed flask #, etc, grabbed wrong flask

Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2015-09	1			135A	3124	2000	3.1	1328		1	3125	3.3	1313	135B
Event:	18	2			136	3126	1500	3.5	0.617		2				
Station:	P8	3			137	3127	1250	3.9	0.364		3				
Event Date (Local):	10 JUN 2015	4			138	3129	1000	4.4	0.248		4				
Analysis Date (Local):	11 JUN 2015	5			139	3131	800	4.9	0.341	Small bubble in O2 sat	5				
Analyst:	MB	6			140	3132	600	5.3	0.489		6				
Stdization Date (Local):	11 JUN 2015	7			141	3133	400	6.0	1.648		7				
KIO ₃ N:	0.0101504	8			142	3134	300	6.5	2.388		8				
Standard Titer:	0.4280	9			143A	3135	250	7.0	3.108		9	3137	7.1	3.108	143B
Blank Titer:	0.0003	10			144	3138	200	7.5	3.613		10				
THIO N:	0.237145	11			145	3142	175	7.7	4.252		11				
Sample Flask	Yes	12			146	3143	150	7.8	4.711		12				
Water Seal?	No	13			147	3144	125	8.2	5.019		13				
Reagent Change?	MnCl ₂	14			148	3145	100	8.2	5.349		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			149	3146	75	10.8	6.238		15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			150	3147	50	11.9	6.382		16				
	KIO ₃	17			151A	3148	25	12.3	6.299		17	3150	12.3	6.301	151B
	THIO	18			152	3158	10	12.5	6.275		18				
Notes:		19			153	3164	5	12.5	6.271		19				
		20									20				
		21									21				
		22									22				
		23									23				
		24									24				

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Cruise Number:	2015-09	1			180	3005	3274	2.8	2.300		1				
Event:	24	2			181	3007	3000	2.7	2.262		2				
Station:	P12	3			182	3008	3000	2.6	2.260		3				
Event Date (Local):	10 Jun 2015	4			183	3009	2500	2.8	1.856		4				
Analysis Date (Local):	14 Jun 2015	5			184 ^A	3010	2000	3.1	1.283		5	3013 ^B	3.1	1.291	
Analyst:	MS	6			185	3014	500	2.4	0.572		6				
Stdization Date (Local):	14 Jun 2015	7			186	3016	1250	4.0	0.330		7				
KIO ₃ N:	0.0101504	8			187	3018	1000	4.3	0.246		8				
Standard Titer:	0.42826 (20°C)	9			188 ^A	3019	800	4.7	0.341		9	3020 ^B	4.9	0.331	
Blank Titer:	0.00021	10			189	3021	600	5.3	0.711		10				
THIO N:	0.236996	11			190	3022	400	5.6	1.978		11				
Sample Flask	(Yes)	12			191	3023	300	6.2	3.201		12				
Water Seal?	No	13			192	3025	250	6.8	3.660		13				
Reagent Change?	MnCl ₂	14			193	3028	200	7.5	4.177		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			194 ^A	3029	175	8.1	4.526		15	3030 ^B	8.1	4.537	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			195	3031	150	8.1	4.309		16				
	KIO ₃	17			196	3032	125	8.1	4.719		17				
	THIO	18			197	3033	100	8.8	5.191		18				
Notes:		19			198	3034	75	10.3	6.150		19				
		20			199	3035	50	10.5	6.552		20				
		21			200	3036	25	12.7	6.354		21				
		22			201	3037	10	13.4	6.217		22				
		23			202 ^A	3038	5	13.5		no water seal. flask cracked and exploded over everything when placed on bench	23	3040 ^B	13.5	6.214	
		24									24				

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Cruise Number:	2015-09	1	✓✓	287	3044	3083	2.4	2.733		1				
Event:	41	2	✓✓	288	3046	3501	2.5	2.673		2				
Station:	P16	3	✓✓	289	3047	3500	2.4	2.672		3	3048	2.6	2.676	
Event Date (Local):	12 JUN 2015	4	✓✓	290	3049	3001	2.6	2.412	Redraw	4				
Analysis Date (Local):	15 JUN 2015	5	✓✓	291	3050	2500	2.8	1.856		5				
Analyst:	mb	6	✓✓	292	3051	2001	2.9	1.223		6				
Stdization Date (Local):	14 JUN 2015	7	✓✓	293	3052	1500	3.4	0.523		7				
KIO ₃ N:	0.061504	8	✓✓	294	3053	1250	3.8	0.311		8				
Standard Titer:	0.4282615	9	✓✓	295	3054	1000	4.1	0.326		9				
Blank Titer:	0.0002107	10	✓✓	296	3055	800	4.6	0.455		10	3056	4.7	0.449	
THIO N:	0.236996	11	✓✓	297	3057	600	5.2	0.718		11				
Sample Flask Water Seal?	Yes No	12	✓✓	298	3059	400	5.6	1.614		12				
		13	✓✓	299	3061	300	5.9	2.444		13				
Reagent Change?	MnCl ₂	14	✓✓	300	3062	250	6.2	3.119		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓✓	301	3065	200	6.8	3.931	leaky vent	15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16	✓✓	302	3066	175	7.3	4.300		16	3067	7.3	4.298	
	KIO ₃	17	✓✓	303	3068	150	7.5	4.748	leaky vent	17				
	THIO	18	✓✓	304	3070	125	7.6	5.012		18				
Notes:		19	✓✓	305	3072	100	8.7	5.806		19				
		20	✓✓	306	3073	75	9.4	6.554		20				
		21	✓✓	307	3074	50	10.1	6.702		21				
		22	✓✓	308	3075	25	12.7	6.367		22	3076	12.7	6.370	
		23	✓✓	309	3078	10	12.7	6.369		23				
		24	✓✓	310	3079	5	12.7	6.368		24				

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Cruise Number:	2015-09	1			334	3083	9025	2.4	2.967		1				
Event:	50	2			335	3084	3500	2.3	2.848		2				
Station:	P20	3			336	3085	3500	2.2	2.834		3				
Event Date (Local):	13 JUN 2015	4			337	3086	3000	2.3	2.457		4				
Analysis Date (Local):	15 JUN 2015	5			338	3088	2500	2.4	1.847		5	3089	2.6	1.844	
Analyst:	MR	6			339	3090	2000	2.6	1.230		6				
Stdization Date (Local):	14 JUN 2015	7			340	3093	1500	3.1	0.484		7				
KIO ₃ N:	0.0101504	8			341	3094	1250	3.3	0.322		8				
Standard Titer:	0.428215	9			342	3095	1000	3.8	0.352		9	3096	3.8	0.353	
Blank Titer:	0.0002107	10			343	3098	800	4.1	0.468		10				
THIO N:	0.23994	11			344	3099	600	4.6	0.674		11				
Sample Flask	(Yes)	12			345	3100	400	4.9	1.480		12				
Water Seal?	No	13			346	3101	300	5.3	2.195		13				
Reagent Change?	MnCl ₂	14			347	3103	250	5.5	2.767		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			348	3104	200	5.9	3.340		15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			349	3106	175	6.2	3.763		16	3107	6.2	3.689	
	KIO ₃	17			350	3108	150	6.7	4.067		17				
	THIO	18			351	3109	125	7.0	4.419		18				
Notes:		19			352	3110	100	7.4	5.213		19				
		20			353	3111	75	8.3	6.621		20				
		21			354	3114	50	9.0	6.658		21				
		22			355	3116	25	10.4	6.879		22				
		23			356	3117	10	11.7	6.590		23				
		24			357	3118	5	11.7	6.578		24	3119	11.7	6.586	

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Cruise Number: 2015-09		1			423	2055	4316	2.4	3.218		1				
Event: 78		2			424	2056	4100	2.1	3.145		2				
Station: P26 1		3			425	2059	3500	2.3	2.915		3				
Event Date (Local): 16 JUN 15		4			426	2060	3000	2.2	2.507		4				
Analysis Date (Local): 16 JUN 15		5			427	2063	2500	2.4	1.995		5	2064	2.6	1.979	
Analyst: MB		6			428	2065	2000	2.5	1.325		6				
Stdization Date (Local): 16 JUN 15		7			429	2068	1500	2.8	0.571	Small bubbles @ neck	7				
KIO ₃ N: 0.0101504		8			430	2067	1250	3.1	0.457		8				
Standard Titer: 0.42841871		9			431	2073	1000	3.4	0.492		9				
Blank Titer: 0.0002139		10			432	2075	800	3.8	0.519		10				
THIO N: 0.226885		11			433	2080	600	4.1	0.603		11				
Sample Flask Water Seal? ☒ Yes ☐ No		12			434	2082	400	4.5	1.235		12				
Reagent Change? MnCl ₂		13			435	2089	300	4.6	1.727		13				
(Please circle reagent that was changed prior to sampling and standardization)		14			436	2085	250	4.7	2.185		14	2086	4.7	2.164	
NOTE NEW BATCH IN LOG BOOK		15			437	2087	200	5.1	2.807		15				
		16			438	2088	175	5.4	3.121		16				
		17			439	2089	150	5.7	3.529		17				
		18			440	2090	125	6.0	3.932		18				
Notes:		19			441	2091	100	6.3	5.000		19				
		20			442	2092	75	7.0	6.808		20	2094	7.0	6.808	
		21			443	2095	50	7.4	6.987		21				
		22			444	2097	25	8.3	6.917		22				
		23			445	2098	10	10.3	6.669		23				
		24			446	2099	5	10.3	6.666		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.

Amuda 115-214 103C 13.6
117C

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Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2015-09		1		570	2055					1				
Event: 106		2	✓	✓	570	2055	1250	4.0	0.483	2	2059			571B 1250m
Station: P4		3	✓	✓	571A	2058	1250	4.0	0.385	3	2059	4.2	0.393	571B 1250m
Event Date (Local): 20/6/15		4		✓	572	2060	1000	4.7	0.211	4				
Analysis Date (Local): 21 Jun 2015		5	✓	✓	573	2063	800	5.2	0.272	5				
Analyst: MB		6		✓	574	2064	600	5.8	0.484	6				
Stdization Date (Local): 20 Jun 2015		7	✓	✓	575	2065	400	6.5	1.234	7				
KIO ₃ N: 0.0101504		8	✓	✓	576	2068	200	7.7	3.202	8				
Standard Titer: 0.4275		9		✓	577	2069	100	9.3	Abort	9				
Blank Titer: 0.0002		10	✓	✓	578	2073	75	10.8	6.172	10				
THIO N: 0.237202		11	✓	✓	579	2075	50	11.8	6.394	11				
Sample Flask Water Seal? Yes		12	✓	✓	580	2080	25	12.3	6.618	12				
		13	✓	✓	581	2082	10	13.9	6.194	13				
Reagent Change? MnCl₂		14	✓	✓	582	2084	5	13.9	6.182	14				
(Please circle reagent that was changed prior to sampling and standardization)		15								15				
NOTE NEW BATCH IN LOG BOOK		16								16				
		17								17				
		18								18				
Notes:		19								19				
		20								20				
		21								21				
		22								22				
		23								23				
		24								24				

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Cruise Number:	2015-09	1			585	324		7.3	1.935		1				
Event:	108	2			586	325	100	7.2	1.898		2				
Station:	P2	3			587	326	75	7.5	2.533		3				
Event Date (Local):	21 Jun 2015	4			588	327	50	8.1	3.583	messy titration	4	329	8.1	3.591	
Analysis Date (Local):	24 Jun 2015	5			589	331	25	9.5	4.548		5				
Analyst:	MB	6			590	332	10	11.9	8.265		6				
Stdization Date (Local):	20 Jun 2015	7			591	333	5	11.9	7.848		7				
KIO ₃ N:	0.0101504	8									8				
Standard Titer:	0.4275	9									9				
Blank Titer:	0.0062	10									10				
THIO N:	0.257202	11									11				
Sample Flask	Yes	12									12				
Water Seal?	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				
Notes:		19									19				
		20									20				
		21									21				
		22									22				
		23									23				
		24									24				

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