

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: 2018-26	1			1	2694	8.7	2.797								1					
Event: 2	2			2	3180	8.8	3.038								2					
Station: Haro 59	3			3A	3095	8.9	3.086	=>							3	3B	3084	8.9	3.081	
Event Date (Local): 06.06.18	4			4	3101	9.0	3.215								4					
Analysis Date (Local): 07.06.18	5			5	3133	9.1	3.385								5					
Analyst: MG	6			6	3142	9.2	3.476								6					
Stdization Date (Local): 07.06.18	7			7	1023	9.6	3.895								7					
KIO ₃ N: 0.0123057	8			8	3088	10.1	4.987								8					
Standard Titer: 0.4908	9			9A	456	10.2	4.534	=>							9	9B	3089	10.2	4.540	
Blank Titer: 0.0007	10			10	3103	10.4	4.746								10					
THIO N: 0.250933	11			11	1422	10.7	4.564								11					
Sample Flask Water Seal? ☒ Yes ? VERY ☐ No LITTLE	12			12	439	11.0	5.353								12					
	13			13	435	11.2	5.658								13					Redraw
Reagent Change? ☐ MnCl ₂	14			14	3106	11.8	6.285								14					
(Please circle reagent that was changed prior to sampling and standardization)	15														15					
NOTE NEW BATCH IN LOG BOOK	16														16					
	17														17					
	18														18					
	19														19					
	20														20					
	21														21					
	22														22					
	23														23					
	24														24					

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

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Cruise Number:	2018-26	1	✓	✓	15	458	7.5	1.690		1					
Event:	5	2	✓	✓	16	1442	7.5	1.725		2					
Station:	SDZ 2	3	✓	✓	17A	3079	7.5	1.765		3	17B	3090	7.5	1.754	
Event Date (Local):	05-06-18	4	✓	✓	18	3000	7.9	1.991		4					
Analysis Date (Local):	8/6/18	5	✓	✓	19	3010	8.4	2.663		5					
Analyst:	H.N	6	✓	✓	20	3098	9.1	3.722		6					
Stdization Date (Local):	7/6/18	7	✓	✓	21	3074	9.6	4.286		7					
KIO ₃ N:	0.0123057	8	✓	✓	22	437	9.7	4.350		8					
Standard Titer:	0.4908	9	✓	✓	23	3086	10.2	4.874		9					
Blank Titer:	0.0007	10	✓	✓	24	575	11.0	5.574		10					
THIO N:	0.250933	11	✓	✓	25	3036	10.9	5.477		11					
Sample Flask Water Seal?	Yes ? VER-1 No LITTLE	12								12					
Reagent Change?	MnCl ₂	13								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					

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Cruise Number: 208-26	1			26	3117	7.6	1.594								1					
Event: 9	2			27	3094	9.1	3.936								2					
Station: P1	3			28	3147	10.1	5.899								3		3116	10.1	5.890	
Event Date (Local): 7/6/18	4														4					
Analysis Date (Local): 8/7/18	5														5					
Analyst: H.M.	6														6					
Stdization Date (Local): 7/6/18	7														7					
KIO ₃ N: 0.0123057	8														8					
Standard Titer: 0.4908	9														9					
Blank Titer: 0.0007	10														10					
THIO N: 0.250933	11														11					
Sample Flask Water Seal? <u>Yes</u>	12														12					
	13														13					
Reagent Change? <u>MnCl₂</u>	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					

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Cruise Number: 2018-26	1			30	371	8.0	1.978								1					
Event: 10	2			31	94A	8.0	2.124	↔							2	31 B	3065	8.0	2.625	
Station: P2	3			32	3145	8.6	4.445								3					
Event Date (Local): 7 June 2018	4			33	2092	8.6	4.438								4					
Analysis Date (Local): 8/6/18	5			34	3100	9.3	5.343								5					
Analyst: lf.m.	6			35	2032	11.5	6.529								6					
Stdization Date (Local): 7/6/18	7			36	2016	12.5	6.468								7					
KIO ₃ N: 0.0123057	8			37	3033	12.6	6.448								8		1429	12.6	6.448	
Standard Titer: 0.4908	9														9					
Blank Titer: 0.0001	10														10					
THIO N: 0.250933	11														11					
Sample Flask Water Seal? <u>Yes</u>	12														12					
	13														13					
Reagent Change? MnCl ₂	14														14					
(Please circle reagent that was changed prior to sampling and standardization)	15														15					
	16														16					
NOTE NEW BATCH IN LOG BOOK	17														17					
	18														18					
	19														19					
	20														20					
	21														21					
	22														22					
	23														23					
	24														24					

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Cruise Number:	2018-26	1	✓	✓	73	1223	4.3	0.468		1										
Event:	16	2	✓	✓	74	3194	4.5	0.380		2										
Station:	P4	3	X	✓	75A	3057	4.6	0.380	⇒ valve leaks (2 nd time!)	3	75B	3073	4.7	0.365						
Event Date (Local):	07.06.18	4	✓	✓	76	3050	5.1	0.227		4										
Analysis Date (Local):	06.06.18	5	✓	✓	77	196	5.7	0.218		5										
Analyst:	HM	6	✓	✓	78	2056	6.1	0.427		6										
Stdization Date (Local):	07.06.18	7	✓	✓	79	3067	6.7	—	INVALID FLASK	7										
KIO ₃ N:	0.0123057	8	✓	✓	80	1416	7.3	1.718		8										
Standard Titer:	0.4908	9	✓	✓	81	1406	7.6	2.000		9										
Blank Titer:	0.0007	10	✓	✓	82	3059	8.1	2.550		10										
THIO N:	0.256933	11	✓	✓	83A	3005	8.3	2.729	⇒	11	83B	1407	8.3	2.732						
Sample Flask Water Seal?	Yes No	12	✓	✓	84	2060	8.5	3.010		12										
Reagent Change?	MnCl ₂	13	✓	✓	85	1409	8.8	3.147		13										
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	14			86	505	9.1	3.379		14										
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	15			87	2089	9.4	4.592		15										
	KIO ₃	16			88	471	9.9	6.523		16										
	THIO	17			89	3046	11.3	6.839		17										
Notes:		18			90	3124	13.3	6.210		18										
		19			91A	2055	13.3	6.246	⇒	19	91B	3049	13.4	6.220						
		20								20										
		21								21										
		22								22										
		23								23										
		24								24										

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Cruise Number:	2018-26	1			159	3117	4.0	1.356		1					
Event:	31	2			160	3094	4.5	0.616		2					
Station:	P8	3			161	3147	4.2	0.397		3					
Event Date (Local):	08.06.08	4			162	3116	5.5	0.250		4					
Analysis Date (Local):	08.06.08	5			163	371	5.9	0.263		5					
Analyst:	MG	6			164A	94	6.2	0.423	=)	6	164B	3065	6.4	0.418	
Stdization Date (Local):	07.06.18	7			165	3145	6.8	1.060		7					
KIO ₃ N:	0.0123057	8			166	2092	7.3	1.627		8					
Standard Titer:	0.4907958	9			167	3100	7.6	2.118		9					
Blank Titer:	0.0007	10			168	2032	8.1	2.365		10					
THIO N:	0.250933	11			169	2016	8.3	2.556		11					
Sample Flask	Yes	12			170	3033	8.5	2.703		12					
Water Seal?	No	13			171A	1429	9.1	3.161	=)	13	171B	1408	9.1	3.139	
Reagent Change?	MnCl ₂	14			172	2027	9.1	3.962		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			173	3158	9.2	5.004		15					
	H ₂ SO ₄	16			174	2007	9.5	5.566		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17			175	2043	9.9	6.092		17					
	THIO	18			176	2047	11.3	5.893	*PROBLEM TITRATE -> OVERTITRATE RECALCULATED	18					
Notes:		19			177	2015	12.9	6.248		19					
		20			178	2019	13.0	6.219		20					
		21			179	3127	13.0	6.208		21					
		22			180	3032	13.0	6.217		22					
		23			181A	3009	13.0	6.224	=)	23	181B	621	13.1	6.227	
		24								24					

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Cruise Number: 2018-26	1			249	1223	3.3	2.323								1					
Event: 43	2			250	3194	3.2	2.311								2					
Station: P12	3			251 [#]	3057	3.2	2.326	⇒							3	251 ^B	3073	3.5	2.302 [*]	DID THIS LEAK?
Event Date (Local): 09.06.18	4			252	3050	3.3	1.895								4					
Analysis Date (Local): 09.06.18	5			253	196	3.7	1.363								5					
Analyst: MG	6			254	2056	4.0	0.637								6					
Stdization Date (Local): 09.06.18	7			255	1055	4.4	0.365								7					
KIO ₃ N: 0.0123057	8			256	1416	4.7	0.261								8					
Standard Titer: 0.490631	9			257	1406	5.3	0.299								9					
Blank Titer: 0.0006853	10			258	3059	5.7	0.511								10					
THIO N: 0.251027	11			259	3005	6.1	1.605								11					
Sample Flask Water Seal? Yes No	12			260 [#]	1407	6.6	2.454	⇒							12	260 ^B	2060	6.7	2.459	
Reagent Change? MnCl ₂	13			261	1409	7.1	2.721								13					
(Please circle reagent that was changed prior to sampling and standardization)	14			262	505	7.7	3.336								14					
NOTE NEW BATCH IN LOG BOOK	15			263 [#]	2089	8.0	3.855	⇒							15	263 ^B	471	8.1	3.848	
	16			264	3046	8.1	4.127								16					
	17			265	3124	7.7	5.036								17					
	18			266	2055	7.9	5.862								18					
	19			267	3049	8.6	6.704								19					
	20			268	396	9.3	7.081								20					
	21			269	1094	11.7	6.525								21					
	22			270 [#]	2065	11.5	6.486	⇒							22	270 ^B	2068	11.6	6.491	
	23			271	3137	11.7	6.508								23					
	24														24					

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Cruise Number:	2018-26	1			332	3117	2.7	2.728		1					
Event:	52	2			333	3094	2.6	2.685		2					
Station:	P116	3			334	3147	2.6	2.693	→	3	339	3116	2.6	2.695	
Event Date (Local):	10/06/18	4			335	371	2.6	2.458		4					
Analysis Date (Local):	12/06/18	5			336	94	2.8	2.105		5					
Analyst:	MG	6			337	3065	3.1	1.287		6					
Stdization Date (Local):	12/6/18	7			338	3145	3.5	0.510		7					
KIO ₃ N:	0.0123057	8			339	3100	3.8	0.382		8					
Standard Titer:	0.049055	9	✓		340	2092	4.4	0.312		9					top ✓, DJR IP
Blank Titer:	0.00045	10			341	2032	4.9	0.354	→	10	341	1408	5.0	0.344	
THIO N:	0.25093	11			342	2016	5.4	0.514		11					
Sample Flask Water Seal?	Yes	12			343	3033	5.8	1.243		12					
	No	13			344	1429	6.2	2.340	← CHECK?	13					
Reagent Change?	MnCl ₂	14			345	2027	6.5	2.159		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			346	3158	6.9	2.540		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			347	2007	7.2	2.826	→	16	347	2043	7.2	2.824	
	KIO ₃	17			348	2047	7.5	3.169		17					
	THIO	18			349	2015	7.7	3.565		18					
Notes:		19			350	2019	7.8	4.878		19					
		20			351	3127	7.9	6.596		20					
		21			352	3032	8.5	6.882	→	21	352	3009	8.6	6.898	
		22			353	621	10.1	6.973	DO SOLIDS IN FLASK	22					
		23			354	2025	10.9	6.877	" " "	23					
		24			355	2017	11.1	6.811		24					

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Cruise Number: 2018-26		1	✓✓	447	1223	2.6	2.952		1					
Event: 62		2	✓✓	448	3194	2.6	2.815		2					
Station: P20		3		449A	3057	2.7	2.813	⇒	3	449B	3023	2.9	2.810	
Event Date (Local): 11/06/18		4		450	3050	2.8	2.433		4					
Analysis Date (Local): 12.06.18		5		451	196	3.1	1.836		5					
Analyst: MG		6		452	2056	3.3	1.165		6					
Stdization Date (Local): 12/6/18		7		453	1055	3.8	0.470		7					
KIO ₃ N: 0.0123057		8		454A	1416	4.1	0.317	⇒	8	454B	1406	4.4	0.316	
Standard Titer: 0.049055		9	x	455	3059	4.7	0.330	VERY SLOW DRIP	9					
Blank Titer: 0.00045		10		456	3005	5.4	0.400		10					
THIO N: 0.25093		11		457	1407	5.9	0.817		11					
Sample Flask Water Seal? <u>Yes</u>		12		458	2060	6.6	1.574		12					
		13		459	1409	7.2	1.853		13					
Reagent Change? MnCl ₂		14		460A	505	7.4	1.955	⇒	14	460B	2059	7.5	1.916	*
(Please circle reagent that was changed prior to sampling and standardization)		15		461	471	7.7	1.969		15					
NOTE NEW BATCH IN LOG BOOK		16		462	3046	7.7	2.021		16					
		17		463	2055	7.8	2.051		17					
		18		464	8124	7.9	2.094		18					
Notes: plesiosaur		19	x	465A	3049	7.9	2.134	⇒ SLOW DRIBBLE	19	465B	396	8.0	2.135	
		20		466	1094	8.0	2.810		20					
		21		467	2065	7.9	6.312	GUSHING CAPS NOT SITTING? NOT VORS	21					WIGGLE TOP + BOTTOM SEVERAL TIMES
		22		468	2068	10.0	6.817		22					
		23		469	3137	10.4	6.828		23					
		24		470	3119	10.4	6.797	GUSHING TOP CAP NOT SITTING	24					

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Cruise Number:	2018-26	1	X ✓	570	2094	2.5	3.182	valve wide open	1					
Event:	76	2	✓ ✓	571	3180	2.4	3.145		2					
Station:	P26	3	✓ ✓	572	3095	2.5	2.908		3					
Event Date (Local):	13/6/18	4	✓ ✓	573	3084	2.6	2.461		4					
Analysis Date (Local):	14/6/18	5	✓ ✓	574	3101	3.9	0.473	⇒ 5 mL ← ?	5	574	3133	4.0	0.473	
Analyst:	lf.m	6	✓ ✓	575	3142	3.1	1.189		6					
Stdization Date (Local):	12/6/18	7	✓ ✓	576	1023	3.4	0.543		7					
KIO ₃ N:	0.0123 057	8	✓ ✓	577	3088	3.6	0.445	⇒	8	577	456	3.8	0.441	
Standard Titer:	0.049 055	9	✓ ✓	578	3089	4.0	0.467		9					
Blank Titer:	6.000 45	10	✓ ✓	579	3103	4.6	0.599		10					
THIO N:	0.250 93	11	✓ ✓	580	1422	4.9	0.712		11					
Sample Flask Water Seal?	Yes	12	✓ ✓	581	439	5.3	1.227	⇒	12	581	435	5.4	1.224	
	No	13	✓ ✓	582	3106	5.4	1.815		13					
Reagent Change?	MnCl ₂	14	✓ ✓	583	458	5.4	2.449		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓ ✓	584	1442	5.6	3.258		15					
	H ₂ SO ₄	16	✓ ✓	585	3079	5.7	3.648		16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17	✓ ✓	586	3090	5.8	4.288		17					
	THIO	18	✓ ✓	587	3000	6.2	5.682	⇒	18	587	3010	6.3	5.682	
Notes:		19	✓ ✓	588	3098	6.7	6.783		19					
		20	✓ ✓	589	3074	7.0	7.018		20					
		21	✓ X	590	437	8.1	7.011	slight drip b/c of bottom cap	21					
		22	✓ ✓	591	3086	9.2	6.868		22					
		23	✓ ✓	592	575	9.3	6.812		23					
		24	✓ ✓	593	3036	9.3	6.778		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:	2018-26	1			678	2094	4.5	0.504		1					
Event:	105	2			679	3180	4.5	0.402		2					
Station:	P4	3			680	3095	4.5	0.419	→	3	680	3084	4.7	0.396	
Event Date (Local):	17/6/18	4			681	3101	5.1	0.248		4					
Analysis Date (Local):	17/6/18	5			682	3133	5.7	0.246		5					
Analyst:	M.C	6			683	3142	5.9	0.406		6					
Stdization Date (Local):	17/6/18	7			684	1023	6.7	1.104		7					
KIO ₃ N:	0.0123057	8			685	3088	7.2	1.104		8					
Standard Titer:	0.49029	9			686	456	7.6	2.001		9					
Blank Titer:	0.00027	10			687	3089	8.1	2.453		10					
THIO N:	0.250903	11			688	3103	8.4	2.778	→	11	688	1422	8.6	2.798	
Sample Flask Water Seal?	Yes	12			689	439	8.8	2.878		12					
	No	13			690	435	9.1	3.049		13					
Reagent Change?	MnCl ₂	14			691	3106	9.3	3.894		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			692	485	9.4	4.868		15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16			693	1442	9.5	6.159		16					
	KIO ₃	17			694	3079	12.9	6.369	SMALL BUBBLE WHEN OPENING FLASK	17					
	THIO	18			695	3090	13.2	6.376	→	18	695	3000	13.2	6.380	
Notes:		19			696	3010	13.3	6.355	NO WATER ON FLASK	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.