

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: March 2014

Bender

Cruise and Analysis Information								Nisk				Nisk Int				Sample				Flask 1				Depth				Draw				OXY 1				Comments				Nisk				Flask 2				Draw				OXY 2				Comments			
								ID	V	S	ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)					ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)																																				
Cruise Number: 2015-17								1			1	2084	100	9.1	1.909					1																																							
Event: 01								2			2	3134	75	9.0	3.711	- A few particles swirling around				2																																							
Station: Stn 51								3			3	3129	350	8.9	4.911	but clean curve.				3																																							
Event Date (Local): 1 Apr 2015								4			4	2016	10	8.9	4.858	⇒				4	3089	8.9	4.846	ouch!																																			
Analysis Date (Local): 01 April 2015								5			5	2014	30	8.9	4.909					5																																							
Analyst: KS								6			6	557	20	8.9	4.963					6																																							
Stdization Date (Local): 01 April 2015								7			7	1465	10	9.0	4.965					7																																							
KIO ₃ N: 0.0099666								8			8	94	5	9.0	5.006					8																																							
Standard Titer: 0.7107								9			9	2063	0	9.5	8.697	- Much phytoplankton in sample.				9																																							
Blank Titer: 0.0023								10								Titration quite noisy.				10																																							
THIO N: 0.14109								11												11																																							
Sample Flask Water Seal? ☒ Yes								12												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																																							

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

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Cruise and Analysis Information		Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2015-17	1			10	3118	228	8.7	4.592		1				
Event:	84	2			11	3076	200	8.6	4.637		2				
Station:	59	3			12	2099	175	8.5	4.722		3				
Event Date (Local):	01 April 2015	4			13	611	150	8.6	4.745		4				
Analysis Date (Local):	01 April 2015	5			14	1035	125	8.7	4.952	→	5	1470	8.7	4.955	
Analyst:	KS	6			15	3033	100	8.7	4.974	- Please check endpoint	6				
Stdization Date (Local):	01 April 2015	7			16	1459	75	8.7	5.047		7				
KIO ₃ N:	0.009866	8			17	3109	50	8.7	5.005		8				
Standard Titer:	0.7107	9			18	3002	40	8.8	5.020	→	9	1442	8.7	5.016	
Blank Titer:	0.0023	10			19	2020	30	8.8	5.053		10				
THIO N:	0.14109	11			20	3121	20	8.9	5.056		11				
Sample Flask Water Seal?	Yes	12			21	569	10	8.9	5.062		12				
	No	13			22	3070	5	8.9	5.084		13				spigot leakens
Reagent Change?	MnCl ₂	14			23	3164	0	9.0	5.114		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.

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Institute of Ocean Sciences
Water Properties Group

OCTOPUS

Last Updated: March 2014

Cruise and Analysis Information									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			24	3008	245	7.5	2.350		1				
2			25	3107	200	7.5	2.448		2				
3			26	2015	175	7.7	2.610		3				
4			27	3075	150	7.9	2.771		4				
5			28	3120	125	8.0	3.019		5				
6			29	3110	100	8.4	3.451	⇒	6	3145	8.3	3.467	this dup first
7			30	3054	75	8.5	3.954		7				
8			31	2032	50	8.7	4.892	redraw	8				
9			32	1429	40	8.9	5.002	⇒	9	3148	9.0	5.023	
10			33	3147	30	9.1	5.292		10				
11			34	3143	20	9.3	5.665		11				
12			35	3156	10	9.9	6.213		12				
13			36	1406	5	10.2	6.385		13				
14	✓	X	37	3057	0	10.4	6.502	redraw, spigot open	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.

Last Updated: March 2014

W H A L F

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

WHALE

Cruise and Analysis Information								Nisk				Nisk Int				Sample				Flask 1				Depth				Draw				OXY 1				Comments			
								ID	V	S	ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)					ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments															
Cruise Number: 2015-17								1			52	3101	182	7.9	2.534					1				base bottom valve / tightend															
Event: 7# 15								2			53	3053	175	7.8	2.524					2																			
Station: 72								3			54	2094	150	7.9	2.541					3																			
Event Date (Local): 02 April 2015								4			55	2068	125	7.9	2.661	→ dup				4	3133	7.9	2.663	incorrect sample ID and depth input															
Analysis Date (Local): 02 April 2015								5			56	690	100	8.2	3.161	Also incorrect sample ID and depth				5																			
Analyst: KS								6			57	3144	75	8.6	3.979					6																			
Stdization Date (Local): 01 April 2015								7			58	3066	50	9.0	4.757					7																			
KIO ₃ N: 0.0099666								8			59	3131	40	9.1	5.155	→ dup				8	3146	9.1	5.151																
Standard Titer: 0.7107								9			60	3099	30	9.4	5.601					9																			
Blank Titer: 0.0023								10			61	3035	20			bottom cap hung up on wire going to ch.				10																			
THIO N: 0.14109								11			62	2019	10	10.1	6.625	wrong sample ID				11																			
Sample Flask Water Seal? Yes								12			63	3062	5	10.5	7.073	lots of floaters swirling				12																			
Water Seal? No								13			64	2017	0	11.0	7.362	" L curve noisy				13																			
Reagent Change? MnCl ₂								14												14																			
(Please circle reagent that was changed prior to sampling and standardization)								15												15																			
NOTE NEW BATCH IN LOG BOOK								16												16																			
								17												17																			
								18												18																			
Notes:								19												19																			
								20												20																			
								21												21																			
								22												22																			
								23												23																			
								24												24																			

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

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WHALE

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2015-17	1			65	3009	172	7.9	2.747						1				
Event:	18	2			66	3051	150	7.9	2.744						2				
Station:	69	3			67	3073	125	7.9	2.768					→ dup	3	3050	7.9	2.769	
Event Date (Local):	02 April 2015	4			68	3095	100	8.2	3.242						4				
Analysis Date (Local):	02 April 2015	5			69	3086	75	8.3	3.651						5				
Analyst:	KS	6			70	3085	50	8.7	4.526						6				
Stdization Date (Local):	01 April 2015	7			71	1422	40	8.9	4.820						7				
KIO ₃ N:	0.0099666	8			72	3209	30	8.9	4.938						8				
Standard Titer:	0.7107	9			73	196	20	9.1	5.224					→ dup	9	3108	9.1	5.222	
Blank Titer:	0.0023	10			74	1175	10	9.3	5.752						10				
THIO N:	0.14109	11			75	468	5	9.7	6.206						11				
Sample Flask Water Seal?	Yes	12			76	3142	0	10.2	7.398					lots of phyto - Curve noisy	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				
	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.

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Upside down turtle

Cruise and Analysis Information								Nisk				Nisk Int				Sample				Flask 1				Depth				Draw				OXY 1				Comments			
								ID	V	S	ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)					ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments															
Cruise Number:	2015-17							1			77	1015	115	8.3	3.610					1																			
Event:	21							2			78	650	100	8.3	3.673					2																			
Station:	ADCP							3			79	2040	75	8.6	4.182					3																			
Event Date (Local):	02 April 2015							4			80	1411	50	9.0	4.929					4																			
Analysis Date (Local):	03 April 2015							5			81	2000	40	9.0	5.042	→ Dup				5	1409	9.0	5.050																
Analyst:	KS							6			82	3072	30	9.1	5.162					6																			
Stdization Date (Local):	03 April 2015							7			83	3041	20	9.2	5.308					7																			
KIO ₃ N:	0.0099666							8			84	510	10	9.4	6.033					8																			
Standard Titer:	0.7107							9			85	3005	5	9.5	6.153					9																			
Blank Titer:	0.0023							10			86	3029	0	9.9	6.650					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: Steve Fix: Nina							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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BENDER

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:	2015-17	1			97	2084	147	8.5	4.034	147	1				
Event:	28	2			98	3134	200	8.4	3.947	147	2				
Station:	63	3			99	3129	150	8.5	4.020	⇒ 125	3	2016	8.5	4.011	
Event Date (Local):	APR 3, 2015	4			100	3089	125	8.5	4.027	100	4				
Analysis Date (Local):	03 April 2015	5			101	2014	100	8.6	4.344	80	5				
Analyst:	KS	6			102	557	75	8.7	4.433		6				
Stdization Date (Local):	03 April 2015	7			103	1465	50	8.9	4.840		7				
KIO ₃ N:	0.0099666	8			104	94	40	9.0	5.138	⇒ small bubble under stopper	8	2063	9.1	5.138	- Nice!
Standard Titer:	0.7107	9			105	3118	30	9.1	5.323		9				
Blank Titer:	0.0023	10			106	3076	20	9.1	5.308	copepod in sample = small blips in curve	10				
THIO N:	0.14109	11			107	2099	10	9.2	5.466		11				
Sample Flask Water Seal?	Yes	12			108	611	5	9.2	5.692		12				
	No	13			109	1035	0	9.4	5.943		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.

Samplers: Steve/Matt

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* Precipitate did not seem to dissolve as quickly as normal. I added 2 mL acid to speed up dissolution.

Cruise and Analysis Information									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			110	1470	142	8.5	4.081	⇒ Floaters	1	3033	8.5	4.088	-Floaters
2			111	1459	125	8.5	4.233	redraw	2				
3			112	3109	100	8.6	4.323		3				
4			113	3002	100	8.9	4.939		4				
5			114	1442	50	9.0	5.263		5				
6			115	2020	40	9.1	5.293		6				
7			116	3121	30	9.2	5.400		7				
8		X	117	569	20	9.2	5.459	spigot open	8				
9			118	3070	10	9.2	5.508	- Noisy curve, near end. Check endpoint placement.	9				
10			119	3164	5	9.3	5.574		10				
11			120	1460	0	9.3	5.671		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				

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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OCTOPUS

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Cruise and Analysis Information							Nisk ID	Nisk Int V	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2015-17	1		121	3008	218	8.9	4.732							1				
Event:	2015-17 35	2		122	3107	200	8.9	4.719						incorrect depth input into software	2				
Station:	56	3		123	2015	175	8.9	4.729							3				
Event Date (Local):	APR 3, 2015	4		124	3075	150	8.9	4.727							4				
Analysis Date (Local):	03 April 2015	5		125	3120	125	8.9	4.716							5				
Analyst:	KS	6		126	3110	100	8.9	4.750							6				
Stdization Date (Local):	03 April 2015	7		127	3145	75	9.0	4.754							7				
KIO ₃ N:	0.0099666	8		128	3054	50	9.0	4.753						⇒	8	2032	9.0	4.755	
Standard Titer:	0.7107	9		129	1429	40	9.0	4.762							9				
Blank Titer:	0.0023	10		130	3148	30	9.0	4.768							10				
THIO N:	6.14109	11	X	131	3147	20	9.1	4.777						spigot leaking →	11				top cap not seated →
Sample Flask Water Seal?	Yes	12		132	3143	10	9.1	5.440							12				
	No	13		133	3158	5	9.3	5.599							13				
Reagent Change?	MnCl ₂	14		134	1406	0	9.3	5.622							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.

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Octopus

Cruise and Analysis Information												Cruise and Analysis Information							
RISK ID	V	S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	RISK ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments						
Cruise Number: 2015-17	1		135	3008	172	8.9	4.744		1										
Event: 42	2		136	3107	150	8.8	4.776		2										
Station: 46	3		137	2015	125	8.8	4.821		3										
Event Date (Local): 03 April 2015	4		138	3075	100	8.9	4.868	→ dup	4	3120	8.8	4.873	-A bit funny near endpoint Please check						
Analysis Date (Local): 03 April 2015	5		139	3110	75	8.8	4.854		5										
Analyst: KS	6		140	3145	50	8.9	4.895		6										
Stdization Date (Local): 03 April 2015	7		141	3054	40	8.9	4.803		7										
KIO ₃ N: 0.0099666	8		142	2032	30	9.0	4.183	-dup	8	1429	9.0	4.181							
Standard Titer: 0.7107	9		143	3148	20	9.0	4.135		9										
Blank Titer: 0.0023	10		144	3147	10	9.1	4.817		10										
THIO N: 0.14109	11		145	3143	5	9.2	5.169		11										
Sample Flask Water Seal? Yes	12		146	3158	0	9.3	5.691		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										
Notes: Sample: Kenny	20								20										
Fix: Peter	21								21										
	22								22										
	23								23										
	24								24										

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Octopus

Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2015-17	1		147	3008	313	8.8	2.398		1				
Event:	46	2		148	3107	300	8.8	2.426		2				
Station:	42	3		149	2015	250	8.8	2.657		3				
Event Date (Local):	03 April 2015	4		150	3075	200	8.8	2.996		4				
Analysis Date (Local):	04 April 2015	5		151	3120	175	8.6	3.593	→ dup	5	3110	8.7	3.591	
Analyst:	KS	6		152	3054	150	8.7	4.268		6				
Stdization Date (Local):	04 April 2015	7		153	2032	125	8.7	4.247		7				
KIO ₃ N:	0.0099666	8		154	3147	100	8.7	4.332		8				
Standard Titer:	0.7105	9		155	1429	75	8.7	4.453		9				
Blank Titer:	0.0020	10		156	3148	50	8.9	3.916	→ dup	10	3145	8.9	3.918	
THIO N:	0.14167	11		157	3143	40	8.9	3.929		11				
Sample Flask Water Seal?	Yes	12		158	3158	30	8.9	3.988		12				
	No	13		159	1406	20	8.9	4.505		13				
Reagent Change?	MnCl ₂	14		160	3057	10	9.1	5.467	small bubble under stopper prior to	14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		161	3052	5	9.3	6.016	analysis.	15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		162	3125	0	9.3	?	Capexd swirling around in sample	16				
	KIO ₃	17							Titration was ok.	17				
	THIO	18								18				
Notes:	MnCl ₂ #1401. Must	19							Low T (94.5%). No bubbles	19				
	restandardize before analyzing	20							FT= 1.322 OT= is no better if	20				
	this cal.	21							→ 0.054 (0.289 mL/L)	21				
	Sample: Kenny	22								22				
	Fix: Peter.	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

SHARK!

Cruise and Analysis Information								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			163	528	374	8.6	2.290		1						
2			164	2092	350	8.7	2.291		2						
3			165	622	300	8.7	2.473	⇒	3	3094	8.8	2.464			
4			166	3000	250	8.8	2.567		4						
5			167	639	200	8.8	2.830		5						
6			168	2065	175	8.6	3.781		6						
7			169	1468	150	8.6	3.878		7						
8			170	1223	125	8.6	4.326		8						
9			171	2098	100	8.7	4.352	⇒	9	570	8.8	4.340			
10			172	3111	75	8.8	4.314	- Funny curve near endpoint. Please check	10						
11			173	1467	50	8.8	4.101		11						
12			174	2043	40	8.9	4.304		12						
13			175	631	30	9.0	4.421		13						
14			176	2059	20	9.1	5.267		14						
15			177	2087	10	9.3	5.953		15						
16			178	371	5	9.5	6.504		16						
17			179	3007	0	9.4	7.408	Top End cap not sealed on Niskin	17						
18								- water seal missing. No air in	18						
19								- sample nor was there any water	19						
20								outside of stopper.	20						
21									21						
22									22						
23									23						
24									24						

Notes:

Samples: Nina / Steve

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

TURTLE

Cruise and Analysis Information								Nisk ID				Nisk ID			
								ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments			
Cruise Number:	2015-17	1		181	1015	348	8.9	2.542	1st attempt started in air. Rerun ok.	1					
Event:	58	2		182	650	300	8.9	2.691		2					
Station:	27	3		183	2040	250	8.9	3.024		3					
Event Date (Local):	APR 4 2015	4		184	1411	200	8.8	3.523		4					
Analysis Date (Local):	Apr 4 2015	5		185	2000	175	8.8	3.738		5					
Analyst:	KS	6		186	1409	150	8.7	4.158		6					
Stdization Date (Local):	April 4 2015	7		187	3072	125	8.7	4.343		7					
KIO ₃ N:	0.0099666	8		188	3041	100	8.8	4.197		8					
Standard Titer:	0.7105	9		189	510	75	8.9	4.143		9					
Blank Titer:	0.0020	10		190	3005	50	8.9	3.971	⇒	10	3029	8.9	3.966		
THIO N:	0.14107	11		191	612	40	8.9	4.016		11					
Sample Flask	Yes	12		192	3074	30	9.0	5.158		12					
Water Seal?	No	13		193	3037	20	9.2	5.893	⇒	13	2075	9.2	5.893		
Reagent Change?	MnCl ₂	14		194	2086	10	9.3	6.257		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		195	2088	5	9.4	6.566		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		196	621	0	9.4	?	Many particles/plankton in sample leading to premature ending to titration	16					
	KIO ₃	17							FT = 1.098 (6.708 mL/L)	17					
	THIO	18							OT = 0.071 (0.410 mL/L)	18					
Notes:	Sample: Nina	19							↳ better but still noisy. Please	19					
	Fix: Steve	20							check endpoint placement.	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

Bender

Cruise and Analysis Information								Comments				
Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2015-17	1		197	2084	270	9.3	2.534	1				
Event: 63	2		198	3134	250	9.2	2.722	2				
Station: 2	3		199	3129	200	9.2	3.114	3				
Event Date (Local): APR 4 2015	4		200	2016	175	9.2	3.368	4				
Analysis Date (Local): April 4, 2015	5		201	3089	150	9.0	4.182	5				
Analyst: KS	6		202	2014	125	9.0	4.257	6				
Stdization Date (Local): April 4, 2015	7		203	557	100	9.1	4.187	7				
KIO ₃ N: 0.0099666	8		204	1465	75	9.1	4.163	8	94	9.1	4.164	
Standard Titer: 0.7105	9		205	2063	50	9.2	4.413	9				
Blank Titer: 0.0020	10		206	3118	40	9.1	4.863	10				
THIO N: 0.14107	11		207	3076	30	9.2	5.235	11				
Sample Flask Water Seal? Yes	12		208	2099	20	9.3	5.527	12				
	13		209	611	10	9.3	5.687	13	1035	9.3	5.682	
Reagent Change? MnCl ₂	14		210	1470	5	9.5	6.776	14				
(Please circle reagent that was changed prior to sampling and standardization)	15		211	3033	0	9.7	8.037	15				
NOTE NEW BATCH IN LOG BOOK	16							16				
	17							17				
	18							18				
Notes: Sample: Kenny	19							19				
Fix: Peter	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

Sea Turtle

Cruise and Analysis Information								NISK ID	NISK Int V S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	NISK ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2015-17							1			228	1015	8.9	4.625		1				
Event:	*70							2			229	650	9.0	4.862		2				
Station:	BS							3			230	2040	9.1	5.086		3				
Event Date (Local):	04 April 2014							4			231	1411	9.1	5.056	→ dup	4	2000	9.1	5.056	
Analysis Date (Local):	04 April 2014							5			232	1409	9.2	5.290		5				
Analyst:	KS							6			233	3072	9.3	5.787		6				
Stdization Date (Local):	04 April 2014							7			234	3041	9.4	5.885		7				
KIO ₃ N:	0.0099666							8			235	510	9.5	6.034		8				
Standard Titer:	0.7105							9								9				
Blank Titer:	0.0020							10								10				
THIO N:	0.14107							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: Kenny							19								19				
	Fix: Peter							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

Bender

Cruise and Analysis Information								Comments				
Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2015-17	1		236	2084	186	8.9	3.245	1				
Event: 73	2		237	3134	175	8.9	3.173	2				
Station: 6	3		238	3129	150	8.9	3.994	3	2016	8.8	3.991	
Event Date (Local): 4 Apr 2015	4		239	2089	125	8.8	4.251	4				
Analysis Date (Local): 5 April 2015	5		240	2014	100	8.9	4.058	5				
Analyst: KS	6		241	557	75	8.9	3.870	6				
Stdization Date (Local): 5 April 2015	7		242	1465	50	9.0	5.099	7				
KIO ₃ N: 0.0099666	8		243	94	40	9.1	5.321	8				
Standard Titer: 0.7103	9		244	2063	30	9.2	5.503	9	3118	9.1	5.505	
Blank Titer: 0.0018	10		245	3076	20	9.3	5.935	10				
THIO N: 0.14107	11		246	2099	10	9.3	6.460	11				top cap not seated
Sample Flask Water Seal? Yes	12		247	611	5	9.5	6.677	12				
	13		248	1035	0	9.6	6.785	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: New batch #134MMIX	19							19				
Standardized prior to this cast.	20							20				
Sample: Kenny Fix: Peter	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

SHARK 1

Cruise and Analysis Information								Comments			
Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)				
1			261	328	350	8.8	2.353				
2			262	2092	300	8.9	2.493	⇒			
3			263	3094	250	8.9	2.677				
4			264	3000	200	8.9	2.915				
5			265	639	175	8.9	3.369				
6			266	2065	150	9.0	3.596				
7			267	1408	125	8.9	3.739				
8			268	1223	100	9.0	3.717				
9			269	2098	75	9.0	3.931				
10			270	570	50	9.0	4.307				
11			271	3111	40	9.1	5.228	⇒			
12			272	2043	30	9.3	6.221				
13			273	631	20	9.4	6.445	- bubble under stopper			
14			274	2059	10	9.5	6.503				
15			275	2087	5	9.7	6.547				
16			276	371	0	9.3	6.615	- bubble under stopper			
17											
18											
19											
20											
21											
22											
23											
24											

Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
1				
2	622	8.9	2.480	- endpoint is early. Please adjust.
3				
4				
5				
6				
7				
8				
9				
10				
11	1407	9.1	5.205	
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

Cruise Number: 2015-17 Event: 81 Station: 12 Event Date (Local): APR 5, 2015 Analysis Date (Local): April 5, 2015 Analyst: KS Stdization Date (Local): April 5, 2015 KIO₃ N: 0.0099666 Standard Titer: 0.7103 Blank Titer: 0.0018 THIO N: 0.14107 Sample Flask Water Seal? Yes Reagent Change? MnCl ₂ (Please circle reagent that was changed prior to sampling and standardization) NaI/NaOH H ₂ SO ₄ NOTE NEW BATCH IN LOG BOOK KIO ₃ THIO Notes: Samples: Nina/Stew

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

OCTOPUS

Last Updated: March 2014

Cruise and Analysis Information										Nisk ID	Nisk Int V S	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk ID	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2015-17	1			277	3008	310	9.3	2.359	=> 310	1						1	3107	9.3	2.346		
Event:	83	2			278	2015	250	9.1	2.917	260	2						2					
Station:	14	3			279	3075	200	9.1	3.151	175	3						3					
Event Date (Local):	APR 5, 2015	4			280	3120	175	9.1	3.322	150	4						4					
Analysis Date (Local):	05 April 2015	5			281	3110	180	9.0	3.369	125	5						5					
Analyst:	KS	6			282	3054	125	8.9	3.688	100	6						6					
Stdization Date (Local):	05 April 2015	7			283	2032	180	8.9	4.231	75	7						7					
KIO ₃ N:	0.0099666	8			284	3147	75	9.0	4.699	50	8						8					
Standard Titer:	0.703	9			285	1429	80	9.0	4.911	40	9						9					
Blank Titer:	0.0018	10			286	3148	40	9.1	5.310	30	10						10					
THIO N:	0.14107	11			287	3145	30	9.2	5.875	=> 20	11						11	3143	9.2	5.875		
Sample Flask	Yes	12			288	3158	20	9.2	6.140	10	12						12					
Water Seal?	No	13			289	1406	10	9.3	6.312	5	13						13					
Reagent Change?	MnCl ₂	14			290	3057	305	9.3	6.309	0	14						14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			291	3103	250	9.4	2.473	250	15						15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16								4	16						16					
	KIO ₃	17								* Must fix depths in AutoOxy.	17						17					
	THIO	18								Follow these. 250m was	18						18					
Notes:		19								originally skipped by mistake so	19						19					
		20								Niskin 15 was fired @ 250.	20						20					
		21									21						21					
		22									22						22					
		23									23						23					
		24									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								Comments				Cruise and Analysis Information				Comments			
ID	Nisk V	Nisk Int S	Sample ID	Flask 1	Depth (m)	Draw T1 (°C)	OXY 1 (mL/L)			ID	Flask 2	Draw T2 (°C)	OXY 2 (mL/L)						
1			292	3101	153	9.4	2.798	⇒		1	3053	9.5	2.796						
2			293	2094	125	9.4	2.935			2									
3			294	2068	100	9.3	3.179			3									
4			295	3133	75	9.3	3.854	4.672 mL/L		4									
5			296	690	50	9.3	4.837	analyzed in reverse order		5									
6			297	3144	40	9.3	4.837			6									
7			298	3068	30	9.3	5.151			7									
8			299	3131	20	9.3	5.203			8									
9			300	346	10	9.3	5.907	⇒		9	3035	9.4	5.922						
10			301	3099	5	9.4	6.253			10									
11			302	2019	0	9.4	6.338			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									

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.