Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

IOS

Sperm Whale

Last Updated: July 2018

Cruise and Analysis Information	
Cruise Number:	2019-069
Event:	11
Station:	EFF03
Event Date (Local):	01Aug19
Analysis Date (Local):	01Aug19
Analyst:	TF
Stdization Date (Local):	01Aug19
KIO_3 N:	0.0117854
Standard Titer:	0.489066
Blank Titer:	0.0005516
THIO N:	0.241081
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$, NaI/NaOH, H_2SO_4, KIO_3, THIO
	None

Notes:

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			2	1416	10.5	0.614	
2			3	3010	10.4	0.711	
3			4	3114	10.4	0.993	
4			5	435	10.4	1.102	
5			6	3047	11.1	2.733	
6			7A	2025	11.5	4.423	
7			8	3180	12.4	6.654	
8			9	3173	20.3	7.475	
9							
10							In case in wrong order
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5					
6	7B	1422	11.6	4.427	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					

20	2	3	4	5	6	7 A	7 B	8	9
21	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
22	EFF03	EFF03	EFF03	EFF03	EFF03	EFF03	EFF03	EFF03	EFF03
23	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
24	Bot 1	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 6	Bot 7	Bot 8

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

IOS

Sperm Whale

Last Updated: July 2018

Cruise and Analysis Information	
Cruise Number:	2019-069
Event:	13
Station:	EFF05
Event Date (Local):	01 Aug 19
Analysis Date (Local):	01 Aug 19
Analyst:	TF
Stdization Date (Local):	01 Aug 19
KIO_3 N:	0.0117854
Standard Titer:	0.489066
Blank Titer:	0.000516
THIO N:	0.241081
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO
	None

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
1			10A	3106	10.1	1.406		1	10B	3036	10.1	1.409	
2			11	3083	~~10.0~~	1.618	10.3 changed MnCl2 dispenser	2					
3			12	3089	10.3	1.315		3	12B				
4			13A	3090	10.3	1.267		4	13B	2094	10.3	1.273	
5			14	1442	10.7	1.599		5					
6			15	3000	11.2	3.577		6					
7			16	3098	11.9	5.195		7					
8			17	3079	13.1	7.120		8					
9			18	3095		6.831	forgot to record draw T - used 19.4	9					
10								10					
11								11					
12								12					
13								13					
14								14					
15								15					
16								16					
17								17					
18								18					
19								19					

Notes:

20	10A	10B	11	12	13A	13B	14	15	16	17	18
21	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
22	EFF05	EFF05	EFF05	EFF05	EFF05	EFF05	EFF05	EFF05	EFF05	EFF05	EFF05
23	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
24	Bot 1	Bot 1	Bot 2	Bot 3	Bot 4	Bot 4	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9

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

IOS

Last Updated: July 2018

Turtle

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:	2019-069	1			19	3135	10.2	1.500		1					
Event:	15	2			20	3083	10.1	1.380		2					
Station:	EFF07	3			21A	3121	~~10.1~~	1.392	10.2 redrawn	3	21B	3164	10.2	1.393	
Event Date (Local):	01 Aug 19	4			22	3049	10.6	1.897		4					
Analysis Date (Local):	02 Aug 19	5			23	932	11.6	4.422		5					
Analyst:	TF	6			24A	3155	12.1	5.520		6	24B	3044	12.1	5.532	v. small bubble in sample B
Stdization Date (Local):	01 Aug 19	7			25	1311	14.2	8.269		7					
KIO_3 N:	0.0117854	8			26	3111	19.4	7.370		8					
Standard Titer:	0.489066	9								9					
Blank Titer:	0.0005516	10								10					
THIO N:	0.241081	11								11					
Sample Flask Water Seal?	(Yes) / No	12								12					
		13								13					
Reagent Change?	$MnCl_2$	14								14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15								15					
	H_2SO_4 none	16								16					
	KIO_3	17								17					
	THIO	18								18					

Notes:

19	20	21A	21B	22	23	24A	24B	25	26
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
EFF07	EFF07	EFF07	EFF07	EFF07	EFF07	EFF07	EFF07	EFF07	EFF07
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5	Bot 6	Bot 6	Bot 7	Bot 8

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

IOS

Turtle.

Last Updated: July 2018

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:	2019-069	1			27	3143	11.1	3.101		1					
Event:	17	2			28	620	11.3	4330		2					
Station:	EFF09	3			29A	622	12.0	5.416		3	29B	30B	12.1	5.555	~
Event Date (Local):	01Aug19	4			30	3148	13.8	8.261		4					
Analysis Date (Local):	02 Aug 19	5			31	3120	18.7	7.297		5					
Analyst:	TE J	6								6					
Stdization Date (Local):	01Aug19	7								7					
KIO_3 N:	0.0117854	8								8					
Standard Titer:	0.489066	9								9					
Blank Titer:	0.000516	10								10					
THIO N:	0.241081	11								11					
Sample Flask Water Seal?	(Yes) / No	12								12					
		13								13					
Reagent Change?	$MnCl_2$	14								14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15								15					
	H_2SO_4	16								16					
	KIO_3	17								17					
none	THIO	18								18					
Notes:		19								19					
		20			27	28	29 A	29 B	30	31					
		21			OXY	OXY	OXY	OXY	OXY	OXY					
		22			EFF09	EFF09	EFF09	EFF09	EFF09	EFF09					
		23			2019-069	2019-069	2019-069	2019-069	2019-069	2019-069					
		24			Bot 1	Bot 2	Bot 3	Bot 3	Bot 4	Bot 5					

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

IOS

Last Updated: July 2018

Turtle

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:	2019-069	1			32	3110	10.1	1.264		1					
Event:	19	2			33A	3078	10.6	2.227		2	33B	3131	10.7	2.241	"
Station:	EFF11	3			34	3029	11.6	4.131		3					
Event Date (Local):	01 Aug 19	4			35	2085	12.1	5.148		4					
Analysis Date (Local):	02 Aug 19	5			36	1459	13.7	8.197		5					
Analyst:	TF	6			37	2099	17.7	7.776		6					
Stdization Date (Local):	01 Aug 19	7								7					
KIO_3 N:	0.0117859	8								8					
Standard Titer:	0.489066	9								9					
Blank Titer:	0.0005516	10								10					
THIO N:	0.241081	11								11					
Sample Flask Water Seal?	(Yes) / No	12								12					
		13								13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$	14								14					
	NaI/NaOH	15								15					
	H_2SO_4	16								16					
	KIO_3	17								17					
	new THIO	18								18					
Notes:		19													
		20			32	33A	33B	34	35	36	37				
		21			OXY	OXY	OXY	OXY	OXY	OXY	OXY				
		22			EFF11	EFF11	EFF11	EFF11	EFF11	EFF11	EFF11				
		23			2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069				
		24			Bot 1	Bot 2	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6				

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.

Whale (of a tail)

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

IOS

Last Updated: July 2018

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:	2019-069	1			38	3074	5.4	1.479	sample on stirrer for ~5min before started	1	titration	(setting up	box files)		
Event:	30	2			~~39~~					2					
Station:	CIO 8	3			40	930	5.7	0.640		3					
Event Date (Local):	02 Aug 19	4			41	3133	5.9	0.388		4					
Analysis Date (Local):	03 Aug 19	5			42	3103	6.2	0.239		5					
Analyst:	TF	6			43A	3080	6.6	0.280	⇒	6	43B	3101	6.7	0.274	
Stdization Date (Local):	03 Aug 19	7			44	3098	7.1	0.701	*big crack in bottom of flask*	7					
KIO_3 N:	0.0117854	8			45	3079	7.2	1.222		8					
Standard Titer:	0.4889122	9			46	3095	7.7	1.668		9					
Blank Titer:	0.000605	10			47	3142	8.1	2.286		10					
THIO N:	0.241203	11			48	3084	8.5	2.923		11					
Sample Flask Water Seal?	(Yes) / No	12			49A	3086	8.9	3.419	⇒	12	49B	3088	9.0	3.412	
		13			50	3089	9.6	4.137		13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	($MnCl_2$) / NaI/NaOH / H_2SO_4 / KIO_3 / THIO	14			51	3090	10.3	4.893		14					
		15			~~52~~	2094	10.7	6.375		15					
		16			~~53~~					16					
		17			54	1442	13.1	6.861		17					
		18			55	3000	15.7	6.433		18					
Notes:		19			56	1422	17.8	5.863		19					
		20			57	3180	17.8	5.881		20					
		21								21					
		22								22					
		23								23					
		24								24					

cleaned 18Dl MIX H_2SO_4 26 June 19
↳ btl top dip 11 starting here again

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

IOS

Last Updated: July 2018

TURTLE

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: 2019-069	1								1					NO OXY
Event: 35	2			61	2099	7.9	1.604		2					
Station: Scotts2	3			62	2049	8.1	1.757		3					
Event Date (Local): 03 Aug 19	4			63	3037	8.4	2.354		4					
Analysis Date (Local): 04 Aug 19	5			64	3076	8.9	3.102		5					
Analyst: TF	6			65	3014	9.3	4.150		6	65B	3081	9.3	4.154	
Stdization Date (Local): 04 Aug 19	7			66	3110	10.2	4.836		7					
KIO_3 N: 0.0117854	8								8					NO OXY
Standard Titer: 0.489328	9			68	3078	10.9	5.057		9					
Blank Titer: 0.0006732	10			69	3131	13.1	5.744		10					
THIO N: 0.241077	11			70	3029	15.3	6.227		11					
Sample Flask Water Seal? (Yes) / No	12			71	2085	17.3	6.100		12	71B	1459	17.3	6.117	one funny point - overtitrated
	13			72	620	17.6	6.041		13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK: $MnCl_2$ / (NaI/NaOH) / H_2SO_4 / KIO_3 / THIO	14	/							14					NO OXY
	15	/							15					
	16								16					
	17								17					
	18								18					

Notes:

new NaI/NaOH = 1718 MIX 26 June 19

19					A	B				A	B
20	61	62	63	64	65	65	66	68	Scotts2	70	71	71
21	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
22	SCOTTS2	SCOTTS2	SCOTTS2	SCOTTS2	SCOTTS2	SCOTTS2	SCOTTS2	SCOTTS2	Scotts2	SCOTTS2	SCOTTS2	SCOTTS2
23	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069 #69	2019-069	2019-069	2019-069
24	Bot 2	Bot 3	Bot 4	Bot 5	Bot 6	Bot 6	Bot 7	Bot 9	Bot 10	Bot 11	Bot 12	Bot 12

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 comment

72	OXY	SCOTTS2	2019-069 Bot 13

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

IOS

Turtle.

Last Updated: July 2018

Cruise and Analysis Information	Niskin ID	Niskin Int V	Niskin Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Niskin ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2019-069	1			~~75~~					1					NO OXY
Event: 38	2			76	3018	8.7	1.485		2					
Station: HAK1	3			77	3048	9.5	2.480		3					
Event Date (Local): 03 Aug 19	4			78	3120	10.4	3.939		4					
Analysis Date (Local): 04 Aug 19	5			79	3041	11.5	4.697	cleared bubble from dispenser	5					
Analyst: TF	6								6					NO OXY
Stdization Date (Local): 04 Aug 19	7								7					
KIO_3 N: 0.0117854	8			82A	3155	14.5	5.864		8	82B	3044	14.5	5.835	did B First
Standard Titer: 0.489328	9			83	1311	~~17.6~~	15.7	6.176	9					
Blank Titer: 0.0006732	10			84	3111	~~17.5~~	16.9	6.537	10					
THIO N: 0.241077	11			~~85~~					11					NO OXY
Sample Flask Water Seal? (Yes) / No	12			86	3099	17.5	6.553		12					
	13								13					NO OXY
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK: $MnCl_2$	14								14					
NaI/NaOH	15							Did sample from Niskin 12 #2	15					
H_2SO_4	16								16					
KIO_3 none	17								17					
THIO	18								18					

Notes:

	76	77	78	79	82 A	82 B	83	84	86
19									
20	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
21	HAK1	HAK1	HAK1	HAK1	HAK1	HAK1	HAK1	HAK1	HAK1
22	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
23	Bot 2	Bot 3	Bot 4	Bot 5	Bot 8	Bot 8	Bot 9	Bot 10	Bot 12
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

Swimosaurus

IOS

Last Updated: July 2018

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:	2019-069	1			no	oxygen	→			1					
Event:	41	2			89	3046	8.5	1.564		2					
Station:	HS01	3			90	2089	8.5	1.719		3					
Event Date (Local):	03 Aug 19	4			91	371	9.0	2.163		4					
Analysis Date (Local):	04 Aug 19	5			92A	2055	9.6	2.886	⇒	5	92B	1094	9.7	2.883	
Analyst:	TF	6			93	396	10.2	4.042		6					
Stdization Date (Local):	04 Aug 19	7			no	oxygen	→			7					
KIO_3 N:	0.0117854	8			95	471	11.3	4.884		8					
Standard Titer:	0.489328	9			96	3137	13.3	5.463		9					
Blank Titer:	0.0006732	10			97	3049	16.5	6.449		10					
THIO N:	0.241077	11			no	oxygen	→			11					
Sample Flask Water Seal?	(Yes) / No	12			99	1055	17.6	6.415		12					
		13								13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$	14								14					
	NaI/NaOH	15								15					
	H_2SO_4	16								16					
	KIO_3 none	17								17					
	THIO	18								18					

Notes:

19										
20	89	90	91	92 A	92 B	93	95	96	97	99
21	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
22	MS1	MS1	MS1	MS1	MS1	MS1	MS1	MS1	MS1	MS1
23	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
24	Bot 2	Bot 3	Bot 4	Bot 5	Bot 5	Bot 6	Bot 8	Bot 9	Bot 10	Bot 12

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

IOS

Last Updated: July 2018

Whale.

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: 2019-069	1			X					1					
Event: 46	2			102	3074	7.6	1.405		2					
Station: MS4	3			103	930	7.7	1.446		3					
Event Date (Local): 04 Aug 19	4			104	3133	7.9	1.678		4					
Analysis Date (Local):	5			105	3103	9.0	1.999	Red rawt	5					
Analyst: TF	6			106A	3080	9.5	2.874	→	6	106B	3101	8.6	2.875	☺ ☺
Stdization Date (Local): 03 Aug 19	7			107	3079	9.0	2.809		7					
KIO_3 N: 0.0117854	8			108A	3095	9.2	2.845	→	8	108B	3142	9.2	2.842	☺
Standard Titer: 0.489328	9			~~109~~					9					
Blank Titer: 0.0006732	10			110A	3084	9.5	3.417	→	10	110B	3086	9.5	3.441	☹
THIO N: 0.241077 Nisk in #17	11			111	3088		4.872		11					
Sample Flask Water Seal? (Yes) / No	12			112	3089	14.3	5.883		12					
	13			113	3090	16.7	6.160		13					
Reagent Change? $MnCl_2$	14			114	2094	17.1	6.049	In case out of	14					
(Please circle reagent that was changed prior to sampling and standardization) NaI/NaOH	15							sample number	15					
NOTE NEW BATCH IN LOG BOOK H_2SO_4 NaOH	16							order	16					
KIO_3	17			111	3088	10.7		2 stir bars - retrieved 1 of them	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.

12

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Bender

Last Updated: January 2017

IOS

Cruise and Analysis Information	
Cruise Number:	2019-069
Event:	51
Station:	MS08B
Event Date (Local):	04 Aug 19
Analysis Date (Local):	05 Aug 19
Analyst:	TF
Stdization Date (Local):	03 Aug 19
KIO_3 N:	0.0117854
Standard Titer:	0.489328
Blank Titer:	0.0006732
THIO N:	0.241077
Sample Flask Water Seal?	Yes / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 / THIO — none
Notes:	

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1							
2			118	456		1.384	no temp recorded so used 5.7
3			119	3093	5.7	0.588	
4			120	3148	6.2	0.251	
5			121A	570	6.7	0.255	
6			122	3126	7.0	0.658	
7			123	510	7.3	1.075	redraw 7.3°
8			124	745	7.4	1.814	
9			125A	612	7.7	2.229	
10			126	3146	8.2	2.532	
11			127	708	8.6	3.219	
12			128	611	9.0	4.057	
13			129	3165	9.5	4.763	
14			130	3175	10.2	5.228	
15							
16			132	3002	11.3	5.750	
17			133	3190	14.4	6.248	
18			134A	309	17.8	5.902	
19							
20			136	3053	18.2	5.884	
21							
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					NO OXY
2	←	bubble	in flask		
3					
4	↖				
5	121B	3138	6.9	0.253	☺
6					
7					
8					
9	125B	2098	7.8	2.228	☺ ☺
10					
11					
12					
13					
14					
15					NO OXY
16					
17					
18	134B	3162	17.8	5.906	small bubble in flask
19					NO OXY
20					
21					NO OXY
22					
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.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

Nessie

IOS

Last Updated: July 2018

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:	2019-069	1							no oxy sample	1					
Event:	9	2			159	3046	7.3	1.147		2					
Station:	MT08B	3			160	2089	7.3	1.179		3					
Event Date (Local):	04 Aug 19	4			161	371	7.4	1.304		4					
Analysis Date (Local):	05 Aug 19	5			162A	2055	7.7	1.603	→	5	162B	1094	7.8	1.607	
Analyst:	TF	6			163	396	8.1	1.991		6					
Stdization Date (Local):	03Aug19	7			164	471	8.8	2.645		7					
KIO_3 N:	0.0117854	8			165	3137	9.3	3.435		8					
Standard Titer:	0.489328	9			166	3049	9.5	3.734		9					
Blank Titer:	0.0006732	10			167A	1055	10.5	4.505	→	10	167B	1406	10.5	4.504	☺☺
THIO N:	0.241077	11			168				no oxy sample	11					
Sample Flask Water Seal?	(Yes) / No	12			169	2060	15.1	6.103		12					
		13			170	2068	16.1	6.326		13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$	14			171	3059	16.2	6.367		14					
	NaI/NaOH	15			172	3073	16.3	6.386		15					
	H_2SO_4	16							no oxy sample	16					
	KIO_3 None	17							no oxy sample	17					
	THIO	18								18					

Notes:
Notation 11 + 12 reversed order when tripped

159	160	161	162 A	162 B	163	164	165	166	167 A	167 B	169	170	171		
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
MT08B	MT08B	MT08B	MT08B	MT08B	MT08B	MT08B	MT08B	MT08B	MT08B	MT08B	MT08B	MT08B	MT08B		
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069		
Bot 2	Bot 3	Bot 4	Bot 5	Bot 5	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	Bot 10	Bot 11/12	Bot 13	Bot 14		

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.

172 OXY MT08B 2019-069 Bot 15

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

IOS

whale

Last Updated: July 2018

Cruise and Analysis Information

Cruise Number: 2019-069
Event: 62
Station: Juan2-1
Event Date (Local): Aug 5/19
Analysis Date (Local): 6 Aug 19
Analyst: TF
Stdization Date (Local): 6 Aug 19
KIO_3 N: 0.0117854
Standard Titer: 0.4894892
Blank Titer: 0.0006988
THIO N: 0.241005

Sample Flask Water Seal? (Yes) / No

Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK
$MnCl_2$ / NaI/NaOH / (H_2SO_4) / KIO_3 / THIO

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
1								1					NO OXY
2			176	~~3074~~	9.3	2.705		2					
3			177	930	9.3	2.746		3					
4			~~178~~	3133	9.5	2.979		4					
5			179	~~3183~~ 3015	10.2	3.646	A	5	179	3080	10.2	3.656	B
6			180	3101	~~11.8~~	4.252	11.0	6					
7								7					NO OXY
8			182	3079	11.8	4.810		8					
9								9					NO OXY
10			184	3095	~~12.6~~	5.189	A 12.3 C	10	184	3142	12.3	5.185	B
11			185	3084	12.6	5.549	small bubble in flask	11					
12			186	3086	13.5	6.604		12					
13								13					NO OXY
14			188	1442	14.9	7.822		14					
15								15					NO OXY
16							started at bottle 14	16					
17							NISKIN	17					
18								18					
19													

Notes:

20	176	177	178	179 A	179 B	180	182	184 A	184 B	185	186	188
21	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
22	JUAN2	JUAN2	JUAN2	JUAN2	JUAN2	JUAN2	JUAN2	JUAN2	JUAN2	JUAN2	JUAN2	JUAN2
23	2019-069	2019-069	2019-069	2019-069	2019-06	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
24	Bot 2	Bot 3	Bot 4	Bot 5	Bot 5	Bot 6	Bot 8	Bot 10	Bot 10	Bot 11	Bot 12	Bot 14

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

IOS

Last Updated: July 2018

whale

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:	2019-069	1								1					NO OXY
Event:	64	2			191	3090	9.9	2.871	tiny bubble in flask	2					
Station:	JPS1	3			192	2094	10.3	3.312		3					
Event Date (Local):	5 Aug 19	4			193	3088	11.1	4.129	small bubbles in flask	4					
Analysis Date (Local):	6 Aug 19	5								5					NO OXY
Analyst:	TF	6			195	3000	12.6	5.757	A	6	195	1422	12.6	5.772	B
Stdization Date (Local):	6 Aug 19	7			196	3180	12.8	6.016		7					
KIO_3 N:	0.0117854	8			197	3173	12.9	6.187		8					
Standard Titer:	0.4894892	9			198	458	13.2	6.473		9					
Blank Titer:	0.0006988	10			199	3106	13.5	6.668		10					
THIO N:	0.241005	11	/	/	/	/	/	/	/	11	/	/	/	/	NO OXY
Sample Flask Water Seal?	(Yes) / No	12								12					
		13								13					
Reagent Change?	$MnCl_2$	14								14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15								15					
	H_2SO_4 none	16								16					
	KIO_3	17								17					
	THIO	18								18					

Notes:

19									
20	191	192	193	195 A	195 B	196	197	198	199
21	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
22	JPS1	JPS1	JPS1	JPS1	JPS1	JPS1	JPS1	JPS1	JPS1
23	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
24	Bot 2	Bot 3	Bot 4	Bot 6	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10

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

IOS

Bender

Last Updated: July 2018

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:	2019-069	1								1					NO OXY
Event:	70	2			203	456	9.2	2.800	small bubble in flask	2					
Station:	JPS7	3			204	3093	9.9	3.588		3					
Event Date (Local):	5 Aug 19	4			205	3148	12.0	4.961		4					
Analysis Date (Local):	6 Aug 19	5								5					NO OXY
Analyst:	TF	6			~~206~~	570	13.7		A	6	~~206~~	~~3156~~	~~13.7~~		B
Stdization Date (Local):	6 Aug 19	7	6		207	~~3126~~ 3139	~~14.0~~ 13.7		A 5.912	6 7	207 B	3138	13.7	5.921	
KIO_3 N:	0.0117854	8	7		208	~~510~~ ~~3126~~ 3145	14.0		6.248	8					
Standard Titer:	0.4894892	9	8		209	~~617~~ 510	~~16.6~~	15.1	small bubbles in flask 7.378	9					
Blank Titer:	0.0006988	10								10					NO OXY.
THIO N:	0.241005	11								11					
Sample Flask Water Seal?	(Yes) / No	12	9		210	612	16.6	7.85	small bubble in flask + curve looked funny so over titrated	12					
		13								13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$	14								14					
	NaI/NaOH	15								15					
	H_2SO_4 None	16								16					
	KIO_3	17								17					
	THIO	18								18					

Notes:

19								
20	203	204	205	207 A	207 B	208	209	210
21	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
22	JPS7	JPS7	JPS7	JPS7	JPS7	JPS7	JPS7	JPS7
23	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
24	Bot 2	Bot 3	Bot 4	Bot 6	Bot 6	Bot 7	Bot 8	Bot 9

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

IOS

Toitle

Last Updated: July 2018

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:	2019-069	1			~~213~~				no oxy sample	1					
Event:	71	2			214	2099	7.7	1.338		2					
Station:	MT05	3			215	2049	7.7	1.551		3					
Event Date (Local):	5 Aug 19	4			216	3037	8.1	1.931		4					
Analysis Date (Local):	6 Aug 19	5			217A	3076	9.0	2.852	⇒	5	217B	3014	9.1	2.852	☺ ☺ ☺
Analyst:	TF	6			218	3081	9.5	3.873		6					
Stdization Date (Local):	6 Aug 19	7			219				no oxy sample	7					
KIO_3 N:	0.0117854	8			220	3110	10.0	4.585		8					
Standard Titer:	0.4894892	9			221	3078	11.6	5.526		9					
Blank Titer:	0.0006988	10			222A	3131	15.5	6.092	⇒	10	222B	3029	15.6	6.093	☺ ☺
THIO N:	0.241005	11			223	2085	17.0	6.138		11					
Sample Flask Water Seal?	(Yes) / No	12			224	1459	17.1	6.137		12					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$	13			~~225~~				no oxy sample	13					
	NaI/NaOH	14			~~226~~				no oxy sample	14					
	H_2SO_4 none	15								15					
	KIO_3	16								16					
	THIO	17								17					
		18								18					

Notes:

214	215	216	217A	217B	218	220	221	222A	222B	223	224
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
MT05	MT05	MT05	MT05	MT05	MT05	MT05	MT05	MT05	MT05	MT05	MT05
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 2	Bot 3	Bot 4	Bot 5	Bot 5	Bot 6	Bot 8	Bot 9	Bot 10	Bot 10	Bot 11	Bot 12

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

IOS

Bender

Last Updated: July 2018

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:	2019-069	1								1					NO OXY
Event:	89	2			241	456	9.0	1.575	A	2	241	3093	9.1	1.582	B
Station:	HECS4	3			242	3148	9.3	2.062		3					
Event Date (Local):	6 Aug 19	4			243	570	10.3	3.493		4					
Analysis Date (Local):	7 Aug 19	5								5					NO OXY
Analyst:	TF	6			245	3138	11.7	4.240	A	6	245	3126	11.7	4.246	B
Stdization Date (Local):	6 Aug 19	7			246	510	12.8	4.728		7					
KIO_3 N:	0.0117854	8			247	612	13.9	5.893		8					
Standard Titer:	0.4894892	9			248	575	14.2	6.028		9					
Blank Titer:	0.0006988	10			249	745	14.3	6.050		10					
THIO N:	0.241005	11	/	/	/	/	/	/	/	11	/	/	/	/	/ NO OXY
Sample Flask Water Seal?	(Yes) / No	12	/	/	/	/	/	/	/	12	/	/	/	/	/
		13								13					
Reagent Change?	$MnCl_2$	14							Bottle 11 = slight drip	14					
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	15								15					
	H_2SO_4 none	16								16					
	KIO_3	17				*	lots of	backsuck issues with		17	both				
	THIO	18					dispensers - had to recycle			18					
Notes: ran without a box file		19						and ~~sg~~ Waste Chems. to clear line. *		19					
		20	241 A		241 B		242	243	245 A	245 B	246	247	248	249	
		21	OXY		OXY		OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	
		22	HECS4		HECS4		HECS4	HECS4	HECS4	HECS4	HECS4	HECS4	HECS4	HECS4	
		23	2019-069		2019-069		2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	
		24	Bot 2		Bot 2		Bot 3	Bot 4	Bot 6	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10	

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot ... nt ... the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

IOS

(TIME) → BENDER

Last Updated: July 2018

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: 2019-069	1								1					No oxy
Event: 92	2			253	3146	8.7	2.455	A	2	253	708	8.7	2.455	B ☺☺☺
Station: HECS7	3			254	611	9.3	3.110		3					
Event Date (Local): ~~7~~ Aug 19	4			255	3165	12.3	4.975		4					
Analysis Date (Local): 7 Aug 19	5								5					No oxy.
Analyst: TF	6			257	3175	12.7	5.171	A	6	257	3002	12.7	5.172	B ☺☺
Stdization Date (Local): 6 Aug 19	7			258	3190	13.4	5.489		7					
KIO_3 N: 0.0117854	8			259	3129	14.7	6.847		8					
Standard Titer: 0.489, 4.892	9			260	3162	14.7	7.079		9					
Blank Titer: 0.0006988	10			261	3053	14.8	7.063		10					
THIO N: 0.241005	11	/	/	/	/	/	/	/ / / / /	11	/	/	/		No oxy.
Sample Flask Water Seal? (Yes) / No	12	/	/	/	/	/	/	/ / / / /	12	/	/	/		
	13								13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK: $MnCl_2$ / NaI/NaOH / H_2SO_4 none / KIO_3 / THIO	14								14					
	15								15					
	16								16					
	17								17					
	18								18					

Notes:

changed to "new" brand $MnCl_2$ bottle (#10) dispenser - no suck back noticed

19												
20	253 A	253 B	254	255	257 A	257 B	258	259	260	261		
21	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY		
22	HECS7	HECS7	HECS7	HECS7	HECS7	HECS7	HECS7	HECS7	HECS7	HECS7		
23	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069		
24	Bot 2	Bot 2	Bot 3	Bot 4	Bot 6	Bot 6	Bot 7	Bot 8	Bot 9	Bot 10		

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

Whale

Last Updated: January 2017

Institute of Ocean Sciences
Water Properties Group

IOS

Cruise and Analysis Information	
Cruise Number:	2019-069
Event:	93
Station:	HECS8
Event Date (Local):	7 Aug 19
Analysis Date (Local):	7 Aug 19
Analyst:	JF
Stdization Date (Local):	6 Aug 19
KIO_3 N:	0.0117854
Standard Titer:	0.4894892
Blank Titer:	0.0006988
THIO N:	0.241005
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 None / KIO_3 / THIO
Notes:	

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
1							no oxy	1					
2			265	3074	8.5	2.386		2					
3			266	930	8.6	2.660		3					
4			267	3133	10.4	3.800		4					
5							no oxy	5					
6			269	3103	11.7	4.787		6					
7			270	3080	12.2	5.003		7					
8			271A	3101	13.8	6.159	→	8	271B	3079	13.8	6.158	☺ ☺
9			272	3095	14.2	6.618		9					
10			273	3142	14.3	6.404		10					
11							no oxy	11					
12							no oxy	12					
13								13					
14								14					
15								15					
16								16					
17								17					
18								18					
19													

20	265	266	267	269	270	271A	271B	272	273
21	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
22	HECS8	HECS8	HECS8	HECS8	HECS8	HECS8	HECS8	HECS8	HECS8
23	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
24	Bot 2	Bot 3	Bot 4	Bot 6	Bot 7	Bot 8	Bot 8	Bot 9	Bot 10

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

whale.

Last Updated: January 2017

IOS

Cruise and Analysis Information	
Cruise Number:	2019-069
Event:	104
Station:	Chat 3
Event Date (Local):	07 Aug 19
Analysis Date (Local):	9 Aug 19
Analyst:	TF S
Stdization Date (Local):	8 Aug 19
KIO_3 N:	0.0118243
Standard Titer:	0.4898749
Blank Titer:	0.0007081
THIO N:	0.241582
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / (KIO_3) / THIO
Notes:	

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1							
2	\		370	3074	8.5	2.498	
3			371	7130	8.5	2.695	
4			372	3133	8.7	2.885	
5							
6			374	3103	9.7	3.410	5
7			375	3080	11.7	4.516	A 11,7 C
8			376	3079	13.1	5.103	
9			377	3095	13.7	5.592	376) correct flask number 377 but "wrong" sample numbers?
10			378	3142	14.6	6.890	A
11			379	3086	16.7	7.484	
12							
13							
14							
15							
16							
17							
18							
19							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					NO OXY
2					
3					
4					
5					NO OXY
6					
7	375	3101	11,8	4.522	B
8					
9					
10	378	3084	14.7	6.886	B
11					NO OXY
12					NO OXY
13					
14					
15					
16					
17					
18					or did I just stick the sample numbers down in the wrong order ???
19					

20	21	22	23	24
370	OXY	CHAT3	2019-069	Bot 2
371	OXY	CHAT3	2019-069	Bot 3
372	OXY	CHAT3	2019-069	Bot 4
374	OXY	CHAT3	2019-069	Bot 6
375 A	OXY	CHAT3	2019-069	Bot 7
375 B	OXY	CHAT3	2019-069	Bot 7
377	OXY	CHAT3	2019-069	Bot 9
376	OXY	CHAT3	2019-069	Bot 8
378 A	OXY	CHAT3	2019-069	Bot 10
378 B	OXY	CHAT3	2019-069	Bot 10
379	OXY	CHAT3	2019-069	Bot 11

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

whale

Last Updated: January 2017

IOS

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:	2019-069	1								1					NO OXY
Event:	III	2			414	3090	7.6	2.581		2					
Station:	CH16	3			415	2094	7.6	2.537		3					
Event Date (Local):	07 Aug 19	4			416	3088	7.9	2.674		4					
Analysis Date (Local):	09 Aug 19	5			417	3000	8.7	3.105		5					
Analyst:	TF	6								6					NO OXY
Stdization Date (Local):	08 Aug 19	7			419	1432	9.5	3.702		7					
KIO_3 N:	0.0118243	8			420	3180	10.4	4.249	A	8	420	3173	10.5	4.245	B
Standard Titer:	0.4898749	9			421	458	11.2	4.713		9					
Blank Titer:	0.0007081	10			422	3106	12.5	5.268		10					
THIO N:	0.241582	11			423	3036	13.8	6.438		11					
Sample Flask Water Seal?	(Yes) / No	12			424	4116	14.8	7.610		12					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$	13	/	/	/	/	/	/	/	13	/	/	/	/	NO OXY
	NaI/NaOH	14	/	/	/	/	/	/	/	14	/	/	/	/	
	H_2SO_4	15								15					
	KIO_3 none	16								16					
	THIO	17								17					
		18								18					
Notes:		19								19					

20	414	415	416	417	419	420 A	420 B	421	422	423	424
21	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
22	CH16	CH16	CH16	CH16	CH16	CH16	CH16	CH16	CH16	CH16	CH16
23	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
24	Bot 2	Bot 3	Bot 4	Bot 5	Bot 7	Bot 8	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12

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

TURTLE

Last Updated: January 2017

Institute of Ocean Sciences
Water Properties Group

IOS

Cruise and Analysis Information	
Cruise Number:	2019-069
Event:	123
Station:	Chat1
Event Date (Local):	08 Aug 19
Analysis Date (Local):	09 Aug 19
Analyst:	TF
Stdization Date (Local):	08 Aug 19
KIO_3 N:	0.0118243
Standard Titer:	0.4898749
Blank Titer:	0.0007081
THIO N:	0.241582
Sample Flask Water Seal?	(Yes) / No
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$ / NaI/NaOH / H_2SO_4 / KIO_3 none / THIO
Notes:	

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1							
2			475	2099	8.6	2.733	
3							
4			477	2049 ~~2409~~	8.8	2.778	
5							
6			479	3037	9.5	3.361	
7							
8			481	3076	10.3	3.971	A
9							
10			483	3081	11.0	4.402	
11							
12			485	3110	12.3	5.043	
13							
14			487	3078	13.1	5.630	A
15							
16			489	3029	13.2	5.532	
17	/	/	/	/	/	/	/ / /
18							
19							
20							sampled bottle 16 up
21							
22							
23							
24							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5					
6					
7					
8	481	3014	10.3	3.972	B did B first ☺☺☺
9					
10					
11					
12					
13					
14	487	3131	13.1	5.630	B ☺☺☺☺
15					
16					
17					
18					
19					
20					
21					

22	475	477	479	481 A	481 B	483	485	487 A	487 B	489
23	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
24	CHAT1	CHAT1	CHAT1	CHAT1	CHAT1	CHAT1	CHAT1	CHAT1	CHAT1	CHAT1
	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
	Bot 2	Bot 4	Bot 6	Bot 8	Bot 8	Bot 10	Bot 12	Bot 14	Bot 14	Bot 16

Bottle integrity: First test the top vent (V) by o … is in the comments column.

Water Properties Group

Sampling Log

Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

Cruise ID: 2019-069 Station: CPF2 Event #: 169 Ship: Tully UTC Date (dd mmm yyyy): 11 Aug 2019

Niskin #	Firing #	Sample #	Rosette Oper X Target Pressure	√	Confirmed Pressure	Samples Taken / Sampler's Initials: Oxy	Nut FROZEN	Nut COOL	Sal	Chl a	HPLC	PHYTO	DIC	TOC	DOC	CDOM	O18	SPC	NH4	Comments
1		636	B-5	✓	323		X													
2		637	200	✓			X													
3		638	100	✓			X													
4		639	75	✓			X													
5		640	50	✓			XX													
6		641	40	✓			X													
7		642	30	✓			X													
8		643	20	✓			X			X										
9		644	10	✓			X X			XX										
10		645	5	✓			X													
11		646	0	✓			X			X	XX	X								
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Profile type: ROS TRM X-Niskin other?

Watchkeeper(s): SR

Bottom Depth: 328 m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start	2248	1548
Bottom	2256	
End	2313	

Positional Information

Lat: 49 ° 28.080 N
Lon: 124 ° 30.190 W

Lat: 49 ° 28.080 N
Lon: 124 ° 30.210 W

Lat: 49 ° 28.070 N
Lon: 124 ° 30.220 W

Extra comments:

Version: 25 Nov 2011

Transmissometer to be cleaned before each cast, do not use Ammonia products