

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

CRUISE and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-01						1								1					
Event:	01						2							2						
Station:	SI 03						3	✓✓	3	2016	9.7	-	stinky ANOxic	3						
Event Date (Local):	8/2/20						4	✓✓	4	3173	9.6	-	" ANOxic	4						
Analysis Date (Local):	9 FEB 2020						5							5						
Analyst:	MB						6							6						
Stdization Date (Local):	9 FEB 2020						7							7						
KIO ₃ N:	0.018057						8							8						
Standard Titer:	0.4855						9							9						
Blank Titer:	0.0009						10							10						
THIO N:	0.245654						11	✓✓	11	3116	9.5	0.428		11						
Sample Flask Water Seal?	Yes						12							12						
	No						13							13						
Reagent Change?	MnCl ₂						14	✓✓	14	3090	9.3	1.490		14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15	✓✓	15	2015	9.1	2.693		15						
	H ₂ SO ₄						16	✓✓	16	3036	9.0	3.567		16						
NOTE NEW BATCH IN LOG BOOK	KIO ₃						17	✓✓	17	1422	8.9	4.151		17						
	THIO						18	✓✓	18	712	9.0	3.912		18						
Notes:							19	✓✓	19	1416	8.8	4.780		19						
							20	✓✓	20	2094	8.4	5.440		20						
							21							21						
							22							22						
							23													

Bottle integrity	3	4	11	14	15	16	17	18	19	20
	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
	SI03	SI03	SI03	SI03	SI03	SI03	SI03	SI03	SI03	SI03
	2020-001	2020-001	2020-001	2020-00	2020-0	2020-00	2020-001	2020-00	2020-001	2020-001
	185 m	165 m	110 m	97 m	90 m	85 m	75 m	60 m	40 m	20 m
	bot 3	bot 4	bot 11	bot 14	bot 1	bot 1	bot 17	bot 18	bot 19	bot 20

her fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-01						1	✓	✓	23	305A	8.9	5.882		1					
Event:	02						2	✓	✓	24	2025	8.5	5.892		2					
Station:	59						3	✓	✓	A25	1408	8.4	5.872		3	25B	3010	8.4	5.869	
Event Date (Local):	8 Feb 2019						4	✓	✓	26	450	8.4	5.849		4					
Analysis Date (Local):	9 Feb 2019						5	✓	✓	27	1442	8.3	5.850		5					
Analyst:	MB						6	✓	✓	28	3038	8.3	5.858		6					
Stdization Date (Local):	9 Feb 2019						7	✓	✓	29	3162	8.3	5.855		7					
KIO ₃ N:	0.0119007						8	✓	✓	30	3094	8.3	5.851		8					
Standard Titer:	0.4855						9	✓	✓	31	3143	8.3	5.849		9					
Blank Titer:	0.0009						10	✓	✓	32	3175	8.3	5.860		10					
THIO N:	0.245651						11	✓	✓	A33	570	8.3	5.865		11	33B	3144	8.3	5.870	
Sample Flask Water Seal?	Yes						12	✓	✓	34	3121	8.3	5.871		12					
	No						13			35	—				13					
Reagent Change?	MnCl ₂						14							14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						15							15						
	H ₂ SO ₄						16							16						
NOTE NEW BATCH IN LOG BOOK	KIO ₃						17							17						
	THIO						18							18						
Notes:							19							19						
							20							20						
							21							21						
							22							22						
							23													

23	24	25A	25B	26	27	28	29	30	31	32	33A	33B	34
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
59	59	59	59	59	59	59	59	59	59	59	59	59	59
2020-00	2020-00	2020-00	2020-00	2020-00	2020-00	2020-00	2020-00	2020-00	2020-00	2020-00	2020-00	2020-00	2020-00
Bot-5 m	200 m	150 m	150 m	100 m	75 m	50 m	40 m	30 m	20 m	10 m	5 m	5 m	0 m
bot 1	bot 2	bot 3	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 1	bot 11	bot 11	bot 12

check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2020-001	1		42	2016	9.4	4.436		1					
Event: 12	2		43	3173	9.7	6.287		2					
Station: P1	3		44A	3116	9.3	6.528		3	44B	3090	9.3	6.527	
Event Date (Local): 9 FEB 2020	4							4					
Analysis Date (Local): 10 FEB 2020	5							5					
Analyst: MB	6							6					
Stdization Date (Local): 9 FEB 2020	7							7					
KIO ₃ N: 0.0119007	8							8					
Standard Titer: 0.4855	9							9					
Blank Titer: 0.0009	10							10					
THIO N: 0.248654	11							11					
Sample Flask Water Seal? Yes	12							12					
No	13							13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NaI/NaOH	16							16					
H ₂ SO ₄	17							17					
NOTE NEW BATCH IN LOG BOOK	18							18					
KIO ₃	19							19					
THIO	20							20					
Notes:	21							21					
	22							22					
	23							23					
	24							24					

42	43	44A	44B
OXY	OXY	OXY	OXY
P1	P1	P1	P1
2020-001	2020-001	2020-001	2020-001
Bot-10 m	30 m	5 m	5 m
bot 1	bot 2	bot 3	bot 3

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2020-001	1	VV	57	3036	8.6	2.764		1					
Event: 15	2							2					
Station: P2	3	VV	59A	422	8.6	2.927		3	59B	712	8.6	2.935	
Event Date (Local): 9 FEB 2020	4	VV	60	416	9.5	6.014		4					
Analysis Date (Local): 10 FEB 2020	5	VV	61	294	9.5	6.033		5					
Analyst: MB	6	VV	62	3054	9.6	6.172		6					
Stdization Date (Local): 9 FEB 2020	7							7					
KIO ₃ N: 0.0119007	8	VV	64A	205	9.3	6.150		8	64B	1468	9.3	6.147	
Standard Titer: 0.4855	9	VV	65	3010	8.9	6.755		9					
Blank Titer: 0.0009	10	VV	66	458	8.8	6.763		10					
THIO N: 0.245654	11							11					
Sample Flask Water Seal? ☒ Yes ☐ No	12							12					
Reagent Change? MnCl ₂	13							13					
(Please circle reagent that was changed prior to sampling and standardization)	14							14					
NOTE NEW BATCH IN LOG BOOK	15							15					
	16							16					
	17							17					
	18							18					
Notes:	19							19					
	20							20					
	21							21					
	22							22					
	23							23					

Bottle integrity: First test the top vent (V)

57	59A	59B	60	61	62	64A	64B	65	66
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
P2	P2	P2	P2	P2	P2	P2	P2	P2	P2
2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001
100 m	100 m	100 m	75 m	75 m	50 m	25 m	25 m	10 m	5 m
bot 1	bot 3	bot 3	bot 4	bot 5	bot 6	bot 8	bot 8	bot 9	bot 10

ents column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2020-001						1	✓	88A	456	4.8	0.555		1	88B	2098	4.6	0.546	
Event:	18						2	✓	89	611	4.5	0.485		2					
Station:	P4						3	✓	90	3029	4.5	0.461		3					
Event Date (Local):	9 FEB 2020						4	✓	91	2007	5.0	0.248		4					
Analysis Date (Local):	10 FEB 2020						5	✓	92	3041	5.7	0.248		5					
Analyst:	MB						6	✓	93	3155	5.9	0.424		6					
Stdization Date (Local):	9 FEB 2020						7	✓	94	3120	6.5	1.206		7					
KIO ₃ N:	0.0119067						8	✓	95	622	7.1	1.743		8					
Standard Titer:	0.4855						9	✓	96A	3044	7.3	1.545		9	96B	3101	7.3	1.545	106B OXY P4 2020-001 5 m bot 19
Blank Titer:	0.009						10	✓	97	3078	7.8	3.619		10					
THIO N:	0.245654						11	✓	98	3048	8.1	3.429		11					
Sample Flask Water Seal?	Yes No						12	✓	99	3131	8.3	3.453		12					
Reagent Change?	MnCl ₂						13	✓	100	3079	8.2	4.102		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH						14	✓	101	3142	8.7	5.712		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄						15	✓	102A	2065	9.1	6.527		15	102B	3133	9.1	6.543	106A OXY P4 2020-001 5 m bot 19
	KIO ₃						16	✓	103	3158	9.2	6.533		16					
	THIO						17	✓	104	3005	9.2	6.606		17					
Notes:	DINO						18	✓	105	2049	9.2	6.615		18					
							19	✓	106A	1406	9.3	6.605		19	106B	3037	9.3	6.608	105 OXY P4 2020-001 10 m bot 18
							20							20					
							21							21					
							22							22					
							23							23					

88A	88B	89	90	91	92	93	94	95	96A	96B	97	98	99	100	101	102A	102B
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4	P4
2020-001	2020-00	2020-001	2020-001	2020-00	2020-001	2020-00	2020-001	2020-00	2020-001	2020-00	2020-00	2020-001	2020-00	2020-001	2020-001	2020-001	2020-001
Bot-10 m	Bot-10 m	1250 m	1250 m	1000 m	800 m	600 m	400 m	300 m	250 m	250 m	200 m	175 m	150 m	125 m	100 m	75 m	75 m
bot 1	bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 9	bot 9	bot 1	bot 11	bot 12	bot 13	bot 14	bot 15	bot 15

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information							OXY-1 Comments					OXY-2 Comments				
	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)		Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)				
Cruise Number: 2020-001	1	✓✓	148	2016	4.0	1.425		1								
Event: 28	2	✓✓	149	3173	4.1	0.655		2								
Station: P8	3	✓✓	150	3116	4.4	0.397		3								
Event Date (Local): Feb 10, 2020	4	✓✓	151	3090	4.9	0.764		4								
Analysis Date (Local): 11 FEB 2020	5	✓✓	152A	2015	5.3	0.292		5	152B	3036	5.3~	0.274				
Analyst: MKB	6	✓✓	153	1422	5.9	0.453		6								
Stdization Date (Local): 11 FEB 2020	7	✓✓	154	712	6.1	1.526		7								
KIO ₃ N: 0.0119m7	8	✓✓	155	1416	6.6	2.362		8								
Standard Titer: 0.4855	9	✓✓	156	2094	7.1	3.131		9								
Blank Titer: 0.0009	10	✓✓	157	3054	7.4	3.825		10								
THIO N: 0.245674	11	✓✓	158	2025	7.5	4.774		11								
Sample Flask Water Seal? Yes	12	✓✓	159	1408	8.0	5.601		12								
No	13	✓✓	160	3010	8.9	6.588		13								
Reagent Change? MnCl ₂	14	✓✓	161	458	9.0	6.595		14								
(Please circle reagent that was changed prior to sampling and standardization)	15	✓✓	162	1442	9.0	6.603		15								
NOTE NEW BATCH IN LOG BOOK	16	✓✓	163	3038	9.0	6.600		16								
	17	✓✓	164A	3132	9.0	6.590		17	164B	3094	9.0	6.596				
	18	✓✓	165	3143	9.0	6.601		18								
Notes:	19	✓✓	166	3175	9.0	6.608		19								
	20	✓✓	167	570	9.0	6.619	OT	20								
	21	✓✓	168A	3144	9.0	6.623		21	168B	3121	9.0	6.622				
	22	✓✓	169	3192	9.0	6.626		22								
	23	✓✓	170	3083	9.0	6.621	OT	23								
150 OXY P8 2020-001 1250 m bot 3	151 OXY P8 2020-001 1000 m bot 4	152A OXY P8 2020-001 800 m bot 5	152B OXY P8 2020-001 800 m bot 5	153 OXY P8 2020-001 600 m bot 6	155 OXY P8 2020-001 300 m bot 8	154 OXY P8 2020-001 400 m bot 7	156 OXY P8 2020-001 250 m bot 9	157 OXY P8 2020-001 200 m bot 10	158 OXY P8 2020-001 150 m bot 11	159 OXY P8 2020-001 100 m bot 12	160 OXY P8 2020-001 75 m bot 13	161 OXY P8 2020-001 60 m bot 14	162 OXY P8 2020-001 50 m bot 15	163 OXY P8 2020-001 50 m bot 16	164A OXY P8 2020-001 40 m bot 17	164B OXY P8 2020-001 40 m bot 17

Notes:

Sample Flask Water Seal? Yes
No

Reagent Change? MnCl₂
NaI/NaOH
H₂SO₄
KIO₃
THIO

(Please circle reagent that was changed prior to sampling and standardization)
NOTE NEW BATCH IN LOG BOOK

148	149	150	151	152A	152B	153	155	154	156	157	158	159	160	161	162	163	164A	164B
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8	P8
2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001
2000 m	1500 m	1250 m	1000 m	800 m	800 m	600 m	300 m	400 m	250 m	200 m	150 m	100 m	75 m	60 m	50 m	50 m	40 m	40 m
bot 1	bot 2	bot 3	bot 4	bot 5	bot 5	bot 6	bot 8	bot 7	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14	bot 15	bot 16	bot 17	bot 17

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information	Nisk ID	Nisk Int VS	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2020-001	1							1					
Event: 37	2	✓	199	2016	3.8	2.984		2					
Station: P12	3	✓	200	3173	3.2	2.250		3					
Event Date (Local): 11 Feb 2020	4	✓	201	3116	3.1	2.266		4					
Analysis Date (Local): 12 Feb 2020	5	✓	202A	3090	3.3	1.915	→	5	202B	2015	3.4	1.932	
Analyst: MS	6	✓	203	3036	3.4	1.466		6					
Stdization Date (Local): 11 Feb 2020	7	✓	204	1422	3.9	0.752		7					
KIO ₃ N: 0.0119007	8	✓	205	712	4.2	0.393		8					
Standard Titer: 0.4855	9	✓	206	1416	4.6	0.291		9					
Blank Titer: 0.0009	10	✓	207A	2094	4.2	5.2	→ 0.266	10	207B	3054	5.2	0.270	
THIO N: 0.245674	11	✓	208	2025	5.6	0.570		11					
Sample Flask Water Seal? Yes	12	✓	209	1408	5.9	1.572		12					
No	13	✓	210	3010	6.4	2.488		13					
Reagent Change? MnCl ₂	14	✓	211A	458	6.8	3.316	→	14	211B	1442	6.9	3.327	
(Please circle reagent that was changed prior to sampling and standardization)	15	✓	212	3038	7.1	3.760		15					
NaI/NaOH	16	✓	213	3162	7.3	4.191	OT	16					
H ₂ SO ₄	17	✓	214	3094	7.3	4.583		17					
NOTE NEW BATCH IN LOG BOOK	18	✓	215	3143	7.5	5.100		18					
KIO ₃	19	✓	216	3175	8.1	6.343		19					
THIO	20	✓	217A	570	8.2	6.583	→	20	217B	344	8.3	6.573	
Notes: SHARK	21	✓	218	3121	8.3	6.642	OT	21					
	22	✓	219	3192	8.3	6.652		22					
	23	✓	220	3083	8.3	6.653	OT	23					

199
OXY
P12
2020-001
Bot-10 m
bot 2

200
OXY
P12
2020-001
3000 m
bot 3

201
OXY
P12
2020-001
3000 m
bot 4

202A
OXY
P12
2020-001
2500 m
bot 5

202B
OXY
P12
2020-001
2500 m
bot 5

21 3164 8.3 6.651 OT
lower spigot (S) then test the spigot by opening the v

207A
OXY
P12
2020-001
800 m
bot 10

207B
OXY
P12
2020-001
800 m
bot 10

208
OXY
P12
2020-001
600 m
bot 11

209
OXY
P12
2020-001
400 m
bot 12

210
OXY
P12
2020-001
300 m
bot 13

211A
OXY
P12
2020-001
250 m
bot 14

211B
OXY
P12
2020-001
250 m
bot 14

212
OXY
P12
2020-001
200 m
bot 15

213
OXY
P12
2020-001
175 m
bot 16

214
OXY
P12
2020-001
150 m
bot 17

221
OXY
P12
2020-001
5 m
bot 24

220
OXY
P12
2020-001
10 m
bot 23

219
OXY
P12
2020-001
25 m
bot 22

218
OXY
P12
2020-001
50 m
bot 21

217B
OXY
P12
2020-001
75 m
bot 20

217A
OXY
P12
2020-001
75 m
bot 20

216
OXY
P12
2020-001
100 m
bot 19

215
OXY
P12
2020-001
125 m
bot 18

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last 302A OXY P16 2020-001 25 m bot 22

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	301	OXY	P16	2020-001	25 m	bot 22
Cruise Number: 2020-001	1	V	281	2016	3.2	2.695	1 Magnets → had to recover with forceps	1											
Event: 46	2	V	282	3173	3.1	2.663		2											
Station: P16	3	V	283	3116	3.1	2.656		3											
Event Date (Local): 12 Feb 2020	4	V	284	3090	3.3	2.366		4											
Analysis Date (Local): 13 Feb 2020	5	V	285A	2015	3.4	1.816	→	5	285B	3036	3.5	1.811							
Analyst: MB	6	V	286	1422	3.5	1.274		6											
Stdization Date (Local): 13 Feb 2020	7	V	287	712	4.0	0.540		7											
KIO ₃ N: 0.01907	8	V	288A	1416	4.2	0.339	→	8	288B	2094	4.4	0.332							
Standard Titer: 0.4849	9	V	289	3054	4.8	0.246		9											
Blank Titer: 0.009	10	V	290	2025	5.3	0.238		10											
THIO N: 0.245754	11	V	291	1408	5.7	0.432		11											
Sample Flask Water Seal? Yes	12	V	292	3010	6.1	1.472		12											
No	13	V	293	458	6.4	2.641		13											
Reagent Change? MnCl ₂	14	V	294A	1492	6.7	3.007	→	14	294B	3038	6.8	2.999	BOTTOM CAP						
(Please circle reagent that was changed prior to sampling and standardization)	15	V	295	3162	7.2	4.674		15											
NOTE NEW BATCH IN LOG BOOK	16	V	296	3094	7.2	4.684	OT	16											
	17	V	297	3143	7.1	5.000		17											
	18	V	298	3175	7.5	5.483		18											
Notes:	19	V	299	570	8.2	6.575		19											
	20	V	300	3144	8.5	6.566		20											
	21	V	301	3121	8.5	6.621		21											
	22	V	302A	3192	8.5	6.637	→	22	302B	3083	8.6	6.634							
	23	V	303	3164	8.5	6.626		23											
	24	V	304	612	8.5	6.628													

281	282	283	284	285B	286	287	288A	288B	289	290	291	292	293	294A
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16	P16
2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001
Bot-10 m	3500 m	3500 m	3000 m	2500 m	2000 m	1500 m	1250 m	1250 m	1000 m	800 m	600 m	400 m	300 m	250 m
bot 1	bot 2	bot 3	bot 4	bot 5	bot 6	bot 7	bot 8	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14

337A
OXY
P20
2020-001
Bot-10 m
bot 1

337B
OXY
P20
2020-001
Bot-10 m
bot 1

338
OXY
P20
2020-001
3500 m
bot 2
339
OXY
P20
2020-001
3500 m
bot 3
340
OXY
P20
2020-001
3000 m
bot 4
341
OXY
P20
2020-001
2500 m
bot 5

342A
OXY
P20
2020-001
2000 m
bot 6
342B
OXY
P20
2020-001
2000 m
bot 6
343
OXY
P20
2020-001
1500 m
bot 7
344
OXY
P20
2020-001
1250 m
bot 8

345
OXY
P20
2020-001
1000 m
bot 9

346A
OXY
P20
2020-00
800 m
bot 10
346B
OXY
P20
2020-001
800 m
bot 10
347
OXY
P20
2020-001
600 m
bot 11
348
OXY
P20
2020-001
400 m
bot 12

349
OXY
P20
2020-001
300 m
bot 13
350
OXY
P20
2020-001
250 m
bot 14
351
OXY
P20
2020-00
200 m
bot 15
352
OXY
P20
2020-001
175 m
bot 16

353
OXY
P20
2020-001
150 m
bot 17
354
OXY
P20
2020-001
125 m
bot 18
355
OXY
P20
2020-001
100 m
bot 19

Dissolved Oxygen Analysis Log Sheet
Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information							OXY-1 Comments							OXY-2 Comments						
Cruise and Analysis Information							OXY-1 Comments							OXY-2 Comments						
Cruise Number: 2020-001							→ OT x3							BAD DUP (Because of 3x OT?)						
Event: 57																				
Station: P20																				
Event Date (Local): 14 Feb 2020																				
Analysis Date (Local): 17 Feb 2020																				
Analyst: MB							→													
Stdization Date (Local): 17 Feb 2020							OT													
KIO ₃ N: 0.0119007																				
Standard Titer: 0.4853																				
Blank Titer: 0.0009							→													
THIO N: 0.245647																				
Sample Flask Water Seal? Yes																				
Reagent Change? MnCl ₂																				
(Please circle reagent that was changed prior to sampling and standardization)																				
NOTE NEW BATCH IN LOG BOOK																				
LOG BOOK																				
THIO																				
Notes: SHARK																				

ie lower spidot (S) then test the spi

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments	
Cruise Number:	2020-001	1		488	3134	5.8	1.218							1						
Event:	68	2		489A	1059	6.1	2.012							2	489B	1059	6.1	2.000		
Station:	P35	3		490	3021	6.3	2.452							3						
Event Date (Local):	16 FEB 2020	4		491	3104	6.6	3.065							4						
Analysis Date (Local):	17 FEB 2020	5		492	3170	6.7	3.728							5						
Analyst:	MB	6		493	3150	6.9	4.363							6						
Stdization Date (Local):	17 FEB 2020	7		494	639	7.6	6.581							7						
KIO ₃ N:	0.0119007	8		495	3036	7.7	6.757							8						
Standard Titer:	0.4853	9		496	3034	7.7	6.765							9						
Blank Titer:	0.0009	10		497	2084	7.7	6.710							10						
THIO N:	0.245647	11												11						
Sample Flask Water Seal?	Yes	12		499A	1002	7.7	6.785							12	499B	3035	7.8	6.787		
	No	13		500	647	7.8	6.785	sampled or vent opened.						13						
Reagent Change?	MnCl ₂	14		501	3061	7.7	6.766							14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15												15						
	H ₂ SO ₄	16		503	673	7.7	6.753							16						
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17												17						
	THIO	18												18						
Notes:		19												19						
		20												20						
		21												21						
		22												22						
		23												23						

OCTOPUS

488 OXY P35 2020-001 400 m bot 1	489A OXY P35 2020-001 300 m bot 2	489B OXY P35 2020-001 300 m bot 2	490 OXY P35 2020-001 250 m bot 3	491 OXY P35 2020-001 200 m bot 4	492 OXY P35 2020-001 175 m bot 5	493 OXY P35 2020-001 150 m bot 6	494 OXY P35 2020-001 125 m bot 7	495 OXY P35 2020-001 100 m bot 8	496 OXY P35 2020-001 75 m bot 9	497 OXY P35 2020-001 50 m bot 10	499A OXY P35 2020-001 25 m bot 12	499B OXY P35 2020-001 25 m bot 12	500 OXY P35 2020-001 10 m bot 13	501 OXY P35 2020-001 5 m bot 14	503 OXY P35 2020-001 0 m bot 16
---	--	--	---	---	---	---	---	---	--	---	--	--	---	--	--

comments column.

517
OXY
P26
2020-001
Bot-10 m
bot 1
518
OXY
P26
2020-002
4000 m
bot 2
519A
OXY
P26
2020-003
3500 m
bot 3
519B
OXY
P26
2020-004
3500 m
bot 3
520
OXY
P26
2020-005
3000 m
bot 4
521
OXY
P26
2020-006
2500 m
bot 5

540B	OXY	P26	2020-001	5 m	bot 24	540A	OXY	P26	2020-001	5 m	bot 24	539	OXY	P26	2020-001	10 m	bot 23	538	OXY	P26	2020-001	25 m	bot 22	537	OXY	P26	2020-001	50 m	bot 21	536	OXY	P26	2020-001	75 m	bot 20	535	OXY	P26	2020-001	100 m	bot 19	534	OXY	P26	2020-001	125 m	bot 18
------	-----	-----	----------	-----	--------	------	-----	-----	----------	-----	--------	-----	-----	-----	----------	------	--------	-----	-----	-----	----------	------	--------	-----	-----	-----	----------	------	--------	-----	-----	-----	----------	------	--------	-----	-----	-----	----------	-------	--------	-----	-----	-----	----------	-------	--------

Dissolved Oxygen
Institute of Ocean Sciences
Water Properties Group



Cruise and Analysis Information							Nisk ID	Nisk Int VS	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2020-001	1	✓	✓	517	557	3.1	3.146	7 MANGERS, FISHED 1 OUT.	1									
Event:	71	2	✓	✓	518	2014	2.7	3.179		2									
Station:	P26	3	✓	✓	519A	339	2.8	2.884		3	519R	658	2.8	2.867					
Event Date (Local):	16 FEB 2020	4	✓	✓	520	730	2.8	2.421		4									
Analysis Date (Local):	18 FEB 2020	5	✓	✓	521	3051	3.1	1.838	OT	5									
Analyst:	MB	6	✓	✓	522A	1035	3.3	1.182	OT	6	522B	931	3.3	1.171					
Stdization Date (Local):	17 FEB 2020	7	✓	✓	523	3040	3.7	0.528		7									
KIO ₃ N:	0.0119007	8	✓	✓	524	3076	4.0	0.344		8									
Standard Titer:	0.4853	9	✓	✓	525A	1472	4.2	0.376		9	525B	3118	4.3	0.381					
Blank Titer:	0.0009	10	✓	✓	526	1402	4.7	0.561		10									
THIO N:	0.245642	11	✓	✓	527	3028	5.1	0.756		11									
Sample Flask Water Seal?	Yes	12	✓	✓	528	2056	5.6	1.561		12									
	No	13	✓	✓	529	3067	5.7	2.511		13									
Reagent Change?	MnCl ₂	14	X	✓	530	3068	6.0	3.107		14									
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15	✓	✓	531	3013	6.3	3.966		15									
	H ₂ SO ₄	16	✓	✓	532	1418	6.4	4.508		16									
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17	✓	✓	533	1457	6.9	5.291		17									
	THIO	18	✓	✓	534	1023	7.4	6.262		18									
Notes:		19	✓	✓	535	3075	7.7	6.713		19									
		20	✓	✓	536	437	7.8	6.777		20									
		21	✓	✓	537	1432	7.8	6.805		21									
		22	✓	✓	538	3051	7.8	6.827		22									
		23	✓	✓	539	528	7.9	6.812		23									
		24	✓	✓	540A	1401	7.8	6.818		24	540R	3055	7.8	6.809	No water Seal				

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.

522A	OXY	P26
2020-001		
2000 m		
bot 6		
522B	OXY	P26
2020-000		
2000 m		
bot 6		
523	OXY	P26
2020-000		
1500 m		
bot 7		
524	OXY	P26
2020-000		
1250 m		
bot 8		
525A	OXY	P26
2020-000		
1000 m		
bot 9		
525B	OXY	P26
2020-000		
1000 m		
bot 9		
526	OXY	P26
2020-000		
800 m		
bot 10		
527	OXY	P26
2020-000		
600 m		
bot 11		
528	OXY	P26
2020-000		
400 m		
bot 12		

533
OXY
P26
2020-001
150 m
bot 17
532
OXY
P26
2020-001
175 m
bot 16
531
OXY
P26
2020-001
200 m
bot 15
530
OXY
P26
2020-001
250 m
bot 14
529
OXY
P26
2020-001
300 m
bot 13

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2020-01	1	✓	✓	580A	3050	7.5	6.940		1	580B	3091	7.4	6.932						
Event: 80	2			581A	1407	7.3	6.935		2	581B	3047	7.3	6.932						
Station: PA-013	3			582A	3194	7.4	6.924		3	582B	3114	7.4	6.932						
Event Date (Local): 16 FEB 2020	4			583A	621	7.3	6.931		4	583B	620	7.3	6.932						
Analysis Date (Local): 18 FEB 2020	5								5										
Analyst: HPS	6								6										
Stdization Date (Local): 18 FEB 2020	7								7										
KIO ₃ N: 0.019007	8								8										
Standard Titer: 0.4853	9								9										
Blank Titer: 0.009	10								10										
THIO N: 0.254642	11								11										
Sample Flask Water Seal? ☒ Yes ☐ No	12								12										
Reagent Change? MnCl ₂	13								13										
(Please circle reagent that was changed prior to sampling and standardization)	14								14										
NOTE NEW BATCH IN LOG BOOK	15								15										
	16								16										
	17								17										
	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.

580A

PA-013

2020-001

15 m

bot 1

580B

PA-013

2020-001

15 m

bot 1

581A

PA-013

2020-001

10 m

bot 2

581B

PA-013

2020-001

10 m

bot 2

582A

PA-013

2020-001

5 m

bot 3

582B

PA-013

2020-001

5 m

bot 3

583A

PA-013

2020-001

0 m

bot 4

583B

PA-013

2020-001

0 m

bot 4

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information						Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2020-001	1		709	3134	7.3	4.387						1					
Event:	96	2											2					
Station:	CHAT3	3		711	1059	7.2	5.963						3					
Event Date (Local):	20Feb2020	4		712	1054	7.1	6.749						4					
Analysis Date (Local):	22Feb2022	5		713	3021	7.0	6.112						5					
Analyst:	CR	6											6					
Stdization Date (Local):	21Feb2020	7		715A	3104	7.0	6.812						7	715B	3170	7.0	6.813	
KIO ₃ N:	0.0119007	8		716	3150	6.9	6.814						8					
Standard Titer:	0.4853	9		717	639	6.8	6.817						9					
Blank Titer:	0.007	10		718	3056	6.5	6.815						10					
THIO N:	0.745665	11		719	3034	6.4	6.898						11					
Sample Flask Water Seal?	Yes	12											12					
	No	13											13					
Reagent Change?	MnCl ₂	14											14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15											15					
	H ₂ SO ₄	16											16					
NOTE NEW BATCH IN LOG BOOK	KIO ₃	17											17					
	THIO	18											18					
Notes:		19											19					
		20											20					
		21											21					
		22											22					
		23											23					

OCTOPUS

709	711	712	713	715A	715B	716	717	718	719
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
CHAT3	CHAT3	CHAT3	CHAT3	CHAT3	CHAT3	CHAT3	CHAT3	CHAT3	CHAT3
2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001
Bot-5 m	100 m	75 m	50 m	30 m	30 m	20 m	10 m	5 m	0 m
bot 1	bot 3	bot 4	bot 5	bot 7	bot 7	bot 8	bot 9	bot 10	bot 11

er fails the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2020-001							1		761	1002	7.3	5.547		1					
Event: 101							2							2					
Station: CH16							3		763	3035	7.3	5.716	small bubble	3					
Event Date (Local): Feb 20, 2020							4		764A	647	7.7	6.679		4	764B	3061	7.2	6.683	
Analysis Date (Local): Feb 22, 2020							5		765	673	7.1	6.767		5					
Analyst: DC							6		766	2063	7.0	6.773	over titrate due to bubbly	6					
Stdization Date (Local): Feb 21, 2020							7							7					
KIO ₃ N: 0.0119007							8		768	3028	7.0	6.766		8					
Standard Titer: 0.4853185							9		769	631	7.0	6.705	-correct flask volume	9					
Blank Titer: 0.0007							10		770	3125	7.0	6.793	↳ USED WRONG FLASK	10					
THIO N: 0.245665							11		771	657	6.9	7.295	over titrate x 2	11					
Sample Flask Water Seal? ☒ Yes							12		772	638	6.9	8.833	over titrate x 5	12					
							13						↳ WINDOW WAS BLOCKED BY FLASK NUMBER	13					
Reagent Change? MnCl ₂							14							14					
(Please circle reagent that was changed prior to sampling and standardization)							15							15					
NaI/NaOH							16							16					
H ₂ SO ₄							17							17					
NOTE NEW BATCH IN LOG BOOK							18							18					
KIO ₃							19							19					
THIO							20							20					
Notes:							21							21					
OCTOPUS							22							22					
							23							23					

761	763	764A	764B	765	766	768	769	770	771	772
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
CH16	CH16	CH16	CH16	CH16	CH16	CH16	CH16	CH16	CH16	CH16
2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001
Bot-5 m	150 m	100 m	100 m	75 m	50 m	30 m	20 m	10 m	5 m	0 m
bot 1	bot 3	bot 4	bot 4	bot 5	bot 6	bot 8	bot 9	bot 10	bot 11	bot 12

fills the integrity check and explain this in the comments column.

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2020-01	1	✓✓	800	456	7.1	3.033		1					
Event: 104	2							2					
Station: 14 ECS8	3	✓✓	802	2098	7.1	5.863		3					
Event Date (Local): 20 Feb 2020	4	✓✓	803	611	6.8	6.926		4					
Analysis Date (Local): 22 Feb 2020	5	✓✓	804	3029	6.7	6.925		5					
Analyst: MB	6							6					
Stdization Date (Local): 21 Feb 2020	7	✓✓	806	2007	6.7	6.924		7					
KIO ₃ N: 0.01190057	8	✓✓	807	3041	6.7	6.917		8					
Standard Titer: 0.4853	9	✓✓	808	3155	6.7	6.940		9					
Blank Titer: 0.0007	10	✓✓	809A	3120	6.6	6.935		10	809B	622	6.7	6.928	
THIO N: 0.245665	11	✓	810	3044	6.7	6.939		11					
Sample Flask Water Seal? Yes	12							12					
	13							13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15							15					
NaI/NaOH	16							16					
H ₂ SO ₄	17							17					
NOTE NEW BATCH IN LOG BOOK	18							18					
KIO ₃	19							19					
THIO	20							20					
Notes: DIND BOX	21							21					
	22							22					
	23							23					
	24							24					

800 OXY HECS8 2020-001 Bot-5 m bot 1	802 OXY HECS8 2020-00 100 m bot 3	803 OXY HECS8 2020-001 75 m bot 4	804 OXY HECS8 2020-001 50 m bot 5	806 OXY HECS8 2020-00 30 m bot 7	807 OXY HECS8 2020-001 20 m bot 8	808 OXY HECS8 2020-001 10 m bot 9	809A OXY HECS8 2020-00 5 m bot 10	809B OXY HECS8 2020-001 5 m bot 10	810 OXY HECS8 2020-001 0 m bot 11
---	--	--	--	---	--	--	--	---	--

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

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information							Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2020-01	1		88	3078	7.3	6.893								1					
Event: 106	2													2					
Station: HECS 7	3		820A	3048	7.2	6.894								3	820B	3131	7.2	6.896	
Event Date (Local): 20 Feb 2020	4		821	3079	7.2	6.900								4					
Analysis Date (Local): 22 Feb 2020	5		822	3142	7.2	6.896								5					
Analyst: MB	6													6					
Stdization Date (Local): 21 Feb 2020	7		824	2065	7.3	6.891								7					
KIO ₃ N: 0.0119007	8		825	3133	7.3	6.899								8					
Standard Titer: 0.4853	9		826	3158	7.2	6.895								9					
Blank Titer: 0.0007	10		827	3005	7.2	6.897								10					
THIO N: 0.245665	11		828	2049	7.2	6.915								11					
Sample Flask Water Seal? Yes	12													12					
	13													13					
Reagent Change? MnCl ₂	14													14					
(Please circle reagent that was changed prior to sampling and standardization)	15													15					
NaI/NaOH	16													16					
H ₂ SO ₄	17													17					
NOTE NEW BATCH IN LOG BOOK	18													18					
KIO ₃	19													19					
THIO	20													20					
Notes:	21													21					
Lock NIS	22													22					
	23													23					
	24													24					

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

818 OXY HECS7 2020-001 Bot-5 m bot 1

820A OXY HECS7 2020-001 100 m bot 3

820B OXY HECS7 2020-001 100 m bot 3

821 OXY HECS7 2020-001 75 m bot 4

822 OXY HECS7 2020-001 50 m bot 5

824 OXY HECS7 2020-001 30 m bot 7

825 OXY HECS7 2020-001 20 m bot 8

826 OXY HECS7 2020-001 10 m bot 9

827 OXY HECS7 2020-001 5 m bot 10

828 OXY HECS7 2020-001 0 m bot 11

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information	Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number: 2020-001	1		887	3050	7.5	6.510		1					
Event: 112	2							2					
Station: CHAT 1	3		889	3091	7.4	6.506		3					
Event Date (Local): 21 FEB 2020	4							4					
Analysis Date (Local): 22 FEB 2020	5		891A	1407	7.4	6.577		5	891B	3047	7.4	6.571	
Analyst: MB	6							6					
Stdization Date (Local): 21 FEB 2020	7		893	3194	7.3	6.658		7					
KIO ₃ N: 0.0119007	8							8					
Standard Titer: 0.4853	9		895	3114	7.3	6.702		9					
Blank Titer: 0.0007	10							10					
THIO N: 0.245665	11		897	621	7.3	6.706		11					
Sample Flask Water Seal? ☒ Yes ☐ No	12							12					
	13		899	620	7.3	6.727		13					
Reagent Change? MnCl ₂	14							14					
(Please circle reagent that was changed prior to sampling and standardization)	15		901	3106	7.2	6.727		15					
NOTE NEW BATCH IN LOG BOOK	16							16					
	17		903	3096	7.1	6.729		17					
	18							18					
Notes:	19							19					
	20							20					
	21							21					
	22							22					
	23							23					
	24							24					

887	889	891A	891B	893	895	897	899	901	903
OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY	OXY
CHAT1	CHAT1	CHAT1	CHAT1	CHAT1	CHAT1	CHAT1	CHAT1	CHAT1	CHAT1
2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-001	2020-00	2020-001
Bot-5 m	100 m	75 m	75 m	50 m	30 m	20 m	10 m	5 m	0 m
bot 1	bot 3	bot 5	bot 5	bot 7	bot 9	bot 11	bot 13	bot 15	bot 17

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