

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: January 2017



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: 2018-040	1			1	94	10.9	2.520	OVER TITRATE - BAD CURVE	1					
Event: 1	2			2	371	10.9	2.622		2					
Station: Haro 59	3			3A	621	11.2	2.827	→	3	3B	1408	11.2	2.819	
Event Date (Local): 12 Sep 18	4			4	1429	11.4	3.022		4					
Analysis Date (Local): 14/9/18	5			5	2007	11.8	3.239		5					
Analyst: H.M.	6			6	2015	11.9	3.335		6					
Stdization Date (Local): 13/9/18	7			7	2016	12.2	3.513		7					
KIO ₃ N: 0.0117054	8			8	3158	12.3	3.611		8					
Standard Titer: 0.4744	9			9A	2019	12.4	3.672	→	9	9B	2025	12.4	3.666	
Blank Titer: 0.0005	10			10	2037	12.4	3.664		10					
THIO N: 0.248413	11			11	2032	12.4	3.672	OVER TITRATE	11					
Sample Flask Water Seal? ☒ Yes	12			12	2043	12.4	3.670		12					
☐ No	13			13	3009	12.4	3.681		13					
Reagent Change? MnCl ₂	14			14	2047	12.5	3.694		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					
SPERM WHALE -	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:	2018-040	1		63	528	9.1	0.920		1					
Event:	07	2		64	3114	9.2	0.941	OVER TITRATE	2					
Station:	SF 2	3		65A	3190	9.2	1.056	→	3	65B	3148	9.2	1.052	
Event Date (Local):	13.09.18	4		66	3093	9.3	1.283		4					
Analysis Date (Local):	14/09/18	5		67	3138	10.0	2.001		5					
Analyst:	H.M	6		68	2098	10.2	2.227		6					
Stdization Date (Local):	13/9/18	7		69	745	10.7	2.782		7					
KIO ₃ N:	0.017854	8		70	3146	10.8	2.862	OVER TITRATE	8					
Standard Titer:	0.4744	9		71	3053	10.9	3.020		9					
Blank Titer:	0.0065	10		72	611	11.1	3.240		10					
THIO N:	0.248413	11		73	510	11.1	3.273		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:	SWALLOW	19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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Cruise Number:	2018-40	1		74	708	9.3	1.082	OVER TITRATE	1					
Event:	10	2		75	612	11.4	3.055	OVER TITRATE	2					
Station:	P1	3		76A	3038	13.8	6.252	→	3	76B	3209	13.8	6.228	duplicate taken after DIC
Event Date (Local):	13 Sept 2018	4							4					
Analysis Date (Local):	14/9/18	5							5					
Analyst:	H.M	6							6					
Stdization Date (Local):	13/9/18	7							7					
KIO ₃ N:	0.017854	8							8					
Standard Titer:	0.4744	9							9					
Blank Titer:	0.0005	10							10					
THIO N:	0.248413	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:		19							19					
		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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Cruise Number: 2018-040		1		92A	3129	9.5	6.981	###	1	93A				
Event: 14		2		93A	570	9.4	6.995	=>	2	93B	3175	9.6	1.11	
Station: P2		3		94	3023	9.7	1.578		3					
Event Date (Local): 13 Sep 18		4		95	3002	9.7	1.617		4					
Analysis Date (Local):		5		96	3161	10.2	2.047		5					
Analyst:		6		97	3162	12.5	4.388	small spigot leak	6					
Stdization Date (Local):		7		98	3096	14.4	6.598		7					
KIO ₃ N:		8		99A	3066	14.7	6.319	=>	8	99B	3132	14.7	6.39	OVERTITRATION
Standard Titer:		9							9					
Blank Titer:		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)		15							15					
NOTE NEW BATCH IN LOG BOOK		16							16					
		17							17					
		18							18					
Notes:		19							19					
swallow.		20							20					
		21							21					
		22							22					
		23							23					
		24							24					

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Cruise Number:	2018-40	1			134	196	6.30	0.490		1					
Event:	18	2			135	396	6.30	0.401		2					
Station:	P4 Deep	3			136A	471	6.38	0.399	→	3	136B	505	6.4	0.381	OVER TITRATE
Event Date (Local):	13 Sept 2018	4			137	712	6.5	0.217		4					
Analysis Date (Local):	14/9/18	5			138	1055	7.0	0.211		5					
Analyst:	H.M.	6			139	1223	7.6	0.440		6					
Stdization Date (Local):	13/9/18	7			140	1094	7.7	0.812		7					
KIO ₃ N:	0.0117854	8			141	1406	7.9	1.390		8					
Standard Titer:	0.4744	9			142	1407	8.7	1.680		9					
Blank Titer:	0.0005	10			143	1409	9.2	2.104		10					
THIO N:	0.248413	11			144	1410	9.6	2.619		11					
Sample Flask Water Seal?	Yes	12			145A	2055	9.9	2.760	→ OVER TITRATE (BAD PLOT)	12	145B	2030	9.9	2.750	
	No	13			146	2060	10.1	2.982		13					
Reagent Change?	MnCl ₂	14			147	2065	10.4	3.133		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			148	2068	10.5	3.493		15					
	H ₂ SO ₄	16			149	2089	10.7	4.760		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17			150	3005	11.1	5.878		17					
	THIO	18			151	3046	12.5	5.856		18					
Notes:	Spam	19			152	3049	17.2	6.205		19					
	PHGISIOSAURUS	20			153A	3057	17.6	6.244	→ OVER TITRATE	20	153B	3059	17.6	6.251	OVER TITRATE (BAD CURVE)
		21								21					
		22			5018A	3050	18.3	6.221	LOOP ⇒ OVER TITRATE	22	5018B	3067	18.3	6.258	LOOP
		23							HORRIBLE CURVE	23					INVALID FLASK - USED #3119
		24								24					

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DINO

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Cruise Number:	2018-40	1		184	196	6.6	1.296	OVERTITRATE NO CURVE	1					
Event:	28	2	✓✓	185	396	6.8	0.614	" "	2					
Station:	P8	3	✓✓	186	471	7.1	0.320		3					
Event Date (Local):	14 Sept 2018	4	✓✓	187	505	7.4	0.220		4					
Analysis Date (Local):	15. 09. 18	5	✓✓	188	712	7.8	0.239		5					
Analyst:	MG	6	✓✓	189A	1055	8.1	0.514	→	6	189B	1223	8.3	0.519	
Stdization Date (Local):	14.09.18	7	✓✓	190	1094	8.9	1.293		7					
KIO ₃ N:	0.0118147	8	✓✓	191	1406	9.2	1.861		8					
Standard Titer:	0.4721474	9	✓✓	192	1408	9.6		COMPUTER STOPPED + RESTARTED GO FIGURE	9					
Blank Titer:	0.0006448	10	✓✓	193	1409	10.0	2.297		10					
THIO N:	0.250236	11	✓✓	194	1416	10.3	2.643		11					
Sample Flask Water Seal?	Yes	12	✓✓	195	2055	10.5	2.628		12					
Reagent Change?	MnCl ₂	13	✓✓	196A	2056	10.5	3.526	→	13	196B	2060	10.7	3.516	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14	✓✓	197	2065	10.7	5.770		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15	✓X	198	2068	11.8	6.832	very slow drip	15					
	KIO ₃	16	✓✓	199	2089	13.5	6.601		16					
	THIO	17	✓✓	200	3005	15.5	5.821		17					
		18	✓✓	201	3046	17.0	5.784		18					
		19	✓✓	202	3049	18.0	5.842		19					
		20	✓✓	203	3057	18.2	5.908		20					
		21	✓X	204	3059	18.2	5.892	drip	21					
		22	✓✓	205	3050	18.2	5.826		22					
		23	✓✓	206A	3067	18.2	6.177	→	23	206B	3073	18.2	5.884	NO SAMPLE IN A FLASK
		24		5028	3124	18.8		opened accidentally XX	24		3119	18.8	5.866	LOOPS

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.

NO BOTTLE 3067 TRANSFERRED TO 3194 + ON A DUPLICATE

35

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Cruise Number: 2018-040							1		246	94	3.0	2.322		1					
Event: 42							2		247	371	7.8	2.313		2					
Station: P12							3	A	248	621	3.0	2.871	⇒ WRONG	3	248 ⁶	1408	3.1	1.817	?! CORRECT
Event Date (Local): 15.09.18							4		249	1249	3.3	1.277	+249 1429	4					
Analysis Date (Local): 15.09.18							5		250	2007	3.8	0.616		5					
Analyst: MG							6		251	2015	4.2	0.381		6					
Stdization Date (Local): 14.09.18							7		252	2016	4.8	0.227		7					
KIO ₃ N: 0.0118/47.							8		253	3158	5.2	0.230		8					
Standard Titer: 0.472/4.74							9		254	2019	5.7	0.482		9					
Blank Titer: 0.0006448							10		255	2025	6.1	0.636		10					
THIO N: 0.250236							11		256	2027	6.5	1.100		11					
Sample Flask Water Seal? ☒ Yes ☐ No							12	A	257	2032	7.0	1.681	⇒	12	B257	2043	7.0	1.688	OVER TITRATE LATE
Reagent Change? MnCl ₂							13		258	3009	7.3	2.333	OVER TITRATE LATE CLEANED BATH	13					
(Please circle reagent that was changed prior to sampling and standardization)							14		259	2047	7.8	3.088		14					
NOTE NEW BATCH IN LOG BOOK							15	A	260	2092	8.2	3.277	⇒	15	B260	3032	8.3	3.280	
							16		261	3033	8.3	3.385	↓	16					
							17		262	3054	8.3	3.912	↓	17					
							18		263	3065	8.4	4.386		18					
Notes: Whole							19		264	3062	8.5	5.500		19					
Confusion on last 5 bottles 24 was not sampled							20		265	3094	9.9	6.761		20					
							21		266	3100	10.4	5.672		21					
							22	A	267	3116	16.6	5.655	⇒ vent open @ top.	22	B267	3117	16.7	5.664	⇒
							23		268	3127	16.8	5.676	"	23					
SO TWO SAMPLES ON 23? ⇒							24		269	3145	17.0	5.675	vent open @ top; actually bottle 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.

B 5042A 3147 16.8° 100p 5.677
A 5042B 3072 16.8° 100p 5.673

AWESOME LOOP DUPS I WILL WIN

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Cruise Number:	2010-40	1		307					1					
Event:	48	2		308	196	2.7	2.366		2					
Station:	P 14	3		309	396	2.6	1.953		3					
Event Date (Local):	16/9/10	4		310	471	2.8	1.669		4					
Analysis Date (Local):	16 09 18	5		311A	506	3.1	1.327	→	5	311 B	712	3.2	1.304	
Analyst:	MC	6		312	1055	3.2	0.921		6					
Stdization Date (Local):	14-09-18	7		313	1223	3.4	0.531	→	7					
KIO ₃ N:	0.0118147	8		314	1094	3.8	0.348		8					
Standard Titer:	0.4721474	9		315	1406	4.2	0.318	→	9					
Blank Titer:	0.006448	10		316	1407	4.7	0.329		10					
THIO N:	0.250236	11		317	1409	5.3	0.528		11					
Sample Flask Water Seal?	Yes	12		318	1416	5.8	1.135		12					
	No	13		319	2055	6.1	1.742		13					
Reagent Change?	MnCl ₂	14		320	2056	6.5	2.127		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		321	2060	6.8	2.559		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		322	2065	7.1	2.889	OVERTITRATE LATE CLEAN BATH	16					
	KIO ₃	17		323A	2068	7.3	3.339	↔	17	323 B	2089	7.4	3.337	
	THIO	18		324	3005	7.6	4.181		18					
Notes:		19		325	3046	7.7	6.053		19					
		20		326	3049	8.1	6.575		20					
		21		327	3057	9.9	6.996		21					
		22		328	3059	15.3	5.783		22					
		23		329A	3050	15.4	5.787	→	23	329 B	3194	15.5	5.792	
		24		330	3073	15.4	5.800		24					

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WHALE

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Cruise Number: 2018-040		1	X ✓	362	94	4.2	2.730	valve open	1					
Event: 53		2	✓ ✓	363	371	4.1	2.640		2					
Station: P16		3	✓ ✓	364	621	4.2	2.691		3					
Event Date (Local): 16 Sept 2018		4	✓ ✓	365	1408	4.0	2.420		4					
Analysis Date (Local): 18 09 18		5	✓ ✓	366 ^A	1429	4.3	1.896	→	5	366 ^B	2007	4.5	1.882	
Analyst: MC		6	✓ ✓	367	2015	4.2	1.248	TIP OUT OF WATER - REDO	6					
Stdization Date (Local): 18 09 18		7	✓ ✓	368	2016	4.7	0.495	OVERTITRATE	7					
KIO ₃ N: 0.0118147		8	✓ X	369	3158	4.7	0.335	very slow drip	8					
Standard Titer: 0.48964		9	✓ ✓	370	2019	5.0	0.306		9					
Blank Titer: 0.00076		10	✓ ✓	371	2025	5.4	0.335		10					
THIO N: 0.241484		11	✓ ✓	372 ^A	2027	5.7	0.532	→	11	372 ^B	2032	5.7	0.527	
Sample Flask Yes		12	✓ ✓	373	2043	5.9	1.289		12					
Water Seal? No		13	✓ ✓	374	3009	6.4	2.071		13					
Reagent Change? MnCl ₂		14	✓ ✓	375	2047	6.7	3.018		14					
(Please circle reagent that was changed prior to sampling and standardization)		15	✓ ✓	376	2092	7.0	3.422		15					
NOTE NEW BATCH IN LOG BOOK		16	✓ ✓	377	3032	7.2	3.507	TIP OUT OF WATER - REDO	16					
H ₂ SO ₄		17	✓ ✓	378	3033	7.4	3.789		17					
KIO ₃		18	✓ X	379 ^A	3054	7.5	4.532	→ WEIRDCURVE OVERTITRATE SLOW drip on spigot	18	379 ^B	3062	7.5	4.529	OVERTITRATE END RUN TO V LAMP
THIO		19	✓ ✓	380	3065	7.4	5.933	DOLLOID	19					
Notes:		20	✓ ✓	381	3094	7.9	6.539		20					
OUT OF ORDER IN BOX GAVE 3116 TEMP 9.4 INSTEAD OF 15.6		21	✓ ✓	382	3100	9.4	6.980		21					
		22	✓ ✓	383	3116	15.6	5.819		22					
		23	✓ ✓	384 ^A	3117	16.0	5.820	→	23	384 ^B	3127	16.0	5.819	
		24	✓ ✓	385	3145	16.1	5.823		24					

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LOOPS
5053A 3072 16.1 5.798
5053B 3147 16.1 5.801

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Cruise Number:	2018-040	1			406	196	4.0	2.884		1					
Event:	60	2			407	396	4.0	2.719		2					
Station:	P18	3			408	471	4.0	2.502		3					
Event Date (Local):	17 Sept 2018	4			409	505	4.1	1.972		4					
Analysis Date (Local):	19/9/18	5			410	712	4.5	1.275		5					
Analyst:	H.M.	6			411	1055	4.5	0.926		6					
Stdization Date (Local):	16/9/18	7			412	1223	4.7	0.538		7					
KIO ₃ N:	0.018147	8			413(A)	1094	4.7	0.331	→ OVERTITRATE	8	413(B)	1406	4.9	0.326	
Standard Titer:	0.4996	9			414	1407	4.9	0.313		9					
Blank Titer:	0.0007	10			415	1409	5.4	0.335		10					
THIO N:	0.241484	11			416	1416	5.6	0.516		11					
Sample Flask Water Seal?	Yes	12			417(A)	2055	5.9	1.429	→	12	417(B)	2056	5.9	1.426	
	No	13			418	2060	6.3	2.005		13					
Reagent Change?	MnCl ₂	14			419	2065	6.7	2.532		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			420	2068	7.0	3.331		15					
	H ₂ SO ₄	16			421	2089	7.1	3.446		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17			422	3005	7.4	3.734		17					
	THIO	18			423(A)	3046	7.4	4.227	→	18	423(B)	3049	7.5	4.218	
Notes:	Pleisiosaur	19			424	3057	7.3	6.030		19					
		20			425	3059	7.5	6.457		20					
		21			426	3050	8.3	6.971		21					
		22			427	3194	15.8	5.843		22					
		23			428	3073	16.1	5.865		23					
		24			429	3124	16.2	6.062		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.

BIRD

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences

Water Properties Group

Last Updated: January 2017



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:	2018-040	1		450	528	2.4	2.946		1					
Event:	70	2		451	3114	2.3	2.842		2					
Station:	P20	3		452	3148	2.4	2.842	→	3	452(B)	3190	2.4	2.833	
Event Date (Local):	18 Sept 2018	4		453	3093	2.4	2.516		4					
Analysis Date (Local):	19/9/18	5		454	3138	2.7	1.872		5					
Analyst:	H.M.	6		455	2098	2.8	1.199		6					
Stdization Date (Local):	18/9/18	7		456	745	3.3	0.458		7					
KIO ₃ N:	0.0118147	8		457	3146	3.6	0.335	→ OVERTITRATE	8	457(B)	3053	3.8	0.328	
Standard Titer:	0.4896	9		458	611	4.0	0.370		9					
Blank Titer:	0.0007	10		459	510	4.5	0.425		10					
THIO N:	0.241494	11		460	708	4.9	0.706		11					
Sample Flask Water Seal?	Yes	12		461	612	5.6	1.532		12					
	No	13		462	3038	6.1	2.272		13					
Reagent Change?	MnCl ₂	14		463	3209	6.5	2.244	→	14	463(B)	3043	6.5	2.240	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		464	3129	6.8	3.133		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		465	570	7.1	3.786		16					
	KIO ₃	17		466	3175	7.3	3.506		17					
	THIO	18		467	3023	7.5	3.814		18					
Notes:	Kite (swallow?)	19		468	3002	7.1	5.579	→	19	468(B)	3161	7.2	5.577	
		20		469	3162	7.2	6.523		20					
		21		470	3096	8.1	6.859		21					
		22		471	3066	14.1	6.045		22					
		23		472	3132	15.0	5.885		23					
		24		473	3144	14.9	5.894		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.

5069 A 3126 15.5 - 5.876
 5069 B 3013 15.5 - 5.881

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: January 2017



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: 2018-40		1		505	3042	2.6	2.977	OVERTITRATE - JUST A LITTLE LATE	1					
Event: 74		2		506	569	2.5	2.842		2					
Station: P22		3		507	3041	2.6	2.458		3					
Event Date (Local): 19/9/18		4		508	3170	2.8	1.847		4					
Analysis Date (Local): 19.09.18		5		509	2088	3.1	1.178		5					
Analyst: MG 19/9/18		6		510	3008	3.3	0.762		6					
Stdization Date (Local): 0.0118147		7		511	2090	3.5	0.477		7					
KIO ₃ N: 0.4896		8		512	3020	3.8	0.323		8					
Standard Titer: 0.0007		9		513	673	4.2	0.306		9					
Blank Titer: 0.24148		10		514	1465	4.6	0.410		10					
THIO N:		11		515	1312	5.0	0.683		11					
Sample Flask Water Seal? ☒ Yes ☐ No		12		516	2000	5.6	1.206		12					
Reagent Change? MnCl ₂		13		517A	3075	6.0	1.872	→	13	517B	3200	6.1	1.861	
(Please circle reagent that was changed prior to sampling and standardization)		14		518	3080	6.4	2.530		14					
NaI/NaOH		15		519	3085	6.9	3.377		15					
H ₂ SO ₄		16		520	2086	7.1	3.274		16					
NOTE NEW BATCH IN LOG BOOK		17		521A	2063	7.4	3.443	→	17	521B	462	7.5	3.441	
THIO		18		522	425	7.3	4.409		18					
Notes: SHARK		19		523	2040	7.1	6.213		19					
		20		524	3076	7.5	6.566		20					
		21		525	1459	8.3	6.794		21					
		22		526	3029	14.5	5.920		22					
		23		527	2095	14.9	5.901		23					
		24		528	3078	14.9	5.922	NO WATER ON TOP	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.

LOOP DUMMY 6.007

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

DINOSAUR

Last Updated: January 2017



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:	2018-040	1			530	196	3.3	3.060		1					
Event:	76	2			531	396	3.3	2.871		2					
Station:	P24	3			532	471	3.3	2.485		3					
Event Date (Local):	19 Sept 2018	4			533	505	3.3	1.992		4					
Analysis Date (Local):	19.09.18	5			534	712	3.6	1.177		5					
Analyst:	MG	6			535	1055	3.6	0.821		6					
Stdization Date (Local):	18.09.18	7			536	1223	4.0	0.501		7					
KIO ₃ N:	0.0118147	8			537	1094	4.1	0.394		8					
Standard Titer:	0.48964	9			538	1406	4.3	0.371		9					
Blank Titer:	0.000756	10			539	1407	4.8	0.413		10					
THIO N:	0.241484	11			540	1409	5.1	0.599		11					
Sample Flask Water Seal?	Yes	12			541	1416	5.5	1.293		12					
	No	13			542	2055	5.7	1.920		13					
Reagent Change?	MnCl ₂	14			543	2056	5.7	2.470		14					14 leaking @ bottom closure cap
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			544A	2060	6.0	3.355	⇒	15	544B	2065	6.1	3.358	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			545	2068	6.1	3.653		16					
	KIO ₃	17			546	2089	6.1	3.964		17					
	THIO	18			547	3005	6.1	4.763		18					
Notes:		19			548A	3046	6.4	5.810	⇒	19	548B	3049	6.4	5.811	
		20			549	3057	6.7	6.313	LITTLE GLITCH 0.910 + ABORT END PT	20					
		21			550	3059	7.9	6.863		21					
		22			551	3050	12.7	6.464		22					
		23			552	3194	14.7	6.010		23					
		24			553	3073	14.8	6.007		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: January 2017



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:	2018-040	1			627	94	2.6	3.136		1					
Event:	85	2			628	371	2.4	3.132		2					
Station:	P26	3			629	621	2.4	2.888	⇒	3	1408		2.6	2.889	
Event Date (Local):	20/9/18	4			630	1429	2.6	2.451		4					
Analysis Date (Local):	21/9/18	5			631	2007	2.8	1.850		5					
Analyst:	HM	6			632	2015	3.1	1.190		6					
Stdization Date (Local):	21/9/18	7			633	2016	3.5	0.530		7					
KIO ₃ N:	0.0118147	8			634	3158	3.7	0.385	⇒	8	2019		3.9	0.382	
Standard Titer:	0.4897	9			635	1025	4.1	0.451		9					
Blank Titer:	0.0007	10			636	2027	4.5	0.479		10					
THIO N:	0.24143	11			637	2032	4.9	0.663		11					
Sample Flask Water Seal?	Yes	12			638	2043	5.3	1.164		12					
	No	13			639	3009	5.4	1.879		13					
Reagent Change?	MnCl ₂	14			640	2047	5.4	2.629	⇒	14	2092		5.6	2.630	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			641	3032	5.8	3.361		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			642	3033	5.9	3.700		16					
	KIO ₃	17			643	3054	6.1	4.187		17					
	THIO	18			644	3062	6.4	5.531		18					
Notes:		19			645	3065	6.7	6.322		19					
		20			646	3094	7.1	6.800	⇒	20	3116		7.2	6.802	
		21			647	3100	7.9	6.902		21					
		22			648	3177	13.1	6.229	Bottom endcap leaking	22					
		23			649	3127	14.0	6.048		23					
		24			650	3145	14.0	6.051		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.

Loop A 5085 3072
(14.0) 6.048

Loop B 3147
(14.0) 6.039

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Last Updated: January 2017



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:	2018-040	1			711	3042	3.0	1.176		1					
Event:	92	2			712A	569	3.3	0.529	=>	2	712B	3041	3.5	0.530	
Station:	EX-F1	3			713	3170	4.0	0.439		3					
Event Date (Local):	24/9/18	4			714	2088	4.2	0.474		4					
Analysis Date (Local):	MLG	5			715	3008	5.3	1.396		5					
Analyst:	21.09.18	6			716A	2090	5.4	1.913	=>	6	716B	3020	5.6	1.905	
Stdization Date (Local):	24/9/18	7			717	673	5.7	2.446		7					
KIO ₃ N:	0.011847	8			718	1465	5.7	3.247	now 19 OVERTITRATE BIT NAPE	8					
Standard Titer:	0.48971	9			719	1312	5.9	3.606		9					
Blank Titer:	0.00077	10			720A	2000	6.1	3.987	=>	10	720B	3075	6.2	3.993	
THIO N:	0.24143	11			721	3200	5.9	4.875		11					
Sample Flask Water Seal?	Yes	12			722	3080	6.4	6.404		12					
	No	13			723	3085	7.1	6.895		13					
Reagent Change?	MnCl ₂	14			724	2086	8.4	6.974		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			725	2063	13.6	6.141		15					
	H ₂ SO ₄	16			726	462	13.9	6.094		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17			727A	425	13.9	6.090	=>	17	727B	2040	14.0	6.091	OVERTITRATE BIT OF A WOOLLY END
	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: January 2017



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:	2018-40	1		760	94	5.2	1.929		1					
Event:	96	2		761		-			2					
Station:	EX-C	3		762	371	5.0	2.581		3					
Event Date (Local):	21-09-18	4		763		-			4					
Analysis Date (Local):	21-09-18	5		764	621	5.3	3.393	→ OVERTITRATE - WAY LATE	5	764	1408	5.3	3.386	
Analyst:	MG	6		765		-			6					
Stdization Date (Local):	20-09-18	7		766	1429	5.6	3.802		7					
KIO ₃ N:	0.0118147	8		767		-			8					
Standard Titer:	0.48971	9		768	2007	5.6	4.288		9					
Blank Titer:	0.00077	10		769		-			10					
THIO N:	0. 0.00077 24143	11		770	2015	5.9	5.164	OVERTITRATE BIT LATE	11					
Sample Flask Water Seal?	Yes	12		771		-			12					
	No	13		772	2016	6.3	6.237		13					
Reagent Change?	MnCl ₂	14		773		-			14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		774	3158	6.9	6.866	→	15	774	2019	6.9	6.870	
	H ₂ SO ₄	16		775		-			16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17		776	2025	8.1	6.971		17					
	THIO	18		777		-			18					
Notes:		19		778	2027	13.6	6.109		19					
		20		779		-			20					
		21		780	2032	13.7	6.113		21					
		22		781		-			22					
		23		782	2043	13.8	6.114		23					
		24		783		-			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: January 2017



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:	2018-40	1		862	3042	5.2	1.924	OVER-TITRATE LATE	1					
Event:	108	2		863	557	5.1		→	2					
Station:	61-W	3		864	569	5.1	2.503		3	864	3041	5.2	2.497	
Event Date (Local):	22/9/18	4		865	—	—	—		4					
Analysis Date (Local):	26.09.18	5		866	3170	5.1	3.239		5					
Analyst:	MO	6		867	—	—	—		6					
Stdization Date (Local):	26.09.18	7		868	2080	5.3	3.655		7					
KIO ₃ N:	0.0118147	8		869	—	—	—		8					
Standard Titer:	0.489426	9		870	3008	5.5	4.128		9					
Blank Titer:	0.0007744	10		871	—	—	—		10					
THIO N:	0.241587	11		872	2090	5.9	5.000		11					
Sample Flask Water Seal?	Yes	12		873	—	—	—		12					
	No	13		874	3020	6.3	6.376		13					
Reagent Change?	MnCl ₂	14		875	—	—	—		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		876	673	6.9	6.853		15					
	H ₂ SO ₄	16		877	—	—	—		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17		878	1465	7.8	6.952		17					
	THIO	18		879	—	—	—		18					
Notes:		19		880	1312	13.7	6.139		19					
		20		881	—	—	—		20					
		21		882	2000	13.8	6.124	⇒	21	882	3075	13.9	6.121	
		22		883	—	—	—		22					
		23		884	3000	13.9	6.107		23					
		24		885	3200	—	—		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: January 2017



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:	2018-040	1		912	3085	5.2	1.769		1					
Event:	112	2		913	—	—	—		2					
Station:	EX-N	3		914	2086	5.2	2.225	⇒	3	914	2063	5.4	2.223	NO WATER ON TOP
Event Date (Local):	22-09-18	4		915	—	—	—		4					
Analysis Date (Local):	26-09-18	5		916	462	5.4	3.018		5					
Analyst:	MG	6		917	—	—	—		6					
Stdization Date (Local):	26-09-18	7		918	425	5.5	3.547		7					
KIO ₃ N:	0.0118147	8		919	—	—	—		8					
Standard Titer:	0.489426	9		920	438	5.6	4.213		9					
Blank Titer:	0.0007744	10		921	—	—	—		10					
THIO N:	0.241587	11		922	3076	6.0	5.476		11					
Sample Flask Water Seal?	Yes	12		923	—	—	—		12					
	No	13		924	1459	6.5	6.393		13					
Reagent Change?	MnCl ₂	14		925	—	—	—		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		926	3029	7.3	6.866		15					
	H ₂ SO ₄	16		927	—	—	—		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17		928	2095	8.7	6.959		17					
	THIO	18		929	—	—	—		18					
Notes:		19		930	3078	13.6	6.159	OVERTITRATE WAY LATE	19					
		20		931	—	—	—		20					
		21		932	3068	13.7	6.166	⇒ OVERTITRATE A BIT LATE	21	932	3135	13.7	5.949	OOPS? A BIT EARLY?
		22		933	—	—	—		22					
		23	X	934	3110	13.7	6.159		23					cap open on top not set prop
		24		935	—	—	—		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: January 2017



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:	2018-040	1			950	528	5.5	1.793		1					
Event:	116	2								2					
Station:	Ex-E	3			952A	3114	5.2	2.397	⇒	3	952B	3148	5.4	2.401	
Event Date (Local):	22 Sep 18	4								4					
Analysis Date (Local):	26 09 18	5			954	3190	5.5	3.140		5					
Analyst:	MG	6								6					
Stdization Date (Local):	26 09 18	7			956	3093	5.7	3.601		7					
KIO ₃ N:	0.0118147	8								8					
Standard Titer:	0.489426	9			958	3138	5.9	4.091		9					
Blank Titer:	0.0007744	10								10					
THIO N:	0.241587	11			960	2098	6.0	4.862	OVERTITRATE LATE	11					
Sample Flask Water Seal?	Yes	12								12					
	No	13			962	745	6.7	6.163	OVERTITRATE LATE	13					
Reagent Change?	MnCl ₂	14								14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			964	3146	7.3	6.807		15					
	H ₂ SO ₄	16								16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17			966	3053	8.7	6.965		17					
	THIO	18								18					
Notes:		19			968	611	14.1	6.129		19					
		20								20					
		21			970A	510	14.2	6.134	⇒	21	970B	708	14.2	6.452	NO WATER ON TOP SMALL BUBBLES
		22								22					
		23			972	612	14.2	6.639	NO WATER ON TOP AIR BUBBLE ○	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: January 2017



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:	2018-40						1			974	94	4.2	0.534		1						
Event:	122						2			975	371	4.3	0.408		2						
Station:	P4 (RETURN)						3			976	621	4.3	0.376	FORGOT MAGNET OVER TITRATE MISSED END POINT DAMN	3	976	1408	4.4	0.405		
Event Date (Local):	26 Sept 2018						4			977	1429	4.8	0.226		4						
Analysis Date (Local):	26 09 18						5			978	2007	5.5	0.213	OVERTITRATE LATE	5						
Analyst:	MG						6			979	2015	5.9	0.465		6						
Stdization Date (Local):	26 09 18						7			980	2016	6.6	1.072		7						
KIO ₃ N:	0.0118147						8			981	3158	7.1	1.542		8						
Standard Titer:	0.489426						9			982	2019	7.4	1.762		9						
Blank Titer:	0.0007744						10			983	2025	7.8	2.196		10						
THIO N:	0.241587						11			984	2027	8.0	2.130	→	11	984	2032	8.0	2.128		
Sample Flask Water Seal?	Yes						12			985	2043	8.3	2.530		12						
	No						13			986	3009	8.9	2.830		13						
Reagent Change?	MnCl ₂						14			987	2047	9.0	2.986		14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15			988	2092	9.0	4.508		15						
	H ₂ SO ₄						16			989	3032	8.8	6.308		16						
NOTE NEW BATCH IN LOG BOOK	KIO ₃						17			990	3033	11.4	6.220		17						
	THIO						18			991	3054	14.3	5.984		18						
Notes:							19			992	3062	14.5	5.960	→	19	992	3065	14.7	5.963		
							20			993					20						
							21			5122	3094	11.2	5.945	→ LOOP OVERTITRATE - LATE	21	5122	3116	11.2	5.945	LOOP	
							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.