

Dissolved Oxygen Analysis Log Sheet

Last Updated: December 2011

Institute of Ocean Sciences

Water Properties Group

Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	1	552	50	9.9	4.440		1				
Event: 1	2	2	94	10	12.5	5.624		2				
Station: T2-4	3							3				
Event Time (UTC):	4							4				
Event Date (UTC): 08 July 2012	5							5				
Analysis Date: 08 July 2012	6							6				
Analyst: KS	7							7				
Stdization Date: 08 July 2012	8							8				
KIO ₃ N: 0.0121106	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0012	11							11				
THIO N: 0.14035	12							12				
Sample Flask (Yes)	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NaI/NaOH	17							17				
H ₂ SO ₄	18							18				
NOTE NEW BATCH IN LOG BOOK	19							19				
KIO ₃	20							20				
THIO	21							21				
Notes: ran a dummy sample.	22							22				
	23							23				
	24							24				

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Files named 2012-160012.oxy no ... 160002.oxy

Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	3	620	18	13.1	5.642		1				
Event: 2	2	4		16				2				
Station: BSI	3	5	570	14	13.1	5.762	Noisy titration end. Check.	3				
Event Time (UTC):	4	6		10				4				
Event Date (UTC): 08 July 2012	5	7	569	5	14.2	5.795		5	650	14.2	5.795	
Analysis Date: 08 July 2012	6	8		0				6				
Analyst: KS	7							7				
Stdization Date: 08 July 2012	8							8				
KIO ₃ N: 0.0121106	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0012	11							11				
THIO N: 0.14035	12							12				
Sample Flask ☒ Yes	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NOTE NEW BATCH IN LOG BOOK	17							17				
	18							18				
	19							19				
Notes: * Event says 12	20							20				
Should be 2.	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	9		34				1				
Event: 84	2	10	621	32	11.8	4.774		2				
Station: BS2	3	11		30				3				
Event Time (UTC):	4	12		25				4				
Event Date (UTC): 08 July 2012	5	13	510	10	14.0	6.680	Noisy end of titration	5	196	14.0	6.676	
Analysis Date: 08 July 2012	6	14	505	5	14.9	6.858		6				
Analyst: KS	7	15		0				7				
Stdization Date: 08 July 2012	8							8				
KIO ₃ N: 0.0121106	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0012	11							11				
THIO N: 0.14035	12							12				
Sample Flask Water Seal? Yes	13							13				
	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
	17							17				
NOTE NEW BATCH IN LOG BOOK	18							18				
	19							19				
Notes: Event says 3. Should be 4.	20							20				
	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	16	557	20	12.9	5.520		1				
Event: 005	2	17		18				2				
Station: B53	3	18		16				3				
Event Time (UTC): 0	4	19	559	10	13.9	6.172		4	371	13.9	6.183	
Event Date (UTC): 08 July 2012	5	20		5				5				
Analysis Date: 08 July 2012	6	21		0				6				
Analyst: KS	7							7				
Stdization Date: 08 July 2012	8							8				
KIO ₃ N: 0.0121106	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0012	11							11				
THIO N: 0.14035	12							12				
Sample Flask ☒ Yes	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
Na ₂ /NaOH	17							17				
H ₂ SO ₄	18							18				
NOTE NEW BATCH IN LOG BOOK	19							19				
KIO ₃	20							20				
THIO	21							21				
Notes:	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	①	22	528	21	12.7	5.344		1				
Event: 6	2	23		19				2				
Station: B54	③	24	639	10	13.4	5.658		3				
Event Time (UTC):	④	25	622	5	14.8	7.613		4				
Event Date (UTC): 08 July 2012	5	26		0				5				
Analysis Date: 08 July 2012	6							6				
Analyst: KS	7							7				
Stdization Date: 08 July 2012	8							8				
KIO ₃ N: 0.0121106	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0012	11							11				
THIO N: 0.14085	12							12				
Sample Flask Water Seal? Yes	13							13				
No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NaI/NaOH	17							17				
H ₂ SO ₄	18							18				
NOTE NEW BATCH IN LOG BOOK	19							19				
THIO	20							20				
Notes:	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	27		42				1				
Event: 007	2	28		40				2				
Station: B55	3	29	468	38	10.9	3.789		3				
Event Time (UTC):	4	30		30				4				
Event Date (UTC): 08 July 2012	5	31	638	25	11.7	4.941	→	5	632	11.8	4.946	+ small bubble under stopper
Analysis Date: 08 July 2012	6	32		10				6				
Analyst: KS	7	33	631	5	16.3	8.037		7				
Stdization Date: 08 July 2012	8	34	611	0	16.7	7.484	Noisy titration. lots of flakers	8				
KIO ₃ N: 0.0121106	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0012	11							11				
THIO N: 0.14035	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NOTE NEW BATCH IN LOG BOOK	17							17				
	18							18				
	19							19				
Notes:	20							20				
	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	35		25				1				
Event: 008	2	36		23				2				
Station: B56	3	37	657	21	12.4	5.024		3				
Event Time (UTC):	4	38	668	20	12.2	5.050		4	690	12.2	5.055	Maybe a late end point. Check.
Event Date (UTC): 08 July 2012	5	39		10				5				
Analysis Date: 08 July 2012	6	40		5				6				
Analyst: KS	7	41	708	0	15.6	7.432		7				
Stdization Date: 08 July 2012	8							8				
KIO ₃ N: 0.0121106	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0012	11							11				
THIO N: 0.14035	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NOTE NEW BATCH IN LOG BOOK	17							17				
	18							18				
	19							19				
Notes:	20							20				
	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	①	42	552	22	12.1	5.087		1				
Event: 009	2	43		20				2				
Station: BS15	③	44	94	18	12.0	5.073		3				
Event Time (UTC):	④	45	620	10	13.1	5.582		④	570	13.2	5.592	+ auck!
Event Date (UTC): 09 July 2012	5	46		5				5				
Analysis Date: 09 July 2012	6	47		0				6				
Analyst: KS	7							7				
Stdization Date: 08 July 2012	8							8				
KIO ₃ N: 0.0121106	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0012	11							11				
THIO N: 0.14035	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NaI/NaOH	17							17				
H ₂ SO ₄	18							18				
NOTE NEW BATCH IN LOG BOOK	19							19				
KIO ₃	20							20				
THIO	21							21				
Notes:	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	48		45				1				
Event: 010	2	49		43				2				
Station: B514	3	50	569	41	10.8	3.853		3	650	10.9	3.853	
Event Time (UTC):	4	51		25				4				
Event Date (UTC): 09 July 2012	5	52	621	10	13.2	5.747		5				
Analysis Date: 09 July 2012	6	53	510	5	16.5	7.836		6				
Analyst: KS	7	54		0				7				
Stdization Date: 08 July 2012	8							8				
KIO ₃ N: 0.0121106	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0012	11							11				
THIO N: 0.14035	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	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 and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	55		45				1				
Event: 011	2	56		43			D	2				
Station: B513	3	57	196	18	10.8	3.798	41	3	505	10.8	3.788	copepod in sample.
Event Time (UTC):	4	58		10			25	4				
Event Date (UTC): 09 July 2012	5	59	557	13	13.7	6.032	10	5				
Analysis Date: 09 July 2012	6	60	559	17.9	17.9	7.546	5	6				
Analyst: KS	7	61					0	7				
Stdization Date: 08 July 2012	8							8				
KIO ₃ N: 0.0121106	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0012	11							11				
THIO N: 0.14035	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NOTE NEW BATCH IN LOG BOOK	17							17				
	18							18				
	19							19				
Notes:	20							20				
	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	62	371	37	11.3	4.458		1				
Event: 012	2	63		35				2				
Station: BS12	3	64	528	33	11.2	4.533	→	3	639	11.2	4.523	
Event Time (UTC):	4	65	622	10	12.3	5.264		4				
Event Date (UTC): 09 July 2012	5	66		5				5				
Analysis Date: 09 July 2012	6	67		0				6				
Analyst: KS	7							7				
Stdization Date: 08 July 2012	8							8				
KIO ₃ N: 0.0121106	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0012	11							11				
THIO N: 0.14035	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NOTE NEW BATCH IN LOG BOOK	17							17				
	18							18				
	19							19				
Notes:	20							20				
	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	①	69	468	45	11.1	4.014		1				
Event: 013	②	70	638	43	10.9	3.702	very small bubble under stopper	2				
Station: B511	③	71	632	41	10.8	3.751	copepods in sample.	3				
Event Time (UTC):	④	72	631	25	11.3	4.628		④	611	11.4	4.631	
Event Date (UTC): 09 July 2012	⑤	73	396	10	13.0	5.610	A bit noisy.	5				
Analysis Date: 09 July 2012	⑥	74	647	5	16.9	7.315		6				
Analyst: KS	⑦	75	657	0	18.6	7.131		7				
Stdization Date: 08 July 2012	8							8				
KIO ₃ N: 0.0121106	9							9				
Standard Titer: 0.2665	10							10				
Blank Titer: 0.0012	11							11				
THIO N: 0.14035	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
Na ₂ /NaOH	17							17				
H ₂ SO ₄	18							18				
NOTE NEW BATCH IN LOG BOOK	19							19				
THIO	20							20				
Notes:	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	76		20				1				
Event: 014	2	77	668	18	12.5	5.166		2				
Station: BS10	3	78	690	16	12.5	5.199		3				
Event Time (UTC):	4	79	708	10	12.9	5.353	-> Noisy end of titration. Check	4	712	13.1	5.360	
Event Date (UTC): 09 July 2012	5	80		50				5				
Analysis Date: 09 July 2012	6	81		0				6				
Analyst: KS	7							7				
Stdization Date: 0.0121106	8							8				
KIO ₃ N: 08 July 2012	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0012	11							11				
THIO N: 0.14035	12							12				
Sample Flask	13							13				
Water Seal? Yes	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	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 and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	①	82	552	45	9.9	4.421		1				
Event: 015	②	83	94	43	9.8	4.419		2				
Station: B526	③	84	620	41	9.8	4.424	→ small bubble under stopper	③	570	9.8	4.418	
Event Time (UTC):	④	85	569	25	10.3	4.582		4				
Event Date (UTC): 10 July 2012	⑤	86	650	10	12.1	5.126		5				
Analysis Date: 10 July 2012	⑥	87	621	5	14.8	6.370		6				
Analyst: KS	⑦	88	510	0	16.6	6.966		7				
Stdization Date: 10 July 2012	8							8				
KIO ₃ N: 0.0121272	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0023	11							11				
THIO N: 0.14072	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NOTE NEW BATCH IN LOG BOOK	17							17				
	18							18				
	19							19				
	20							20				
Notes:	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	89	196	49	10.1	4.358		1				
Event: 016	2	90	505	47	10.0	4.366		2				
Station: BS25	3	91	557	45	9.9	4.371		3				
Event Time (UTC):	4	92	559	25	10.5	4.597		4				
Event Date (UTC): 10 July 2012	5	93	371	10	13.0	5.880 →		5	528	13.1	5.875	Check end point.
Analysis Date: 10 July 2012	6	94	639	5	15.6	7.372		6				
Analyst: KS	7	95	622	0	17.4	6.828		7				
Stdization Date: 10 July 2012	8							8				
KIO ₃ N: 0.0121272	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0023	11							11				
THIO N: 0.14072	12							12				
Sample Flask ☒ Yes	13							13				
Water Seal? No	14							14				
Reagent Change? ☒ MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
	17							17				
	18							18				
NOTE NEW BATCH IN LOG BOOK	19							19				
	20							20				
Notes:	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	96	468	50	9.6	4.101	→	1	638	9.6	4.097	
Event: 017	2	97	632	48	9.5	4.136		2				
Station: B524	3	98	631	46	9.6	4.118		3				
Event Time (UTC):	4	99	611	25	10.7	4.686		4				
Event Date (UTC): 10 July 2012	5	100	396	10	11.8	4.967		5				
Analysis Date: 10 July 2012	6	101	647	5	15.8	6.516		6				
Analyst: KS	7	102	657	0	16.6	6.300		7				
Stdization Date: 10 July 2012	8							8				
KIO ₃ N: 0.0121272	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0023	11							11				
THIO N: 0.14072	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
	17							17				
NOTE NEW BATCH IN LOG BOOK	18							18				
	19							19				
Notes:	20							20				
	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	①	103	668	26	12.4	4.890		1				
Event: 018	2	104		24				2				
Station: B57	③	105	690	22	12.1	4.892		3				
Event Time (UTC):	4	106		10				4				
Event Date (UTC): 10 July 2012	⑤	107	708	5	17.3	7.948 →		⑤	712	17.6	8.18	add curve. Dancing bubble
Analysis Date: 10 July 2012	6	108		0				6				OT = much cleaner
Analyst: KS	7							7				= 0.380 (filter = 0.066)
Stdization Date: 10 July 2012	8							8				
KIO ₃ N: 0.0121272	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0023	11							11				
THIO N: 0.14072	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NaI/NaOH	17							17				
H ₂ SO ₄	18							18				
NOTE NEW BATCH IN LOG BOOK	19							19				
KIO ₃	20							20				
THIO	21							21				
Notes:	22							22				
	23							23				
	24							24				

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Water Properties Group

Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	109		44				1				
Event: 019	2	110	715	42	10.9	3.341		2				
Station: B58	3	111	745	40	10.8	3.355		3				
Event Time (UTC): 2	4	112	1414	35	11.5	4.713		4				
Event Date (UTC): 10 July 2012	5	113		10				5				
Analysis Date: 10 July 2012	6	114	1473	5	16.9	8.049 →		6	1421	17.1	8.120 ←ouch!	
Analyst: KS	7	115		0				7				
Stdization Date: 10 July 2012	8							8				
KIO ₃ N: 0.0121272	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0023	11							11				
THIO N: 0.14072	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? NaCl₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
	17							17				
NOTE NEW BATCH IN LOG BOOK	18							18				
	19							19				
Notes:	20							20				
	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	116		27				1				
Event: C120	2	117	1465	25	11.7	4.765		2				
Station: B59	3	118		23				3				
Event Time (UTC):	4	119	1464	10	13.1	5.284		4				
Event Date (UTC): 10 July 2012	5	120	1470	5	18.0	8.464	→ Very noisy - lots of phyto!	5	1459	18.1	8.547	same as dup. Difficult to get an accurate measurement with so many floaters.
Analysis Date: 10 July 2012	6	121		0				6				
Analyst: KS	7							7				
Stdization Date: 10 July 2012	8							8				
KIO ₃ N: 0.0121272	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0023	11							11				
THIO N: 0.14072	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
	17							17				
	18							18				
NOTE NEW BATCH IN LOG BOOK	19							19				
	20							20				
Notes:	21							21				
	22							22				
	23							23				
	24							24				

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* I duplicated sample #S 117-121 (sh 859 & 8516) - I added a 1 to beginning of sample #s on this cast to make them unique.

Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	1117	552	41	10.9	4.324	- large bubble under stopper	1				
Event: 021	2	1118	94	39	10.8	4.064		2				
Station: BS16	3	1119	620	37	10.8	4.113		3				
Event Time (UTC): 	④	1120	570	10	11.7	4.924	→	④	569	11.8	4.927	
Event Date (UTC): 11 July 2012	5	1121	650	5	13.7	?	- brutal curve, OT = 0.439 mL/L	5				
Analysis Date: 11 July 2012	6	122	621	0	18.5	6.842	↳ quite a few small particles in sample. Sample stirred for a few minutes during KIO ₃ Dosimat flush.	6				
Analyst: KS	7						OT was no better.	7				
Stdization Date: 10 Jul, 2012	8						Sample not trusted	8				
KIO ₃ N: 0.0121272	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0023	11							11				
THIO N: 0.14072	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NOTE NEW BATCH IN LOG BOOK	17							17				
	18							18				
	19							19				
Notes:	20							20				
	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	①	123	510	51	10.8	3.628		1				
Event: 022	②	124	196	49	10.7	3.567		2				
Station: BS17	3	125		47				3				
Event Time (UTC):	4	126		25				4				
Event Date (UTC): 11 July 2012	⑤	127	505	10	12.1	5.089	→	⑤	557	12.2	5.091	
Analysis Date: 11 July 2012	⑥	128	559	5	14.1	5.846		6				
Analyst: KS	7	129		0				7				
Stdization Date: 10 July 2012	8							8				
KIO ₃ N: 0.0121272	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0023	11							11				
THIO N: 0.14072	12							12				
Sample Flask Water Seal? <u>Yes</u>	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NaI / NaOH	17							17				
H ₂ SO ₄	18							18				
NOTE NEW BATCH IN LOG BOOK	19							19				
THIO	20							20				
Notes:	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	①	130	371	20	11.5	4.831	Very large bubble under stopper	1				
Event: 023	②	131	528	18	11.5	4.686	Noisy end of filtration.	2				
Station: B518	③	132	639	16	11.9	4.822	→	③	622	11.9	4.811	
Event Time (UTC): 11 July 2012	4	133		10				4				
Event Date (UTC): 11 July 2012	⑤	134	468	5	13.7	5.554		5				
Analysis Date: 11 July 2012	6	135		0				6				
Analyst: KS	7							7				
Stdization Date: 10 July 2012	8							8				
KIO ₃ N: 0.0121272	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0013	11							11				
THIO N: 0.14072	12							12				
Sample Flask Water Seal? Yes	13							13				
	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
	17							17				
	18							18				
	19							19				
NOTE NEW BATCH IN LOG BOOK	20							20				
	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	136	638	27	11.1	4.507		1				
Event: 024	②	137	632	25	11.1	4.495	→	②	63	11.1	4.499	
Station: B519	3	138	611	23	11.2	4.552		3				
Event Time (UTC):	4	139	396	10	12.0	5.016		4				
Event Date (UTC): 11 July 2012	5	140	647	5	15.2	6.163		5				
Analysis Date: 11 July 2012	6	141	657	0	19.4	6.766	- lots of floater. A few copepods. Noisy curve as expected.	6				
Analyst: KS	7							7				
Stdization Date: 10 July 2012	8							8				
KIO ₃ N: 0.0121272	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0023	11							11				
THIO N: 0.14072	12							12				
Sample Flask Water Seal? Yes	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NOTE NEW BATCH IN LOG BOOK	17							17				
	18							18				
	19							19				
Notes:	20							20				
	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	①	142	608	37	11.1	?	Very bad stepped curve.	1				
Event: 025	2	143		35			LOT! (0.206 mL/L) 0.038 mL	2				
Station: BS20	3	144		33			Program froze as well so	3				
Event Time (UTC):	④	145	690	25	10.9	4.432	sample left stirring for a few minutes.	④	700	10.9	4.430	
Event Date (UTC): 11 July 2012	⑤	146	712	10	12.5	5.182		5				
Analysis Date: 11 July 2012	6	147		5				6				
Analyst: KS	⑦	148	715	0	18.6	6.765		7				
Stdization Date: 10 July 2012	8							8				
KIO ₃ N: 0.0121272	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0023	11							11				
THIO N: 0.14072	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NOTE NEW BATCH IN LOG BOOK	17							17				
	18							18				
	19							19				
Notes:	20							20				
	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	⑤	149	745	20	11.8	4.899		①	1414	11.9	4.906	Check endpoint. A
Event: 026	②	150	1475	18	11.7	4.906 4.849		2				weird curve
Station: BS21	③	151	1421	16	11.7	4.835		3				
Event Time (UTC):	4	152		10				4				
Event Date (UTC): 11 July 2012	5	153		5				5				
Analysis Date: 11 July 2012	⑥	154	1465	0	17.7	6.572	noisy curve. lots of floaters	6				
Analyst: KS	7							7				
Stdization Date: 10 July 2012	8							8				
KIO ₃ N: 0.0121272	9							9				
Standard Titer: 0.8665	10							10				
Blank Titer: 0.0023	11							11				
THIO N: 0.14072	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NOTE NEW BATCH IN LOG BOOK	17							17				
	18							18				
	19							19				
Notes:	20							20				
	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	①	155	552	54	10.0	4.301	->	①	94	10.1	4.307	a redraw. bubbles in glass
Event: 027	2	156	620	52	10.0	4.300		2				were thought to be in the
Station: BS23	3	157	570	50	10.0	4.317		3				sample.
Event Time (UTC):	4	158	569	25	10.9	4.560		4				
Event Date (UTC): 12 July 2012	5	159	650	10	12.7	5.398		5				
Analysis Date: 12 July 2012	6	160	621	5	17.1	6.796		6				
Analyst: KS	7	161	510	0	18.6	7.045	Many floaters but a surprisingly clean curve.	7				
Stdization Date: 12 July 2012	8							8				
KIO ₃ N: 0.0121272	9							9				
Standard Titer: 0.8675	10							10				
Blank Titer: 0.00113	11							11				
THIO N: 0.14039	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NaI/NaOH	17							17				
H₂SO₄	18							18				
NOTE NEW BATCH IN LOG BOOK	19							19				
THIO 1201	20							20				
Notes:	21							21				
	22							22				
	23							23				
	24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Bottle #1	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	162	196	36	NA	X			1				
Event: 028	2	163	505	34	10.8	4.350		→ bottle didn't close (no sample)	2	557	10.7	4.349	→ a few very small
Station: BS22	3	164	559	32	10.6	4.334		→ bottom cap hung up on frame	3				
Event Time (UTC):	4	165	371	10	14.5	5.989		→ wrong depth. Should be 34.	4				
Event Date (UTC): 12 July 2012	5	166	528	5	16.1	6.800			5				
Analysis Date: 12 July 2012	6	167	639	0	18.5	6.836			6				
Analyst: KS	7								7				
Stdization Date: 12 July 2012	8								8				
KIO ₃ N: 0.0121272	9								9				
Standard Titer: 0.8675	10								10				
Blank Titer: 0.0013	11								11				
THIO N: 0.14039	12								12				
Sample Flask	13								13				
Water Seal? No	14								14				
Reagent Change? NaCl ₂	15								15				
(Please circle reagent that was changed prior to sampling and standardization)	16								16				
	17								17				
	18								18				
NOTE NEW BATCH IN LOG BOOK	19								19				
	20								20				
Notes:	21								21				
	22								22				
	23								23				
	24								24				

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Cruise and Analysis Information		Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number:	2012-16	1	168		48				1				
Event:	029	2	169		46				2				
Station:	B5 27	3	170	622	44	10.5	4.389		3				
Event Time (UTC):		4	171	468	25	11.1	4.630	→ Maybe early. Please check.	4	638	11.1	4.641	50
Event Date (UTC):	12 July 2012	5	172	632	10	12.6	5.468		5				
Analysis Date:	12 July 2012	6	173		5				6				
Analyst:	KS	7	174		0				7				
Stdization Date:	12 July 2012	8							8				
KIO ₃ N:		9							9				
Standard Titer:		10							10				
Blank Titer:		11							11				
THIO N:		12							12				
Sample Flask	Yes	13							13				
Water Seal?	No	14							14				
Reagent Change?	MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	16							16				
	H ₂ SO ₄	17							17				
NOTE NEW BATCH IN LOG BOOK	KIO ₃	18							18				
	THIO	19							19				
Notes:		20							20				
		21							21				
		22							22				
		23							23				
		24							24				

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Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	①	175	668	49	10.3	4.278		1				
Event: 030	2	176		47				2				
Station: B5028	3	177		45				3				
Event Time (UTC):	4	178		25				4				
Event Date (UTC): 12 July 2012	⑤	179	690	10	12.2	5.243		⑤	708	12.2	5.234	
Analysis Date: 12 July 2012	⑥	180	712	5	16.1	6.687		6				
Analyst: KS	⑦	181	715	0	18.9	6.876		7				
Stdization Date: 12 July 2012	8							8				
KIO ₃ N: 0.0121272	9							9				
Standard Titer: 0.8675	10							10				
Blank Titer: 0.0013	11							11				
THIO N: 0.14039	12							12				
Sample Flask Yes	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NaI/NaOH	17							17				
H ₂ SO ₄	18							18				
NOTE NEW BATCH IN LOG BOOK	19							19				
THIO #1201	20							20				
Notes:	21							21				
	22							22				
	23							23				
	24							24				

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* Full profile

Cruise and Analysis Information	Nisk	Sample ID	Flask 1	Depth (m)	Draw T 1 (°C)	OXY 1 (mL/L)	Comments	Nisk	Flask 2	Draw T 2 (°C)	OXY 2 (mL/L)	Comments
Cruise Number: 2012-16	1	182	745	53	10.3	4.261		1				
Event: 031	2	183	1414	51	10.0	4.281		2				
Station: BS 329	3	184	1473	49	10.0	4.305		3				
Event Time (UTC):	④	185	1421	25	10.9	4.624	→	④	1465	11.0	4.635	
Event Date (UTC): 12 July 2012	5	186	1464	10	12.1	5.181		5				
Analysis Date: 12 July 2012	6	187	1470	5	16.7	6.881		6				
Analyst: KS	7	188	1459	0	21.4	6.565		7				
Stdization Date: 12 July 2012	8							8				
KIO ₃ N: 0.0121272	9							9				
Standard Titer: 0.8675	10							10				
Blank Titer: 0.0013	11							11				
THIO N: 0.14039	12							12				
Sample Flask	13							13				
Water Seal? No	14							14				
Reagent Change? MnCl ₂	15							15				
(Please circle reagent that was changed prior to sampling and standardization)	16							16				
NOTE NEW BATCH IN LOG BOOK	17							17				
	18							18				
	19							19				
	20							20				
Notes:	21							21				
	22							22				
	23							23				
	24							24				