Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

IOS

Last Updated: July 2018

Cruise and Analysis Information	
Cruise Number:	2019-062
Event:	1
Station:	SI
Event Date (Local):	30 Sept 2019
Analysis Date (Local):	1 OCT 2019
Analyst:	MB
Stdization Date (Local):	30 SEP 2019
KIO_3 N:	0.0119007
Standard Titer:	0.4836
Blank Titer:	0.0002
THIO N:	0.246396
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:	Bird

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1	✓	✓	1	2087	9.9	0.569	
2	✓	✓	2	2088	10.1	2.027	
3	✓	✓	3	3020	11.1	2.936	
4	✓	✓	4A	650	11.4	3.121	⇒
5	✓	✓	5	2069	11.6	3.346	
6	✓	✓	6	691	11.7	3.636	
7	✓	✓	7	1314	11.7	4.534	
8	✓	✓	8	425	11.7	4.639	
9	✓	✓	9	429	11.9	5.088	
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4	4B	2000	11.5	3.124	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

'x' in the appropriate column if either fails the integrity check and explain this in the comments column.

1	2	3	4A	4B	5	6	7	8	9
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
SI	SI	SI	SI	SI	SI	SI	SI	SI	SI
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-06	2019-	2019-(	2019-062
Bot 1	Bot 2	Bot 3	Bot 4	Bot 4	Bot 5	Bot 6	Bot	Bot	Bot 9

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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
Cruise Number:	2019-062	1	✓	✓	10	3070	10.1	3.382	
Event:	3	2	✓	✓	11	2040	10.3	3.510	
Station:	59	3	✓	✓	12	2035	10.3	3.564	
Event Date (Local):	30SEP2019	4	✓	✓	13	1019	10.3	3.561	
Analysis Date (Local):	1OCT2019	5	✓	✓	14	3075	10.4	3.588	OT
Analyst:	MB	6	✓	✓	15	3200	10.4	3.608	
Stdization Date (Local):	30SEP2019	7	✓	✓	16A	105	10.5	3.642	
KIO_3 N:	0.017,007	8	✓	✓	17	438	10.5	3.710	
Standard Titer:	0.4836	9	✓	✓	18	3008A	10.6	3.707	
Blank Titer:	0.0002	10	✓	✓	19	3108	10.6	3.711	
THIO N:	0.246396	11	✓	✓	20	2090	10.6	3.717	OT
Sample Flask Water Seal?	(Yes) / No	12	✓	✓	21	1053	10.7	3.747	
		13	✓	✓	22	1054	10.8	3.835	copepod
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$	14	X		23	3007	10.8	3.860	vent open
	NaI/NaOH	15							
	H_2SO_4	16							
	KIO_3	17							
	THIO	18							
		19							
Notes:		20							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5					
6					
7	16B	1465	10.5	3.639	
8					
9	18B	2075	10.6	3.706	
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

10 OXY 59 2019-062 Bot 1
11 OXY 59 2019-06 Bot 2
12 OXY 59 2019-062 Bot 3
13 OXY 59 2019-0 Bot 4
14 OXY 59 2019-0 Bot 5
15 OXY 59 2019-0(Bot 6
16A OXY 59 2019-(Bot
16B OXY 59 2019-0 Bot
17 OXY 59 2019-06 Bot 8
18A OXY 59 2019-0(Bot 9
18B OXY 59 2019-062 Bot 9
19 OXY 59 2019-0 Bot 1
20 OXY 59 2019-06 Bot 11
21 OXY 59 2019-0 Bot 1
22 OXY 59 2019-062 Bot 13
23 OXY 59 2019-062 Bot 14

, check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

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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:	2019-062	1			25	3046	7.5	1.726		1					
Event:	7	2			26	2089	7.4	1.811		2					
Station:	102	3			27A	371	7.6	1.807	Drawn second	3	27B	2055	7.6	1.849	Drawn first
Event Date (Local):	10CT2019	4			28	1094	7.7	1.930		4					
Analysis Date (Local):	10CT2019	5			29	396	7.9	2.259		5					
Analyst:	MB	6			30	4718	8.2	2.776		6					
Stdization Date (Local):	30SEP2019	7			31	3137	8.5	3.397		7					
KIO_3 N:	0.0119007	8			32	3049	9.5	2.879		8					
Standard Titer:	0.4836	9			33	1055	9.9	3.138		9					
Blank Titer:	0.0002	10			34	2060	10.1	3.420		10					
THIO N:	0.246396	11			35	2068	10.5	3.948	OT	11					
Sample Flask Water Seal?	(Yes) / No	12			36	1406	11.1	4.899		12					
Reagent Change?	$MnCl_2$	13			37A	3059	11.4	6.361		13	37B	3073	11.4	6.361	
(Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	NaI/NaOH	14			38	505	11.5	6.650		14					
	H_2SO_4	15								15					
	KIO_3	16								16					
	THIO	17								17					
		18								18					

25	26	27A	27B	28	29	30	31	32	33	34	35	36	37A	37B	38
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
2019-0(	2019-0	2019-0	2019-(	2019-(	2019-	2019.	2019-06	2019-(	2019-(	2019-06	2019-(	2019-(	2019-0	2019-06	2019-062
Bot 1	Bot 2	Bot 3	Bot	Bot	Bot	Bot 6	Bot 7	Bot	Bot 9	Bot 10	Bot	Bot 12	Bot 1	Bot 13	Bot 14

Bottle integrity: First test the top vent (V) by opening the ver spigot (S) the ...t by opening the ...n the appropriate ...lumn 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

Cruise and Analysis Information	
Cruise Number:	2019-062
Event:	10
Station:	75
Event Date (Local):	01 OCT 2019
Analysis Date (Local):	1 OCT 2019
Analyst:	MB
Stdization Date (Local):	30 Sep 2019
KIO_3 N:	0.0119087
Standard Titer:	0.4836
Blank Titer:	0.0002
THIO N:	0.246396
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
1			39	3158	8.0	1.598	
2			40A	439	7.9	1.610	⇒
3			41	3117	8.0	1.669	
4			42	2007	8.0	1.747	
5			43	3192	8.2	2.154	
6			44	3094	8.2	2.458	
7			45	3033	8.0	2.199	
8			46	3065	9.6	2.728	
9			47	3062	~~10.1~~	3.309	
10			48A	3054	10.3	3.615	⇒ OT
11			49	2092	10.7	4.356	
12			50	3032	11.1	5.552	
13			51	3116	11.2	5.921	
14			52	3009	11.3	5.862	
15							
16							
17							
18							
19							
20							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2	48B	3199	8.0	1.609	
3					
4					
5					
6		—			
7					
8					
9					
10	48B	2047	~~10.3~~	3.603	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

39 OXY 75 2019-0(Bot 1
40A OXY 75 2019-0(Bot 2
40B OXY 75 2019-(Bot
42 OXY 75 2019- Bot
43 OXY 75 2019-(Bot
44 OXY 75 2019-(Bot
45 OXY 75 2019-(Bot
46 OXY 75 2019-0(Bot 8
47 OXY 75 2019-(Bot
48A OXY 75 2019-0 Bot 1
48B OXY 75 2019- Bot
49 OXY 75 2019-0 Bot 1
50 OXY 75 2019-0 Bot 1
51 OXY 75 2019-0(Bot 13
52 OXY 75 2019-062 Bot 14
41 OXY 75 2019-062 Bot 3

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the vent. Mar opriate colum he 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

Cruise and Analysis Information	
Cruise Number:	2019-062
Event:	14
Station:	72
Event Date (Local):	1 Oct 2019
Analysis Date (Local):	1 OCT 2019
Analyst:	MB
Stdization Date (Local):	30 Sept 2019
KIO_3 N:	0.011907
Standard Titer:	0.4836
Blank Titer:	0.0002
THIO N:	0.246396
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

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			53A	2099	8.1	1.491	
2			54	3037	8.0	1.490	
3			55	3076	8.0	1.488	
4			56A	3014	7.9	1.490	
5			57	3110	8.2	1.685	
6			58	3078	8.9	2.400	
7			59	3131	9.5	2.816	
8			60	3029	9.6	2.950	
9			61	2085	10.0	3.318	
10			62	1459	10.3	3.644	
11			63	622	10.3	3.753	
12			64	620	10.5	4.089	
13			65	3018	10.8	4.392	
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	53B	2049	8.2	1.488	
2					
3					
4	56B	3081	8.0	1.495	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

53A OXY 72 2019-0 Bot 1

53B OXY 72 2019-0(Bot 1

54 OXY 72 2019-06 Bot 2

55 OXY 72 2019-06 Bot 3

56A OXY 72 2019-062 Bot 4

56B OXY 72 2019-06 Bot 4

57 OXY 72 2019-(Bot

58 OXY 72 2019-0(Bot 6

59 OXY 72 2019-(Bot 7

60 OXY 72 2019- Bot

61 OXY 72 2019-0 Bot 9

62 OXY 72 2019-0 Bot 1

63 OXY 72 2019-0(Bot 11

64 OXY 72 2019-0(Bot 12

65 OXY 72 2019-062 Bot 13

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

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Water Properties Group

IOS

Last Updated: July 2018

Cruise and Analysis Information	
Cruise Number:	2019-062
Event:	17
Station:	69
Event Date (Local):	10 Oct 2019
Analysis Date (Local):	10 OCT 2019
Analyst:	MB
Stdization Date (Local):	30 SEP 2019
KIO_3 N:	0.0119007
Standard Titer:	0.1836
Blank Titer:	0.0002
THIO N:	0.246396
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			67	3158	7.9	1.426	
2			68	439	8.0	1.439	
3			69A	3199	8.0	1.469	
4			70A	2007	8.3	1.832	
5			71	3094	8.7	2.208	
6			72	3033	9.6	3.178	
7			73	3065	9.7	3.277	
8			74	3062	9.8	3.331	
9			75	3054	9.9	3.458	
10			76	2047	10.1	3.560	
11			77	2092	10.1	3.592	
12			78	3032	10.3	3.680	
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	69B	3117	8.0	1.476	
4	70B	3992	8.3	1.835	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

67 OXY 69 2019-062 Bot 1
68 OXY 69 2019-06 Bot 2
69A OXY 69 2019-062 Bot 3
69B OXY 69 2019-0 Bot 3
70A OXY 69 2019-062 Bot 4
70B OXY 69 2019-(Bot
71 OXY 69 2019-06 Bot 5
72 OXY 69 2019-06 Bot 6
73 OXY 69 2019-06 Bot 7
74 OXY 69 2019-06 Bot 8
75 OXY 69 2019-06 Bot 9
76 OXY 69 2019-06 Bot 10
77 OX 69 2019-(Bot 1
78 OXY 69 2019-062 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

Cruise and Analysis Information	
Cruise Number:	2019-062
Event:	Z0
Station:	ADCP
Event Date (Local):	10 OCT 2019
Analysis Date (Local):	02 OCT
Analyst:	NZ
Stdization Date (Local):	30 SEPT
KIO_3 N:	0.0119007
Standard Titer:	0.4836
Blank Titer:	0.0002
THIO N:	0.246396
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:	flasks not H_2O sealed

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			79	3009	8.5	1.808	
2			80	2043	8.5	1.852	
3			81	2032	9.1	2.504	
4			82	2016	9.7	3.048	
5			83	2015	9.9	3.223	
6			84	2019	10.3	3.540	
7			85A	3109	10.4	3.598	
8			86	2027	10.6	3.724	
9			87	3100	11.0	4.139	
10			88	1429	11.0	4.301	
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5					
6					
7	85B	3072	10.4	3.598	OT - late endpoint
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

the integrity check and explain this in the comments column.

79 OXY ADCP 2019-062 Bot 1

80 OXY ADCP 2019-062 Bot 2

81 OXY ADCP 2019-062 Bot 3

82 OXY ADCP 2019-062 Bot 4

83 OXY ADCP 2019-062 Bot 5

84 OXY ADCP 2019-062 Bot 6

85A OXY ADCP 2019-062 Bot 7

85B OXY ADCP 2019-062 Bot 7

86 OXY ADCP 2019-062 Bot 8

87 OXY ADCP 2019-062 Bot 9

88 OXY ADCP 2019-062 Bot 10

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group

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Last Updated: July 2018

Cruise and Analysis Information	
Cruise Number:	2019-062
Event:	24
Station:	65
Event Date (Local):	02 Oct 2019
Analysis Date (Local):	20 Oct 2019
Analyst:	MB
Stdization Date (Local):	20 Oct 2019
KIO_3 N:	0.011957
Standard Titer:	0.4836
Blank Titer:	0.0001
THIO N:	0.246238
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
1			89A	2099	9.4	2.712	
2			90	3037	9.9	3.100	
3			91	3076	10.1	3.258	
4			92	3014	10.6	3.673	
5			93	3081	10.7	3.718	
6			94	3110	10.9	3.926	OT
7			95	3078	11.1	4.080	
8			96	3131	11.1	4.074	
9			97	3029	11.1	4.086	
10			98	2085	11.1	4.091	
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	89B	2049	9.4	2.708	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

89A	89B	90	91	92	93	94	95	96	97	98
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
65	65	65	65	65	65	65	65	65	65	65
2019-062	2019-06	2019-06	2019-06	2019-0	2019-	2019-	2019-0	2019-0	2019-062	2019-062
Bot 1	Bot 1	Bot 2	Bot 3	Bot	Bot	Bot	Bot 7	Bot	Bot 9	Bot 10

Bottle integrity: First test the top vent ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) 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

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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:	2019-62	1			103	3041	9.4	2.607		1					
Event:	28	2			104A	620	9.9	3.093	→	2	104B	3018	9.9	3.092	OT
Station:	62	3			105	3048	10.3	3.503		3					
Event Date (Local):	02OCT	4			106	3120	10.5	3.673		4					
Analysis Date (Local):	2OCT2019	5			107	622	10.6	3.757		5					
Analyst:	YMB	6			108	3044	10.6	3.752		6					
Stdization Date (Local):	2OCT2019	7			109	3155	10.6	3.768		7					
KIO_3 N:	0.0119007	8			110A	3111	10.7	3.846	→	8	110B	1311	10.7	3.849	
Standard Titer:	0.4836	9			111	3099	10.7	3.872		9					
Blank Titer:	0.0001	10			112	3143	10.7	3.924		10					
THIO N:	0.246238	11			113	3093	10.7	3.943		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					
	THIO	18								18					

Notes:

103 OXY 62 2019-06 Bot 1
104A OXY 62 2019-0(Bot 2
104B OXY 62 2019-062 Bot 2
105 OXY 62 2019-0 Bot 3
106 OXY 62 2019-0 Bot 4
107 OXY 62 2019-0 Bot
108 OXY 62 2019-0 Bot
109 OXY 62 2019-06 Bot 7
110A OXY 62 2019-06 Bot 8
110B OXY 62 2019-0 Bot
111 OXY 62 2019-06 Bot 9
112 OXY 62 2019-0(Bot 1(
113 OXY 62 2019-062 Bot 11

Bottle integ 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
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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:	2019-062	1			114	3158	10.7	3.514		1					
Event:	33	2			115	439	10.7	3.513		2					
Station:	56	3			116A	3199	10.7	3.530	⇒	3	116B	3117	10.7	3.533	
Event Date (Local):	02 OCT	4			117	2007	10.7	3.538		4					
Analysis Date (Local):	2 OCT 2019	5			118	3192	10.8	3.583		5					
Analyst:	MB	6			119	3094	10.9	3.691		6					
Stdization Date (Local):	2 OCT 2019	7			120	3033	11.1	3.858		7					
KIO_3 N:	0.0119007	8			121	3065	11.2	3.924		8					
Standard Titer:	0.4836	9			122A	3062	11.3	4.015	⇒	9	122B	3054	11.3	4.025	
Blank Titer:	0.0001	10			123	2047	11.3	4.039		10					
THIO N:	0.2416238	11			124	2092	11.4	4.073		11					
Sample Flask Water Seal?	(Yes) / No	12			125	3032	11.5	4.081		12					
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	13			126	3116	11.7	4.103		13					
		14			127	3009	12.0	4.257		14					
		15								15					
		16								16					
		17								17					
		18								18					
		19								19					
		20								20					
		21								21					
		22								22					
		23								23					
		24								24					

114 OXY 56 2019-0 Bot 1
115 OXY 56 2019-06 Bot 2
116A OXY 56 2019-062 Bot 3
116E OXY 56 2019-0 Bot
117 OXY 56 2019-06 Bot 4
118 OXY 56 2019-0 Bot
119 OXY 56 2019-0 Bot 6
120 OXY 56 2019-06 Bot 7
121 OXY 56 2019-0 Bot
122A OXY 56 2019-06 Bot 9
122 OXY 56 2019-0 Bot 9
123 OXY 56 2019-0 Bot 1
124 OXY 56 2019- Bot
125 OXY 56 2019-062 Bot 12
126 OXY 56 2019-0 Bot 1
127 OXY 56 2019-062 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

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Water Properties Group

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Cruise and Analysis Information	
Cruise Number:	2019-062
Event:	42
Station:	46
Event Date (Local):	2 Oct 2019
Analysis Date (Local):	2 Oct 2019
Analyst:	MB
Stdization Date (Local):	2 Oct 2019
KIO_3 N:	0.0119007
Standard Titer:	0.4836
Blank Titer:	0.0001
THIO N:	0.246238
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			128	2099	10.3	2.988	
2			129	2047	10.5	3.149	
3			130A	3037	10.8	3.435	
4			131	3014	10.9	3.532	
5			132	3081	11.1	3.716	
6			133A	3110	11.2	3.907	
7			134	3131	11.2	4.023	
8			135	3029	11.6	4.360	
9			136	2085	11.7	4.634	
10			137	1459	12.3	4.829	
11			138	3041	13.0	5.390	
12			139	620	13.5	6.137	
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	130B	3076	10.8	3.433	
4					
5					
6	133B	3078	11.2	3.906	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

128 OXY 46 2019-062 Bot 1
129 OXY 46 2019-0 ot 2
130A OXY 46 2019-0 Bot 3
130B OXY 46 2019-0 Bot 3
131 OXY 46 2019-0 Bot 4
132 OXY 46 2019- Bot
133A OXY 46 2019-06 Bot 6
133B OXY 46 2019-06 Bot 6
134 OXY 46 2019-06 Bot 7
135 OXY 46 2019- Bot
136 OXY 46 2019-06 Bot 9
137 OXY 46 2019-0 Bot 1
138 OXY 46 2019-0 Bot 1
139 OXY 46 2019-062 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

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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:	2019-062	1			140	3150	10.1	2.838		1					
Event:	46	2			141A	439	10.1	2.857		2	141B	3199	10.1	2.854	
Station:	42	3			142	3117	10.1	2.898		3					
Event Date (Local):	2 OCT 2019	4			143A	2007	10.2	2.981		4	143B	3192	10.2	2.985	OT
Analysis Date (Local):	30 OCT 2019	5			144	3094	10.3	3.031		5					
Analyst:	MB	6			145	3033	10.4	3.078		6					
Stdization Date (Local):	2 OCT 2019	7			146	3065	10.5	3.108		7					
KIO_3 N:	0.0119007	8			147	3062	10.5	3.077		8					
Standard Titer:	0.4836	9			148	3054	10.9	3.473		9					
Blank Titer:	0.0001	10			149	2047	11.0	3.645		10					
THIO N:	0.2416238	11			150	2092	11.1	3.784		11					
Sample Flask Water Seal?	(Yes) / No	12			151	3032	11.5	3.934		12					
		13			152	3116	11.8	4.086		13					
Reagent Change?	$MnCl_2$	14	x		153	3009	13.0	5.495	leaky cap	14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15			154	2043	13.3	5.964		15					
	H_2SO_4	16			155	2032	13.4	6.006		16					
NOTE NEW BATCH IN LOG BOOK	KIO_3	17								17					
		24								24					

Nc	140	141A	141B	142	143A	143B	144	145	146	147	148	149	150	151	152	153	154	155
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
	2019-06	2019-0(	2019-(	2019-06	2019-0(	2019-06	2019-0(	2019-0	2019-06	2019-0	2019-0(	2019-06	2019-06	2019-(	2019-0	2019-(	2019-0	2019-062
	Bot 1	Bot 2	Bot	Bot 3	Bot 4	Bot 4	Bot 5	Bot	Bot 7	Bot	Bot 9	Bot 10	Bot 11	Bot 1	Bot 1	Bot 1	Bot 1	Bot 16

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 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
Cruise Number:	2019-062	1			157	2099	10.2	2.846	
Event:	52	2			158	2049	10.2	2.885	
Station:	39	3			159	3037	10.2	2.924	CT
Event Date (Local):	03 OCT	4			160	3076	10.2	2.951	
Analysis Date (Local):	3 OCT 2019	5			161	3014	10.3	2.981	
Analyst:	MB	6			162	3081	10.3	2.987	
Stdization Date (Local):	2 OCT 2019	7			163	3110	10.4	3.069	
KIO_3 N:	0.0119007	8			164	3078	10.4	3.028	
Standard Titer:	0.4836	9			165	3131	10.5	3.101	
Blank Titer:	0.0001	10			166	3029	10.7	3.209	
THIO N:	0.2416238	11			167	2085	10.5	3.299	
Sample Flask Water Seal?	(Yes) / No	12			168A	1459	10.8	3.417	
		13			169	620	11.1	3.523	
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization) NOTE NEW BATCH IN LOG BOOK	$MnCl_2$	14			170	3018	12.6	4.983	
	NaI/NaOH	15			171	3048	13.1	5.881	
	H_2SO_4	16			172	3120	13.3	6.108	CT
	KIO_3	17			173A	622	12.7	6.418	
	THIO	18							

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					
9					
10					
11					
12	168B	3041	10.8	3.435	
13					
14					
15					
16					
17	173B	3044	12.8	6.416	sampled first
18					

157	158	159	160	161	162	163	164	165	166	167	168A	168B	169	170	171	172	173A	173B
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
2019-06	2019-06	2019-06	2019-0	2019-0	2019-0	2019-0	2019-0	2019-0	2019-	2019-0	2019-0	2019-0	2019-0	2019-06	2019-0	2019-	2019-062	2019-062
Bot 1	Bot 2	Bot 3	Bot	Bot	Bot 6	Bot	Bot 8	Bot	Bot	Bot 1	Bot 1	Bot 1	Bot	Bot 14	Bot 1	Bot	Bot 17	Bot 17

24 24

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

Dissolved Oxygen Analysis Log Sheet

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Cruise and Analysis Information	
Cruise Number:	2019-062
Event:	59
Station:	27
Event Date (Local):	03 OCT 2019
Analysis Date (Local):	30 OCT 2019
Analyst:	MB
Stdization Date (Local):	20 OCT 2019
KIO_3 N:	0.0119007
Standard Titer:	0.4836
Blank Titer:	0.0001
THIO N:	0.241638
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
1			178	3046	10.1	2.891	
2			179	2089	10.1	2.980	
3			180	371	10.1	2.974	
4			181	2055	10.4	2.994	
5			182A	1094	10.4	3.005	→
6			183A	471	10.5	3.007	→
7			184	3049	10.6	3.011	
8			185	1055	10.8	3.099	
9			186	2060	10.5	3.205	
10			187	2068	10.7	3.319	
11			188	1406	11.1	3.629	
12			189	3059	11.7	4.001	
13			190	3073	12.2	4.428	
14			191	505	13.1	5.570	
15			192	3057	13.1	5.995	
16			193	3030	12.9	6.109	
17			194	2065	13.0	6.109	
18							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1					
2					
3					
4					
5	182B	396	10.5	3.010	
6	183B	3137	10.5	3.018	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					

178 OXY 27 2019-062 Bot 1
179 OXY 27 2019- Bot
180 OXY 27 2019-0(Bot 3
181 OXY 27 2019-0(Bot 4
182A OXY 27 2019-0 Bot 5
182B OXY 27 2019-062 Bot 5
183A OXY 27 2019-06 Bot 6
183B OXY 27 2019-0 Bot 6
184 OXY 27 2019-06 Bot 7
185 OXY 27 2019-0(Bot 8
18(OXY 27 2019- Bot
187 OXY 27 2019-0 Bot 10
18(OXY 27 2019-0(Bot 11
189 OXY 27 2019-0 Bot
190 OXY 27 2019-0 Bot 1
191 OXY 27 2019-06 Bot 14
192 OXY 27 2019-06 Bot 15
193 OXY 27 2019-062 Bot 16
194 OXY 2019-062 27 BOT 17

Bottle integrity: First test the top vent (V) by opening the lower spigot (S) then test the spigot by opening the ve... n if either ... the i... and explai... omments column.

Dissolved Oxygen Analysis Log Sheet

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Last Updated: July 2018

Cruise and Analysis Information	
Cruise Number:	2019-062
Event:	76
Station:	14
Event Date (Local):	04 OCT 2019
Analysis Date (Local):	04 OCT 2019
Analyst:	N2
Stdization Date (Local):	03 OCT 2019
KIO_3 N:	0.0119007
Standard Titer:	0.4836
Blank Titer:	0.0001
THIO N:	0.246238
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			218	3046	9.7	2.817	
2			219	2089	9.7	2.942	
3			220	371	9.7	2.961	
4			221	2055	9.6	2.898	
5			222	1094	9.9	2.914	
6			223	396	9.9	2.888	
7			224	471	9.8	2.843	
8			225	3137	9.9	3.000	
9			226	3049	10.1	3.250	
10			227A	1055	10.2	3.306	
11			228	2063	10.7	3.760	
12			229	1406	10.9	4.279	
13			230	3059	11.0	4.555	
14			231	3073	11.2	5.060	
15			232A	505	11.3	5.234	
16							
17							
18							
19							
20							
21							

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					
9					
10	227B	2060	10.2	3.301	
11					
12					
13					
14					
15	232B	3057	11.3	5.225	sampled first
16					
17					
18					
19					
20					
21					
22					

Bottle

218 OXY 14 2019-062 Bot 1	219 OXY 14 2019-062 Bot 2	220 OXY 14 2019-062 Bot 3	221 OXY 14 2019-062 Bot 4	222 OXY 14 2019-062 Bot 5	223 OXY 14 2019-062 Bot 6	224 OXY 14 2019-062 Bot 7	225 OXY 14 2019-06 Bot 8	226 OXY 14 2019-062 Bot 9	227A OXY 14 2019-06 Bot 10	227B OXY 14 2019-06 Bot 10	228 OXY 14 2019-062 Bot 11	229 OXY 14 2019-062 Bot 12	230 OXY 14 2019-062 Bot 13	231 OXY 14 2019-062 Bot 14	232A OXY 14 2019-06 Bot 15	232B OXY 14 2019-062 Bot 15

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Cruise and Analysis Information

- Cruise Number: 2019-062
- Event: 73
- Station: 16
- Event Date (Local): 3 Oct 2019
- Analysis Date (Local): 4 Oct 2019
- Analyst: MB
- Stdization Date (Local): 4 Oct 2019
- KIO_3 N: 0.019007
- Standard Titer: 0.4834
- Blank Titer: 0.0001
- THIO N: 0.246257
- 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

Note…

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			203	2099		2.936	
2			204	2049	9.7	2.937	
3			205	3037	9.8	2.872	
4			206	3076	9.9	3.139	
5			207	3014	10.1	3.402	
6			208A	3081	10.1	3.416	
7			209	3078	10.1	3.459	
8			210	3131	10.2	3.482	
9			211	3029	10.3	3.707	
10			212	2085	10.5	3.983	
11			213A	1459	10.5	4.020	
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					
2					
3					
4					
5					
6	208B	3110	10.1	3.407	
7					
8					
9					
10					
11	213B	3041	10.5	4.015	
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

203 OXY 16 2019-06 Bot 1

204 OXY 16 2019-0 Bot 2

205 OXY 16 2019-062 Bot 3

206 OXY 16 2019-0 Bot 4

207 OXY 16 2019-0 Bot 5

208A OXY 16 2019-0 Bot 6

208B OXY 16 2019- Bot

209 OXY 16 2019-0 Bot

210 OXY 16 2019-062 Bot 8

211 OXY 16 2019-0 Bot 9

212 OXY 16 2019-0 Bot 1

213A OXY 16 2019-0 Bot 1

213B OXY 16 2019-062 Bot 11

…egrity. F… vent (V) b… sp… (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

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Last Updated: July 2018

Cruise and Analysis Information	
Cruise Number:	2019-062
Event:	79
Station:	12
Event Date (Local):	04 OCT 2019
Analysis Date (Local):	4 OCT 2019
Analyst:	MS
Stdization Date (Local):	3 OCT 2019
KIO_3 N:	0.0119007
Standard Titer:	0.4834
Blank Titer:	0.0001
THIO N:	0.246257
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:	Shark

Nisk ID	Nisk Int V	Nisk Int S	Sample ID	Flask 1	Draw T 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments
1			233A	3158	9.8	2.871	→
2			234A	3199	9.7	2.877	→
3			235	2007	9.8	2.947	
4			236	3192	9.7	2.938	
5			237	3094	9.7	2.954	
6			238	3033	9.7	2.971	
7			239	3065	9.9	2.912	
8			240	3062	10.0	2.87	
9			241	3054	10.0	2.938	
10			242	2047	10.1	3.108	
11			243	2092	10.5	3.283	
12			244	3032	10.8	3.508	
13			245	3116	12.1	5.182	
14			246	3009	12.8	5.842	
15			247	2043	12.8	5.928	
16			248	2032	12.8	5.959	
17							
18							
19							
20							

Nisk ID	Sample ID	Flask 2	Draw T 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1	233B	439	9.8	2.869	
2	234B	3117	9.7	2.877	
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Bottle integrity: First test the top vent (V

mments column.

233A OXY 12 2019-0(Bot 1
233B OXY 12 2019-0(Bot 1
234A OXY 12 2019-06 Bot 2
234B OXY 12 2019-(Bot
235 OXY 12 2019-062 Bot 3
236 OXY 12 2019-0(Bot 4
237 OXY 12 2019-06 Bot 5
238 OXY 12 2019-06 Bot 6
239 OXY 12 2019-(Bot
240 OXY 12 2019-0(2019-062 Bot 16
241 OXY 12 2019-06 Bot 9
242 OXY 12 2019-0(Bot 10
243 OXY 12 2019-0(Bot 1
244 OXY 12 2019-062 Bot 12
245 OXY 12 2019-062 Bot 13
246 OXY 12 2019-062 Bot 14
247 OXY 12 2019-062 Bot 15
248 OXY 12 2019-062 Bot 16