

Dissolved Oxygen Analysis Log Sheet

Last Updated: March 2014

Institute of Ocean Sciences
Water Properties Group

T_{start}: 24.3 T_{end}: 25.0

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:	2014-60	1	✓	✓	1	3098	143	11.7	3.541		1				
Event:	2	2	✓	✓	2	3142	125	11.4	3.544		2				
Station:	S ₁ 16	3	✓	✓	3A	621	100	11.4	3.840		3	3190	11.4	3.838	
Event Date (Local):	2 SEP 14	4	✓	✓	4	2014	75	11.8	4.288		4				
Analysis Date (Local):	2 SEP 14	5	✓	✓	5	2049	50	12.2	4.624		5				
Analyst:	cnb	6	✓	✓	6	1053	40	12.3	4.727		6				
Stdization Date (Local):	1 SEP 14	7	✓	✓	7	2090	30	12.8	5.153		7				
KIO ₃ N:	0.0099396	8	✓	✓	8	510	20	13.0	5.276		8				
Standard Titer:	0.7047	9	✓	✓	9	2097	10	13.2	5.486		9				
Blank Titer:	0.001	10	✓	✓	10	2061	5	13.6	5.716		10	3118	13.6	5.713	
THIO N:	0.14138	11	✓	✓	11	3067	0	14.9	6.502		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:	Depth 147	19									19				
	49 57 45	20									20				
	125 8 80	21									21				
	1503 2 SEP 14	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:	2014-160	1	✓	✓	12	1023	305	10.3	3.281	bubbles in flask @ neck	1				
Event:	7	2	✓	✓	13	2068	250	10.2	3.308	bubbles in flask @ neck	2				
Station:	S12 14	3	✓	✓	14 ^A	3000	200	10.2	3.384		3	3030	10.2	3.374	bubbles in flask @ neck
Event Date (Local):	2 SEP 2014	4	✓	✓	15	3164	175	10.2	3.473		4				
Analysis Date (Local):	2 SEP 2014	5	✓	✓	16	557	150	10.2	3.411		5				
Analyst:	mb	6	✓	✓	17	622	125	10.5	3.333		6				
Stdization Date (Local):	1 SEP 14	7	✓	✓	18	2092	100	10.5	3.395		7				
KIO ₃ N:	0.0099396	8	✓	✓	19	471	75	11.1	3.801		8				
Standard Titer:	0.7047	9	✓	✓	20	3043	50	11.4	4.370		9				
Blank Titer:	0.001	10	✓	✓	21 ^A	528	40	11.5	4.351	bubbles @ neck	10	3047	11.5	4.346	bubbles @ neck
THIO N:	0.14138	11	✓	✓	22	3009	30	11.6	4.386		11				
Sample Flask Water Seal?	Yes	12	✓	✓	23	371	20	11.8	4.570	bubbles @ neck	12				
Reagent Change?	MnCl ₂	13	✓	✓	24	2099	10	12.7	5.186		13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	✓	✓	25	2017	5	14.7	8.464	bubbles @ neck, some growth in sample	14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15	✓	✓	26	658	0	15.2	8.729	big bubbles in neck, growth in sample	15				
	KIO ₃	16								ugly titration	16				
	THIO	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.

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Cruise Number:	2014-60	1	✓	✓	27	2098	345	13.2	3.680		1				
Event:	12	2	✓	✓	28	3142	300	13.4	3.755		2				
Station:	12	3	✓	✓	29	621	250	13.5	3.336		3				
Event Date (Local):	25SEP14	4	✓	✓	30	3190	260	13.6	3.423		4				
Analysis Date (Local):	25SEP14	5	✓	✓	31	2014	175	14.4	3.395		5				
Analyst:	MB	6	✓	✓	32	2049A	150	14.1	3.416		6	10538	14.4	3.422	
Stdization Date (Local):	1 SEP 14	7	✓	✓	33	2090	125	14.1	3.395		7				
KIO ₃ N:	0.0099396	8	✓	✓	34	510	100	14.0	3.453		8				
Standard Titer:	0.7047	9	✓	✓	35	2097	75	13.7	3.546		9				
Blank Titer:	0.001	10	✓	✓	36	2661	50	13.6	3.572		10				
THIO N:	0.14138	11	✓	✓	37	3118	40	13.5	3.679		11				
Sample Flask Water Seal?	Yes	12	✓	✓	38	3067A	30	13.5	3.723	bubble out	12	3111 B	13.6	3.728	BUBBLE IN BOTTOM - NOTED AFTER SAMPLING
Reagent Change?	MnCl ₂	13	✓	✓	39	5209	20	14.0	3.824		13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	✓	✓	40	712	10	16.8	5.720		14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15	✓	✓	41	611	5	17.9	6.319		15				
	KIO ₃	16	✓	✓	42	468	0	17.8	6.357		16				
	THIO	17									17				
		18									18				
		19									19				
		20									20				
		21									21				
		22									22				
		23									23				
		24									24				

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Cruise Number: 2014-60		1	✓	✓	43	2087	164	11.1	2.868		1	1059 ^B		2.862	
Event: 14		2	✓	✓	44	2089	150	11.2	2.862		2				
Station: 9		3			45	1002	125			DID NOT FIRED	3				
Event Date (Local): 2 SEP 14		4	✓	✓	46	3021	100	10.9	3.248		4				
Analysis Date (Local): 3 SEP 14		5	✓	✓	47	3032	75	11.2	3.487		5				
Analyst: MB		6	✓	✓	48	2095	50	11.7	3.690		6				
Stdization Date (Local): 1 SEP 14		7	x	✓	49	3022	40	11.8	3.767	SLIGHTLY LEAKING	7				
KIO ₃ N: 0.0097396		8	✓	✓	50	1055	30	12.3	3.897		8				
Standard Titer: 0.7047		9	✓	✓	51	1035	20	12.7	4.261		9				
Blank Titer: 0.001		10	✓	✓	52	1015	10	15.3	4.729		10				
THIO N: 0.14138		11	✓	✓	53	2060 ^A	5	15.8	6.110	bottles @ neck	11	2000 ^B	15.6	6.112	
Sample Flask Water Seal? ☒ Yes		12	✓	✓	54	3014	0	16.9	6.625		12				
Reagent Change? MnCl ₂		13									13				
(Please circle reagent that was changed prior to sampling and standardization)		14									14				
NOTE NEW BATCH IN LOG BOOK		15									15				
		16									16				
		17									17				
		18									18				
		19									19				
		20									20				
		21									21				
		22									22				
		23									23				
		24									24				

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Cruise Number:	2014-60	1	✓	✓	55	1023	188	10.25	3.334		1				
Event:	16	2	✓	✓	56	2068	175	10.1	3.481		2				
Station:	Sta 6	3	✓	✓	57	3000	150	10.1	3.548		3				
Event Date (Local):	3 SEP14	4	✓	✓	58	3030	125	10.2	3.549		4				
Analysis Date (Local):	3 SEP14	5	✓	✓	59	3164 ^A	100	10.4	3.535		5	557B	10.4	3.529	
Analyst:	MB	6	✓	✓	60	622	75	10.6	3.412		6				
Stdization Date (Local):	1 SEP14	7	✓	✓	61	2092 ^A	50	11.0	3.724		7	4716	11.0	3.723	
KIO ₃ N:	0.0099396	8	✓	✓	62	3043	40	11.2	3.721		8				
Standard Titer:	0.7047	9	✓	✓	63	528	30	11.4	3.875		9				
Blank Titer:	0.001	10	✓	✓	64	3047	20	12.0	4.026	bubbles @ neck	10				
THIO N:	0.14138	11	✓	✓	65	3009	10	14.3	5.145		11				
Sample Flask Water Seal?	Yes	12	✓	✓	66	371	5	16.8	6.186		12				
	No	13	✓	✓	67	2097	10	17.1	6.29		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:	Depth 196	19									19				
	Silver Box	20									20				
	0400 3 SEP14	21									21				
	49 30 58	22									22				
	124 27 75	23									23				
		24									24				

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Cruise Number:	2014-60	1	X ✓	68	658	317	10.5	3.051	vent wasn't tight / redraw	1				
Event:	20	2	✓	69	3194	300	10.3	3.053		2				
Station:	3	3	✓	70	3019	250	10.1	3.108		3				
Event Date (Local):	02 09 14	4	✓	71	3005	200	10.1	3.338		4				
Analysis Date (Local):	3 SEP 14	5	✓	72	2064	175	10.2	3.394		5	3055	10.2	3.408	
Analyst:	mb	6	✓	73	3094	150	10.4	3.564		6				
Stdization Date (Local):	1 SEP 14	7	✓	74	2051	125	10.5	3.560		7				
KIO ₃ N:	0.0099396	8	✓	75	2098	100	10.8	3.525		8				
Standard Titer:	0.7047	9	✓	76	3142	75	10.9	3.593		9				
Blank Titer:	0.001	10	✓	77	621	50	11.3	3.772		10				
THIO N:	0.14138	11	✓	78	3190	40	11.5	3.801		11	2014	11.6	3.811	
Sample Flask Water Seal?	Yes	12	✓	79	2049	30	11.8	3.806		12				
Reagent Change?	MnCl ₂	13	✓	80	1053	20	12.3	4.200		13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	✓	81	2090	10	12.8	4.292		14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15	✓	82	510	5	15.6	5.545		15				
	KIO ₃	16	✓	83	2097	0	15.9	5.702		16				
	THIO	17								17				
		18								18				
Notes:	GREY BOX BOT 1-7	19								19				
	BLUE BOX 8-16	20								20				
	Depth 324	21								21				
	49 26 61	22								22				
	124 20 22	23								23				
	0701 3 SEP 14	24								24				

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Cruise Number:	2014-60							1	C	✓	84	3118	275	10.5	3.166		1				
Event:	22							2	C	✓	85	3067 ^A	250	10.4	3.225		2	3111 ^B	10.5	3.221	
Station:	2							3	C	✓	86	3209	200	10.4	3.347		3				
Event Date (Local):	3 SEP 14							4	C	✓	87	712	175	10.6	3.401		4				
Analysis Date (Local):	3 SEP 14							5	C	✓	88	611 ^A	150	10.7	3.466		5	468 ^B	10.7	3.462	
Analyst:	mB							6	C	✓	89	631	125	10.8	3.543		6				
Stdization Date (Local):	15 SEP 14							7	C	✓	90	505	100	11.1	3.524		7				
KIO ₃ N:	0.0099396							8	C	✓	91	715	75	11.2	3.584		8				
Standard Titer:	0.7047							9	C	✓	92	3038	50	11.3	3.638		9				
Blank Titer:	0.001							10	C	✓	93	1094	40	11.5	3.689		10				
THIO N:	0.14138							11	C	✓	94	196	30	12.2	3.811		11				
Sample Flask Water Seal?	Yes							12	C	✓	95	612	20	13.4	4.272		12				
Reagent Change?	MnCl ₂							13	C	✓	96	3124	10	17.0	5.892		13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH							14	C	✓	97	3084	5	17.9	6.012		14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄							15	C	✓	98	3061	0	18.2	5.973		15				
	KIO ₃							16									16				
	THIO							17									17				
Notes:	D. K. 111							18									18				
	Blue box w/ blue top 84-94							19									19				
	White top 95-98							20									20				
	0917							21									21				
	49.24 05							22									22				
	624 9 43							23									23				
	624 283							24									24				

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Cruise Number: 204-60		1	✓	✓	99	2069	340	10.7	3.212		1				
Event: 28		2	✓	✓	100	94	300	10.6	3.214		2				
Station: 27		3	✓	✓	101	2035	250	10.6	3.273		3				
Event Date (Local): 3 SEP 14		4	✓	✓	102	3033	200	10.7	3.308		4				
Analysis Date (Local): 3 SEP 14		5	✓	✓	103	552	175	10.9	3.339		5				
Analyst: MB		6	✓	✓	104	2091	150	10.8	3.399	bubble on probe endpoint @ ~ 88% Transmissivity	6				
Stdization Date (Local): 1 SEP 14		7	✓	✓	105	3016	125	10.8	3.571		7				
KIO ₃ N: 0.0099396		8	✓	⊗	106	650	100	11.0	3.591	SLIGHT SPIGOT LEAK WHEN SPIGOT CLOSED VENT OPEN	8				
Standard Titer: 0.7047		9	✓	✓	107	2047	75	11.2	3.604		9	3007	11.1	3.598	
Blank Titer: 0.001		10	✓	✓	108	3116	50	11.3	3.844		10				
THIO N: 0.14138		11	✓	✓	109	3104	40	11.5	3.862		11				
Sample Flask Water Seal? Yes		12	✓	✓	110	708	30	11.7	3.875		12				
Reagent Change? MnCl ₂		13	✓	✓	111	3034	20	12.4	3.860		13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	✓	✓	112	2059	10	13.7	4.493		14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15	⊗	✓	113	2080	5	15.9	5.601	LEAKY VENT (SLIGHT DRIP) WHEN SPIGOT OPEN	15	2082	15.9	5.607	
	KIO ₃	16	✓	✓	114	3109	0	16.7	5.928		16				
	THIO	17									17				
Notes: Depth 350		18									18				
Blue box w white top		19									19				
1747		20									20				
3 SEP 14		21									21				
49 79		22									22				
123 47 94		23									23				
		24									24				

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Silver box

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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:	2014-60	1	✓	✓	115	1023	373	11.9	3.102					
Event:	31	2	✓	✓	116	2068	350	11.9	3.117					
Station:	39	3	✓	✓	117	3030	300	12.0	3.218					
Event Date (Local):	3 SEP 14	4	✓	✓	118	3164	250	12.2	3.288					
Analysis Date (Local):	3 SEP 14	5	X	✓	119	557	200	12.3	3.340	SLIGHT LEAK				
Analyst:	MR	6	✓	✓	120	622	175	12.4	3.369					
Stdization Date (Local):	15 SEP 14	7	✓	✓	121	2092	150	12.9	3.227					
KIO ₃ N:	0.0099396	8	✓	✓	122	471	125	12.9	3.306					
Standard Titer:	0.7017	9	✓	✓	123	3043	100	13.0	3.419					
Blank Titer:	0.001	10	✓	✓	124	528	75	12.7	3.573					
THIO N:	0.14138	11	✓	✓	125	3047	50	12.3	3.736					
Sample Flask Water Seal?	Yes	12	✓	✓	126	371	40	12.2	3.802					
Reagent Change?	MnCl ₂	13	✓	✓	127	2099	30	12.4	3.821					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	✓	✓	128	2017	20	13.1	3.952					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15	✓	✓	129	658	10	15.0	4.982					
	KIO ₃	16	✓	✓	130	3194	5	16.6	6.018					
	THIO	17	✓	✓	131	3019	0	17.6	6.334					
		18												
		19												
		20												
		21												
		22												
		23												
		24												

Notes: Silver box

Depth 370

49 09 75

123 32 94

2032 3 SEP 14

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Cruise Number:	2014-60	1	X	✓	132	2098	315	12.2	3.173	LEAKY	1				
Event:	37	2	✓	✓	133	3142	300	12.1	3.150		2				
Station:	42	3	✓	✓	134	621	250	11.8	3.250		3				
Event Date (Local):	3 Sept 2014	4	✓	✓	135	3190	200	11.9	3.357		4				
Analysis Date (Local):	3 Sep 2014	5	✓	✓	136	2014	175	12.1	3.323		5				
Analyst:	MB	6	✓	✓	137	2049	150	11.7	3.472		6				
Standardization Date (Local):	1 Sep 2014	7	✓	✓	138	10580	125	12.0	3.449		7	20908	12.0	3.449	
KIO ₃ N:	0.0099396	8	✓	X	139	510	100	12.5	3.393	LEAKY	8				
Standard Titer:	0.7047	9	X	✓	140	2097	75	12.4	3.552	LEAKY	9				
Blank Titer:	0.001	10	✓	✓	141	2061	50	12.8	3.573		10				
THIO N:	0.4138	11	✓	✓	142	3118	40	12.5	3.775		11				
Sample Flask Water Seal?	Yes	12	✓	✓	143	3067	30	12.8	3.814		12				
	No	13	✓	✓	144	3111	20	13.4	3.929		13				
Reagent Change?	MnCl ₂	14	✓	✓	145	3209	10	14.0	4.545		14	7128	14.9	4.555	DIC TAKEN BTW DUPS
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓	✓	146	611	5	17.1	6.563		15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16	✓	✓	147	468	0	18.2	7.071		16				
	KIO ₃	17									17				
	THIO	18									18				
Notes:	BLUE BOX	19									19				
	490 1.79	20									20				
	1230 20.16	21									21				
	0105 UTC start	22									22				
	4 Sept 2014	23									23				
	320 m	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

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Water Properties Group

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:	2014-60	1		148	1023	184	11.3	3.036		1				5 leaky
Event:	40	2	✓	✓	149	2068	150	11.3	3.088	2				
Station:	460	3	✓	✓	150	3000 ^A	125	11.7	3.395	3	3030 ^B	11.8	3.386	
Event Date (Local):	3 SEP 14	4	✓	✓	151	3164	100	11.9	3.456	4				
Analysis Date (Local):	4 SEP 14	5	✓	✓	152	557	75	11.6	3.564	5				Slow leak on vent
Analyst:	MB	6	✓	✓	153	622	50	11.8	3.678	6				
Stdization Date (Local):	4 SEP 14	7	✓	✓	154	209 ^A	40	12.1	3.824	7	471 ^B	12.1	3.824	
KIO ₃ N:		8	✓	✓	155	3043	30	12.5	4.004	8				
Standard Titer:		9	✓	✓	156	528	20	12.8	4.004	9				
Blank Titer:		10	✓	✓	157	3047	10	13.9	4.493	10				
THIO N:		11	✓	✓	158	3009	5	15.2	5.287	11				
Sample Flask	Yes	12	✓	✓	159	371	0	17.3	6.486	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:	Silver top	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

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Institute of Ocean Sciences
Water Properties Group

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:	2014-60	1	X	✓	160	3124	720	11.0	2.787	Lickynot light 0406 / redhas	1					
Event:	46	2	✓	✓	161	612	200	10.8	2.747		2					
Station:	56	3	✓	✓	162	3061	175	10.8	2.784		3					
Event Date (Local):	4SEP14	4	✓	✓	163	3084	150	10.8	2.842		4	2056 ^B	10.9	3.838		
Analysis Date (Local):	4SEP14	5	✓	✓	164	2069	125	11.0	2.999		5					
Analyst:	MB	6	✓	X	165	94	100	11.3	3.238	Lily sticks	6					
Stdization Date (Local):	4SEP14	7	✓	✓	166	2035	75	11.7	3.506		7					
KIO ₃ N:	0.0099396	8	✓	✓	167	3033	50	12.1	3.783		8					
Standard Titer:	0.7048	9	✓	✓	168	552	40	12.2	3.820		9					
Blank Titer:	0.001	10	✓	✓	169	2091	30	12.3	3.928		10					
THIO N:	0.14136	11	✓	✓	170	3016	20	12.7	4.135		11					
Sample Flask Water Seal?	(Yes) No	12	✓	✓	171	650	16	13.0	4.313		12					
Reagent Change?	MnCl ₂	13	✓	✓	172	2047	5	13.7	4.786		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	✓	✓	173	3004	0	15.2	5.278		14	3116 ^B	14.8	5.281		
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15									15					
	KIO ₃	16									16					
	THIO	17									17					
Notes:		18									18					
white top depth 218		19									19					
48° 46.31		20									20					
123° 01.66		21									21					
0832		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

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Water Properties Group

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forget to put station # into this sample set
- is currently b2 - should be 59.

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:	2014-60	1	✓	✓	174	2098	221	10.9	2.621		1				
Event:	50	2	✓	✓	175	3142	200	10.8	2.621		2				
Station:	59	3	✓	X	176	621	175	10.9	2.654	super slow drip.	3				
Event Date (Local):	4 Sept	4	✓	✓	177	3190	150	10.9	2.689		4	B2014	10.9	2.691	started A titrim & burette out of flask
Analysis Date (Local):	05 Sept 14	5	✓	✓	178	2049	125	11.0	2.764		5				
Analyst:	Tamara	6	✓	✓	179	1053	100	11.1	2.818		6				
Stdization Date (Local):	05 Sept 14	7	✓	✓	180	2090	75	11.5	3.069		7				
KIO ₃ N:	0.0099396	8	✓	✓	181	510	50	12.4	3.700		8				
Standard Titer:	0.2323	9	✓	✓	182	2097	40	12.7	3.871		9				
Blank Titer:	0.0033	10	✓	✓	183	2061	30	12.8	4.006		10				
THIO N:	0.13647	11	✓	✓	184	3118	20	13.0	4.164		11				
Sample Flask Water Seal?	(yes) No	12	✓	✓	185	3067	10	13.2	4.209		12				
Reagent Change?	MnCl ₂	13	✓	✓	186	3111	5	13.6	4.371		13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	✓	✓	187	712	0	14.4	4.569		14	B3209	14.1	4.560	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15									15				
	KIO ₃	16									16				
	THIO	17									17				
Notes:	BLUE	18									18				
	48.37.77	19									19				
	123.14.72	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

WHITE

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:	2014-60	1			221	3124	104	9.9	2.031								1				
Event:	60	2			222	612	100	9.7	2.031								2				
Station:	ADCP	3			223	3061	75	10.2	2.454								3				
Event Date (Local):	5 Sept 2014	4			224	3084	50	10.8	3.024	⇒							4	2056	10.9	3.032	
Analysis Date (Local):	05 Sept 14	5			225	2069	40	11.2	3.050								5				
Analyst:	Tamara	6			226	94	30	11.2	3.106								6				
Stdization Date (Local):	05 Sept 14	7			227	2035	20	11.4	3.238								7				
KIO ₃ N:	0.0099396	8			228	3033	10	12.0	3.827								8				
Standard Titer:	0.7323	9			229	552	5	12.3	4.069								9				
Blank Titer:	0.0033	10			230	2091	0	12.4	4.075	⇒							10	3016	12.3	4.076	
THIO N:	0.13647	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				
48° 14.54		20															20				
123° 18.16		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

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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:	2014-60	1	✓✓	200	557	144	10.0	2.396		1				can't see endpoint - check please
Event:	53	2	✓✓	201	2068	125	10.1	3.770		2				really bad bubble (O ₂ bad?)
Station:	62	3	✓✓	202	3030	100	10.2	2.407		3				
Event Date (Local):	4 Sept 2014	4	✓✓	203	3000	75	10.5	2.686		4				
Analysis Date (Local):	05 Sept 14	5	✓✓	204	3164	50	11.2	3.199		5				
Analyst:	Tamara	6	✓✓	205	1023	40	11.7	3.372		6	622	11.5	3.373	
Standardization Date (Local):	05 Sept 14	7	✓✓	206	471	30	12.0	3.460	No temp. - late.	7				
KIO ₃ N:	0.0099396	8	✓✓	207	2092	20	11.8	3.614		8				
Standard Titer:	0.7323	9	✓✓	208	3043	10	12.0	3.783		9				
Blank Titer:	0.0033	10	✓✓	209	528	5	12.4	3.959	Redrawn @ (12.0 A)	10	8347	12.2	3.953	analysed before A
THIO N:	0.13647	11	✓✓	210	3009	0	12.7	4.138		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.

Back half of Green box

Dissolved Oxygen Analysis Log Sheet

Last Updated: March 2014

Institute of Ocean Sciences
Water Properties Group

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 - 60	1	✓	✓	211	2087	123	10.0	2.225		1				
Event:	56	2	✓	✓	212	1059	100	9.9	2.263		2	2087	10.0	2.266	
Station:	65	3	✓	✓	213	1002	75	10.4	2.685		3				
Event Date (Local):	05 Sept 15	4	✓	✓	214	3021	50	10.8	3.063		4				
Analysis Date (Local):	05 Sept 15	5	✓	x	215	3032	40	11.2	3.157	spigot in	5				
Analyst:	Tamar	6	✓	✓	216	2095	30	11.6	3.430		6				
Stdization Date (Local):	05 Sept 15	7	✓	✓	217	3022	20	12.4	4.211		7				
KIO ₃ N:	0.0099396	8	✓	✓	218	1055	10	12.5	4.232		8	1015	12.6	4.242	
Standard Titer:	0.7323	9	✓	✓	219	1035	5	12.8	4.450		9				
Blank Titer:	0.0033	10	✓	✓	220	2060	0	13.0	4.642		10				
THIO N:	0.13647	11									11				
Sample Flask Water Seal?	(Yes) No	12									12				
Reagent Change?	MnCl ₂	13									13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14									14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15									15				
	KIO ₃	16									16				
	THIO	17									17				
Notes:	GREEN (Lost half)	18									18				
	START: LAT 40W	19									19				
	LAT 48 15.88	20									20				
	Lon 123 9.97	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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In the last half of the green box

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

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BLUE METAL - 1st half

last case analysed 05 Sept 14 Temp 23.3°C

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:	2014-60	1			231	1124	172	9.6	1.583		1				Tstart 21.2
Event:	63	2			232	1130	150	9.5	1.598		2				
Station:	Stn 69	3			233	1189	125	9.7	1.787		3				
Event Date (Local):	5 Sept 2014	4			234	1126	100	10.2	2.247 =>		4	1178	10.1	2.379	ran B sample = bottle id 1126 for
Analysis Date (Local):	06 Sept 14	5			235	1182	75	11.0	2.604		5				
Analyst:	TF	6			236	1136	50	11.8	3.139		6				
Standardization Date (Local):	05 Sept 14	7			237	1114	40	12.0	3.321		7				
KIO ₃ N:	0.0099396	8			238	1144	30	12.2	3.394		8				
Standard Titer:	0.7323	9			239	1128	20	12.3	3.536		9				
Blank Titer:	0.0033	10			240	1110	10	12.8	3.650 =>		10	1105	12.6	3.651	Bubbles in reagent
THIO N:	0.13647	11			241	1110	5	13.1	4.21	flask 1 # = 1138	11				
Sample Flask Water Seal?	Yes	12			242	1153	0	13.4	4.484		12				
	No	13									13				Tend 22.4
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: BLUE METAL		19									19				
1st half		20									20				
48° 15.71		21									21				
123° 43.23		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		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:	2014-60	1	X ✓	243	1146	183	9.2	1.570	top valve not closed completely	1				
Event:	66	2	✓ ✓	244	1158	175	9.0	1.574		2				
Station:	72	3	✓ ✓	245	1141	150	9.0	1.560		3				
Event Date (Local):	Sept 5/14	4	✓ ✓	246	1119	125	9.0	3.529	???	4	1106	9.1	1.602	??
Analysis Date (Local):	06 Sept 14	5	✓ ✓	247	1192	100	9.2	1.651		5				
Analyst:	kmnara	6	✓ ✓	248	1180	75	9.6	2.011	248 run 247 sample # (but btl # - depth OK)	6				1248 run E 247's information kept
Stdization Date (Local):	05 Sept 14	7	✓ ✓	249	1188	50	10.3	2.818	run @ 75m depth?	7				
KIO ₃ N:	0.0099396	8	✓ ✓	250	1150	40	10.8	3.157		8				
Standard Titer:	0.2323	9	✓ ✓	251	1154	30	11.4	3.700	CRACKED REPLACED	9				
Blank Titer:	0.0033	10	✓ ✓	252	1127	20	11.5	3.661		10	1177	11.5	3.662	
THIO N:	0.13647	11	✓ ✓	253	1142	10	11.9	3.860		11				
Sample Flask Water Seal?	Yes No	12	✓ ✓	254	1134	5	12.4	4.305		12				
Reagent Change?	MnCl ₂	13	✓ ✓	255	1174	0	12.8	4.456		13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14								14				Tend 22.5°C
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15								15				
	KIO ₃	16								16				
	THIO	17								17				
Notes:		18								18				
BLUE METAL		19								19				
BOX - 1/2 last		20								20				
		21								21				
48.1867		22								22				
124.03.89		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.

~~Starts half way through the white box, then to the Green~~

Dissolved Oxygen Analysis Log Sheet

Last Updated: March 2014

Institute of Ocean Sciences
Water Properties Group

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:	2014-60	1	✓	✓	256	2047	217	9.3	1.548		1				
Event:	70	2	✓	✓	257	3007	200	9.3	1.544	⇒	2	3116	9.4	1.543	
Station:	75	3	✓	✓	258	3104	175	9.3	1.537		3				
Event Date (Local):	5 Sept 2014	4	✓	✓	259	708	150	9.2	1.542		4				
Analysis Date (Local):	05 Sept 14	5	✓	✓	260	3034	125	9.3	1.819		5				
Analyst:	Tamara	6	✓	✓	261	2059	100	9.5	2.031		6				
Stdization Date (Local):	05 Sept 14	7	✓	✓	262	2080	75	9.6	2.747		7				
KIO ₃ N:	0.009396	8	✓	✓	263	2082	50	10.4	3.279	⇒	8	3109	10.4	3.280	
Standard Titer:	0.7323	9	✓	✓	264	2094	40	11.0	3.150		9				
Blank Titer:	0.0033	10	✓	✓	265	3020	30	11.8	4.220	move to green box	10				
THIO N:	0.13647	11	✓	✓	266	3018	20	11.9	3.941		11				
Sample Flask Water Seal?	(Yes) No	12	✓	✓	267	3014	10	12.1	3.978		12				pls check end point
Reagent Change?	MnCl ₂	13	✓	✓	268	3023	5	13.0	5.694		13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	✓	✓	269	3035	0	14.0	5.529		14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15									15				
	KIO ₃	16									16				
	THIO	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.

Dissolved Oxygen Analysis Log Sheet

Last Updated: March 2014

Institute of Ocean Sciences
Water Properties Group

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:	2014-60	1	✓	✓	270	1404	251	8.9	1.518		1				
Event:	73	2	✓	✓	271	1401	200	8.8	1.533		2				
Station:	102	3	✓	✓	272	1426	175	8.9	1.550		3				
Event Date (Local):	5 SEPT 2014	4	✓	✓	273	1418	150	8.9	1.550		4	1418	8.9	1.555	
Analysis Date (Local):	06 Sept 2014	5	✓	✓	274	1409	125	9.0			5				Forgot to record [O ₂]
Analyst:	TOMARC	6	✓	✓	275	1446	100	9.2	2.431		6				
Stdization Date (Local):	05 Sept 14	7	✓	✓	276	1427	75	9.4	2.731		7				
KIO ₃ N:	0.0099396	8	✓	✓	277	1443	50	9.5	3.280		8				
Standard Titer:	0.7323	9	✓	✓	278	1422	40	9.8	3.480		9				
Blank Titer:	0.0033	10	✓	✓	279	1434	30	10.2			10				
THIO N:	0.13647	11	✓	✓	280	1411	20	10.9	3.251		11				
Sample Flask Water Seal?	(Yes) No	12	✓	✓	281 ^A	1407	10	11.8	3.889		12	1402 ^B	11.6	3.882	read B before A
Reagent Change?	MnCl ₂	13	✓	✓	282	1417	5	13.1	5.207		13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	✓	✓	283	1428	0	13.8	5.330		14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15									15				
	KIO ₃	16									16				
	THIO	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

green

SOG Station!!

note: this station and Stn 42 were collected and analysed directly after analysis of 2014-22 station CSP9 TR

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:	2014-60	1		416	3016	350	9.3	3.035		1				
Event:	74	2		417	1059	300	8.9	3.078		2				
Station:	12	3		418	3032	250	9.0	3.316		3				
Event Date (Local):	14 Sept 2014	4		419	1002	200	8.9	3.293		4				
Analysis Date (Local):	14 Sept 14	5		420	2089	175	9.1	3.348		5				
Analyst:	Tamara	6		421	3021	150	8.9	3.317	⇒ bottom O-ring suspect	6	2095	8.9	3.310	
Stdization Date (Local):	14 Sept 14	7		422	3022	125	9.1	3.382	} mixed recording a value here somewhere	7				
KIO ₃ N:	0.00103040	8		423	1055	100	9.3	3.266		8				
Standard Titer:	0.7310	9		424	1015	75	9.4			9				
Blank Titer:	0.0023	10		425	612	50	9.7	3.480		10				
THIO N:	0.14153	11		426	2060	40	10.1	3.619	spigot suspect	11				
Sample Flask Water Seal?	(Yes) No	12		427	1035	30	10.2	3.661	⇒	12	3084	10.3	3.657	
Reagent Change?	MnCl ₂	13		428	3124	20	10.5	3.932		13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		429	2056	10	11.3	4.773	spigot suspect (dripping) then changed by SR	14				
	H ₂ SO ₄	15		430	2069	5	12.7	6.055		15				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	16		431	94	0	14.5	7.413		16				
	THIO	17								17				
		18								18				
Notes:	49° 43.61 N	19								19				
	124° 40.80 W	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

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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: 2014-60		1	✓	✓	432	2014	1314	9.9	3.062					
Event: 4 75		2			433	3018	300	9.7	3.064					
Station: 42		3			434	3028	250	9.7	3.104					
Event Date (Local): 14 Sept 2014		4			435	1408	200	9.5	3.208	EP looks suspicious - or just increase - no can't				1 st EP dosage = 0.527, dose = 0.535
Analysis Date (Local): 14 Sept 14		5			436	2047	175	10.3	3.148					
Analyst: Tamara		6			437	3023	150	10.6	3.193					
Stdization Date (Local): 14 Sept 14		7			438 ^A	3007	125	10.5	3.171					
KIO ₃ N: 0.00103040		8			439	3034	100	10.5	3.335					
Standard Titer: 0.7310		9			440	3116	75	10.4	3.474					
Blank Titer: 0.0023		10			441	3014	50	10.7	3.611					
THIO N: 0.14153		11			442	658	40	10.9	3.626					
Sample Flask Water Seal? Yes		12			443	708	30	10.9	3.699					
(No but did not sit out)		13			444	371	20	11.9	3.903					
Reagent Change? MnCl ₂		14			445 ^A	3009	10	13.9	5.018					
(Please circle reagent that was changed prior to sampling and standardization)		15			446	3194	5	15.2	6.100					
NOTE NEW BATCH IN LOG BOOK		16			447	3019	0	17.6	7.529					
		17												
		18												
Notes: GREY		19												
		20												
49 1.83		21												
123 26.12		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.