

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: March 2014

Tamarz Frase

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:	2015-20	1			2	3083		9.0	4.317	Redraw	1				
Event:	6	2			3	3084	10	9.1	5.181		2				
Station:	LBO1	3			4	3085	5	9.7	7.698	- lots of phyt. in sample - end @ 231v	3				
Event Date (Local):	28 May 2015	4			5	3086	5	9.7	7.636		4				
Analysis Date (Local):	28 May 2015	5									5				
Analyst:	KS	6									6				
Stdization Date (Local):	27 May 2015	7									7				
KIO ₃ N:	0.0100	8									8				
Standard Titer:	0.42255	9									9				
Blank Titer:	0.00037	10									10				
THIO N:	0.23719	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:	WHALE	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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Tamara sampling

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:	2015-20	1			6	3089	45	8.7	3.971		1				
Event:	7	2			7	3090	30	9.0	4.499		2				
Station:	LB-02	3			8	3093	20	9.1	4.827		3	3094	9.1	4.830	
Event Date (Local):	28 May 2015	4			9	3095	10	9.7	6.911		4				
Analysis Date (Local):	28 May 2015	5			10	3096	5	10.7	10.220	- titrated > 1.0 mL even @ 60g/L shio	5				
Analyst:	KS	6									6				
Stdization Date (Local):	27 05 15	7									7				
KIO ₃ N:	0.0100261	8									8				
Standard Titer:	0.42255	9									9				
Blank Titer:	0.00037	10									10				
THIO N:	0.23719	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:	Sperm whale	19									19				
		20									20				
		21									21				
		22									22				
		23									23				
		24									24				

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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: 1520	1	X		12	3099	bot-70	7.4	2.567	Vent not sealed	1				
Event: 9	2			13	3100	75	7.9	3.872	⇒	2	3101	7.9	3.871	
Station: LB04	3			14	3103	50	8.1	3.787		3				
Event Date (Local): 28 May 2015	4			15	3104	30	8.5	3.866		4				
Analysis Date (Local): 28 May 2015	5			16	3106	20	8.9	4.398		5				
Analyst: KS	6			17	3107	10	9.5	5.408		6				
Stdization Date (Local): 27 May 2015	7	X		18	3108	5	10.2	6.208	Vent not sealed	7				
KIO ₃ N: 0.0100261	8									8				
Standard Titer: 0.42255	9									9				
Blank Titer: 0.00037	10									10				
THIO N: 0.23719	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.

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Whale

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:	1520	1			20	3110	105	7.1	2.042		1				
Event:	10 14	2			21	3111	75	7.4	2.499	⇒	2	3114	7.5	2.500	
Station:	LB06	3			22	3116	50	8.0	3.447		3				
Event Date (Local):	28 May 2015	4			23	3117	30	8.8	4.276		4				
Analysis Date (Local):	28 May 2015	5			24	3118	20	9.3	5.067		5				
Analyst:	KS	6			25	3119	10	10.3	6.774		6				
Stdization Date (Local):	27 May 2015	7			26	3120	5	11.8	8.072		7				
KIO ₃ N:	0.0100261	8									8				
Standard Titer:	0.42255	9									9				
Blank Titer:	0.00037	10									10				
THIO N:	0.23719	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.

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Swallow

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:	2015-20	1			28	2055	7.1		1.583		1				
Event:	29	2			29	2056	7.1		1.892	→	2	2059	7.1	1.891	
Station:	LB08	3			30	2060	7.3		2.262		3				
Event Date (Local):	28 May 2015	4			31	2061	7.8		2.734		4				
Analysis Date (Local):	28 May 2015	5			32	2063	8.5		3.933		5				
Analyst:	KS	6			33	2064	9.0		4.598		6				
Stdization Date (Local):	27 May 2015	7			34	2065	9.9		5.872	- started in air, 2nd attempt ok	7				
KIO ₃ N:	0.0100261	8			35	2068	10.9		6.772		8				
Standard Titer:	0.42255	9									9				
Blank Titer:	0.00037	10									10				
THIO N:	0.23719	11									11				
Sample Flask	Yes	12									12				
Water Seal?	No	13									13				
Reagent Change?	MnCl ₂	14									14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15									15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16									16				
	KIO ₃	17									17				
	THIO	18									18				
Notes:	Sample: KS	19									19				
	Fix: Nona	20									20				
		21									21				
		22									22				
		23									23				
		24									24				

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Swallow

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Cruise Number:	2015-20	1			37	2073	7.0		1.715		1				
Event:	30	2			38	2075	7.0		1.751		2				
Station:	1809	3			39	2080	7.5		2.064	redraw	3				
Event Date (Local):	28 May 2015	4			40	2082	7.3		2.322		4				
Analysis Date (Local):	28 May 2015	5			41	2084	7.9		2.847		5				
Analyst:	KS	6			42	2085	8.3		3.749		6				
Stdization Date (Local):	27 May 2015	7			43	2086	8.7		4.047		7	2087	8.7	4.048	
KIO ₃ N:	0.0100261	8			44	2088	10.2		7.274	-Floater	8				
Standard Titer:	0.4255	9			45	2089	11.1		9.896	-Thio burette refill	9				
Blank Titer:	0.00037	10									10				
THIO N:	0.23719	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: Nina	20									20				
		21									21				
		22									22				
		23									23				
		24									24				

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Cruise Number:	2015-20	1		47	3124		7.0	1.911		1				
Event:	33	2		48	3125	175	7.2	2.679		2				
Station:	W311	3		49	3126	150	7.6	3.429		3				
Event Date (Local):	28 May 2015	4		50	3127	125	7.6	3.732		4				
Analysis Date (Local):	28 May 2015	5		51	3129	100	7.7	3.788		5				
Analyst:	KS	6		52	3131		7.8	4.066		6				
Stdization Date (Local):	27 May 2015	7		53 ⁿ	3132		8.4	4.737		7	3133	8.4	4.736	
KIO ₃ N:	0.0100261	8		54	3134		9.3	5.336		8				
Standard Titer:	0.42255	9		55	3135		9.5	5.363		9				
Blank Titer:	0.00037	10		56	3137		10.9	6.795		10				
THIO N:	0.23719	11		57	3138		12.0	6.932		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:	TURTLE	19								19				
	Sample: Penny	20								20				
	Fir: N-na	21								21				
		22								22				
		23								23				
		24								24				

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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:	2015-20	1			58	3143	505	6.1	0.675		1				Value not tight enough - leak
Event:	34	2			59	3144	400	6.3	1.100		2				
Station:	L1312	3			60 ^A	3145	300	6.6	1.685		3	B3146	6.7	1.679	
Event Date (Local):	28.05.15	4			61	3147	250	6.9	1.972		4				
Analysis Date (Local):	28.05.15	5			62	3148	200	7.1	2.426		5				
Analyst:	KS	6			63	3150	175	7.2	2.567		6				
Stdization Date (Local):	27.05.15	7			64	3158	150	7.4	2.883		7				
KIO ₃ N:	0.0100261	8			65	3164	125	7.5	3.281		8				
Standard Titer:	0.42255	9			66	3190	100	7.7	4.017		9				Orange biology on spigot
Blank Titer:	0.00037	10			67	3191	75	7.9	4.375		10				
THIO N:	0.23719	11			68	3193	50	8.5	5.003		11				
Sample Flask Water Seal?	Yes	12			69	3194	30	10.0	5.939		12				
	No	13			70	3198	20	10.3	6.054		13				
Reagent Change?	MnCl ₂	14			71 ^A	3200	10	11.3	7.263	- large flake in sample.	14	B3201	11.3	7.274	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			72	3209	5	11.7	7.227		15				Top not sealed - big air leak
	H ₂ SO ₄	16									16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17									17				
	THIO	18									18				
Notes:	TURTLE	19									19				
	Sample: Marie	20									20				
	Fix: Doug	21									21				
		22									22				
		23									23				
		24									24				

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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:	2015-20	1			74	2055	1182	5.4	0.396		1				
Event:	37	2			75 ^A	2056	1000	5.5	0.286		2	2059	5.7	0.250	
Station:	LB14	3			76	2060	750	5.8	0.266		3				
Event Date (Local):	28 05 15	4			77	2061	500	6.3	0.764		4				
Analysis Date (Local):	29 May 2015	5			78	2063	400	6.5	1.181		5				
Analyst:	KS	6			79	2064	300	6.9	1.747		6				
Stdization Date (Local):	29 May 2015	7			80	2065	250	7.3	2.104		7				
KIO ₃ N:	0.0100261	8			81	2068	200	7.5	2.696		8				
Standard Titer:	0.42291	9			82	2069	175	7.7	2.677		9				
Blank Titer:	0.00020	10			83	2073	150	7.9	2.933		10				
THIO N:	0.23704	11			84 ^A	2075	125	8.0	3.580		11	2080	8.1	3.582	
Sample Flask Water Seal?	Yes	12			85	2082	100	7.9	4.388		12				
	No	13			86	2084	75	8.6	4.982		13				
Reagent Change?	MnCl ₂	14			87	2085	50	9.9	5.840		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			88	2086	30	10.5	6.269		15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			89	2087	20	10.9	6.665	large flake in sample. Titration messy. Gail caught on dose tip so off and value recalculated	16				
	KIO ₃	17			90	2088	10	11.4	6.989		17				
	THIO	18			91	2089	5	11.7	7.025		18				
Notes:	Swallow	19									19				
		20									20				
		21									21				
		22									22				
		23									23				
		24									24				

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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:	1520	1	X	95	3124	1250	5.0	0.521		1	3125			Vent not sealed properly - small leak
Event:	45	2		96	3125	1250	5.1	0.419	⇒	2	3126	5.3	0.397	
Station:	LC11	3		97	3127	1000	5.5	0.245		3				
Event Date (Local):	29 May 2015	4		98	3129	750	5.8	0.245		4				
Analysis Date (Local):	29 May 2015	5		99	3131	500	6.4	0.781		5				
Analyst:	KS	6		100	3132	400	6.5	1.377		6				
Stdization Date (Local):	29 May 2015	7		101	3133	300	7.1	2.053		7				
KIO ₃ N:	0.0100261	8		102	3134	250	7.3	2.571		8				
Standard Titer:	0.42291	9		103	3135	200	7.9	2.931		9				
Blank Titer:	0.00020	10		104	3137	175	7.9	3.341		10				
THIO N:	0.23704	11		105	3138	150	8.1	3.613		11				
Sample Flask Water Seal?	Yes	12		106	3142	125	8.1	4.059	⇒	12	3143	8.1	4.052	
Reagent Change?	MnCl ₂	13		107	3144	100	8.3	4.729		13				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14		108	3145	75	9.5	5.414		14				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		109	3146	50	10.6	6.122		15				
	KIO ₃	16		110	3147	30	11.5	6.252		16				
	THIO	17		111	3148	20	11.7	6.346		17				
Notes:		18		112	3150	10	11.7	6.348		18				
		19		113	3158	5	11.8	6.344		19				
		20								20				
		21								21				
		22								22				
		23								23				
		24								24				

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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:	2015-20	1			114	3005		6.2	0.436		1				
Event:	48	2			115	3007	500	6.3	0.658		2				
Station:	LC09	3			116	3008	400	6.6	0.931		3				
Event Date (Local):	29 May 2015	4			117	3009	300	6.9	1.641		4				
Analysis Date (Local):	29 May 2015	5			118 ^A	3010	250	7.3	2.148		5	3013	7.3	2.145	
Analyst:	KS	6			119	3014	200	7.5	2.953		6				
Stdization Date (Local):	29 May 2015	7			120	3016	175	7.7	3.067		7				
KIO ₃ N:	0.0100261	8			121	3018	150	8.0	3.050		8				
Standard Titer:	0.42291	9			122	3019	125	8.0	4.087		9				
Blank Titer:	0.00020	10			123	3020	100	8.1	4.415		10				
THIO N:	0.73704	11			124	3021	75	9.0	5.125		11				
Sample Flask Water Seal?	Yes	12			125	3022	50	10.3	5.985		12				
	No	13			126 ^A	3023	30	10.8	6.522	redraw - leaky end cap	13	3025	10.8	6.524	
Reagent Change?	MnCl ₂	14			127	3028	20	11.2	7.054		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			128	3029	10	11.2	7.027	- lots of floaters in sample	15				
	H ₂ SO ₄	16			129	3030	5	11.3	7.012		16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17									17				
	THIO	18									18				
Notes:	BENDER	19									19				
		20									20				
		21									21				
		22									22				
		23									23				
		24									24				

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Swallow

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:	2015-20	1			131	2055		7.0	1.818		1				
Event:	53	2			132	2056		7.0	1.804		2				
Station:	1C08	3			133	2059		7.0	1.893		3				
Event Date (Local):	29 May 2015	4			134	2060		7.4	2.842		4				
Analysis Date (Local):	29 May 2015	5			135	2061		7.5	3.305		5				
Analyst:	KS	6			136	2063		7.8	4.182		6				
Stdization Date (Local):	29 May 2015	7			137A	2064		7.9	4.777		7	2065B	8.0	4.774	
KIO ₃ N:	0.0100261	8			138	2068		8.8	5.202		8				
Standard Titer:	0.42291	9			139	2069		9.9	5.773		9				
Blank Titer:	0.00020	10			140	2073		11.1	7.069		10				
THIO N:	0.23704	11			141	2075		11.7	7.099		11				
Sample Flask	Yes	12			142	2080		11.8	7.084		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: Nina	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	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:	2015-20							1			143	3124		7.6	2.542		1				
Event:	56							2			144	3125	75	7.6	2.842		2				
Station:	LC 06							3			145	3126	50	8.1	3.820		3				
Event Date (Local):	29 May/15							4			146	3127	30	8.4	3.515		4				
Analysis Date (Local):	30 May 15							5			147	3129	20	9.0	4.375		5				
Analyst:	KS							6			148	3131	10	10.1	6.012		6				
Stdization Date (Local):	29 May 15							7			149	3132	5	11.2	7.671	sampled in reverse - 1 suck!	7	3133	11.2	7.670	
KIO ₃ N:	0.0100261							8									8				
Standard Titer:	0.42241							9									9				
Blank Titer:	0.00020							10									10				
THIO N:	0.23704							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.

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:	2015 - 20	1			150	3135		7.9	2.562		1				
Event:	59	2			151	3137	150	7.9	2.676		2				
Station:	LC 04	3			152	3138	125	8.1	3.032		3				
Event Date (Local):	29 . 05 . 15	4			153	3142	100	8.1	2.789		4				
Analysis Date (Local):	30 May 15	5			154	3143	75	8.2	2.911		5				
Analyst:	KS	6			155	3144	50	8.5	3.733		6				
Stdization Date (Local):	29 May 15	7			156 ^A	3145	30	8.9	4.278		7	3146	8.9	4.248	???
KIO ₃ N:	0.0100261	8			157	3147	20	9.5	5.791		8				
Standard Titer:	0.49291	9			158	3148	10	10.2	7.802		9				
Blank Titer:	0.00020	10			159	3150	5	11.9	10.765	This burette refill	10				
THIO N:	0.23704	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.

Dissolved Oxygen Analysis Log Sheet

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Institute of Ocean Sciences
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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:	2015-20	1			160	3164		8.2	3.017	-in file 00163	1				
Event:	61	2			161 ^A	3190	75	8.4	3.512	⇒	2	3191	8.4	3.513	
Station:	LC02	3			162	3193	50	8.5	3.652		3				
Event Date (Local):	30 May 2015	4			163	3194	30	9.0	4.305		4				
Analysis Date (Local):	30 May 2015	5			164	3198	20	9.3	4.961		5				
Analyst:	KS	6			165	3200	10	10.7	10.461	-Thio burette refill, lots of phyto	6				
Stdization Date (Local):	29 May 2015	7			166	3201	5	12.3	10.240	-Thio burette refill, lots of phyto	7				
KIO ₃ N:	0.0100261	8			167	5					8				
Standard Titer:	0.00020 g	9									9				
Blank Titer:	0.42291	10									10				
THIO N:	0.23704	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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

whale

Last Updated: March 2014

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: 1520	1	X		168	3083		8.3	3.316	Slight vent leak	1				
Event: 63	2			169	3084	75	8.4	3.496		2				
Station: LC01	3			170	3085	50	8.6	3.724	⇒	3	3086	8.7	3.727	
Event Date (Local): 30 May 2015	4			171	3088	30	9.2	4.687		4				
Analysis Date (Local): 30 May 2015	5			172	3089	20	9.3	4.681		5				
Analyst: KS	6			173	3090	10	10.5	8.509		6				
Stdization Date (Local): 29 May 2015	7			174	3093	5	12.8	8.519		7				
KIO ₃ N: 0.0100261	8									8				
Standard Titer: 0.42291	9									9				
Blank Titer: 0.00020	10									10				
THIO N: 0.23704	11									11				
Sample Flask	12									12				
Water Seal? No	13									13				
Reagent Change? MnCl ₂	14									14				
(Please circle reagent that was changed prior to sampling and standardization)	15									15				
	16									16				
NOTE NEW BATCH IN LOG BOOK	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

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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:	1520	1	X	175	3095	30	9.2	4.416	Leaky vent 3.721	1				
Event:	65	2		176	3096	20	9.8	4.416	Redraw	2				
Station:	LD02	3		177	3098	10	11.5	7.168	⇒	3	3099	11.6	7.236	
Event Date (Local):	30 May 15	4		178	3100	5	12.7	8.507		4				
Analysis Date (Local):	30 May 2015	5								5				
Analyst:	KS	6								6				
Stdization Date (Local):	29 May 2015	7								7				
KIO ₃ N:	0.0100261	8								8				
Standard Titer:	0.42291	9								9				
Blank Titer:	0.00020	10								10				
THIO N:	0.23704	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:	Sample: TF	19								19				
	Fix: RL	20								20				
		21								21				
		22								22				
		23								23				
		24								24				

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Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

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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:	1520	1		179	3103		8.5	3.278		1				
Event:	67	2		180	3104	30	8.9	4.013		2				
Station:	LD04	3		181	3106	20	9.3	4.287	⇒	3	3107	9.3	4.288	⇒ incorrect everything
Event Date (Local):	30 May 2015	4		182	3108	10	9.6	5.456		4				Sample was 186
Analysis Date (Local):	30 May 2015	5		183	3108	5	12.1	7.512	→ draw & sealed as 12.1°C	5				Flask 3114
Analyst:	KS	6							↳ chain is too short	6				sln LD06
Stdization Date (Local):	29 May 2015	7								7				
KIO ₃ N:	0.0100261	8								8				
Standard Titer:	0.42291	9								9				
Blank Titer:	0.00020	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				
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.

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: 1520	1			184	3110		7.2	2.716		1				
Event: 71	2			185	3111	100	7.5	2.989		2				
Station: LD06	3			186	3114	75	7.7	X	- see LD04	3				
Event Date (Local): 30 May 2015	4			187	3116	50	8.1	4.554		4				
Analysis Date (Local): 30 May 2015	5			188	3117	30	8.7	4.625		5				
Analyst: KS	6			189	3118	20	8.7	4.447		6				
Stdization Date (Local): 29 May 2015	7			190	3119	10	9.6	5.627	⇒	7	3120	9.6	5.638	
KIO ₃ N: 0.0100261	8			191	3121	5	11.2	6.631		8				
Standard Titer: 0.42291	9									9				
Blank Titer: 0.00020	10									10				
THIO N: 0.23704	11									11				
Sample Flask Water Seal? Yes	12									12				
	13									13				
Reagent Change? MnCl ₂	14									14				
(Please circle reagent that was changed prior to sampling and standardization)	15									15				
	16									16				
NOTE NEW BATCH IN LOG BOOK	17									17				
	18									18				
Notes: Sample: KS	19									19				
Fix: TF	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

Bird

very windy Blowing across all bottle tops

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:	2015-20	1			192	2055		5.8	0.256		1				
Event:	73	2			193	2056	750	5.8	0.288		2				
Station:	LD08	3			194	2059	500	6.2	0.757	⇒	3	2060	6.4	0.746	
Event Date (Local):	30 May 2015	4			195	2061	400	6.4	1.081		4				
Analysis Date (Local):	30 May 2015	5			196	2063	300	6.8	1.589		5				
Analyst:	KS	6			197	2064	250	6.9	2.354		6				
Stdization Date (Local):	29 May 2015	7			198	2065	200	7.3	2.918		7				
KIO ₃ N:	0.0100261	8			199	2068	175	7.5	2.953		8				
Standard Titer:	0.42291	9			200	2069	150	7.6	2.014	removed base tip during titration	9				
Blank Titer:	0.00020	10			201	2073	125	7.7	3.789	by mistake. No way of knowing	10				
THIO N:	0.23704	11			202	2075	100	7.8	4.349	what actual titer is -99.00	11				
Sample Flask Water Seal?	Yes	12			203	2080	75	8.3	4.946		12				
	No	13			204	2082	50	9.9	5.871		13				
Reagent Change?	MnCl ₂	14			205	2084	30	10.5	6.289	⇒	14	2085	10.5	6.291	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			206	2086	20	11.1	7.234		15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			207	2087	10	11.3	7.284		16				
	KIO ₃	17			208	2088	5	11.4	7.275	Bottom cap not sealed properly	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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

W H A L L

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:	2015-20	1	X	209	3083		4.6	0.785	vent not tight	1				
Event:	78	2		210 ^A	3084		4.5	0.678	→	2	3111	4.7	0.672	
Station:	LD 11	3		211 ^A	3085	5.2	4.1	0.398	redraw becomes B deep	3	AB 5.1			bubbles in dispenser, skipped
Event Date (Local):	30 05 15	4		212	3088		5.2	0.243		4				
Analysis Date (Local):	30 05 15	5		213	3089		5.8	0.239		5				
Analyst:	KS	6		214	3090		6.2	0.725		6				
Stdization Date (Local):	30 05 15	7		215	3093		6.5	1.191		7				
KIO ₃ N:	0.0100261	8		216	3094		6.9	1.904		8				
Standard Titer:	0.42284	9		217	3095		7.2	2.789		9				
Blank Titer:	0.00029	10		218	3096		7.6	2.743		10				
THIO N:	0.23710	11		219	3098		7.8	2.904		11				
Sample Flask	Yes	12		220	3099		7.9	3.181		12				
Water Seal?	No	13		221 ^A	3100		8.0	4.172	→	13	3101	8.1	4.169	
Reagent Change?	MnCl ₂	14		222	3103		8.5	4.801		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		223	3104		10.0	5.721		15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		224	3106		10.9	6.417		16				
	KIO ₃	17		225	3107		11.3	6.406		17				
	THIO	18		226	3108		11.6	6.341	Many dolomite in sample. Titration was ok	18				
Notes:	See log book	19		227	3109		11.7	6.369		19				
	sample: KS	20		228	3110		11.7	6.366		20				
	Fix: NN	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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Water Properties Group

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Swallow.

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:	2015-20	1			229	2055	1929	5.3	0.205		1				
Event:	87	2			230	2056	750	5.6	0.235		2				
Station:	LG06	3			231 ^A	2059	500	5.9	0.541	⇒	3	231B	6.1	0.539	Flask 2060
Event Date (Local):	31 May 2015	4			232	2061	400	6.0	1.156		4				
Analysis Date (Local):	31 May 2015	5			233	2063	300	6.4	1.614		5				
Analyst:	N2	6			234	2064	250	6.6	2.143	slightly loose valve	6				
Stdization Date (Local):	30 May 2015	7			235	2065	200	6.9	2.585		7				
KIO ₃ N:	0.0100261	8			236	2068	175	7.1	2.723		8				
Standard Titer:	0.42284	9			237	2069	150	7.3	3.019		9				
Blank Titer:	0.0003	10			238	2073	125	7.5	3.141		10				
THIO N:	0.237104	11			239	2075	100	7.7	4.092		11				
Sample Flask	(Yes)	12			240	2080	75	8.0	4.253		12				
Water Seal?	No	13			241	2082	50	8.5	4.663		13				
Reagent Change?	MnCl ₂	14			242 ^A	2084	30	9.4	5.335		14	242B	9.4	5.339	Flask 2085
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			243	2086	20	10.0	5.979		15				
	H ₂ SO ₄	16			244	2087	10	10.7	6.806		16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17			245	2088	5	11.0	6.908		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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: March 2014

Swallow

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:	2015-20	1			2090	246	6.9	2.050			1				
Event:	89	2			2091	247	7.1	2.456			2				
Station:	LG04	3			2092	248A	7.2	3.219		⇒	3	2094	7.3	3.215	248B
Event Date (Local):	31 May 2015	4			2095	249	7.5	3.690			4				
Analysis Date (Local):	30 31 May 2015	5			2097	250	7.6	3.872		- lots floaters	5				
Analyst:	KS	6			2098	251	7.9	3.967			6				
Stdization Date (Local):	30 May 2015	7			2099	252	8.3	3.960			7				
KIO ₃ N:	0.0100261	8			3000	253	10.0	5.803			8				
Standard Titer:	0.42284	9			3002	254	11.0	6.754		Leaking + vent open	9				
Blank Titer:	0.00029	10									10				
THIO N:	0.23710	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				
	H ₂ SO ₄	16									16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17									17				
	THIO	18									18				
Notes:	Sample: KS	19									19				
	Fv: RL RL	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	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:	2015-20	1			255	3124		7.9	3.105		1				
Event:	92	2			256	3125		8.2	2.835		2				
Station:	LG02	3			257A	3126		8.6	3.877	→	3	3127B	8.6	3.895	
Event Date (Local):	31 May 2015	4			258	3129		9.3	4.781		4				
Analysis Date (Local):	31 May 2015	5			259	3131		9.5	4.973		5				
Analyst:	KS	6			260	3132		11.0	7.750		6				
Stdization Date (Local):	30 May 2015	7			261	3133		11.9	8.757		7				
KIO ₃ N:	0.0100261	8									8				
Standard Titer:	0.42284	9									9				
Blank Titer:	0.00029	10									10				
THIO N:	0.23710	11									11				
Sample Flask	Yes	12									12				
Water Seal?	No	13									13				
Reagent Change?	MnCl ₂	14									14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15									15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16									16				
	KIO ₃	17									17				
	THIO	18									18				
Notes:	Sample: KS	19									19				
	Fv: NN	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

SEA TURTLE

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:	2015-20	1			262	3135		8.8	3.242		1				
Event:	94	2			263	3137		9.1	3.268		2				
Station:	1601	3			264 ^A	3138		9.0	3.833	→	3	3142 ^B	9.1	3.834	
Event Date (Local):	31 May 2015	4			265	3142		10.2	5.588	flask 31443 + 3143 ☺	4				
Analysis Date (Local):	31 May 2015	5			266	3144		12.4	8.179	flask 3144	5				
Analyst:	KS	6									6				
Stdization Date (Local):	30 May 2015	7									7				
KIO ₃ N:	0.0100261	8									8				
Standard Titer:	0.42284	9									9				
Blank Titer:	0.00629	10									10				
THIO N:	0.23710	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.

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:	2015-20	1		270	2055	2000	3.8	1.339	Mistake w box file. Sample stirred for about 60 seconds before titrate. Broke flask placing it into bath - Leaking, top cap	1				
Event:	115	2		271	2056	1500	4.1	0.580		2	2059	4.2	0.579	
Station:	LBP7	3		272	2060	1250	4.5	0.237		3				sample lost
Event Date (Local):	01/06/15	4		273	2061	1000	4.7	0.237		4				
Analysis Date (Local):	01 June 2015	5		274	2063	750	5.4	0.237		5				
Analyst:	KS	6		275	2064	500	5.8	0.676		6				
Stdization Date (Local):	01 June 2015	7		276	2065	400	6.1	1.081	Leaking from bottom	7				
KIO ₃ N:	0.0100261	8		277	2068	300	6.4	2.175	Leaking from spigot	8				
Standard Titer:	0.42266	9		278	2069	250	6.9	2.371		9				
Blank Titer:	0.00005	10		279	2073	200	7.2	2.849		10				
THIO N:	0.23703	11		280	2075	175	7.4	3.222		11				
Sample Flask Water Seal?	Yes	12		281	2080	150	7.5	3.643		12				
	No	13		282	2082	125	7.6	3.853		13				
Reagent Change?	MnCl ₂	14		283	2084	100	8.0	3.455		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		284	2085	75	8.4	3.483		15				
	H ₂ SO ₄	16		285	2086	50	9.1	4.947		16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17		286	2087	30	10.5	6.248	Bottom cap leaking	17				
	THIO	18		287	2088	20	10.0	6.978		18				
Notes:		19		288	2089	10	10.1	6.951		19				
		20		289	2090	5	10.1	7.406		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

Sea Turtle

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:	2015-20	1		290	3124		4.9	0.375		1				
Event:	118	2		291	3125		4.7	0.370		2				
Station:	LBP5	3		292	3126		5.2	0.289		3				
Event Date (Local):	1 June 2015	4		293	3127		5.5	0.329	started in air, 2nd attempt ok.	4	3129	5.6	0.325	
Analysis Date (Local):	1 June 2015	5		294	3131		6.1	0.875		5				
Analyst:	KS	6		295	3132		6.2	1.125		6				
Stdization Date (Local):	1 June 2015	7		296	3133		6.5	1.582		7				
KIO ₃ N:	0.0100261	8		297	3134		6.5	1.944		8				
Standard Titer:	0.42266	9		298	3135		6.8	2.062		9				
Blank Titer:	0.00005	10		299	3137		6.9	2.211		10				
THIO N:	0.23703	11		300	3138		7.1	2.516	druppy end cap	11				
Sample Flask Water Seal?	Yes	12		301	3142		7.1	2.630	A+B sampled in reverse order	12	3143	7.1	2.628	
	No	13		302	3144		7.2	2.848		13				
Reagent Change?	MnCl ₂	14		303	3145		7.3	3.088		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		304	3146		7.5	4.543	3.156	15				
	H ₂ SO ₄	16		305	3147		8.6	4.543		16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17		306	3148		9.3	5.951		17				
	THIO	18		307	3150		10.7	7.329	7.392	18	3158	10.7	7.396	
Notes:	Sample: KS	19		308	3164		11.3	7.544	redraw	19				
	Fix: NN	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	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:	2015-20	1			309	3083		7.2	2.812		1				
Event:	121	2			310	3084	150	7.2	2.824		2				
Station:	LBP3	3			311	3085	125	7.3	2.907		3				
Event Date (Local):	01-06-15	4			312	3086	100	7.4	3.070		4				
Analysis Date (Local):	02 June 2015	5			313	3088	75	7.6	3.320		5				
Analyst:	KS	6			314	3089	50	7.9	3.489		6				
Stdization Date (Local):	01 June 2015	7			315	3090	30	8.8	4.497		7	3093	8.8	4.487	A + B reversed
KIO ₃ N:	0.0100261	8			316	3094	20	9.6	5.964		8				
Standard Titer:	0.42266	9			317	3095	10	10.7	6.035		9				
Blank Titer:	0.00005	10			318	3096	5	11.9	7.158		10				
THIO N:	0.23703	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:	Sperm Whale	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

Seaturtle

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:	2015-20	1			319	3124	2000	4.6	1.398		1				
Event:	134	2			320	3125	1500	4.5	0.647		2				
Station:	C800	3			321	3126	1250	4.7	0.374	redrawn	3				
Event Date (Local):	02 June 2015	4			322	3127	1000	5.3	0.236		4				
Analysis Date (Local):	02 June 2015	5			323 ^A	3129	750	5.6	0.290	⇒	5	3131 ^B	5.8	0.283	
Analyst:	KS	6			324	3132	500	5.9	0.931		6				
Stdization Date (Local):	01 June 2015	7			325	3133	400	6.1	1.756		7				
KIO ₃ N:	0.0100265	8			326	3134	300	6.3	2.710		8				
Standard Titer:	0.42266	9			327	3135	250	6.6	3.084	leaky spigot	9				
Blank Titer:	0.00005	10			328	3137	200	7.1	3.848		10				
THIO N:	0.23703	11			329	3138	175	7.3	4.127		11				
Sample Flask Water Seal?	Yes	12			330	3142	150	7.7	4.574		12				
	No	13			331 ^A	3143	125	8.0	4.738	⇒ reverted cracked, then sampled after redraw	13	3144 ^B	8.1	4.737	
Reagent Change?	MnCl ₂	14			332	3146	100	8.5	4.861		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			333	3147	75	10.1	5.955		15				
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			334	3148	50	11.7	6.458		16				
	KIO ₃	17			335	3150	30	11.7	6.371		17				
	THIO	18			336	3158	20	11.8	6.510		18				
Notes:	Sample: KS	19			337 ^A	3164	10	11.6	7.118	⇒	19	3170 ^B	11.6	7.115	
	Ex: NIV	20			338	3170	5	12.0	6.854		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

PETREL

Last Updated: March 2014

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:	2015-20	1			339	2055		3.8	1.181		1				
Event:	140	2			340	2056	1500	4.1	0.580		2				
Station:	C802	3			341	2059	1250	4.4	0.326		3				
Event Date (Local):	02-06-15	4			342	2060	1000	4.9	0.234		4				
Analysis Date (Local):	03 June 2015	5			343 ^A	2063	750	5.4	0.266	⇒	5	B2064	5.5	0.260	
Analyst:	KS	6			344	2065	500	5.8	0.583		6				
Stdization Date (Local):	03 June 2015	7			345	2068	400	6.1	1.215		7				
KIO ₃ N:	0.0100261	8			346	2069	300	6.3	1.902		8				
Standard Titer:	0.42267	9			347	2073	250	6.5	2.449		9				
Blank Titer:	0.00010	10			348	2075	200	6.8	2.780		10				
THIO N:	0.23709	11			349	2080	175	7.0	2.845	DRIPPY SPIGOT	11				
Sample Flask Water Seal?	Yes	12			350 ^A	2082	150	7.4	3.127	⇒	12	B2084	7.5	3.123	
	No	13			351	2085	125	7.5	3.393		13				
Reagent Change?	MnCl ₂	14			352	2086	100	7.9	4.264		14				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			353	2087	75	8.1	4.539		15				
	H ₂ SO ₄	16			354	2088	50	8.9	4.834		16				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17			355	2089	30	9.3	5.112		17				
	THIO	18			356	2090	20	9.9	5.560		18				
Notes:		19			357	2091	10	11.2	6.558		19				
		20			358	2092	5	12.2	6.922		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

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:	2015-20	1		359	3124	84	7.5	3.223		1				
Event:	144	2		360	3125	75	7.6	3.616		2				
Station:	C5084	3		361	3126	50	8.1	3.900		3				
Event Date (Local):	03 June 2015	4		362	3127	30	8.9	4.473	Redrawn	4	3129	8.9	4.472	362 B
Analysis Date (Local):	03 June 2015	5		363	3131	20	9.2	4.955		5				
Analyst:	KS	6		364	3132	10	10.2	5.987		6				
Stdization Date (Local):	03 June 2015	7		365	3133	5	10.9	6.565		7				
KIO ₃ N:	0.0100261	8								8				
Standard Titer:	0.42267	9								9				
Blank Titer:	0.00010	10								10				
THIO N:	0.23709	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.

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:	2015-20	1			366	3135		9.0	4.708		1				
Event:	157	2			367	3137	50	9.3	5.194	3676	2	3138	9.4	5.200	
Station:	C506	3			368	3142	30	10.3	6.120		3				
Event Date (Local):	3 June 2015	4			369	3143	20	10.6	6.337		4				
Analysis Date (Local):	04 June 2015	5			370	3144	10	11.6	6.856		5				
Analyst:	KS	6			371	3145	5	11.8	6.899		6				
Stdization Date (Local):	03 June 2015	7									7				
KIO ₃ N:	0.0100261	8									8				
Standard Titer:	0.42267	9									9				
Blank Titer:	0.00010	10									10				
THIO N:	0.23709	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: Doug	19									19				
	Fix: Marie	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

PETREL

Last Updated: March 2014

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:	2015-20	1			372	2055		6.5	1.659		1				
Event:	163	2			373	2056	175	6.5	1.657		2				
Station:	C509	3			374	2059	150	6.5	1.663		3				
Event Date (Local):	03.06.15	4			375	2060	125	6.7	1.971		4				
Analysis Date (Local):	04 June 2015	5			376	2063	100	7.1	2.354		5				
Analyst:	KS	6			377	2064	75	8.4	3.842		6				
Stdization Date (Local):	03 June 2015	7			378 ^A	2065	50	9.3	5.357	⇒	7	2068	9.3	5.362	
KIO ₃ N:	0.0100261	8			379	2069	30	9.6	5.651		8				
Standard Titer:	0.42267	9			380	2073	20	9.9	5.985		9				
Blank Titer:	0.00010	10			381	2075	10	11.9	7.045		10				
THIO N:	0.23709	11			382	2080	5	13.0	7.146		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				
	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.