

1

OXY

SI

2021-021

20 m

bot 1

2A

OXY

SI

2021-021

10 m

bot 2

2B

OXY

SI

2021-021

10 m

bot 2

3

OXY

SI

2021-021

5 m

bot 3

4

OXY

SI

2021-021

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:	2021-021			1		1	900	19.7	4.563		1					
Event:	1			2		2A	901	10.9	4.552		2	2B	902	18.8	4.570	
Station:	SI			3		3	903	14.2	6.884		3					
Event Date (Local):	2021-06-16			4		4	904	14.8	7.088		4					
Analysis Date (Local):	16 Jun 2021			5							5					
Analyst:	MB			6							6					
Standardization Date (Local):	16 Jun 21			7							7					
IO ₃ N:	0.0126494			8							8					
Standard Titer:	0.5046			9							9					
Blank Titer:	0.0003			10							10					
HIO N:	0.23884			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)	NaI/NaOH			15							15					
DATE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16							16					
	KIO ₃			17							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.

Last Updated: December 2019

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



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:	2021-021	1		24		970	8.1	1512			1										
Event:	10	2		25		971	8.3	1524			2										
Station:	102	3		26A		972	8.3	1856	→		3	26B	973	8.5	1857						
Event Date (Local):	2021-06-16	4		27		974	8.3	1940			4										
Analysis Date (Local):	17 JUN 21	5		28		975	8.4	2021			5										
Analyst:	MB	6		29A		976	8.6	2141	→		6	29B	977	8.4	2139	B sampled first sorry					
Stratization Date (Local):	16 JUN 21	7		30		978	8.5	2394			7										
KIO ₃ N:	0.0170494	8		31		979	8.9	2961			8										
Standard Titer:	0.50416	9		32		980	9.5	3493			9										
Blank Titer:	0.0003	10		33		981	10.2	4416			10										
THIO N:	0.73884	11		34		982	10.5	4777			11										
Sample Flask Water Seal?	Yes	12		35		983	11.9	5742			12										
	No	13		36		984	13.9	6798			13										
Reagent Change?	MnCl ₂	14		37		985	14.9	7143			14										
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		38		986	15.3	7104			15										
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16									16										
	KIO ₃	17									17										
	THIO	18									18										
Notes:		19									19										
		20									20										
		21									21										
14 - Chicken & Egg.xlsx																					
25	Bot-5 m	29A	OXY	102	2021-0	2021-02	2021-02	100 m	bot 7	29B	OXY	102	2021-02	125 m	bot 6	29C	OXY	102	2021-02	125 m	bot 5
26A	2021-021	30	OXY	102	2021-02	2021-02	2021-02	100 m	bot 7	31	OXY	102	2021-02	75 m	bot 4	32	OXY	102	2021-02	50 m	bot 3
26B	200 m	32	OXY	102	2021-02	2021-02	2021-02	50 m	bot 9	33	OXY	102	2021-02	40 m	bot 10	34	OXY	102	2021-02	30 m	bot 11
27	200 m	35	OXY	102	2021-02	2021-02	2021-02	30 m	bot 11	36	OXY	102	2021-02	10 m	bot 13	37	OXY	102	2021-02	5 m	bot 14
28	75 m	38	OXY	102	2021-02	2021-02	2021-02	0 m	bot 15	39	OXY	102	2021-02			40	OXY	102	2021-02		

OXY
75
2021-021
Bot-5 m
bot 1

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



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:	2021-021			1		39	940	7.9	1.537		1					
Event:	13			2		40	941	7.9	1.548		2					
Station:	75			3		41	942	7.9	1.553		3					
Event Date (Local):	2021-06-17			4		42A	943	7.8	1.571		4	42B	944	7.9	1.574	
Analysis Date (Local):	17 JUN 21			5		43	945	7.9	1.700		5					
Analyst:	MB			6		44	946	8.1	2.172		6					
Stdization Date (Local):	16 JUN 21			7		45	947	9.1	3.307		7					
KIO ₃ N:	0.012494			8		46	948	9.5	3.694		8					
Standard Titer:	0.5046			9		47	949	9.7	4.045		9					
Blank Titer:	0.0003			10		48	950	9.8	4.105		10					
THIO N:	0.23884			11		49	951	10.9	4.540		11					
Sample Flask Water Seal?	Yes			12		50	952	10.8	5.660		12					
	No			13		51	953	11.5	6.336		13					
Reagent Change?	MnCl ₂			14		52A	954	11.9	6.354		14	52B	955	11.7	6.352	
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			15							15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16							16					
	KIO ₃			17							17					
	THIO			18							18					
Notes:				19							19					
				20							20					
				21							21					

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

15 - Moose.xlsx

43	OXY	75	2021-021	100 m	bot 6
44	OXY	75	2021-021	75 m	bot 7
45	OXY	75	2021-021	50 m	bot 8
46	OXY	75	2021-021	40 m	bot 9
47	OXY	75	2021-021	30 m	bot 10
48	OXY	75	2021-021	20 m	bot 11
49	OXY	75	2021-021	10 m	bot 12
50	OXY	75	2021-021	5 m	bot 13
51	OXY	75	2021-021	0 m	bot 14
52A	OXY	75	2021-021	0 m	bot 14
52B	OXY	75	2021-021	0 m	bot 14

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:	2021-021	1		53	101	7.3	1.680	Started without this in Flask Reserved	1					
Event:	7	2		54	102	7.1	1.684		2					
Station:	72	3		55A	103	7.2	1.705		3	55B	104	7.2	1.700	
Event Date (Local):	2021-06-17	4		56	105	7.1	1.710		4					
Analysis Date (Local):	17 Jun 21	5		57A	106	7.7	2.501		5	57B	107	7.7	2.507	
Analyst:	MB	6		58	108	8.1	3.011		6					
Stratification Date (Local):	16 Jun 21	7		59	109	8.5	3.346		7					
KIO ₃ N:	0.012044	8		60	110	8.6	3.502		8					
Standard Titer:	0.5046	9		61	111	8.8	3.761		9					
Blank Titer:	0.0003	10		62	112	9.2	4.394		10					
THIO N:	0.13884	11		63	113	9.8	4.817		11					
Sample Flask Water Seal?	Yes	12		64	114	10.7	5.277		12					
	No	13		65	115	10.7	5.788		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							24					

53
OXY

72
2021-021
Bot-5 m
bot 1

54
OXY

72
2021-021
175 m
bot 2

55A
OXY

72
2021-021
150 m
bot 3

55B
OXY

72
2021-021
125 m
bot 4

56
OXY

72
2021-021
100 m
bot 5

57A
OXY

72
2021-021
75 m
bot 6

57B
OXY

72
2021-021
50 m
bot 7

58
OXY

72
2021-021
40 m
bot 8

59
OXY

72
2021-021
30 m
bot 9

60
OXY

72
2021-021
20 m
bot 10

61
OXY

72
2021-021
10 m
bot 11

62
OXY

72
2021-021
5 m
bot 12

63
OXY

72
2021-021
0 m
bot 13

64
OXY

72
2021-021
0 m
bot 13

65
OXY

72
2021-021
0 m
bot 13

12 - Humming Bird.xlsx

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

67
OXY
69
2021-021
Bot-5 m
bot 1
68
OXY
69
2021-021
150 m
bot 2
69
OXY
69
2021-021
125 m
bot 3
70
OXY
69
021-021
100 m
bot 4
71
OXY
69
021-021
75 m
bot 5
72
OXY
69
021-021
50 m
bot 6
73
OXY
69
2021-021
40 m
bot 7
74
OXY
69
2021-021
30 m
bot 8
75
OXY
69
2021-021
20 m
bot 9
76
OXY
69
2021-021
10 m
bot 10
77
OXY
69
2021-021
5 m
bot 11
78
OXY
69
2021-021
0 m
bot 12

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



Last Updated: December 2019

Cruise and Analysis Information

Cruise Number: 2021-021

Event: 20

Station: 69

Event Date (Local): 2021-06-17

Analysis Date (Local): 17 Jun 21

Analyst: MB

Stratification Date (Local): 16 Jun 21

KIO₃ N: 0.0120494

Standard Titer: 0.5046

Blank Titer: 0.0003

THIO N: 0.13884

Sample Flask Water Seal? Yes

Reagent Change? No

MnCl₂

NaI/NaOH

H₂SO₄

KIO₃

THIO

Notes:

14 - Chicken & Egg.xlsx

Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	Nisk ID	OXY-1 Comments	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
1		67	970	7.3	1784	1						
2		68	971	7.3	1786	2						
3		69	972	7.5	2142	3						
4		70	973	8.1	7859	4						
5		71	974	8.5	3328	5						
6		72	975	8.8	3609	6						
7		73A	976	8.8	3641	7		73B	977	8.8	3641	
8		74	978	8.9	3672	8						
9		75	979	9.0	3882	9						
10		76A	980	9.2	4019	10		76B	981	9.2	4017	
11		77	982	9.5	4214	11						
12		78	983	9.5	4281	12						
13						13						
14						14						
15						15						
16						16						
17						17						
18						18						
19						19						
20						20						
21						21						
22						22						
23						23						
24						24						

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:	2021-021	1		79		900	7.9	24.85			1					
Event:	21	2		80		901	8.2	27.99			2					
Station:	adcp	3		81		902	8.7	33.18			3					
Event Date (Local):	2021-06-17	4		82		903	8.9	37.11			4					
Analysis Date (Local):	18 JUN 21	5		83		904	9.1	38.51			5					
Analyst:	MB	6		84		905	9.2	39.72			6					
Standardization Date (Local):	17 JUN 21	7		85		906	9.5	41.96			7					
KIO ₃ N:	0.0120494	8		86A		907	10.1	50.27			8	86B	908	10.1	50.26	
Standard Titer:	0.5047	9		87		909	10.1	50.86			9					
Blank Titer:	0.0003	10		88		910	10.2	50.71			10					
WIO N:	0.138137	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)	NaI/NaOH	15									15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16									16					
	KIO ₃	17									17					
	THIO	18									18					
Notes:		19									19					
		20									20					
		21									21					
8 - Snail.xlsx		22									22					
		23									23					
		24									24					

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

OXY adcp 2021-021 Bot-5 m bot 1 80 OXY adcp 2021-021 100 m bot 2 81 OXY adcp 2021-021 75 m bot 3 82 OXY adcp 2021-021 50 m bot 4 83 OXY adcp 2021-021 40 m bot 5 84 OXY adcp 2021-021 30 m bot 6 20 m bot 7 10 m bot 8 5 m bot 9 0 m bot 10



Dissolved Oxygen Analysis Log Sheet

**Institute of Ocean Sciences
Water Properties Group**

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: 2021-021										1		89	912	8.1	2758			1						
Event: 22										2		90	913	8.3	3009			2						
Station: 65										3		91	914	8.5	3161			3						
Event Date (Local): 2021-06-18										4		92	915	8.7	3366			4						
Analysis Date (Local): 18 JUN 21										5		93	916	8.9	3581			5						
Analyst: MB										6		94	917	9.1	3904			6						
Stratization Date (Local): 17 JUN 21										7		95	918	9.7	4711			7						
KIO ₃ N: 0.012644										8		96	919	9.8	4930			8						
Standard Titer: 0.5047										9		97	920	9.8	4989			9						
Blank Titer: 0.0003										10		98A	921	9.9	4992			10	98B	922	9.9	4991		
THIO N: 0.738537										11								11						
Sample Flask Water Seal? Yes										12								12						
Reagent Change? No										13								13						
Reagent Change? MnCl ₂										14								14						
(Please circle reagent that was changed prior to sampling and standardization)										15								15						
NOTE NEW BATCH IN LOG BOOK										16								16						
THIO										17								17						
										18								18						
										19								19						
										20								20						
										21								21						
Notes:																								
8 - Snail.xlsx																								
										94		95	OXY	65				98A		97	OXY	65		
										OXY		OXY					OXY		OXY					
										65		65					65		65					
										2021-021	2021-021	2021-021	2021-021	2021-021	2021-021	2021-021	2021-021	2021-021	2021-021	2021-021	2021-021	2021-021	2021-021	
										30 m	20 m	10 m	5 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m	0 m
										bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14	bot 15	bot 16	bot 17	bot 18	bot 19	

OXY

62

2021-021

Bot-5 m

bot 1

100

OXY

62

2021-021

125 m

bot 2

101

OXY

62

2021-021

100 m

bot 3

102A

OXY

62

2021-021

75 m

bot 4

102B

OXY

62

2021-021

75 m

bot 4

103A

OXY

62

2021-021

50 m

bot 5

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:	2021-021	1		99	970	8.2	2.749		1					
Event:	23	2		100	971	8.5	3.124		2					
Station:	62	3		101	972	8.6	3.261		3					
Event Date (Local):	2021-06-18	4		102A	973	9.2	3.443		4	102B	974	9.2	3.956	
Analysis Date (Local):	18 JUN 21	5		103A	975	9.5	4.306		5	103B	976	9.5	4.309	
Analyst:	MB	6		104	977	9.7	4.526		6					
Standardization Date (Local):	17 JUN 21	7		105	978	9.7	4.548		7					
KIO ₃ N:	0.0120494	8		106	979	9.7	4.565		8					
Standard Titer:	0.5047	9		107	980	9.7	4.641		9					
Blank Titer:	0.0063	10		108	981	9.8	4.747		10					
THIO N:	0.238937	11		109	982	9.9	4.733		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					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16							16					
	KIO ₃	17							17					
	THIO	18							18					
		19							19					
Notes:		104	OXY	62	2021-021	40 m	bot 6		106	OXY	62	2021-021	20 m	bot 8
		105	OXY	62	2021-021	30 m	bot 7		107	OXY	62	2021-021	10 m	bot 9
		106	OXY	62	2021-021	20 m	bot 8		108	OXY	62	2021-021	5 m	bot 10
		107	OXY	62	2021-021	10 m	bot 9		109	OXY	62	2021-021	0 m	bot 11
		108	OXY	62	2021-021	5 m	bot 10							
		109	OXY	62	2021-021	0 m	bot 11							
		103B	OXY	62	2021-021	40 m	bot 6							
		103A	OXY	62	2021-021	30 m	bot 7							
		102B	OXY	62	2021-021	20 m	bot 8							
		102A	OXY	62	2021-021	10 m	bot 9							
		101	OXY	62	2021-021	0 m	bot 11							

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

2021-021

50 m

bot 5

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	Nisk Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Nisk Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2021-021			1		110	101	9.0	3.24		1					
Event:	26			2		111	102	8.9	3.326		2					
Station:	56			3		112	103	9.0	3.445		3					
Event Date (Local):	2021-06-18			4		113	104	9.1	3.570		4					
Analysis Date (Local):	18 Jun 21			5		114	105	9.2	3.743		5					
Analyst:	mb			6		115	106	9.3	3.914		6					
Stratization Date (Local):	17 Jun 21			7		116	107	9.4	3.958		7					
KIO ₃ N:	0.017044			8		117	108	9.4	4.056		8					
Standard Titer:	0.5047			9		118	109	9.4	4.041		9					
Blank Titer:	0.0003			10		119A	110	9.3	4.020		10	119B	111	9.3	4.020	
THIO N:	0.738937			11		120	112	9.6	4.173		11					
Sample Flask Water Seal?	Yes			12		121	113	10.1	4.466		12					
Reagent Change?	MnCl ₂			13		122	114	10.5	4.698		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			14		123A	115	10.9	5.371	OVER-TITRATION	14	123B	116	12.0	5.373	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			15							15					
	KIO ₃			16							16					
	THIO			17							17					
				18							18					
				19							19					
				20							20					
				21							21					

Notes:

12 - Humming Bird.xlsx

Nisk ID	Nisk Int V S	Nisk Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Nisk Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
115	OXY	56	2021-02	100 m	bot 6		123B	OXY	56	2021-021	0 m	bot 14
116	OXY	56	2021-02	75 m	bot 7		123A	OXY	56	2021-021	0 m	bot 14
117	OXY	56	2021-02	50 m	bot 8		122	OXY	56	2021-021	5 m	bot 12
118	OXY	56	2021-02	40 m	bot 1		121	OXY	56	2021-021	10 m	bot 12
119A	OXY	56	2021-02	30 m	bot 1		120	OXY	56	2021-021	20 m	bot 1
119B	OXY	56	2021-02	30 m	bot 1		119A	OXY	56	2021-021	30 m	bot 1
118	OXY	56	2021-02	40 m	bot 1		119B	OXY	56	2021-021	30 m	bot 1
117	OXY	56	2021-02	50 m	bot 8		120	OXY	56	2021-021	20 m	bot 1
116	OXY	56	2021-02	75 m	bot 7		121	OXY	56	2021-021	10 m	bot 12
115	OXY	56	2021-02	100 m	bot 6		122	OXY	56	2021-021	5 m	bot 12

110
OXY
56

2021-021
Bot-5 m
bot 1

111
OXY
56

2021-021
200 m

112
OXY
56

2021-021
175 m

bot 3
113
OXY
56

2021-021
150 m

bot 4
114
OXY
56

2021-021
125 m
bot 5

Dissolved Oxygen Analysis Log Sheet

Institute of Ocean Sciences
Water Properties Group



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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:	2021-021			1		124A	900	9.1	3.606		1	124B	901	9.2	3.602	
Event:	33			2		125	902	9.2	3.738		2					
Station:	46			3		126	903	9.3	3.918		3					
Event Date (Local):	2021-06-18			4		127	904	9.1	3.902		4					
Analysis Date (Local):	18 Jun 21			5		128A	905	8.9	3.783		5	128B	906	9.0	3.780	
Analyst:	MB			6		129	907	9.2	3.924		6					
Stdization Date (Local):	17 Jun 21			7		130	908	9.4	4.005		7					
KIO ₃ N:	0.0120494			8		131	909	9.9	4.285		8					
Standard Titer:	0.5047			9		132	910	10.3	4.639		9					
Blank Titer:	0.003			10		133	911	11.2	5.176		10					
THIO N:	0.738937			11		134	912	13.4	6.443		11					
Sample Flask Water Seal?	Yes			12		135	913	16.4	7.732	HIGH TURBIDITY? LOW CL	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					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16							16					
	KIO ₃			17							17					
	THIO			18							18					
Notes:				19							19					
				20							20					
				21							21					
				22							22					

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

124A
OXY
46
021-021
30ft-5 m
bot 1
124B
OXY
46
021-021
30ft-5 m
bot 1
125
OXY
46
021-021
150 m
bot 2
126
OXY
46
021-021
125 m
bot 3
127
OXY
46
021-021
100 m
bot 4
128A
OXY
46
021-02
75 m
bot 5
128B
OXY
46
2021-07
75 m
bot 5
129
OXY
46
2021-07
50 m
bot 6
130
OXY
46
2021-07
40 m
bot 7
131
OXY
46
2021-07
30 m
bot 8
132
OXY
46
2021-07
20 m
bot 9
133
OXY
46
2021-07
10 m
bot 10
134
OXY
46
2021-07
5 m
bot 11
135
OXY
46
2021-07
0 m
bot 12

Dissolved Oxygen Analysis Log Sheet

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Water Properties Group



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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:	2021-021		1		136	101	9.0	3.388		1					
Event:	37		2		137	102	9.0	3.409		2					
Station:	42		3		138	103	9.0	3.570		3					
Event Date (Local):	2021-06-18 / 19		4		139	104	9.0	3.800		4					
Analysis Date (Local):	19 JUN 21		5		140	105	9.0	3.800		5					
Analyst:	MB		6		141	106	9.0	3.983		6					
Stratization Date (Local):	17 JUN 21		7		142	107	9.0	4.037		7					
KIO ₃ N:	0.0120494		8		143	108	8.9	4.098		8					
Standard Titer:	0.5047		9		144	109	8.8	3.921		9					
Blank Titer:	0.0003		10		145A	110	9.5	3.916		10	145B	111	9.5	3.913	
THIO N:	0.238937		11		146	112	9.8	4.096		11					
Sample Flask Water Seal?	Yes		12		147	113	10.1	4.309		12					
Reagent Change?	MnCl ₂		13		148	114	10.4	4.409		13					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		14		149	115	13.0	6.348		14					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		15		150	116	17.1	7.303		15					
	KIO ₃		16		151A	117	17.1	7.455		16	151B	118	17.1	7.456	Vent was very open on moved to bot 17 16
	THIO		17		152A					17	152B				Low CP
			18							18					
			19							19					
			20							20					
			21							21					
			22							22					
			23							23					
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Notes:															
12 - Humming Bird.xlsx															
138															
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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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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:	2021-021		1		153	900	9.3	3.330				1					
Event:	42		2		154	901	9.5	3.416				2					
Station:	39		3		155	902	9.3	3.474				3					
Event Date (Local):	2021-06-19		4		156	903	9.2	3.567				4					
Analysis Date (Local):	19 JUN 21		5		157	904	9.2	3.714				5					
Analyst:	MB		6		158	905	9.1	3.789				6					
Stdization Date (Local):	17 JUN 21		7		159A	906	9.1	3.877				7	159B	907	9.1	3.877	
KIO ₃ N:	0.0120494		8		160	908	9.1	3.950	9.1			8					
Standard Titer:	0.5057		9		161	909	8.9	4.072	ONGR TITRATE			9					
Blank Titer:	0.0003		10		162	910	8.9	3.822				10					
THIO N:	0.738937		11		163	911	9.6	3.896				11					
Sample Flask Water Seal?	(Yes)		12		164	912	10.0	4.063				12					
	No		13		165	913	10.1	4.174				13					
Reagent Change? (Please circle reagent that was changed prior to sampling and standardization)	MnCl ₂		14		166	914	11.1	4.823				14					
	NaI/NaOH		15		167A	915	12.5	6.078				15	167B	916	12.6	6.068	
	H ₂ SO ₄		16		168	917	17.6	7.188	17.6			16					
	NOTE NEW BATCH IN LOG BOOK		17		169	918	17.6	7.175				17					
	KIO ₃		18									18					
	THIO		19									19					
Notes:			20									20					
			21									21					
8 - Snail.xlsx																	
159A	159B	160	161	162	163	164	165	166	167A	167B	168	169	2021-021	2021-02	2021-02	2021-02	2021-02
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
21-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02
75 m	150 m	125 m	100 m	75 m	50 m	40 m	30 m	20 m	10 m	10 m	5 m	0 m	2021-021	2021-02	2021-02	2021-02	2021-02
bot 6	bot 7	bot 8	bot 9	bot 1	bot 11	bot 12	bot 13	bot 14	bot 15	bot 15	bot 15	bot 16	2021-021	2021-02	2021-02	2021-02	2021-02
bot 6	bot 7	bot 8	bot 9	bot 1	bot 11	bot 12	bot 13	bot 14	bot 15	bot 15	bot 15	bot 16	2021-021	2021-02	2021-02	2021-02	2021-02

170A

OXY

27

2021-021

Bot-5 m

bot 1

170B

OXY

27

2021-021

Bot-5 m

bot 1

171

OXY

27

2021-021

800 m

172

OXY

27

2021-021

250 m

bot 3

173

OXY

27

2021-021

200 m

bot 4

174

Dissolved Oxygen Analysis Log Sheet

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Water Properties Group



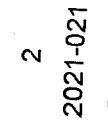
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Cruise and Analysis Information		Nisk ID	Nisk Int V S	Sample ID	Flask 1	Draw Temp 1 (°C)	OXY-1 (mL/L)	OXY-1 Comments	Nisk ID	Sample ID	Flask 2	Draw Temp 2 (°C)	OXY-2 (mL/L)	OXY-2 Comments
Cruise Number:	2021-021	1		170A	970	9.2	3.473		1	170B	971	9.5	3.574	
Event:	49	2		171	972	9.2	3.429		2					
Station:	27	3		172	973	9.2	3.654		3					
Event Date (Local):	2021-06-19	4		173	974	9.2	3.725		4					
Analysis Date (Local):	19 JUN 21	5		174	975	9.2	3.753		5					
Analyst:	MB	6		175	976	9.2	3.799		6					
Stratization Date (Local):	17 JUN 21	7		176	977	9.1	3.875		7					
KIO ₃ N:	0.0120494	8		177	978	9.3	3.986		8					
Standard Titer:	0.5047	9		178	979	8.9	3.904		9					
Blank Titer:	0.0003	10		179	980	9.1	3.685		10					
THIO N:	0.728937	11		180	981	9.3	3.666		11					
Sample Flask Water Seal?	Yes	12		181	982	9.4	3.702		12					
	No	13		182	983	9.8	3.920		13					
Reagent Change?	MnCl ₂	14		183	984	12.1	5.175		14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH	15		184A	985	15.4	6.443		15	184B	986	15.5	6.409	
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄	16		185	987	17.3			16					
	KIO ₃	17							17					
	THIO	18							18					
		19							19					
		20							20					
		21							21					
		22							22					
Notes:		23							23					
		24							24					
14 - Chicken & Egg.xlsx														
175	OXY	27	2021-021	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02
176	OXY	27	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02
177	OXY	27	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02
178	OXY	27	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02
179	OXY	27	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02
180	OXY	27	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02
181	OXY	27	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02
182	OXY	27	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02
183	OXY	27	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02
184A	OXY	27	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02
184B	OXY	27	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02
185	OXY	27	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02	2021-02
150 m	bot 6	125 m	bot 7	100 m	bot 8	75 m	bot 9	50 m	bot 10	40 m	bot 11	30 m	20 m	10 m
bot 5	bot 6	bot 7	bot 8	bot 9	bot 10	bot 11	bot 12	bot 13	bot 14	bot 15	bot 16	bot 17	bot 18	bot 19

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

OXY
2
2021-021

2
2021-021



1

Bot-5 m	196	OXY	2	2021-021	250 m	bot 2	197	OXY	2	2021-021	200 m	bot 3	198	OXY	2	021-021	175 m	199A	OXY	2	2021-021	150 m	199B	OXY	2	021-021	150 m	bot 5
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230

OXY

6

2021-021

Bot-5 m

bot 1

231A

OXY

6

2021-021

175 m

bot 2

231B

OXY

6

2021-021

175 m

bot 2

232

OXY

6

2021-021

150 m

bot 3

233

OXY

6

2021-021

125 m

bot 4

234

OXY

6

2021-02

100 m

bot 5

75 m

bot 6

Dissolved Oxygen Analysis Log Sheet

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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:	2021-021			1		230	940	9.1	3345					1								
Event:	65			2		231A	941	9.0	3429					2	231B	942	9.2	3432				
Station:	6			3		232	943	8.9	3885					3								
Event Date (Local):	2021-06-19			4		233	944	8.7	4045					4								
Analysis Date (Local):	19 JUN 21			5		234	945	8.6	4170					5								
Analyst:	MB			6		235	946	8.7	3970					6								
Stdization Date (Local):	17 JUN 21			7		236	947	9.5	3722					7								
KIO ₃ N:	0.020464			8		237	948	9.9	3938					8								
Standard Titer:	0.5047			9		238	949	10.3	4163					9								
Blank Titer:	0.0003			10		239A	950	12.0	5163					10	239B	951	12.0	5171				
THIO N:	0.238937			11		240	952	13.7	6283					11								
Sample Flask Water Seal?	Yes			12		241	953	16.8	6817					12								
	No			13		242	954	17.8	6820					13								
Reagent Change?	MnCl ₂			14										14								
Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			15										15								
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16										16								
	KIO ₃			17										17								
	THIO			18										18								
				19										19								
				20										20								
				21										21								
				22										22								

Notes:

5 - Moose.xlsx

235	OXY	6	2021-02	75 m	bot 6
236	OXY	6	2021-021	50 m	bot 7
237	OXY	6	2021-02	40 m	bot 8
238	OXY	6	2021-02	30 m	bot 9
239A	OXY	6	2021-02	20 m	bot 10
239B	OXY	6	2021-02	20 m	bot 11
240	OXY	6	2021-02	10 m	bot 12
241	OXY	6	2021-0	5 m	bot 13
242	OXY	6	2021-021	0 m	bot 14

int. 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				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:	2021-021			1		255	940	9.1	3.454		1					
Event:	72			2		256	941	9.1	3.553		2					
Station:	12			3		257A	942	9.1	3.636		3	257B	943	9.1	3.634	
Event Date (Local):	2021-06-20			4		258A	944	8.9	3.779	OVER-TITRATION	4	258B	945	9.1	3.779	
Analysis Date (Local):	20 JUN 2021			5		259	946	8.9	3.878		5					
Analyst:	MB			6		260	947	8.9	3.936		6					
Stratization Date (Local):	20 JUN 2021			7		261	948	8.7	3.985		7					
KIO ₃ N:	0.0120494			8		262	949	8.7	3.937		8					
Standard Titer:	0.5045			9		263	950	9.0	3.419		9					
Blank Titer:	0.0003			10		264	951		9.5	3.643	10					
THIO N:	0.238814			11		265	952		9.8	3.798	11					
Sample Flask Water Seal?	Yes			12		266	953		10.1	4.085	12					
	No			13		267	954		10.3	4.217	13					
Reagent Change?	MnCl ₂			14		268	955		10.8	4.333	14					
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH			15		269	956		14.0	6.341	15					
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄			16		270	957		16.3	6.574	16					
	KIO ₃			17							17					
	THIO			18							18					
Notes:				19							19					
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15 - Moose.xlsx				23							23					
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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: 2021-021										1		243	101	4.3	2.789		1					
Event: 60										2		244	102	4.2	3.064		2					
Station: 9										3		245	103	8.8	3.778		3					
Event Date (Local): 2021-06-18 20										4		246	104	8.8	3.889		4					
Analysis Date (Local): 20 JUN 21										5		247	105	8.7	3.737		5					
Analyst: MB										6		248A	106	9.3	3.737		6	248B	107	9.4	3.736	
Stratization Date (Local): 20 JUN 21										7		249	108	9.6	3.761		7					
KIO ₃ N: 0.0120494										8		250A	109	10.3	4.149		8	250B	110	10.3	4.152	
Standard Titer: 0.5045										9		251	111	10.7	4.361		9					
Blank Titer: 0.0003										10		252	112	11.7	4.874		10					
THIO N: 0.238814										11		253	113	16.8	6.586		11					
Sample Flask Water Seal? Yes										12		254	114	17.4	6.585		12					
No										13							13					
Reagent Change? MnCl ₂										14							14					
(Please circle reagent that was changed prior to sampling and standardization)										15							15					
H ₂ SO ₄										16							16					
NOTE NEW BATCH IN LOG BOOK										17							17					
THIO										18							18					
Notes:										19							19					
12 - Humming Bird.xlsx										20							20					
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2021-021

Bot-5 m

bot 1

244

OXY

9

2021-021

150 m

bot 2

245

OXY

9

2021-021

125 m

bot 3

246

OXY

9

2021-021

100 m

bot 4

247

OXY

9

2021-021

50 m

bot 6

248A

OXY

9

2021-021

50 m

bot 6

248B

OXY

9

2021-021

30 m

bot 8

249

OXY

9

2021-021

30 m

bot 8

250A

OXY

9

2021-021

30 m

bot 8

250B

OXY

9

2021-021

30 m

bot 8

251

OXY

9

2021-021

20 m

bot 9

252

OXY

9

2021-021

10 m

bot 10

253

OXY

9

2021-021

5

0 m

bot 12

254

OXY

9

272 OXY 14 2021-021 Bot-5 m 273A OXY 14 2021-021 300 m bot 2 273B OXY 14 2021-021 300 m bot 2 274 OXY 14 2021-021 250 m 275 OXY 14 2021-021 200 m bot 4 276 OXY 14 2021-021 175 m bot 5

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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:	2021-021		1		272	970	9.2	3.243			1						
Event:	75		2		273A	971	9.1	3.247			2	273B	972	9.2	3.244		
Station:	14		3		274	973	9.1	3.374			3						
Event Date (Local):	2021-06-20		4		275	974	9.0	3.401			4						
Analysis Date (Local):	20 JUN 2021		5		276	975	8.9	3.471			5						
Analyst:	MB		6		277	976	8.9	3.787			6						
Stolization Date (Local):	20 JUN 2021		7		278A	977	8.9	3.770			7	278B	978	8.9	3.771		
KIO ₃ N:	0.020494		8		279	979	8.8	3.771			8						
Standard Titer:	0.5045		9		280	980	8.8	3.627			9						
Blank Titer:	0.0003		10		281	981	9.2	3.539			10						
THIO N:	0.738814		11		282	982	9.4	3.580			11						
Sample Flask Water Seal?	Yes		12		283	983	9.7	3.669			12						
	No		13		284	984	10.0	3.780			13						
Reagent Change?	MnCl ₂		14		285	985	12.5	5.096			14						
(Please circle reagent that was changed prior to sampling and standardization)	NaI/NaOH		15		286	986	13.9	5.591			15						
NOTE NEW BATCH IN LOG BOOK	H ₂ SO ₄		16		287	987	16.9	6.367			16						
	KIO ₃		17								17						
	THIO		18								18						
			19								19						
			20								20						
			21								21						
Notes:																	
14 - Chicken & Egg.xlsx																	
277 OXY 14 2021-021 125 m bot 6	278A OXY 14 2021-021 125 m bot 7	278B OXY 14 2021-021 125 m bot 1	279 OXY 14 2021-021 100 m bot 1	280 OXY 14 2021-021 75 m bot 9	281 OXY 14 2021-021 50 m bot 10	282 OXY 14 2021-021 40 m bot 11	283 OXY 14 2021-021 30 m bot 11	284 OXY 14 2021-021 20 m bot 11	285 OXY 14 2021-021 10 m bot 11	286 OXY 14 2021-021 5 m bot 15	287 OXY 14 2021-021 0 m bot 16						

State 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				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:	2021-021			1		288	900	9.0	3.432		1					
Event:	78			2		289	901	9.1	3.494		2					
Station:	16			3		290	902	9.2	3.525		3					
Event Date (Local):	2021-06-20			4		291A	903	9.6	3.761		4	291B	904	9.6	3.766	
Analysis Date (Local):	2020021			5		292	905	10.0	3.978		5					
Analyst:	mB			6		293	906	9.9	3.963		6					
Stdization Date (Local):	2020021			7		294	907	10.1	4.005		7					
KIO ₃ N:	0.0120494			8		295	908	9.9	3.947		8					
Standard Titer:	0.5045			9		296	909	10.2	4.058		9					
Blank Titer:	0.0003			10		297A	910	10.2	4.054		10	297B	911	10.2	4.052	
THIO N:	0.238814			11		298	912	10.3	4.086		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					
	KIO ₃			17							17					
	THIO			18							18					
Notes:				19							19					
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				23							23					
				24							24					

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.

293	OXY	16	20 m	bot 6
294	OXY	16	30 m	bot 7
295	OXY	16	20 m	bot
296	OXY	16	10 m	bot 8
297A	OXY	16	5 m	bot 10
297B	OXY	16	5 m	bot 1
298	OXY	16	0 m	bot 11