

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences

Water Properties Group

SHARK

Last Updated: July 2015



Cruise and Analysis Information		Nisk ID	Nisk Int V 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:	2015-46	1		1	3044	9.6	2.857	B-5	1					
Event:	001 002	2		2				B-5 SHOULD BE EVENT 002 NOT 001	2					
Station:	SOG N	3		3	3046	9.5	2.881	300	3		3047	9.5	2.872	
Event Date (Local):	22/7/15	4		4				300	4					
Analysis Date (Local):		5		5	3048	9.5	2.968	250	5					
Analyst:	H.M.	6		6				250	6					
Stdization Date (Local):	21/7/15	7		7	3049	9.5	2.964	200 MIGHT BE NISKIN 6 IN FILE	7					
KIO ₃ N:	0.0098172	8		8				200	8					
Standard Titer:	0.41413	9		9	3050	9.6	3.085	150	9		3051	9.6	3.088	
Blank Titer:	0.00016	10		10				150	10					
THIO N:	0.23678	11		11	3052	9.7	3.011	100	11					
Sample Flask Water Seal?	Yes	12		12				100	12					
	No	13		13	3053	9.9	3.057	75	13					
Reagent Change?	MnCl ₂	14		14				75	14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		15	3061	10.7	3.518	50	15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		16				50	16					
	KIO ₃	17		17	3062	11.5	3.928	30	17					
	THIO	18		18				30	18					
Notes:		19		19	3063	11.6	3.955	20	19					
		20		20				20	20					
		21		21	3066	13.7	5.299	10	21					
		22		22				10	22					
		23		23	3054	16.7	6.767	0	23					
		24		24				0	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:	2015-46			25	3044	7.6	2.739								1	25	3046	7.5	2.710	
Event:	00810			26											2					
Station:	HEC-1			27	3047	7.7	2.787								3					
Event Date (Local):	28/7/15			28											4					
Analysis Date (Local):	24/7/15			29	3048	8.7	4.072								5					
Analyst:	H.M.			30											6					
Stdization Date (Local):	24/7/15			31	3049	8.9	3.639								7					
KIO ₃ N:	0.0098172			32											8					
Standard Titer:	0.41406			33	3050	10.9	4.903								9	33	3051	10.9	4.903	
Blank Titer:	0.00023			34											10					
THIO N:	0.23692			35	3052	11.3	5.122								11					
Sample Flask	Yes			36											12					
Water Seal?	No			37	3053	13.4	6.938								13	37	3061	13.4	?	NO BOTTLE (FLASH)?
Reagent Change?	MnCl ₂			38											14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			39	3062	13.7	6.941								15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄														16					
	KIO ₃														17					
	THIO														18					
Notes:															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.

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Cruise Number:	2015-46						1			66	3062	7.7	2.348		1					
Event:	21						2			67	3065	7.9	2.478		2					
Station:	CS 84						3			68	3066	7.9	2.536		3					
Event Date (Local):	24/7/15						4			69	3054	8.5	2.975	=	4	69	3055	8.5	2.975	
Analysis Date (Local):	24/7/15						5			70	3067	8.9	3.296		5					
Analyst:	H.M.						6			71	3056	9.7	4.103		6					
Stdization Date (Local):	24/7/15						7			72	3059	10.5	4.668		7					
KIO ₃ N:	0.0098172						8			73	3057	11.7	5.706	-	8	73	3068	11.7	2.975	5.706
Standard Titer:	0.41406						9			74	3070	15.4	6.017		9					
Blank Titer:	0.00023						10			75	3072				10					
THIO N:	0.23692						11			76	3073	15.7	6.038		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					
							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:	2015-46						1			77	1417	7.7	2.553		1					
Event:	23						2			78	1418	7.7	2.572		2					
Station:	SC 74						3			79	1422	7.7	2.564		3					
Event Date (Local):	24/7/15						4			80	1426	7.9	2.635		4					
Analysis Date (Local):	24/7/15						5			81	1427	8.1	2.716	-	5	81	1429	8.1	2.716	
Analyst:	H.M.						6			82	1442	8.4	3.036		6					
Stdization Date (Local):	24/7/15						7			83	1446	8.8	3.383		7					
KIO ₃ N:	0.0098172						8			84	1457	9.2	3.670		8					
Standard Titer:	0.41406						9			85	1459	9.0	4.030		9					
Blank Titer:	0.00023						10			86	1460	11.5	5.145	-	10	86	1465	11.5	5.142	
THIO N:	0.23692						11			87	1470	13.1	5.685		11					
Sample Flask Water Seal?	Yes						12			88					12					
	No						13			89	1472	13.7	5.828		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					
							20								20					
							21								21					
							22								22					
							23								23					
							24								24					

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Cruise Number:	2015-46	1		90	2007	7.6	2.499	—	1	90	2014	7.6	2.499	
Event:	25	2		91					2					
Station:	SC 61	3		92	2015	7.6	2.617		3					
Event Date (Local):	24/7/15	4		93					4					
Analysis Date (Local):		5		94	2016	7.7	2.645		5					
Analyst:	H.M.	6		95					6					
Stdization Date (Local):	24/7/15	7		96	2017	7.8	2.676		7					
KIO ₃ N:	0.0098172	8		97					8					
Standard Titer:	0.41406	9		98	2019	7.9	2.679		9					
Blank Titer:	0.00023	10		99					10					
THIO N:	0.23692	11		100	2020	8.1	2.868	—	11	100	2025	8.2	2.868	
Sample Flask	Yes	12		101					12					
Water Seal?	No	13		102	2027	8.7	3.205		13					
Reagent Change?	MnCl ₂	14		103					14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		104	2032	9.3	3.794		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		105					16					
	KIO ₃	17		106	2040	10.2	4.562		17	106	2043	10.2	4.571	
	THIO	18		107					18					
Notes:		19		108	2047	10.5	4.786		19					
		20		109					20					
		21		110	2051	11.3	5.612		21					
		22		111					22					
		23		112	94	11.7	5.793		23					
		24		113					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.

MARLIN

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Cruise Number:	2015-46						1			122	1417	7.7	2.459		1					
Event:	33						2			123	1418	7.6	2.559		2					
Station:	DOUG 45						3			124	1422	7.6	2.591		3	1426	7.7	7.6	2.592	
Event Date (Local):	July 25/15						4			125	1427	7.7	2.620		4					
Analysis Date (Local):							5			126	1429	7.7	2.638	flask 2015	5					
Analyst:	HM						6			127	1442	7.8	2.698		6					
Stdization Date (Local):	26/07/15						7			128	1446	7.9	2.836		7					
KIO ₃ N:							8			129	1457	8.1	2.896		8					
Standard Titer:	105.7						9			130	1469	8.4	3.106		9					
Blank Titer:	see						10			131	1460	8.6	3.328	flask 2027	10	1465	8.7	8.7	3.327	
THIO N:							11			132	1470	9.1	3.561		11					
Sample Flask Water Seal?	Yes						12			133	1472	9.1	3.825		12					
	No						13			134	2000	10	4.434		13					
Reagent Change?	MnCl ₂						14			—					14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15			136	2014	13.1	6.722		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO 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 Number:	2015-46	1	X	✓	146	3044	7.7	2.658		1					
Event:	40	2	✓	✓	147	3046	7.7	2.664		2					
Station:	DOUG 26	3	✓	✓	148	3047	7.8	2.721		3					
Event Date (Local):	25/7/15	4	✓	✓	149	3048	7.8	2.761		4					
Analysis Date (Local):		5	✓	✓	150	3049	7.8	2.811		5					
Analyst:	H.M.	6	✓	✓	151	3050	7.9	2.905		6					
Stdization Date (Local):	24/7/15	7	✓	✓	152	3051	8.1	2.982		7					
KIO ₃ N:	0.0098172	8	✓	✓	153	3052	8.4	3.116		8					
Standard Titer:	0.41406	9	✓	✓	154	3053	8.7	3.370		9					
Blank Titer:	0.00023	10	✓	✓	155	3061	8.8	3.531	=	10	155	3062	8.8	3.525	
THIO N:	0.23692	11	✓	✓	156	3065	9.0	3.783		11					
Sample Flask Water Seal?	Yes	12	✓	✓	157	3066	11.6	5.524		12					
	No	13			158	3054	14.7	7.312	=	13	158	3055	14.8	7.309	
Reagent Change?	MnCl ₂	14			159					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					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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SWORDFISH

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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:	2015-46	1			169	1417	7.7	2.730		1					
Event:	50	2			180	1418	7.8	2.730		2					
Station:	DOUG 31	3			171	1422	7.9	2.870		3					
Event Date (Local):	26/7/15	4			172	1426	8.1	2.964		4					
Analysis Date (Local):		5			173	1427	8.3	3.122	-	5	173	1429	8.3	3.122	
Analyst:	H.M.	6			174	1442	8.6	5.107	NO GOOD TITRATED AIR - THOUGHT I GOT IT	6					
Stdization Date (Local):	24/7/15	7			175	1446	8.9	3.614		7					
KIO ₃ N:	0.0098172	8			176	1457	9.0	3.747	-	8	176	1459	9.0	3.789	
Standard Titer:	0.41406	9			177	1460	11.5	5.600		9					
Blank Titer:	0.00023	10			178					10					
THIO N:	0.23692	11			179	1465	14.8	6.853		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					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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Cruise Number: 2015-46		1		180	1470	7.7	2.434		1					
Event: 52		2		181	1472	7.7	2.619		2					
Station: HSK1		3		182	2000	7.7	2.653	-	3	192	2007	7.7	2.651	
Event Date (Local): 26/7/15		4		183	2014	7.8	2.730		4					
Analysis Date (Local):		5		184	2015	7.9	2.823		5					
Analyst: H.M.		6		185	2016	8.1	2.988		6					
Stdization Date (Local): 24/7/15		7		186	2017	8.4	3.147		7					
KIO ₃ N: 0.0698172		8		187	2019	8.7	3.355		8					
Standard Titer: 0.41406		9		188	2020	8.9	3.563		9					
Blank Titer: 0.00023		10		189	2025	9.3	4.041		10					
THIO N: 0.23692		11		190	2027	11.1	5.237	-	11	190	2032	11.2	5.268	
Sample Flask Water Seal? ☒ Yes ☐ No		12		191					12					
Reagent Change? ☒ MnCl ₂ ☐ NaI/NaOH ☐ H ₂ SO ₄ ☐ KIO ₃ ☐ THIO		13		192	2040	13.3	6.624		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					
Notes:		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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Octopus

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Cruise Number:	2015-46	1		223	196	7.9	2.624		1					spigot was open
Event:	GB	2							2					
Station:	DOUG 4	3		225	371	7.9	2.685	-	3		396	7.9	2.690	
Event Date (Local):	27/7/15	4							4					
Analysis Date (Local):	27/7/15	5		227	425	7.9	2.806		5					
Analyst:	H.A.	6							6					
Stdization Date (Local):	26/7/15	7		229	439	8.1	2.917		7					
KIO ₃ N:	0.0090172	8							8					
Standard Titer:	0.4293	9		231	2049	8.5	3.274		9					
Blank Titer:	0.00004	10							10					
THIO N:	0.229087	11		233	456	8.8	3.375		11					
Sample Flask Water Seal?	Yes	12							12					
	No	13		235	458	9.0	3.596	-	13		462	9.1	3.606	
Reagent Change?	MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	NaOH	15		237	468	9.3	3.803		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17		239	471	10.5	7.067		17					
	THIO	18							18					
Notes:		19		241	505	17.1	6.587		19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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Cruise Number: 2015-46		1		243	528	8.0	2.606	317		1					
Event: 73		2		244	547	7.9	2.620	300		2					
Station: DCUG 11		3		245	552	8.0	2.657	250		3					
Event Date (Local): 27/7/15		4		246	557	8.1	2.837	150		4					
Analysis Date (Local): 27/7/15		5		247	569	8.2	3.002	100		5					
Analyst: H.M.		6		248	570	8.5	3.200	75		6					
Stdization Date (Local): 26/7/15		7		249	575	8.1	2.756	200	* OUT OF ORDER	7	249	586	8.1	2.756	
KIO ₃ N: 0.0098172		8		250	611	8.9	3.372	50		8					
Standard Titer: 0.4283		9		251	612	9.1	3.552	30		9					
Blank Titer: 0.00004		10		252	620	9.3	3.733	20		10					
THIO N: 0.229087		11		253	621	10.5	6.201	10	-	11	252	622	10.6	6.206	
Sample Flask (Yes)		12		254				0		12					
Water Seal? No		13		255	631	16.5	6.630	0		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					
		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: July 2015

Institute of Ocean Sciences
Water Properties Group

Cruise and Analysis Information		Nisk ID	Nisk Int V 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: 2015-46		1		265	1417	7.9	2.618	376	1					
Event: 78		2		266	1418	7.9	2.604	350	2					
Station: DOUG 1b		3		267	1422	7.9	2.633	300 →	3		1426	7.9	2.629	
Event Date (Local): 27/7/15		4		268	1427	7.9	2.674	250	4					
Analysis Date (Local): 27/7/15		5		269	1429	8.0	2.720	200	5					
Analyst: H.M.		6		270	1442	8.0	2.803	150	6					
Stdization Date (Local): 26/7/15		7		271	1446	8.2	2.919	100	7					
KIO ₃ N: 0.0098172		8		272	1447	8.3	2.969	75 SHOULD BE FLASK 1457	8					
Standard Titer: 0.4283		9		273	1459	8.7	3.293	50 —	9	1460	1459	8.8	3.265	
Blank Titer: 0.00004		10		274	1460	9.0	3.486	30 1465	10					
THIO N: 0.229087		11		275	1465	9.2	3.613	20 1470	11					
Sample Flask Yes		12		276	1470	10.3	4.580	10 1472	12					
Water Seal? No		13		277	1472	10.5	6.615	0 2000	13					
Reagent Change? MnCl ₂		14		278				0	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					
		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.

Swordfish

Dissolved Oxygen Analysis Log Sheet

Last Updated: July 2015

Institute of Ocean Sciences

Water Properties Group



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:	2015-46	1			288	1417	7.8	2.590		1					
Event:	93	2								2					
Station:	FOC 1	3			290	1418	7.8	2.643		3					
Event Date (Local):	27/7/15	4								4					
Analysis Date (Local):	27/7/15	5			292	1422	7.8	2.680		5					
Analyst:	H.M.	6								6					
Stdization Date (Local):	26/7/15	7			294	1426	7.9	2.718	-	7	294	1427	7.9	2.726	
KIO ₃ N:	0.0098172	8								8					
Standard Titer:	0.42835	9			296	1429	7.9	2.813		9					
Blank Titer:	0.00004	10								10					
THIO N:	0.229087	11			298	1442	8.1	2.908		11					
Sample Flask Water Seal?	Yes	12								12					
	No	13			300	1446	8.5	3.046		13					
Reagent Change?	MnCl ₂	14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			302	1457	8.7	3.287		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16								16					
	KIO ₃	17			304	1459	9.0	3.547	-	17	304	1460	9.0	3.522	
	THIO	18								18					
Notes:		19			306	1465	9.3	3.744		19					
		20								20					
		21			308	1470	10.4	4.522		21					
		22								22					
		23			310	1472	16.1	6.548		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.

filename = 13501

MARLIN

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2015



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:	2015-46	1			321	1417	12.1	5.711	missed a drop on two 7th 10	1					first sample jitters
Event:	135	2			322	1418	12.3	6.053		2	322	1422	12.4		← first run needs deletion (2006 38)
Station:	EFF01	3			323	1426	15.4	8.361		3					
Event Date (Local):	Aug 2/15	4			324	1427	20.3	7.406		4					had to abort
Analysis Date (Local):	Aug 2/15	5								5					-when I tried to go back
Analyst:	WJ	6								6					to fix the sample ID
Stdization Date (Local):	Aug 2/15	7								7					info - it just kept
KIO ₃ N:	0.001504	8								8					titrating with no results
Standard Titer:	0.4272082	9								9					so aborted.
Blank Titer:	0.0002332	10								10					
THIO N:	0.237186	11								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:		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.

13601

MARLIN

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2015



Cruise and Analysis Information		Nisk ID	Nisk Int V 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: 2015-46		1		325	1429	9.8	0.505	there is a large particle.	1					
Event: 136		2		326	1442	9.5	0.073	run as low	2	326	1446	9.5	0.062	run as low
Station: EFF02		3		327	1457	11.1	4.435	run as normal	3					
Event Date (Local): Aug 2/15		4		328	1459	12.1	6.984	"	4					
Analysis Date (Local): Aug 2/15		5		329	1460	14.0	8.043	"	5					
Analyst: W		6		330	1465	20.1	7.304	"	6					
Stdization Date (Local): Aug 2/15		7							7					
KIO ₃ N: 0.0101504		8							8					
Standard Titer: 0.4272082		9							9					
Blank Titer: 0.0002332		10							10					
THIO N: 0.237186		11							11					
Sample Flask Water Seal? ☒ Yes ☐ No		12							12					
Reagent Change? ☒ Yes ☐ No		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					

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.

13701

MARLIN

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences

Water Properties Group

Last Updated: July 2015



Cruise and Analysis Information		Nisk ID	Nisk Int V 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: 2015-46		1		331	1470	9.0	Ø	H ₂ S smell - would not titrate	1					
Event: 137		2		332	1472	8.9	Ø	H ₂ S smell - run as low - also would not titrate	2					
Station: EFFO3		3		333	2000	9.2	Ø	run as low would not titrate	3	333	2007	9.3	Ø	would not titrate
Event Date (Local): Aug 2/15		4		334	2014	9.7	0.512	-run as low	4					
Analysis Date (Local): Aug 2/15		5		335	2015	11.3	5.694	-run as low but didn't need it	5					
Analyst: CW		6		336	2016	12.3	7.031		6	336	2017	12.3	7.047	
Stdization Date (Local): Aug 2/15		7		337	2019	13.9	8.609		7					
KIO ₃ N: 0.0101504		8		338	2020	20.2	6.898		8					
Standard Titer: 0.4272082		9							9					
Blank Titer: 0.0002332		10							10					
THIO N: 0.237186		11							11					
Sample Flask (Yes)		12							12					
Water Seal? (No)		13							13					
Reagent Change? (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					
Notes: see log		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.

13901

OCTOPUS

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2015



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:	2015-46	1			339	196	9.4	1.323		1	339	371	9.4	1.324	
Event:	139	2			340	396	11.4	5.284		2					
Station:	EFF04	3			341	425	12.5	6.697		3					
Event Date (Local):	Aug 2/15	4			342	439	15.3	8.522	particles of reagents took a bit to dissolve	4					
Analysis Date (Local):	Aug 3/15	5			343	2049	20.7	6.503		5					
Analyst:	cw	6								6					
Stdization Date (Local):	Aug 2/15	7								7					
KIO ₃ N:	0.0101504	8								8					
Standard Titer:	0.4272082	9								9					
Blank Titer:	0.0002332	10								10					
THIO N:	0.237186	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 NO	16								16					
	KIO ₃	17								17					
	THIO	18								18					
Notes:	-pickling reagents changed Aug 2	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.

14001

OCTOPUS

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences

Water Properties Group

Last Updated: July 2013

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: 2015-48	1			344	456	9.1	1.103		1					
Event: 140	2			345	458	9.1	1.371		2	345	462	9.1	1.1376	
Station: EFF 05	3			346	468	9.1	1.425		3					
Event Date (Local): Aug 2/15	4			347	471	9.1	1.406		4					
Analysis Date (Local): Aug 3/15	5			348	505	9.1	1.259		5					
Analyst: CW	6			349	510	9.1	1.021		6	349	528	9.2	1.018	
Stdization Date (Local): Aug 2/15	7			350	547	9.4	1.505		7					
KIO ₃ N: 0.0101504	8			351	552	11.5	5.428		8					
Standard Titer: 0.4272082	9			352	557	12.4	6.483		9					
Blank Titer: 0.0002332	10			353	569	14.0	7.909		10					
THIO N: 0.237186	11			354	570	19.5	7.783	spigot dripping where touches Niskin	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					
	19								19					
Notes: See log on picking change Aug 2	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.

14101

OCTOPUS

Dissolved Oxygen Analysis Log Sheet

Last Updated: July 2015

Institute of Ocean Sciences

Water Properties Group



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: 2015-46	1			356	575	9.1	1.293								1					
Event: 141	2			357	586	9.1	1.272								2					
Station: EFF06	3			358	611	9.1	1.223								3	358	612	9.1	1.220	
Event Date (Local): Aug 2/15	4			359	620	9.2	1.248								4					
Analysis Date (Local): Aug 3/15	5			360	621	9.5	1.674								5					
Analyst: CW	6			361	622	11.3	4.925								6					
Stdization Date (Local): Aug 2/15	7			362	631	12.1	5.936								7	362	638	12.1	5.933	
KIO ₃ N: 0.0101504	8			363	639	13.3	7.279								8					
Standard Titer: 0.4272082	9			364	647	18.1	8.200								9					
Blank Titer: 0.0002332	10														10					
THIO N: 0.237186	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					
	19														19					
Notes: See log picking changed Aug 2	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.

14201

DINO = Loc 1 + NSS

Dissolved Oxygen Analysis Log Sheet

Last Updated: July 2015

Institute of Ocean Sciences

Water Properties Group



Cruise and Analysis Information		Nisk ID	Nisk Int V 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: 2015-46		1	X	365	650	9.3	1.344		1					- vent fouled test - leak
Event: 142		2		366	657	9.2	1.406		2					
Station: EFF07		3		367	658	9.2	1.517		3					
Event Date (Local): Aug 2/15		4		368	690	9.6	1.851	- had to redo - ignore (date first)	4	368	705	9.7	1.864	
Analysis Date (Local): Aug 3/15		5		369	708	11.2	4.535		5					
Analyst: CW		6		370	712	12.1	5.898	Spigot 6 leaking from neck	6					
Stdization Date (Local): Aug 2/15		7		371	715	12.9	7.055		7					
KIO ₃ N: 0.0101504		8		372	745	17.8	8.404		8					
Standard Titer: 0.4272082		9							9					
Blank Titer: 0.0002332		10							10					
THIO N: 0.237186		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					
NOTE NEW BATCH IN LOG BOOK		16							16					
		17							17					
		18							18					
Notes: See log book changed Aug 2		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.

14301

DINO = LOCHNESS

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences

Water Properties Group

Last Updated: July 2015



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:	2015-46	1			373	1015	9.5	1.904		1	373	1019	9.5	1.904	
Event:	143	2			374	1023	9.3	1.867		2					
Station:	E F 08	3			375	1035	9.8	2.168		3					
Event Date (Local):	Aug 2/15	4			376	1050	11.3	4.841		4					
Analysis Date (Local):	Aug 3/15	5			377	1053	12.0	5.769	took a bit for particles to break	5					
Analyst:	CW	6			378	1054	12.7	6.756	add end point	6					
Stdization Date (Local):	Aug 2/15	7			379	1055	16.7	8.820	- looks good (please check)	7					
KIO ₃ N:	0.010504	8								8					
Standard Titer:	0.4272082	9								9					
Blank Titer:	0.0002332	10								10					
THIO N:	0.237186	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					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

Aug 2nd picking reagents changed

Seemed very sticky residue sticking to this tube and messy bottom titration? (please check) - cleaned off this tube before next titration

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.

ICTH408TOR. = LOCHUCSD

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2015



14401

Cruise and Analysis Information							Nisk ID	Nisk Int V 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: 2015-46	1	X		381	1175	9.3	1.883							1						spigot leaking
Event: 144	2			382	1223	11.1	4.158							2	382	1401	11.1	4.180		
Station: EFF09	3			383	1402	12.0	5.671							3						
Event Date (Local): Aug 2/15	4			384	1404	12.7	6.729							4						
Analysis Date (Local): Aug 3/15	5			385	1406	17.3	8.50							5						
Analyst: CWB	6													6						
Stdization Date (Local): Aug 2/15	7													7						
KIO ₃ N: 0.010504	8													8						
Standard Titer: 0.4272082	9													9						
Blank Titer: 0.0002332	10													10						
THIO N: 0.237186	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						
	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.

14501

SHARK.

Dissolved Oxygen Analysis Log Sheet

Last Updated: July 2015

Institute of Ocean Sciences

Water Properties Group



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: 2015-56		1			386	3044	9.1	1.832		1					
Event: 145		2			387	3046	9.1	1.836		2	387	3047	9.1	1.835	
Station: EFFF10		3			388	3048	9.3	1.848		3					
Event Date (Local): Aug 2/15		4			389	3049	10.9	3.856		4					
Analysis Date (Local): Aug 2/15		5			390	3050	11.7	5.153		5					
Analyst: CW		6			391	3051	12.5	6.315		6					
Stdization Date (Local): Aug 2/15		7			392	3052	17.7	8.353		7					
KIO ₃ N: 0.010504		8								8					
Standard Titer: 0.4272082		9								9					
Blank Titer: 0.0002332		10								10					
THIO N: 0.237286		11								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)		15								15					
NOTE NEW BATCH IN LOG BOOK		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.

14601

SHARK

Dissolved Oxygen Analysis Log Sheet

Last Updated: July 2015

Institute of Ocean Sciences
Water Properties Group

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:	2015-46	1			393	3061	9.3	1.911		1					
Event:	146	2			394	3062	9.4	1.915		2	394	3065	9.4	1.914	
Station:	EFFLI	3			395	3066	10.8	3.834	aborted first attempt	3					
Event Date (Local):	Aug 2/15	4			396	3067	11.7	4.970		4					
Analysis Date (Local):	Aug 3/15	5			397	3055	12.9	7.106		5					
Analyst:	CW	6			398	3067	15.9	7.611		6					
Stdization Date (Local):	Aug 2/15	7								7					
KIO ₃ N:	0.010504	8								8					
Standard Titer:	0.4272082	9								9					
Blank Titer:	0.0002332	10								10					
THIO N:	0.237186	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					
		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.

14701

SHARK

Dissolved Oxygen Analysis Log Sheet

Last Updated: July 2015

Institute of Ocean Sciences

Water Properties Group



Cruise and Analysis Information		Nisk ID	Nisk Int V 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: 2015-46		1	X	399	3059	9.3	2.421		1					spigot 1 = leak
Event: 147		2		400	3057	9.1	2.153	- maybe check endpoint	2					
Station: EFF 12		3		401	3060	9.3	1.940		3	401	3070	9.3	1.933	
Event Date (Local): Aug 2/15		4		402	3072	10.7	3.645		4					
Analysis Date (Local): Aug 3/15		5		403	3073	12.4	4.700		5					
Analyst: CW		6		404	3075	12.9	7.127		6					
Stdization Date (Local): Aug 2/15		7		405	3074	17.4	9.127		7					
KIO ₃ N: 0.010504		8							8					
Standard Titer: 0.4272082		9							9					
Blank Titer: 0.0002382		10							10					
THIO N: 0.237186		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					
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.

TURTLE

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2015



14801

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: 2015-46	1			406	3124	9.0	2.608								1						spigot 1 leaking
Event: 148	2			407	3125	9.1	2.294								2						
Station: EFF-13	3			408	3126	9.3	2.240								3	409	3127	9.3	2.243		
Event Date (Local): Aug 2/15	4			409	3129	10.9	4.074								4						
Analysis Date (Local): Aug 3/15	5			410	3131	11.6	4.939								5						
Analyst: CW	6			411	3132	13.5	7.923								6						
Stdization Date (Local): Aug 2/15	7			412	3133	17.7	9.375								7						
KIO ₃ N: 0.010504	8														8						
Standard Titer: 0.4272682	9														9						
Blank Titer: 0.0002332	10														10						
THIO N: 0.237186	11														11						
Sample Flask	12														12						
Water Seal?	13														13						
Reagent Change?	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						
	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.

SWORDFISH

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: July 2015



15001

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:	2015-46	1			413	1417	6.4	0.977		1					
Event:	150	2			414	1418	7.7	2.115		2	414	1422	7.7	2.111	
Station:	A1	3								3					
Event Date (Local):	Aug 3/15	4								4					
Analysis Date (Local):	Aug 3/15	5								5					
Analyst:	cw	6								6					
Stdization Date (Local):	Aug 2/15	7								7					
KIO ₃ N:	0.0156504	8								8					
Standard Titer:	0.4272802	9								9					
Blank Titer:	0.000237186	10								10					
THIO N:		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.