

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:	2017-06	1	✓	✓	1	3148	9.3	3.337		1					
Event:	1	2	✓	✓	2	3145	9.2	3.345		2					
Station:	Haro 59	3	✓	✓	3	3150	9.2	3.428		3					
Event Date (Local):	Jun 4th	4	✓	✓	4	3126	9.4	3.571		4					
Analysis Date (Local):	5 Jun 2017	5	✓	✓	5A	3129	9.4	3.721	→	5	5B	3135	9.4	3.731	
Analyst:	mb	6	✓	✓	6	3193	9.7	3.999		6					
Stdization Date (Local):	5 Jun 2017	7	✓	✓	7	3125	9.8	4.149		7					
KIO ₃ N:	0.0118794	8	✓	✓	8	3142	10.0	4.362		8					
Standard Titer:	0.4930	9	✓	✓	9	3138	10.1	4.555		9					
Blank Titer:	0.0005	10	✓	✓	10	3072	10.3	4.753	SPIGOT Leaking	10					
THIO N:	0.2422	11	✓	✓	11	3132	10.4	4.875		11					
Sample Flask Water Seal?	Yes	12	✓	✓	12	3028	10.5	5.029		12					
	No	13			13	3144	10.7	5.305	Bad leak, top cap	13					
Reagent Change?	MnCl ₂	14	✓	✓	14A	3016	10.9	5.510	→	14	14B	3133	10.8	5.507	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓	✓	15	3134	11.0	5.634		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16								16					
	KIO ₃	17								17					
	THIO	18								18					
Notes:		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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

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Cruise Number:	2017-06	1			22	1429	7.7	1.722		1					
Event:	4	2			23	94	7.7	1.702		2					
Station:	JF2	3			24	1408	7.7	1.733		3					
Event Date (Local):	5 JUN 2017	4			25	2007	8.2	2.235		4					
Analysis Date (Local):	5 JUN 2017	5			26A	3158	8.8	2.975		5	26B	2025	8.8	2.985	
Analyst:	MB	6			27	2019	9.2	3.494		6					
Stdization Date (Local):	5 JUN 2017	7			28	2017	9.2	3.637	Slightly leaky vent	7					
KIO ₃ N:	0.0118794	8			29	2016	9.5	3.954		8					
Standard Titer:	0.4930	9			30	1465	10.1	4.590		9					
Blank Titer:	0.0005	10			31	2051	10.5	5.222		10					
THIO N:	0.24122	11			32	2015	10.7	5.327		11					
Sample Flask Water Seal?	Yes	12			33A	2027	10.7	5.423		12	33B	2032	10.7	5.474	
Reagent Change?	MnCl ₂	13			34	2043	10.7	5.469		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14								14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15								15					
	KIO ₃	16								16					
	THIO	17								17					
Notes:		18								18					
		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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

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Cruise Number: 2017-06	1	✓	✓	41	1023	8.7	2.189	finish ~ 2.3v readjusted	1					
Event: 8	2	✓	✓	42	1472	10.1	4.832		2					
Station: P1	3	✓	✓	43A	3110	12.9	9.416 ⇒		3	43B	1402	12.9	9.421	
Event Date (Local): 6 JUN 2017	4								4					
Analysis Date (Local): 6 JUN 2017	5								5					
Analyst: MB	6								6					
Stdization Date (Local): 5 JUN 2017	7								7					
KIO ₃ N: 0.018794	8								8					
Standard Titer: 0.4930	9								9					
Blank Titer: 0.0005	10								10					
THIO N: 0.24122	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					
	16								16					
NOTE NEW BATCH IN LOG BOOK	17								17					
	18								18					
	19								19					
Notes:	20								20					
turtle	21								21					
	22								22					
	23								23					
	24								24					

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Cruise Number:	2017-06						1	✓	✓	45	1035	8.7	2.544		1						
Event:	9						2	✓	✓	46A	3047	8.7	2.647	⇒	2	46B	1422	8.8	2.653	ran 25 sample #47 not #46	
Station:	P2						3	✓	✓	47	1459	9.5	4.540		3					mistake in bar file	
Event Date (Local):	6 Jun 2017						4	✓	✓	48	1457	9.5	4.529	o.k. - titrate, chose a bad point	4						
Analysis Date (Local):	6 Jun 2017						5			49	1401	9.5	6.188	Slight drip, OT'd	5						
Analyst:	MB						6	✓	✓	50	1418	11.9	6.755		6						
Stdization Date (Local):	5 Jun 2017						7	✓	✓	51	650	13.7	6.454		7						
KIO ₃ N:	0.0118794						8			52A	2035	14.3	6.388	⇒ Slight drip	8	52B	1019	14.3	6.386		
Standard Titer:	0.4935						9								9						
Blank Titer:	0.0005						10								10						
THIO N:	0.24122						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:	2017-06	1	✓	✓	76	1429	4.7	0.450		1					
Event:	16	2	✓	✓	77	94	4.7	0.412		2					
Station:	P4	3	✓	✓	78A	1408	4.9	0.422	o/T'd.	3	78B	2007	4.9	0.439	
Event Date (Local):	5 JUN 2017	4	✓	✓	79	3158	5.4	0.270		4					
Analysis Date (Local):	7 JUN 2017	5	✓	✓	80	2025	5.8	0.237		5					
Analyst:	MB	6	✓	✓	81	2019	5.9	0.603		6					
Stdization Date (Local):	7 JUN 2017	7	✓	✓	82	2017	6.7	1.022		7					
KIO ₃ N:	0.0118794	8	✓	✓	83	2016	7.3	1.523		8					
Standard Titer:	0.4931	9	✓	✓	84	1465	7.6	1.778		9					
Blank Titer:	0.0005	10	✓	✓	85	2051	8.1	2.210		10					
THIO N:	0.241107	11	✓	✓	86A	2015	8.5	2.579	→	11	86B	2027	8.5	2.570	
Sample Flask Water Seal?	Yes	12	✓	✓	87	2032	8.8	2.806		12					
	No	13	✓	✓	88	2043	9.1	3.235		13					
Reagent Change?	MnCl ₂	14	✓	✓	89	2040	9.5	3.456		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓	✓	90	2047	9.9	4.403		15					
	H ₂ SO ₄	16	✓	✓	91	3033	9.9	5.713		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17	✓	✓	92	3009	10.6	6.761		17					
	THIO	18	✓	✓	93	621	12.6	6.582		18					
Notes:		19	✓	✓	94A	3032	13.5	6.420	→	19	95B	3200	13.5	6.418	
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

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Shar. K.

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Cruise Number:	2017-06	1	✓	✓	162	1023	4.2	1.385		1					
Event:	30	2	✓	✓	163	1472	4.5	0.659		2					
Station:	P8	3	✓	✓	164	3110	4.9	0.391		3					
Event Date (Local):	7 Jun 2017	4	✓	✓	165	1402	5.4	0.298	O/T	4					
Analysis Date (Local):	7 Jun 2017	5	✓	✓	166	1035	5.8	0.282		5					
Analyst:	MB	6	✓	✓	167A	3047	6.0	0.599	→	6	167B	1422	6.1	0.594	
Stdization Date (Local):	7 Jun 2017	7	✓	✓	168	1459	6.5	1.460	O/T	7					
KIO ₃ N:	0.018794	8	✓	✓	169	1457	7.1	1.875		8					
Standard Titer:	0.431	9		✓	170	1401	7.8	1.942	Leaking vent.	9					
Blank Titer:	0.0005	10	✓	✓	171	1418	8.3	2.629		10					
THIO N:	0.241107	11	✓	✓	172	650	8.5	2.802		11					
Sample Flask Water Seal?	Yes	12	✓	✓	173	2035	8.8	3.042		12					
	No	13			174A	1019	9.5	3.955	→ Leaking cap probably. O/T	13	174B	1470	9.5	3.940	
Reagent Change?	MnCl ₂	14	✓	✓	175	3121	8.9	6.476		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓	✓	176	3090	9.5	6.737		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16	✓	✓	177	3085	10.9	6.714		16					
	KIO ₃	17	✓	✓	178	3080	11.5	6.681		17					
	THIO	18	✓	✓	179	3084	12.3	6.480		18					
Notes:		19	✓	✓	180	3098	12.7	6.394		19					
		20	✓	✓	181A	2069	12.7	6.388	→	20	181B	3068	12.7	6.400	
		21	✓	✓	182	3070	12.7	6.402		21					
		22	✓	✓	183	1314	12.7	6.398		22					
		23	✓	✓	184	3099	12.9	6.457		23					
		24								24					

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Cruise Number:	2017-06	1		217	1429	3.3	2.286		1					
Event:	36	2		218	94	3.4	2.292		2					
Station:	P12	3		219	1408	3.5	2.238		3					
Event Date (Local):	7 Jun 2017	4		220A	2007	3.7	1.891	→	4	220B	3158	3.9	1.884	
Analysis Date (Local):	8 Jun 2017	5		221	2025	4.0	1.373		5					
Analyst:	MB	6		222	2019	4.5	0.706		6					
Stdization Date (Local):	7 Jun 2017	7		223	2017	4.5	0.406		7					
KIO ₃ N:	0.0118794	8		224	2016	5.5	0.255	OK'd	8					
Standard Titer:	0.41931	9		225A	1405	5.4	0.232	→	9	225B	2051	5.7	0.366	→ flask is broken on bottom
Blank Titer:	0.0005	10		226	2015	5.8	0.370		10					
THIO N:	0.241107	11		227	2027	6.3	1.114		11					
Sample Flask Water Seal?	Yes	12	X	228	2032	6.8	1.716	Slight leak	12					
	No	13		229A	2043	7.1	2.26	→	13	229B	2040	7.2	2.270	
Reagent Change?	MnCl ₂	14		230	2047	7.5	2.823		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		231	3033	7.8	3.093		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		232	3009	8.1	3.419		16					
	KIO ₃	17		233	621	8.2	3.786		17					
	THIO	18		234	3032	8.3	4.616		18					
Notes:		19		235A	3200	8.3	5.372	→	19	235B	2000	8.5	5.378	
		20		236	3042	8.6	6.677		20					
		21		237	3037	11.3	6.971		21					
		22		238	3116	11.3	6.976		22					
		23		239	3117	11.3	6.976		23					
		24							24					

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Cruise Number:	2017-06	1		292	1023	2.5	2.751		1					
Event:	46	2		293	1472	2.4	2.724		2					
Station:	P16	3		294A	3110	2.5	2.725	→	3	294B	1402	2.6	2.719	
Event Date (Local):	9 JUN 2017	4		295	1055	2.6	2.479		4					
Analysis Date (Local):	11 JUN 2017	5		296	3047	2.8	1.953		5					
Analyst:	MCB	6		297	1422	2.8	1.291		6					
Stdization Date (Local):	11 JUN 2017	7		298	1459	3.3	0.608		7					
KIO ₃ N:	0.0118794	8		299	1457	3.6	0.351		8					
Standard Titer:	0.4928	9		300	1401	4.0	0.330		9					
Blank Titer:	0.0006	10		301A	1418	4.5	0.358	→	10	301B	6050	4.7	0.340	
THIO N:	0.241357	11		302	2035	5.0	0.555		11					
Sample Flask Water Seal?	(Yes) No	12		303	1019	5.5	1.443		12					
Reagent Change?	MnCl ₂	13	X	304	1470	6.1	2.522	valve leak	13					
(Please circle reagent that was changed prior to sampling and standardization)	Nal/NaOH	14		305	3121	6.3	2.862		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15		306	3090	6.9	3.422		15					
	KIO ₃	16		307A	3085	7.1	3.724	→	16	307B	3080	7.1	3.721	
	THIO	17		308	3084	7.4	3.891		17					
Notes:		18		309	3048	7.5	4.991		18					
		19		310	2069	7.4	6.072		19					
		20		311	3068	7.6	6.750		20					
		21		312	3070	9.4	6.741		21					
		22		313A	1314	9.7	6.748	→	22	313B	3099	9.7	6.729	
		23		314	3111	9.9	6.637		23					
		24		315	3164	9.9	6.636		24					

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Cruise Number:	2017-06	1		401	3148	2.7	2.942		1					
Event:	64	2		402	3145	2.4	2.832		2					
Station:	P20	3		403A	3150	2.4	2.841		3	403B	3126	2.8	2.846	
Event Date (Local):	10 JUN 2017	4		404	3129	2.5	2.483		4					
Analysis Date (Local):	12 JUN 2017	5		405	3135	2.7	1.873		5					
Analyst:	MB	6		406	3193	2.8	1.212		6					
Stdization Date (Local):	11 JUN 2017	7		407	3125	3.3	0.512		7					
KIO ₃ N:	0.0118794	8		408	3142	3.6	0.320		8					
Standard Titer:	0.4928	9		409	3138	4.0	0.384		9					
Blank Titer:	0.0066	10		410A	3072	4.5	0.459		10	410B	3132	4.5	0.464	
THIO N:	0.241357	11		411	3028	4.9	0.723		11					
Sample Flask Water Seal?	Yes	12		412	3144	5.4	1.317		12					
	No	13		413	3016	5.7	2.018		13					
Reagent Change?	MnCl ₂	14		414	3133	6.1	2.691		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		415	3134	6.6	3.423		15					
	H ₂ SO ₄	16		416A	3147	6.7	3.766		16	416B	569	6.8	3.766	
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17		417	3022	7.1	4.063		17					
	THIO	18		418	3143	7.1	4.836		18					
Notes:		19		419	2014	6.6	6.896	OT'd	19					
Robot.		20		420	3036	7.1	6.969		20					
P20 Deep.		21		421	3146	7.6	7.100		21					
		22		422A	3209	9.2	6.836		22	422B	3066	9.2	6.863	
		23		423	3194	10.0	6.668		23					
		24		424	3059	10.1	6.626		24					

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Cruise Number:	207-06	1	✓	✓	554	1429	2.1	3.189		1					
Event:	85	2	✓	✓	555	94	2.1	3.126		2					
Station:	P26	3	✓	✓	556	1408	2.2	2.867		3					
Event Date (Local):	12 Jun 2017	4	✓	✓	557	2007	2.3	2.450		4					
Analysis Date (Local):	15 Jun 2017	5	✓	✓	558A	3158	2.5	1.854	→	5	558B	2025	2.6	1.853	
Analyst:	MB	6	✓	✓	559	2019	2.6	1.212		6					
Stdization Date (Local):	15 Jun 2017	7	✓	✓	560	2017	3.1	0.485		7					
KIO ₃ N:	0.0118774	8	✓	✓	561	2016	3.4	0.382		8					
Standard Titer:	0.241402	9	✓	✓	562	1465	3.8	0.431		9					
Blank Titer:	0.0006	10	✓	✓	563	3062	4.2	0.531		10					
THIO N:	0.241402	11	✓	✓	564	2015	4.8	0.784		11					
Sample Flask Water Seal?	Yes	12	✓	✓	565	2027	5.3	1.572		12					
	No	13			566	2032	5.7	2.244	went leaky	13					
Reagent Change?	MnCl ₂	14	✓	✓	567A	2043	6.0	2.772	→	14	567B	2040	6.0	2.756	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓	✓	568	2047	6.5	3.560		15					
	H ₂ SO ₄	16	✓	✓	569	3033	6.6	3.965		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17			570	3009	6.8	4.222		17					
	THIO	18			571	621	7.1	4.352		18					
Notes:		19			572	3032	6.3	6.386		19					
		20			573A	3200	6.1	7.031	→	20	573B	2000	6.2	7.041	
		21			574	3042	6.9	7.148	leaky top	21					
		22			575	3037	8.9	6.771		22					
		23			576	3116	9.0	6.765		23					
		24			577A	3157	9.0	6.765	→	24	577B	3008	9.0	6.762	

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



Oxy loops + Extra 5m.

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:	2017-06	1		6004	2091	10.3	5.607	IF2 TR loop	1	6004 ^B	2092	10.3	5.666	IF2 TR loop. bubbles!
Event:	Various	2		6008 ^A	2087	14.0	9.464		2	6008 ^B	3106	14.1	9.173	P1 TR loop vs 5m Nisk ^{bub.}
Station:	Various	3		6008 ^E	2020	13.6	6.421	O2 loop TR b/w P1 + P2, *WRONG FLASK # USED (1442)!	3	6008 ^B	1442	13.6	6.628	bubbly, *WRONG FLASK # USED 2020!
Event Date (Local):	Various	4		6009 ^A	3089	13.8	6.467	P2 vs 5m Niskin	4	6009 ^B	462	13.0	6.624	bubbly OT-1.
Analysis Date (Local):	15 JUN 2017	5		6016 ^A	3094	13.0	6.449	P4 vs 5m.	5	6016 ^B	3074	13.0	6.379	
Analyst:	MB	6		6030 ^A	3055	12.3	6.504	P8 vs 5m	6	6030 ^B	3052	12.3	6.464	
Stdization Date (Local):	15 JUN 2017	7		6036 ^A	3101	11.2	6.655	P12 vs 5m	7	6036 ^B	3065	11.2	6.537	
KIO ₃ N:	0.018799	8		6046 ^A	458	10.1	6.748	P16 vs 5m.	8	6046 ^B	2003	10.1	6.843	
Standard Titer:	0.4926	9		6064 ^A	3103	10.1	6.721	P20 vs 5m.	9	6064 ^B	3098	10.1	6.768	
Blank Titer:	0.0006	10		6085 ^A	3095	9.0	6.904	P26 vs 5m	10	6085 ^B	1312	9.0	6.960	
THIO N:	0.241402	11						P4ret vs 5m.	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.