

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: March 2014

RED

Cruise and Analysis Information		Nisk ID	Risk Int V	Risk Int S	Sample ID	Flask 1	Depth (m)	Draw T1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2014-50	1			1	3029	100	9.8	0.464		1				
Event:	1	2			2	2088	75	10.1	2.552		2				
Station:	SI	3			3	3119	50	10.4	3.091		3				
Event Date (Local):	Oct 26, 2014	4			4	3031	40	10.6	3.316		4				
Analysis Date (Local):	26 Oct 2014	5			5	647	30	10.7	3.483		5				
Analyst:	KS	6			6	2086	20	10.9	→ 3.500		6	2007	10.9	3.594	
Stdization Date (Local):	26 Oct 2014	7			7	3074	10	11.1	3.319		7				
KIO ₃ N:	0.0103040	8			8	2025	5	11.2	3.859		8				
Standard Titer:	0.7340	9			9	2040	0	11.1	5.755		9				
Blank Titer:	0.0030	10									10				
THIO N:	0.14109	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:	sample: KS	19									19				
	pickle: PC	20									20				
	Black soot from stack	21									21				
	all over sample flasks	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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Silver

Cruise and Analysis Information														
	Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Depth (m)	Draw T1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-50	1			10	2064	224	10.0	3.909		1				
Event: 2	2			11	3018	200	10.0	3.916		2				
Station: sta 59	3			12	3028	175	9.9	3.907		3				
Event Date (Local): 26 Oct 2014	4			13	1408	150	9.9	3.897	→	4	2047	9.9	3.891	
Analysis Date (Local): 26 Oct 2014	5			14	3023	125	9.9	3.915		5				
Analyst: KS	6			15	3007	100	10.0	3.918		6				
Stdization Date (Local): 26 Oct 2014	7			16	3104	75	9.9	3.916		7				
KIO ₃ N: 0.0103040	8			17	3034	50	9.9	3.921		8				
Standard Titer: 0.7340	9			18	3116	40	9.9	3.909		9				
Blank Titer: 0.0030	10			19	3014	30	9.9	3.915	→	10	658	10.0	3.945	
THIO N: 0.14109	11			20	708	20	10.1	3.984		11				
Sample Flask Water Seal? Yes	12			21	371	10	10.1	4.015		12				
	13			22	3009	5	10.1	4.036		13				
Reagent Change? MnCl ₂	14			23	2017	0	10.2	4.071		14				
(Please circle reagent that was changed prior to sampling and standardization)	15									15				
	16									16				
NOTE NEW BATCH IN LOG BOOK	17									17				
	18									18				
Notes: Sample: KS	19									19				
Fix: PC	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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SILVER

Cruise and Analysis Information		ID	V	S	ID	Flask 1	Depth (m)	Temp T1 (°C)	OXY 1 (mL/L)	Comments	ID	Flask 2	Draw T2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2014-50	1			24	2064	250	8.1	1.926	- large particle (looks like a chebagnath) swirling in sample. A little noise but OK. Curve a mess. OT was good.	1				
Event:	5	2			25	3018	250	8.1	0.420		2				
Station:	sn; 102	3			26	3028	200	8.1	1.936		3				
Event Date (Local):	27 Oct 2014	4			27	1408	175	8.2	2.135		4				
Analysis Date (Local):	27 Oct 2014	5			28	2047	150	8.5	2.477	→ FT = 0.326 OT = 0.420 mL/L	5	3023	8.5	2.466	
Analyst:	KS	6			29	3007	125	9.2	2.681		6				
Stdization Date (Local):	26 Oct 2014	7			30	3104	100	10.3	3.681		7				
KIO ₃ N:	0.0103040	8			31	3034	75	11.3	4.256		8				
Standard Titer:	0.7340	9			32	3116	50	14.1	5.423		9				
Blank Titer:	0.0030	10			33	3014	40	14.4	5.551		10				
THIO N:	0.14109	11			34	658	30	14.5	5.647	→	11	708	14.5	5.626	
Sample Flask Water Seal?	Yes	12			35	371	20	14.5	5.713		12				
	No	13			36	3009	10	14.4	5.732		13				
Reagent Change?	MnCl ₂	14			37	2017	5	14.5	5.734		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			38	3194	0	14.5	5.732		15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16									16				
	KIO ₃	17									17				
	THIO	18									18				
Notes:	Sampler: SR	19									19				
	Fixer: MG	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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RED

Cruise and Analysis Information		ID	V	S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2014-50	2	1		39	3029	217	8.2	2.053		1				
Event:	6	3	2		40	2088	200	8.1	2.053		2				
Station:	75	4	3		41	3119	175	8.1	2.058		3				
Event Date (Local):	27 Oct 2014	5	4		42	3031	150	8.2	2.159	→	4	647	8.2	2.159	
Analysis Date (Local):	27 Oct 2014	6	5		43	2086	125	8.9	2.728		5				
Analyst:	KS	7	6		44	2007	100	9.9	3.305		6				
Stdization Date (Local):	26 Oct 2014	8	7		45	3074	75	11.3	4.324		7				
KIO ₃ N:	0.0103040	9	8		46	2025	50	12.6	4.865	→	8	2040	12.6	4.863	
Standard Titer:	0.7340	10	9		47	3072	40	13.3	5.062		9				
Blank Titer:	0.0030	11	10		48	2073	30	13.7	5.243		10				
THIO N:	0.14109	12	11		49	575	20	14.1	5.483		11				
Sample Flask	Yes	13	12		50	3137	10	14.2	5.511		12				
Water Seal?	No	14	13		51	439	5	14.3	5.547		13				
Reagent Change?	MnCl ₂	15	14		52	3041	0	14.6	5.547		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	16	15								15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	17	16								16				
	KIO ₃	18	17								17				
	THIO	19	18								18				
Notes:	Sampler: SR	20	19								19				
	Fixer: MG	21	20								20				
	BOTTLE 1 TRIPPED ON WAY DOWN	22	21								21				
		23	22								22				
		24	23								23				
			24								24				

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Cruise Number:	2014-50	1			53	3063	180	8.4	2.369	Bottle leak with	1				
Event:	7	2			54	3042	175	8.4	2.363		2				
Station:	72	3			55	3121	150	8.5	2.229		3				
Event Date (Local):	27-10-14	4			56 ^A	3040	125	9.3	2.806	→	4	3025	9.3	2.797	
Analysis Date (Local):	27 Oct 2014	5			57	3178	100	9.6	3.027		5				
Analyst:	KS	6			58	3070	75	10.8	4.005		6				
Stdization Date (Local):	26 Oct 2014	7			59	1223	50	11.5	4.988		7				
KIO ₃ N:	0.01003048	8			60	3076	40	12.7	4.570		8				
Standard Titer:	0.7340	9			61	2063	30	12.8	5.022		9				
Blank Titer:	0.0030	10			62 ^A	458	20	13.4	5.244	→ wrong depth input into AutoOxy	10	3166	13.4	5.246	
THIO N:	0.14109	11			63	3068	10	13.1	5.567		11				
Sample Flask Water Seal?	☒ Yes ☐ No	12	?		64	569	5	13.1	5.672	↑ ↑ ↑ ↑	12				
Reagent Change?	MnCl ₂ NaI/NaOH H ₂ SO ₄ KIO ₃ THIO	13	?		65	1054	0	13.3	5.674	Bottle leak with valve closed O-ring?	13				
(Please circle reagent that was changed prior to sampling and standardization)		14								CHANGED O-RING ON 12	14				
NOTE NEW BATCH IN LOG BOOK		15								KEEP EYE ON 13	15				
		16									16				
		17									17				
		18									18				
Notes:	BROWN BOX sampler: SR fixer: MG	19									19				
		20									20				
		21									21				
		22									22				
		23									23				
		24									24				

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Cruise and Analysis Information		ID	V	S	ID	Flask 1	(m)	T 1 (°C)	(mL/L)	Comments	ID	Flask 2	T 2 (°C)	(mL/L)	Comments
Cruise Number:	2014-50	1			66	3086	171	8.9	X	Bubble on lens. Titration ended	1				
Event:	8	2			67	3181	150	8.9	2.329	prematurely. OT was perfect.	2				
Station:	69	3			68	3095	125	9.1	2.482	FT=0.329 OT=0.472 mL/L	3				
Event Date (Local):	27-10-14	4			69 ^A	1050	106	10.0	3.421		4	745	10.0	3.436	???
Analysis Date (Local):	27 Oct. 2014	5			70	637	75	10.6	3.998		5				
Analyst:	KS	6			71	3085	50	11.5	4.138		6				
Stdization Date (Local):	26 Oct. 2014	7			72	3088	46	12.5	4.879		7				
KIO ₃ N:	0.0103040	8			73 ^A	1055	36	13.0	5.132		8	1015	12.9	5.130	
Standard Titer:	0.7340	9			74	612	26	13.1	5.315		9				
Blank Titer:	0.0030	10			75	2660	16	13.4	5.535		10				
THIO N:	0.14109	11			76	1035	5	13.5	5.538		11				
Sample Flask Water Seal?	Yes	12			77	3084	6	13.6	5.548		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				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16									16				
	KIO ₃	17									17				
	THIO	18									18				
Notes:	GREEN	19									19				
	Sampler: KS	20									20				
	Fixer: PC	21									21				
	B-sampled before A replicates	22									22				
		23									23				
		24									24				

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Blue

Cruise and Analysis Information								Flask 1				Flask 2			
ID	V	S	ID	Flask 1	Depth (m)	T1 (°C)	OXY-1 (mL/L)	ID	Flask 2	Depth (m)	T2 (°C)	OXY-2 (mL/L)	Comments		
1			78	2098	115	10.3	3.952	1							
2			79	2049	100m	10.3	3.998	2							
3			80	2090	75m	10.4	4.004 →	3	621	10.3	4.004				
4			81	1053	50m	10.3	4.025	4							
5			82	468	40m	10.5	4.176	5							
6			83	3038	30	10.7	4.345	6							
7			84	2061	20	10.8	4.432	7							
8			85	3111	10	10.9	4.533 →	8	3190	10.9	4.543	endpt is late.			
9			86	712	5	11.3	4.701	9							
10			87	3142	0	11.8	4.937	10							
11								11							
12								12							
13								13							
14								14							
15								15							
16								16							
17								17							
18								18							
19								19							
20								20							
21								21							
22								22							
23								23							
24								24							

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White

Cruise and Analysis Information		ID	V	S	ID	Flask 1	Depth (m)	Temp T1 (°C)	OXY 1 (mL/L)	Comments	ID	Flask 2	Temp T2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2014-50	1			98	1404	143	10.8	4.125		1				
Event:	11	2			99	1418	125	10.5	4.200		2				
Station:	stn 62	3			100	1401	100	11.1	4.413	→	3	1426	11.1	4.404	
Event Date (Local):	27 Oct 2014	4			101	1409	75	11.3	4.653		4				
Analysis Date (Local):	27 Oct 2014	5			102	1446	50	11.2	4.745		5				
Analyst:	KS	6			103	1427	40	11.3	X	- many particles in sample. No d-surf	6				
Stdization Date (Local):	26 Oct 2014	7			104	1416	30	11.3	4.772	→ FT = 0.834 titration	7	1443	11.3	4.767	- wrong sample ID + depth
KIO ₃ N:	0.0103040	8			105	1422	20	11.6	4.804	OT = 0.303 mL/L	8				
Standard Titer:	0.7340	9			106	1433	10	11.7	4.827	Chunk stuck in	9				
Blank Titer:	0.0030	10			107	1411	5	11.7	4.868	↳ was surprisingly light path	10				
THIO N:	0.14109	11			108	1402	0	11.7	4.886	good	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				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16									16				
	KIO ₃	17									17				
	THIO	18									18				
Notes:	Sample: KS	19									19				
	Fix: PC	20									20				
		21									21				
		22									22				
		23									23				
		24									24				

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Green

Cruise and Analysis Information		ID	V	S	ID	Flask 1	Depth (m)	Temp (°C)	OXY 1 (mL/L)	Comments	ID	Flask 2	Depth (m)	Temp (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2014-50	1			109	3086	208	10.1	3.903		1					
Event:	12	2			110	3181	200	10.0	3.893		2					
Station:	56	3			111	3095	175	10.0	3.885		3					
Event Date (Local):	28 Oct 2014	4			112	1050	150	10.0	3.870	→	4	745	100		3.881	
Analysis Date (Local):	28 Oct 2014	5			113	657	125	10.0	3.881		5					
Analyst:	KS	6			114	3085	100	10.0	3.866		6					
Stdization Date (Local):	28 Oct 2014	7			115	3088	75	10.0	3.818		7					
KIO ₃ N:	0.0103040	8			116	1055	50	10.0	3.856		8					
Standard Titer:	0.7340 0.7338	9			117	1015	40	10.0	3.856	→	9	612	10.0		3.853	
Blank Titer:	0.0030	10			118	2060	30	10.1	3.996		10					
THIO N:	0.14113	11			119	1035	20	10.2	4.270	- Must check endpoint. Titration good	11					
Sample Flask	(Yes)	12			120	3084	10	10.3	4.458		12					
Water Seal?	No	13			121	3124	5	10.3	4.575		13					
Reagent Change?	MnCl ₂	14			122	2056	0	10.3	4.671		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:	Sample: KS	19									19					
	Fic: PC	20									20					
	Very windy during sample collection.	21									21					
		22									22					
		23									23					
		24									24					

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Cruise and Analysis Information		ID	V	S	Sample ID	Flask 1	Depth (m)	Draw T1 (°C)	OXY 1 (mL/L)	Comments	ID	Flask 2	Draw T2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2014-50	1			123 1404	1404	175	9.7	3.313		1				
Event:	13	2			124	1418	150	9.9	3.724		2				
Station:	46	3			125	1401	125	10.0	3.863	→	3	1426	10.0	3.853	
Event Date (Local):	28 Oct 2014	4			126	1469	100	10.1	3.897		4				
Analysis Date (Local):	28 Oct 2014	5			127	1446	75	9.8	3.336		5				
Analyst:	KS	6			128	1427	50	9.8	3.616		6				
Stdization Date (Local):	28 Oct 2014	7			129	1416	40	10.0	3.779	→	7	1443	9.9	3.755	
KIO ₃ N:	0.0103040	8			130	1422	30	10.1	4.052		8				
Standard Titer:	0.7338	9			131	1434	20	10.3	4.352		9				
Blank Titer:	0.0030	10			132	1411	10	10.8	5.419		10				
THIO N:	0.14113	11			133	1402	5	10.6	5.907		11				
Sample Flask Water Seal?	☒ Yes	12			134	1407	0	10.6	5.926		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				
NOTE NEW BATCH IN LOG BOOK	☒ H ₂ SO ₄	16									16				
	☒ KIO ₃	17									17				
	☒ THIO	18									18				
Notes:	WHITE BOX	19									19				
	Sample: SR	20									20				
	Fix: MG	21									21				
		22									22				
		23									23				
		24									24				

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Cruise and Analysis Information		ID	V	S	ID	Flask 1	Depth (m)	Temp (°C)	OXY 1 (mL/L)	Comments	ID	Flask 2	Temp (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2014-50	1			135	2098	312	9.2	2.805		1				
Event:	14	2			136	2099	300	9.2	2.810		2				
Station:	42	3			137	2090	250	9.2	2.891		3				
Event Date (Local):	28 10 14	4			138	621	200	9.2	2.907		4				
Analysis Date (Local):	28 Oct 2014	5			139 ^A	1053	175	9.3	2.955	Funny step near endpoint.	5	468	9.5	2.942	
Analyst:	KS	6			140	3038	150	9.5	3.006	Please check endpoint placement.	6				
Stdization Date (Local):	28 Oct 2014	7			141	2061	125	9.7	3.222		7				
KIO ₃ N:	0.0103040	8			142	3111	100	9.8	3.309		8				
Standard Titer:	0.7338	9			143	3190	75	9.8	3.289		9				
Blank Titer:	0.0030	10			144 ^A	712	50	9.6	3.254		10	3142	9.6	3.244	
THIO N:	0.14113	11			145	3118	40	9.7	3.521		11				
Sample Flask	Yes	12			146	510	30	9.7	3.536		12				
Water Seal?	No	13			147	3067	20	10.1	4.519		13				
Reagent Change?	MnCl ₂	14			148	3009	10	10.9	5.335		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			149	611	5	10.6	5.853		15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			150	2014	0	10.5	6.451		16				
	KIO ₃	17									17				
	THIO	18									18				
Notes:	73LUE	19									19				
	Sample: SR	20									20				
	Fix: MG	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.

Silver

Dissolved Oxygen Analysis Log Sheet

Last Updated: March 2014

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information		ID	V	S	ID	Flask 1	Depth (m)	Temp T1 (°C)	OXY 1 (mL/L)	Comments	ID	Flask 2	Temp T2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2014-50	1			151	2064	370	9.3	2.732		1				
Event:	18	2			152	3018	350	9.4	2.778		2				
Station:	39	3			153	3028	300	9.3	2.866	→ plankton spinning around in sample	3	1908	9.3	2.864	
Event Date (Local):	28 Oct 14	4			154	2047	250	9.3	2.929		4				
Analysis Date (Local):	28 Oct 2014	5			155	3023	200	9.5	2.917		5				
Analyst:	KS	6			156	3007	175	9.5	2.923		6				
Stdization Date (Local):	28 Oct 2014	7			157	3104	150	9.7	3.073		7				
KIO ₃ N:	0.0103040	8		X	158	3034	125	9.7	3.079	- spigot pushed in. - "No leak"	8				
Standard Titer:	0.7338	9			159	3116	100	10.0	3.263		9				
Blank Titer:	0.0030	10			160	3014	75	9.7	3.317		10				
THIO N:	0.14113	11			161	658	50	9.9	3.885		11				
Sample Flask Water Seal?	☒ Yes ☐ No	12			162	708	40	10.0	4.108	→	12	371	10.0	3.815	- incorrect flask ID. Must be recalculated.
Reagent Change?	MnCl ₂ ☒ NaI/NaOH ☐ H ₂ SO ₄ ☐ KIO ₃ ☐ THIO	13			163	3009	30	10.3	4.481		13				
(Please circle reagent that was changed prior to sampling and standardization)		14			164	2017	20	10.3	4.475		14				
NOTE NEW BATCH IN LOG BOOK		15			165	3194	10	10.7	4.894		15				
		16			166	3019	5	10.0	5.388		16				
		17			167	2020	0	10.7	6.075	leaker	17				
		18									18				
		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.

Dissolved Oxygen Analysis Log Sheet

Last Updated: March 2014

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information								Flask 1				Flask 2			
ID	V	S	ID	Flask 1	(m)	T 1 (°C)	(mL/L)	Comments	ID	Flask 2	T 2 (°C)	(mL/L)	Comments		
Cruise Number: 2014-50	1		168	2065	150	9.3	3.197		1						
Event: 27	2		169	3042	125	9.5	3.521	→	2	3121	9.5	3.516			
Station: 16	3		170	3040	100	9.5	3.589	small bubbles under stopper.	3						
Event Date (Local): 29 Oct 14	4		171	3025	75	9.7	3.756		4						
Analysis Date (Local): 29 Oct 14	5		172	3178	50	9.9	4.024		5						
Analyst: KS	6		173	3070	40	9.9	3.990	→	6	1223	9.9	3.986			
Stdization Date (Local): 28 Oct 14	7		174	3076	30	9.9	4.078		7						
KIO ₃ N: 0.0103040	8		175	2063	20	10.0	4.157		8						
Standard Titer: 0.7338	9		176	458	10	10.1	4.265	Please check endpoint.	9						
Blank Titer: 0.0030	10		177	3166	5	10.3	4.572		10						
THIO N: 0.1413	11		178	3068	0	10.5	4.768		11						
Sample Flask	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: BROWN BOX	19								19						
Sample: SR	20								20						
Fix: MC	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

Last Updated: March 2014

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information												Cruise and Analysis Information							
ID	V	S	ID	Flask 1	Depth (m)	T 1 (°C)	O ₂ (mL/L)	Comments	ID	Flask 2	T 2 (°C)	O ₂ (mL/L)	Comments						
Cruise Number: 2014-50	1		179	2064	311	9.0	2.982		1										
Event: 28	2		180	3018	250	9.0	2.985		2										
Station: 14	3		181	3028	200	9.1	2.928		3	1408	9.2	2.931							
Event Date (Local): 29-10-14	4		182	2047	175	9.2	2.884		4										
Analysis Date (Local): 29 Oct 14	5		183	3023	150	9.4	2.844	copepod swirling around in sample.	5										
Analyst: KS	6		184	3019	125	9.5	2.822		6										
Stdization Date (Local): 28 Oct 14	7		185	3104	100	9.4	2.967		7										
KIO ₃ N: 0.0103040	8		186	3034	75	10.0	3.853		8										
Standard Titer: 0.7338	9		187	3116	50	10.5	4.760		9										
Blank Titer: 0.0030	10		188	3014	40	10.6	4.880		10	1658	10.6	4.882							
THIO N: 0.14113	11		189	3007	30	10.7	4.966		11										
Sample Flask Water Seal? Yes	12		190	371	20	10.7	5.046		12										
	13		191	3009	10	10.8	5.199		13										
Reagent Change? MnCl ₂	14		192	2017	5	10.9	5.199		14										
(Please circle reagent that was changed prior to sampling and standardization)	15		193	3194	0	11.1	5.185		15										
NOTE NEW BATCH IN LOG BOOK	16								16										
	17								17										
	18								18										
Notes: SILVER Box	19								19										
Sample: SR	20								20										
Fix: MG	21								21										
There was no water seal on samples. samples collected @ ~	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

Last Updated: March 2014

(WHITE)

Cruise and Analysis Information		ID	V	S	Sample ID	Flask 1	Depth (m)	Draw T1 (°C)	OXY 1 (mL/L)	Comments	ID	Flask 2	Draw T2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2014-50		1			194	1404	352	9.3	2.936	-incorrect depth input into software.	1				
Event: 31		2			195	1418	300	9.3	X	Bubble on lens. FT=0.508	2				
Station: 12		3			196	1401	250	9.5	2.943	OT=0.073 (0.361mL/L)	3				
Event Date (Local): 29 Oct. 2014		4			197	1426	200	9.5	2.956		4				
Analysis Date (Local): 29 Oct. 2014		5			198	1409	175	9.7	2.936	dead seaweed in top of cup (bryozoan)	5				
Analyst: KS		6			199	1446	150	9.7	2.933	spigot was leaking as a result.	6	1427	9.7	2.937	
Stdization Date (Local): 28 Oct 2014		7			200	1416	125	9.9	2.923		7				
KIO ₃ N: 0.0103040		8			201	1443	100	10.0	2.905		8				
Standard Titer: 0.7338		9			202	1422	75	9.9	2.970		9				
Blank Titer: 0.0030		10			203	1434	50	10.1	3.455		10				
THIO N: 0.1413		11			204	1411	40	10.6	4.291		11				
Sample Flask Water Seal? <u>Yes</u>		12			205	1402	30	11.0	5.143		12	1407	11.0	5.144	
Reagent Change? <u>MnCl₂</u>		13			206	1417	20	11.1	5.314	spigot leaking	13				
(Please circle reagent that was changed prior to sampling and standardization)		14			207	1428	10	11.2	5.255		14				
NOTE NEW BATCH IN LOG BOOK		15			208	2059	5	10.7	4.390	?? - lanyard was broken on Niskin.	15				
		16			209	650	0	11.4	5.641	spigot leaking	16				
		17									17				
		18									18				
Notes: Sample: KS		19									19				
Fix: PC		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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: March 2014

Cruise and Analysis Information

Cruise Number: 2014-50

Event: 33

Station: 6

Event Date (Local): 29 Oct 2014

Analysis Date (Local): 29 Oct 2014

Analyst: KS

Stdization Date (Local): 28 Oct. 2014

KIO₃ N: 0.0103040

Standard Titer: 0.7338

Blank Titer: 0.0030

THIO N: 0.14113

Sample Flask Water Seal?

Yes

 No

Reagent Change?

MnCl₂

 NaI/NaOH

H₂SO₄

 KIO₃ THIO

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

NOTE NEW BATCH IN LOG BOOK

Notes: Sample: KS
Fix: PC

Green.

zeroed colourimeter incident sample

0.169 (0.0033 mL) + 2.761 (0.468 mL) mL/L

2.959 mL/L

2.924

2.890

2.937 →

3.101

3.800 →

4.584

5.203

5.293 - Copepod in sample.

5.465

5.584

5.615 spigot leaks

ID	V	S	ID	Flask 1	Depth (m)	T 1 (°C)	DO (mL/L)	Comments	ID	Flask 2	T 2 (°C)	DO (mL/L)	Comments
1			222	3086	185	9.4	X		1				
2			223	3181	175	9.3	2.959		2				
3			224	3095	150	9.6	2.924		3				
4			225	1050	125	9.6	2.890		4				
5			226	745	100	9.7	2.937	→	5	2056	11.6	2.918	
6			227	657	75	9.7	3.101		6				
7			228	3085	50	10.2	3.800	→	7	3088	10.2	3.812	
8			229	1655	40	10.7	4.584		8				
9			230	1015	30	10.9	5.203		9				
10			231	612	20	11.1	5.293	- Copepod in sample.	10				
11			232	2060	10	11.2	5.465		11				
12			233	1035	5	11.5	5.584		12				
13	X		234	3084	0	11.6	5.615	spigot leaks	13				
14									14				
15									15				
16									16				
17									17				
18									18				
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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: March 2014

Red

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: 2014-50	1			235	3029	53	10.7	3.924								1				
Event: 34	2			236	2008	50	10.6	3.871								2				
Station: BS17	3			237	3119	40	10.7	4.124								3				
Event Date (Local): 29 Oct. 2014	4			238	3031	30	10.8	4.411	→							4	647	10.8	4.406	✓
Analysis Date (Local): 29 Oct 2014	5			239	2086	20	11.0	5.174								5				
Analyst: KS	6			240	2007	10	11.0	5.413								6				
Stdization Date (Local): 28 Oct. 2014	7			241	3074	5	11.1	5.430								7				
KIO ₃ N: 0.0103040	8			242	2040	0	11.2	5.550								8				
Standard Titer: 0.7338	9															9				
Blank Titer: 0.0030	10															10				
THIO N: 0.14113	11															11				
Sample Flask Water Seal? Yes	12															12				
	13															13				
Reagent Change? MnCl ₂	14															14				
(Please circle reagent that was changed prior to sampling and standardization)	15															15				
	16															16				
NOTE NEW BATCH IN LOG BOOK	17															17				
	18															18				
Notes: Sample: KS	19															19				
Fix: PC	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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: March 2014

GREEN

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:	2014-50			259	3081	279	9.3	2.926									1				
Event:	36			260	3181	250	9.4	2.959									2				
Station:	2			261	3095	200	9.9	2.967									3				
Event Date (Local):	29 Oct 2014			262	1050	175	9.9	2.929									4	745	9.9	2.943	
Analysis Date (Local):	29 Oct 2014			263	2056	150	9.9	2.946									5				
Analyst:	KS			264	657	125	10.0	2.947									6				
Stdization Date (Local):	28 Oct 2014			265	3085	100	10.1	2.999									7				
KIO ₃ N:	0.0103040			266	3088	75	10.2	3.139									8				
Standard Titer:	0.7338			267	1055	50	10.0	3.322									9				
Blank Titer:	0.0030			268	1015	40	9.8	3.396									10	612	9.9	3.196	wrong sample ID and depth.
THIO N:	0.14113			269	2060	30	10.2	3.875									11				and Flask ID. Needs recalc
Sample Flask Water Seal?	Yes			270	1035	20	10.7	4.515									12				
Reagent Change?	MnCl ₂			271	3084	10	11.1	5.257									13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			272	3124	5	11.2	5.677									14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			273	94	0	11.3	5.876									15				
	KIO ₃																16				
	THIO																17				
Notes:	Sample: KS																18				
	Fix: PC																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

Last Updated: March 2014

BROWN

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
1			274	2065	339	9.4	2.825		1				
2			275	3042	300	9.3	2.933		2				
3			276	3121	250	9.2	2.923		3				
4			277	3040	200	9.4	2.988		4				
5			278	3025	175	9.6	X	→ Overshot endpoint. Stirrer was off!	5	B 3178	9.6	2.955	
6			279	3070	150	9.9	3.009	Sample lost - over 1ml of this	6				
7			280	1223	125	9.7	3.113	dosed into sample.	7				
8			281	3076	100	9.9	3.063		8				
9			282	2063	75	9.9	3.190		9				
10			283	458	50	9.9	3.291		10				
11			284	3166	40	9.9	3.341	→	11	B 3068	9.9	3.343	
12			285	569	30	10.1	3.626		12				
13			286	1054	20	10.5	4.495		13				
14			287	2020	10	10.9	5.269		14				
15			288	3083	5	-99	5.536		15				
16			289	3171	0	11.1	5.639		16				
17									17				
18									18				
19									19				
20									20				
21									21				
22									22				
23									23				
24									24				

Notes: Sample SR
Fix: MG

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.