(MC)

99 Loop 3 #834 7.545
99 Loop 4 #843 7.567

Thio N = 0.24205 Blank = 0.00047 Analysis: START 1216 AM (OKY COMPUTER) 1711 (M's watch)
FINISH 0146 1840

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 Station: AG-5 Event #: 001 Ship: LSSL
UTC Date (dd|mmm|yyyy) (ANALYSIS DATE): 17 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	°C: T_1	°C: T_2	°C: T_3			Comments
																	Forgot to include comments in program field
1	1	854	5.992	855		5.922	856	5.921				2.3	1.6	1.7			Triplicates
2												—					
3	3	857	5.846									1.3					
4	4	858	5.743									1.4					
5	5	859	5.661	848		5.656						1.4	1.5				Dups
6	6	849	5.847									1.2					
7	7	850	5.590									1.4					
8	8	851	5.613									1.0					
9	9	852	5.418									0.7					
10	10	853	5.623									0.6					
11	11	842	5.577	830		5.584						0.5	0.3				Dups
12	12	835	5.626									-0.1					
13	13	844	5.820	845		5.818						-0.4	-0.3				Dups
14	14	846	6.073									-0.7					
15	15	847	6.401									-0.7					
16	16	836	6.734									-0.5					
17	17	837	7.453									-0.4					
18	18	838	8.573									-0.3					
19	19	839	9.314									1.7					
20	20	840	7.710									6.0					
21	21	841	7.507									6.9					
22																	
23																	
24																	

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Temp @ Standardization:

Time	UTC	Local
Start	KIO_3	THIO (°C)
Bottom	22.4	22.7
End		

Thio Titre (20°C) = 0.50165

Positional Information

Start — Lat: ° N; Lon: ° W

Bottom — Lat: ° N; Lon: ° W

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

*Date Run: ___|___|____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

MC Sampled Oxy

UTC 01:56

99 LOOP9 Flask #1346 7.919 ThioN = 0.24205 Blank = 0.00047 Analy Start 2:15 AM (oxy comp.) Finish 3:20AM

MC

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 Station: CABOS Event #: 002 Ship: LSSL UTC Date (dd|mmm|yyyy): 17 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	°C: T_1	°C: T_2	°C: T_3			Comments
																	* Forgot to include comments in program!
1	23	824	6.833	825		6.832	826	6.829				1.2	1.1	1.0			Triplicates
2	24	827	6.830									1.0					
3	25	828	6.845									0.9					
4	26	829	6.803									1.0					
5	27	820	6.769									1.3					
6	28	819	6.739									1.2					
7	29	818	6.664									1.5					
8	30	821	6.542	822		6.550						1.6	1.6				Dups
9	31	823	6.591									1.6					
10	32	812	6.462									1.4					
11	33	813	6.253									1.9					
12	34	814	5.859									0.9					* OT (No curve!)
13	35	815	LOST									0.6					* Stopper popped!!
14	36	807	6.027									0.7					
15	37	816	6.079									0.7					
16	38	817	6.166	806		6.168						1.0	1.2				Dups
17	39	808	6.289									0.7					
18	40	809	6.952									0.8					
19	41	810	9.123									1.2					
20	42	811	9.042									2.4					
21	43	800	7.476									5.9					
22	44	801	7.428									5.7					
23																	
24																	

Watchkeeper(s):

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Temp @ Standardization

Time	UTC	Local
Start	KIO_3	THIO
Bottom	20.4	22.7
End		

Thio Titre (20°C) =

Positional Information

Start — Lat: ° 0.50165 N; Lon: ° W

Bottom — Lat: ° N; Lon: ° W

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Jane Sampled Day

MC

99 Dummy hoop bucket sample (not a proper sample) Thio Norm = 0.24201
Flask 1442 = 6.372 mL/L
Blank = 0.00055

Anal Start: 9:32 (ox/computer)
Finish: 10:54

Water Properties Group — Rosette Log

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

Cruise ID: LSSL 2010-07 Station: CB31b Event #: 003 Ship: LSSL
(ANALYSIS DATE) UTC Date (dd|mmm|yyyy): 18 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	°C: T_1	°C: T_2	°C: T_3	Comments
1	45	1432	6.539	1279		6.537	1141	6.538				0.7	1.0	1.0	Triplicates
2	46	1278	6.764									0.7			
3	47	1291	6.853									0.7			
4	48	1417	6.857									0.7			
5	49	1281	6.831	1290		6.824						0.8	1.0		Dups
6	50	1274	6.751									1.0			
7	51	1362	6.752									1.0			
8	52	1486	8.309	1219		8.312						1.2	1.4		Dups *1219 = OT
9	53	1424	6.689									1.0			
10	54	1271	6.588									1.0			
11	55	458	6.532									0.7			
12	56	1238	6.566	1282		6.565						0.3	0.3		Dups
13	57	1276	6.432									-0.3			
14	58	1228	5.969									-0.6			
15	59	1267	6.051									-0.7			Strange point but slope ok
16	60	1280	6.164	1241		6.146						-0.7	-0.1		Dups
17	61	1270	6.811									-0.7			
18	62	1136	6.892									-0.7			
19	63	329	8.347									-0.7			
20	64	1429	9.023	1202		9.024						-0.4	-0.3		Dups
21	65	456	9.018									1.0			
22	66	439	7.863									4.8			
23	67	1297	7.770									5.3			
24	68	1430	7.928									4.0			OT Strange point? ↓ looks good ✓

Watchkeeper(s):

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Temp @ Standardization:

Time	UTC	Local
Start	KIO_3	THIO
Bottom	22.1	21.9 °C
End		

Thio Titre (20°C) =

Positional Information

Start — Lat: ° 0.50181 N; Lon: ° W

Bottom — Lat: ° N; Lon: ° W

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

*Date Run: ___ | ___ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

* Extra bottle in box 1 (corner) Case +1

MC Sampled Only

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

MC

99 Loop 13 # 1346 = 8.054 mL/L Avg Thio Titre (20°C) = Thio Norm = 0.24201 Blank = 0.00055

Temp @ Standardization (°C) KIO_3 = 22.1°C THIO = 21.9°C

Analy Start = 12:21 AM Finish = 01:30 AM (@ sample 1119)

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** CB-60 **Event #:** 0004 **Ship:** LSSL **UTC Date (dd|mmm|yyyy):** 18 | SEP | 2010

data file: 69 to 85 00401

RUN 1

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	°C: T_1	°C: T_2	°C: T_3	Comments
1	69	1295	6.820	1023		6.828	1352	6.814				0.6	0.5	0.5	Triplicates
2	70	586	6.822									0.3			
3	71	575	6.803									0.5			
4	72	1493	6.785									0.6			
5	73	1150	6.732									0.7			
6	74	1356	6.670									0.7			
7	75	1434	6.617									0.8			bad pt - regression OK (O2 check?)
8	76	1341	6.254	1446		6.257						-0.3	-0.2		Dups
9	77	1457	6.567									0.8			
10	78	1416	6.487									0.9			OT - bad pt - good (now) ✓
11	79	1413	6.451									0.9			
12	80	1277	6.383									0.8			
13	81	1348	6.401									0.6			
14	82	1212	6.398									0.3			Pipette tip not in flask - re-run
15	83	1268	6.213									-0.1			
16	84	1288	6.072	1471		6.072						-0.4	-0.2		Dups *1471→OT (blank from before)
17	85	658	6.055									-0.5			
18	86	1119	LOST									-0.5			ABORTED JANE HELP! Program closed.
19	87	1331	8.572									-0.3			
20	88	1449	9.125									+0.7			
21	89	1188	7.674									5.6			
22	90	1370	7.450									5.8			shortcurve - OT (same curve in OT)
23	91	1433	7.625									5.2			
24															

datafile: 00401

Sept. 19/10 RUN 2

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Thio Titre (20°C) =

Positional Information

Start — Lat: ° 0.50181 N Lon: ° W

▼

Bottom — Lat: ° N Lon: (stirred ° for ~ 1 min before re-run) W

▼

End — Lat: ° N Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

*Date Run: ___ | ___ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

99 loop 19 # 1430 = 8.011 mL/L

IO_3 titre (20°C) = 0.50139

Thio N = 0.24215

Blank = 0.000662

Temp @ Standard KIO_3 = 23.7°C

Thio = 23.2°C

19 Sept 2010

MC Sampled Dry

99 Loop 23 # 834 = 7.363 mL/L

Thio Titer (20°C) = 0.50139 Temp @ Standardization: KIO_3 = 23.7 °C THIO N = 0.24215
Avg. Blank = 0.00062 THIO = 23.2°C

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** CB-61 **Event #:** 0005 **°C Ship:** LSSL **~~UTC~~ Date (dd|mmm|yyyy):** 19 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3	Comments
1	92	854	6.723	855		6.724	856	6.725				1.3	1.2	1.3	
2	93	857	6.687									1.1			
3	94	858	6.672									1.2			
4	95	859	6.638									1.2			
5	96	848	6.610									1.2			
6	97	849	6.617									1.3			
7	98	850	6.591									1.4			
8	99	851	6.547									1.4			
9	100	852	6.486	853		6.487						1.3	1.4		
10	101	842	6.398									1.3			
11	102	835	6.389									1.1			
12	103	844	6.426									0.9			
13	104	845	6.296									0.5			Stopper fell + broke after cast
14	105	846	6.069									0.2			
15	106	847	6.070									0.2			
16	107	836	6.138									0.2			
17	108	837	6.238									0.1			
18	109	838	6.644									0.3			
19	110	839	8.331	840		8.347						0.5	0.7		
20	111	841	8.915									1.2			
21	112	830	9.091									2.2			
22	113	831	7.633									5.9			
23	114	832	7.573									6.1			
24	———														

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	*UTC*	*Local*
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008 **Transmissometer to be cleaned before each cast, do not use Ammonia products** http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

MC Sampled Oxy

99 Loop N/A # 805 = 7.386 (taken on station ∴ not recorded) } No file for this (over-written)

Thio Titre (20°C) = 0.50129

Avg Blank = 0.00054

Temp@ stnd: KIO_3 = 22.1 °C, Thio = 21.7 °C

THIO N = 0.24226

KIO_3N = 0.0121603

UTC 9:18 pm

Water Properties Group — Rosette Log

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

Wrong flask file loaded? Stopped + re-started and after loop.

Cruise ID: 2010-07 **Station:** MK-3 **Event #:** 0011 **Ship:** LSSL **UTC Date (dd|mmm|yyyy) (Analysis):** 20 | Sep | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	°C: T1	°C: T2	°C: T3	Comments
1	147	824	6.786	825		6.791	826	6.784				1.5	1.5	1.3	tripl.
2	148	827	6.748									1.2			
3	149	828	6.695									1.1			
4	150	829	6.654									1.4			
5	151	820	6.605									1.4			
6	152	819	6.629									1.4			
7	153	818	6.576									1.4			
8	154	821	6.971	822		6.992						0.2	0.3		dups
9	155	823	6.447									1.2			
10	156	812	6.380									1.2			
11	157	813	6.381									1.0			
12	158	814	6.396									1.0			
13	159	815	6.377									0.5			
14	160	807	6.186									0.1			
15	161	816	6.259									0.2			
16	162	817	6.385									0.0			
17	163	806	6.314									0.0			
18	164	808	6.536	809		6.527						0.1	0.3		808 - check? Rosr stroppy? OK✓
19	165	810	7.000									0.0			
20	166	811	8.183									0.3			
21	167	800	8.960									1.2			
22	168	801	8.763									2.6			
23	169	802	7.456									6.7			
24															

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

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

99 Loop 26 #1279 = 7.846 mL/L 103 Titre (20°C) = Avg Blank =   Temp @ Std KIO3 = Thio =   Thio N = KIO3 N =   *SAME AS PREVIOUS CAST

Water Properties Group — Rosette Log

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

Start 12:10AM UTC (17:04)

Cruise ID: 2010-07 **Station:** MK-2 **Event #:** 012 **Ship:** LSSL ANALYSIS **UTC Date (dd|mmm|yyyy):** 20 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T1	T2	T3			Comments: PROBLEMS
1	170	1297	6.584	439		6.577	456	6.574				1.1	1.0	1.0			
2	171	1202	6.681									0.8					
3	172	1429	6.624									0.8					
4	173	329	6.596									0.9					
5	174	1136	6.583									0.9					
6	175	1270	6.514	1241		6.511						0.9	1.0				1241 - one bad pt → check
7	176	1280	6.512									0.9					
8	177	—	—														Niskin Empty
9	178	1228	6.365									0.7		O2 check			
10	179	1276	6.369									0.5		raw titre			
11	180	1282	6.377	6.381 Recalc (hydox)								0.3		0.67174 mV ↑			OT - bad curve *check
12	181	1238	6.233									-0.2		- OT: 0.049958			check *
13	182	458	6.191									-0.7		= 0.621739			
14	183	1271	6.187	1219		6.189						-0.7	-0.6				OT - bad curve (S-shaped @ top) → OT slightly better *drops good
15	184	1424	6.150									-0.7			*		
16	185	1486	6.301									-0.7					check - poor regression?
17	186	1302	6.707									-0.7					NO PLOT - data ok?
18	187	1274	7.131									-0.7					check
19	188	1290	9.086									0.0					Nice ☺
20	189	1281	9.023									0.7					Nice
21	190	1291	8.527									2.3			*		OT - bad line *OT curve slightly better
22	191	1417	7.936									4.6					OT - Only slightly better
23																	
24																	

Margin notes: Go shake + water (row 1); flush burette (row 14); S-shaped @ top ▼ (same in OT curve); Stir bar [illegible] (rows 14–18)

Watchkeeper(s):

Bottom Depth: ______ m

Transmisso Cleaned: Y / N

Time	*UTC*	*Local*
Start		
Bottom		
End		

Positional Information

Start	Lat: °	N
	Lon: °	W
Bottom	Lat: °	N
	Lon: °	W
End	Lat: °	N
	Lon: °	W

Oxygen Info For This Cast

Blank Value: ______ mL·L⁻¹

Std Value: ______ mL·L⁻¹

*Date Run: ___ | ___ | ___

Analyst: ______

** Oxygen blanks and standards should be run daily, if possible*

SHIP ROLLING - Stir bar?

99 Loop N/A # 833 (constatwn) = 8.510 mL/L

Avg Thio Titre (20°C) =
Avg Blank =

Temp @ Stnd = KIO_3 =
Thio =

Thio N =
KIO_3 N =

Same as previous

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 Station: MK-1 Event #: 013 Ship: LSSL UTC Date (dd|mmm|yyyy): 20 | SEPT | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
																	PROBLEMS ~~856 = OT (bad curve) (OT bad too)~~
1	192	854	6.322	855		6.320	856	6.327				1.2	0.8	0.5			855 = OT (bad curve) (OT much better)
2	193	857	6.304									0.5					
* 3	194	858	6.291									0.3					OT (Same = poor) O2 CHECK! *
4	195	859	6.215									-0.5					good
5	196	848	6.268									-0.8					good
6	197	849	6.435									-0.8					good
7	198	850	6.639									-0.8					✓
8	199	851	8.037	852		8.036						-0.6	-0.5				good dups ✓
9	200	853	8.850									-0.6					✓
10	201	842	9.071									-0.5					✓
11	202	835	8.686									1.4					✓
12	203	844	7.901									4.1					✓
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Watchkeeper(s): _____

Start 1544 AM (1948)

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

SHIP ROLLING

99 loop ___ # (Same case conc'n from prev. cast) Avg thio titre (20°C) = Avg blank = Temp @ Stnd KIO_3 = Thio = Thio N = KIO_3 N = Same as previous

(M)

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** CB28aa **Event #:** 014 **Ship:** CCGS **UTC Date (dd|mmm|yyyy):** 20 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL • L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	204	846	7.503	847		7.516	836	7.517				-0.3	-0.6	-0.7			✓✓✓
2	205	837	7.843									-0.7					✓
3	206	839	8.796									-0.5					✓dosimat display delayed ?
4	207	840	8.950									-0.1					✓
5	208	841	8.787									1.0					✓
6	209	830	8.742									1.2					✓
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

✓ clean H_2O – back again

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL • L^{-1}

Std Value: _____ mL • L^{-1}

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

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

99 loop ___ #
(can't run from previous case)

Avg thio titre (20°C) =
Avg blank =

Temp @ Stnd : KIO_3 =
Thio =

Thio N =
KIO_3N =

Same as previous

Water Properties Group

Rosette Log

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

Cruise ID: 2010-07 **Station:** MK3a **Event #:** 015 **Ship:** LSSL **~~UTC~~ Date (dd|mmm|yyyy):** 20 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl *a*	NH_4	T_1	T_2	T_3			Comments
1	210	1023	6.816	1352		6.821	1430	6.825				0.7	0.7	0.8			GOOD RUN
2	211	586	6.850									0.7					
3	212	575	6.826									1.0					
4	213	1493	6.800									1.0					
5	214	1150	6.757									1.2					
6	215	1356	6.705									1.3					
7	216	1434	6.667									1.6					
8	217	1341	6.602									1.5					
9	218	1446	6.596	1457		6.591						1.4	1.7				
10	219	1416	6.520									1.6					
11	220	1413	6.367									1.3					
12	221	1277	6.394									1.2					
13	222	1348	6.383									1.0					
14	223	1212	6.314									0.9					
15	224	1288	6.202									0.4					
16	225	1268	6.205									0.3					
17	226	1471	6.312									0.5					
18	227	658	6.374									0.2					
19	228	1119	6.579	1331		6.580						0.0	0.1				
20	229	1449	7.036									0.3					check
21	230	1370	8.830									0.8					
22	231	1188	8.982									0.5					
23	232	1433	7.719									1.0					
24	233	1442	7.425									0.4					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	*UTC*	*Local*
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L^{-1}

Std Value: _____ mL·L^{-1}

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

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

99 Loop 30 Flask 425 = 8.086 mL/L

(Same as previous stations today

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 Station: MK-4 Event #: 016 Ship: LSSL UTC Date (dd|mmm|yyyy): 20 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
																	Very Good Run
1	235	1474	6.803	1369		6.814	1499	6.808				1.0	0.8	0.8			
2	236	1225	6.855									0.7					
3	237	1418	6.845									0.7					
4	238	1223	6.823									0.8					
5	239	1264	6.804									1.0					
6	240	1216	6.744									1.2					
7	241	1443	6.710									1.2					
8	242	1328	7.860	1482		7.861						0.3	0.4				
9	243	1445	6.601									1.2					
10	244	1286	6.515									1.2					
11	245	1293	6.394									1.1					
12	246	1363	6.389									0.9					
13	247	1299	6.378									0.5					
14	248	1484	6.303									0.1					
15	249	1452	LOST									-0.3					Forgot stir Bar - tried!
16	250	1422	6.204									-0.3					
17	251	1361	6.275									-0.3					
18	252	1366	6.554									-0.1					
19	253	1381	6.954	1343		6.957						-0.3	-0.2				
20	254	705	7.908									0.0					
21	255	1494	8.822									0.3					
22	256	1364	9.044									0.8					
23	257	1244	8.785									2.1					
24	258	1347	7.715									5.6					

* rinse with water bath

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

*Date Run: ___ | ___ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

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

99 Loop 32 Flask 804 = 8.726 mL/L
(* Dosimat display delayed)

KIO3 Temp@Stnd = 22.0°C
Thio " = 22.2°C

Thio N = 0.24199 Thio Titre (20°C)
103N = 0.0121603 = 0.50198
Blank = 0.00065

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** MK-6 **Event #:** 017 **Ship:** LSSL **UTC Date (dd|mmm|yyyy):** 21 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	259	824	6.550	825		6.546	826	6.541				1.0	0.9	0.1			Triplicate = Flask 826
2	260	827	6.621									0.0					
3	261	828	6.814									0.0					One point bad - curve ok
4	262	829	6.842									0.3		JC Sampled			
5	263	820	6.831									0.3		(MC finishing			
6	264	819	6.820									0.4		sample analysis)			
7	265	818	6.725									0.6					
8	266	821	7.960									0.8					
9	267	822	6.676									0.7					
10	268	823	6.708	812		6.705						0.8	1.2	MC cont'd			
11	269	813	6.562									1.0					
12	270	814	6.505									0.8					
13	271	815	6.467									0.1					
14	272	807	6.311									-0.4					
15	273	816	6.087									-0.6					
16	274	817	6.035									-0.7					
17	275	806	6.343									-0.7					
18	276	808	6.494									-0.5					
19	277	809	6.944									-0.7					
20	278	810	7.733									-0.5					
21	279	811	8.744	803		8.744						-0.1	0.0				good dup!
22	280	800	9.427									-0.3					
23	281	801	8.229									3.0					
24	282	802	8.480									1.5					

Jeffrey C. Sampled

Comments: GREAT RUN! (wrong # on bottle tag 869)

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start	Lat:	°	N
	Lon:	°	W
Bottom	Lat:	°	N
	Lon:	°	W
End	Lat:	°	N
	Lon:	°	W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

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

KIO3 Temp@ stnd = 22.0°C Thio N = 0.24199 Thio Titre (20°C) = 0.50198
Thio Temp@stnd = 22.2°C 103N = 0.0121603
Blank = 0.000065

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** CB-286 **Event #:** 019 **Ship:** LSSL **UTC Date (dd|mmm|yyyy):** 21 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	303	854	6.561	855		6.560	856	6.562				0.5	0.5	0.3			855 856 → one bad pt - curves OK
2	304	857	6.792									0.1					
3	305	858	6.839	859		6.839						0.3	0.3				good dups
4	306	848	6.837									0.3					
5	307	849	6.818									0.5					check curve
6	308	850	6.780									0.5					
7	309	851	6.747	852		6.744						0.7	0.7				
8	310	853	6.708									0.8					
9	311	842	6.647									0.9					
10	312	835	6.584									0.8					
11	313	844	6.489									0.7					
12	314	846	6.410									0.7					
13	315	847	6.423									0.0					
14	316	836	6.433									0.0					
15	317	837	6.184									-0.3					
16	318	839	6.102									-0.5					
17	319	840	6.228	841		6.232						-0.6	-0.3				840 - one bad pt. - curves ok
18	320	830	6.361									-0.3					No plot
19	321	838	7.142									-0.4					
20	322	831	8.584									-0.3					
21	323	832	9.217									0.6					
22	324	833	9.123									0.6					
23	325	843	8.896									0.9					
24	326	834	8.256									2.6					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	*UTC*	*Local*
Start		
Bottom		
End		

Positional Information

Start	Lat:	°	N
	Lon:	°	W
Bottom	Lat:	°	N
	Lon:	°	W
End	Lat:	°	N
	Lon:	°	W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

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

99 loop 55 Flask # 1309 = 8.945 mL/L
(one bad pt in check curve)

Start 3:07 am UTC

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** CB29 **Event #:** 020 **Ship:** LSSL **UTC Date (dd|mmm|yyyy):** 21 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
																	GOOD RUN.
1	327	425	6.476	1474		6.475	1347	6.476				0.3	0.0	-0.1			425 dosimat display slows to response
2	328	1244	6.520									-0.3					
3	329	1364	6.647									-0.2					
4	330	1494	6.807									-0.1					
5	331	705	6.868									0.1					
6	332	1343	6.857									0.3					
7	333	1381	6803									0.5					
8	334	1366	6.721	1361		6.719						0.6	0.7				1366 - one bad pt
9	335	1422	6.660									0.7					
10	336	1452	6.596									0.7					
11	337	1484	6.530									0.9					
12	338	1299	6.450									0.5					two bad pts - curve OK
13	339	1363	6.455									0.3					one bad pt. - check regression?
14	340	1293	6.425									-0.4					
15	341	1286	6.158									-0.8					
16	342	1445	6.116	1482		6.119						-0.9	-0.9				
17	343	1328	6.129									-0.8					
18	344	1443	6.891									-0.9					
19	345	1216	6.955									-0.7					
20	346	1204	7.675									-0.4					
21	347	1223	8.469									0.0					
22	348	1418	9.129									0.0					
23	349	1225	9.124									0.1					
24	350	1499	8.773									NA					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	*UTC*	*Local*
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___|___|____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

No temp recorded on logsheet → use 1.0°C for computer file

99 Loop 37 Flask 439 = 8.824 mL/L

(INFO SAME AS PREVIOUS)

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** MK-7 **Event #:** 021 **Ship:** LSSL **UTC Date (dd|mmm|yyyy):** 21 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	351	1279	6.512	1432		6.512	1141	6.507				+0.3	+0.1	0.0			
2	352																Nutrient Stnd Bottle
3	353	1291	6.661									-0.2					
4	354	1281	6.836									-0.2					
5	355	1417	6.859									0.1					
6	356	1290	6.840									0.3					
7	357	1274	6.762	1362		6.768						0.5	0.5				
8	358	1486	6.761									0.6					
9	359	1424	6.728									0.7					
10	360	1219	6.615									0.7					
11	361	1271	6.490									0.6					
12	362	458	6.515									0.4					
13	363	1238	6.530									0.0					
14	364	1282	6.467									-0.4					
15	365	1276	6.159	1228		6.142						-0.7	-0.7				
16	366	1267	6.088									-1.0					
17	367	1280	6.169									-0.9					re-draw
18	368	1241	6.657									-0.5					
19	369	1270	7.072									-0.9					
20	370	1136	7.364									-0.6					
21	371	329	8.546									-0.1					
22	372	1429	9.138									0.2					
23	373	1202	9.079									0.0					
24	374	456	8.856									-0.4					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	*UTC*	*Local*
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L^{-1}

Std Value: _____ mL·L^{-1}

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

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

Temp = -0.8 °C 99 loop 41 Flask# 805 = 8.949 mL/L KIO3 Temp (@ stnd) = 22.3°C Thio Temp (@ stnd) = 22.8°C Thio Titre (20°C) = 0.50224 Blank = 0.000161 Thio N = 0.24183 103 N = 0.0121603

(M)

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 Station: CB27 Event #: 022 Ship: LSSL ~~UTC~~ Date (dd|mmm|yyyy): 22 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	375	824	6.476	825		6.518	826	6.513				0.4	0.3	0.3			*824 - wrong flask#
2	376	827	6.564									0.0					
3	377	828	6.673			6.508	Re calc'd hydox ✓					0.0					
4	378	829	6.847									0.1					
5	379	820	6.850									0.4					
6	380	819	6.826	818		6.832						0.7	0.9				
7	381	821	6.769									1.2					
8	382																EMPTY NISKIN
9	383	823	6.740									1.6					
10	384	812	6.691									1.4					
11	385	813	6.642									1.3					No plot - blank screen
12	386	814	6.620									1.2					
13	387	815	6.642									0.4					
14	388	807	6.668									0.0					
15	389	816	6.246									-0.5					
16	390	817	6.090									-0.6					
17	391	806	6.114									-0.7					
18	392	808	6.299									-0.5					one bad pt - line ok
19	393	809	6.971									-0.3					
20	394	810	7.387									0.0					
21	395	811	8.012									0.5					
22	396	803	9.210	800		9.224						0.5	0.3				
23	397	801	8.844									0.5					
24	398	802	8.851									0.3					

* re-calc

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N Lon: ° W

▼

Bottom — Lat: ° N Lon: ° W

▼

End — Lat: ° N Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008 **Transmissometer to be cleaned before each cast, do not use Ammonia products** http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

KS drawn | KY pickle

Good run!

99 loop 44 Flask #439 = 8.814 mL/L
T = -0.8°C

From titre (20°C) = 0.50228
Blank = 0.00045
Thio N = 0.24172

103N = 0.0121603
Temp @ Stnd: KIO_3 = 22.4 °C
Thio = 22.6 °C

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** CB-22 **Event #:** 023 **Ship:** LSSL **Analysis UTC Date (dd|mmm|yyyy):** 22 | SEPT | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	°C: T_1	°C: T_2	°C: T_3	Comments
1	399	1279	6.498	1432		6.502	141	6.496				0.3	0.2	0.3	
2	400	1291	6.557									-0.2			one bad pt - curve ok
3	401	1281	6.667									-0.1			
4	402	1417	6.817									0.0			
5	403	1290	6.852									0.1			
6	404	1274	6.823									0.4			(one bad pt - curves OK)
7	405	1362	6.780									0.5			(in middle of curve)
8	406	1486	6.793									0.7			
9	407	1424	6.741									0.7			
10	408	1219	6.710	1271		6.706						0.8	0.9		
11	409	458	6.635									0.7			
12	410	1238	6.612									0.5			
13	411	1262	6.622									0.4			
14	412	1276	6.642									-0.3			
15	413	1228	6.131	1267		6.111						0.7	(0.7)		Missing temp or dup on rosette log
16	414	1280	6.124									0.7			
17	415	1241	6.365									-1.0			
18	416	1270	6.733									-0.7			
19	417	1136	7.136									-0.7			
20	418	329	7.478									-0.3			
21	419	1429	8.484									0.0			
22	420	1202	9.061									0.2			
23	421	456	9.122									0.5			ony
24	422	1278	8.884									0.2			

Comments: Great run!

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008 **Transmissometer to be cleaned before each cast, do not use Ammonia products** http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

This cast first one run with new acid batch 0902NN May 22 2009

JE draw, pickle Ky

99 Loop 48 Flask 834 = 8.538 mL/L Thio titre (20°C) = 0.49200 Blank = 0.00086 Thio N = 0.24271 IO3N = 0.01195016 KIO3 Temp @ Stnd = 22.7°C Thio Temp @ Stnd = 22.5°C

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** CB-23a **Event #:** 024 **Ship:** LSSL **UTC Date (dd|mmm|yyyy):** 23 | SEPT | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
	UTC 10:40 PM																Great run!
1	423	854	6.502	855		6.506	856	6.499				0.5	0.3	0.1			
2	424	857	6.658									-0.1					
3	425	858	6.815									0					
4	426	859	6.886									0.1					
5	427	848	6.878									0.2					
6	428	849	6.838	850		6.837						0.4	0.5				
7	429	851	6.817									0.6					
8	430	852	6.804									0.7					
9	431	853	6.769									0.8					DIU bad pt - curve OK
10	432	842	6.724									0.9					
11	433	835	6.655									0.8					
12	434	844	6.620									0.6					
13	435	846	6.564									0.3					
14	436	847	6.365									-0.3					
15	437	836	6.214									-0.3					
16	438	837	6.020									-0.4					
17	439	839	6.030									-0.4					
18	440	840	6.073									-0.5					
19	441	841	6.848									-0.7					
20	442	830	7.650									-0.4					
21	443	838	8.871	831		8.862						-0.5	-0.4				
22	444	832	9.452									-0.5					
23	445	833	9.180									0.1					
24	446	843	8.794									-0.2					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	*UTC*	*Local*
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N Lon: ° W

Bottom — Lat: ° N Lon: ° W

End — Lat: ° N Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008 — **Transmissometer to be cleaned before each cast, do not use Ammonia products** — http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

First cast run with new Stnd + new NaI/NaOH.

99 Loop 49 Flask 805 = 8.736 mL/L
T = 0°C

* Info same as previous cast

Water Properties Group — Rosette Log

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

Cruise ID: 2010.07 Station: CBSD Event #: 026 Ship: LSL UTC Date (dd|mmm|yyyy): 23 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	470	824	6.507	825		6.518	826	6.51	3			0.5	0.5	0.0			Great Run!
2	471	827	6.569									-0.2					one bad pt - line in OK
3	472	828	6.674									-0.1					
4	473	829	6.859									0.0					
5	474	820	6.875									0.3					
6	475	819	6.847									0.5					
7	476	818	6.775	821		6.778						0.8	1.0				
8	477	822	6.796									1.0					
9	478	823	6.761									1.0					
10	479	812	6.758									1.1					
11	480	813	6.692									1.1					
12	481	814	6.617									0.9					
13	482	815	6.618									0.8					
14	483	807	6.656									0.5					
15	484	816	6.490	817		6.489						0.3	0.5				
16	485	806	5.962									-0.3					one bad pt - kink OK
17	486	808	6.015									-0.2					one bad pt - line OK
18	487	809	6.040									0.0					
19	488	810	6.657									-0.3					
20	489	811	7.319									-0.1					
21	490	803	8.389									0.3					
22	491	801	9.436									0.0					
23	492	800	9.227									0.5					
24	493	802	8.827									-0.1					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

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

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** CB51 **Event #:** 027 **Ship:** LSSL **UTC Date (dd|mmm|yyyy):** 23 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL•L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl *a*	NH_4	T_1	T_2	T_3			Comments
																	Great run!
1	494	425	6.545	1309		6.550	1499	6.546				0.3	0.3	0.3			
2	495	1225	6.632									0.1					
3	496	1418	6.819									0.1					
4	497	1223	6.881									0.2					
5	498	1204	6.878									0.4					
6	499	1216	6.850									0.7					
7	500	1443	6.765	1328		6.758						0.8	1.0				
8	501	1482	6.738									0.9					
9	502	1445	6.683									1.0					
10	503	1286	6.563									1.0					
11	504	1293	6.327									0.7					
12	505	1363	6.300									0.7					
13	506	1299	6.092									0.4					
14	507	1422	6.118	1361		6.122						-0.1	0.0				
15	508	1484	6.010									0.0					
16	509	1452	5.960									-0.3					check?
17	510	1366	6.030									-0.5					
18	511	1381	6.048									-0.3					
19	512	1343	6.872									-0.5					
20	513	705	7.494									-0.2					one bad pt → line good
21	514	1494	8.752									0.0					
22	515	1364	9.136									0.0					
23	516	1244	9.240									0.0					
24	517	1347	8.808									0.3					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	*UTC*	*Local*
Start		
Bottom		
End		

Positional Information

Start	Lat:	°	N
	Lon:	°	W
Bottom	Lat:	°	N
	Lon:	°	W
End	Lat:	°	N
	Lon:	°	W

Oxygen Info For This Cast

Blank Value: _____ mL•L^{-1}

Std Value: _____ mL•L^{-1}

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

99 Loop 65 Flask# 834 = 8.292 mL/L 1.9°C

KIO_3 Temp @ stnd = 22.3°C
Thio Temp @ stnd = 22.4°C

Thio Titre (20°C) = 0.49187
Blank = 0.00082

*Thio N = 0.24277
IO_3N = 0.0119506

Start 17:06 (UTC 12:43 AM)

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** Sta A **Event #:** 029 **Ship:** LSSL **UTC Date (dd|mmm|yyyy) (analysis):** 27 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
																	Good run
1	542	854	6.525	855		6.529	856	6.534				0.7	0.3	0.3			
2	543	857	6.528									0.0					
3	544	858	6.597									0.0					
4	545	859	6.699									0.0					
5	546	848	6.855									0.0					No curve plotted
6	547	849	6.872									0.4					
7	548	850	6.839	851		6.840						0.6	0.6				Ignore "dup" comment on 850
8	549	852	6.780									0.8					
9	550	853	6.716									1.0					
10	551	842	6.749									1.1					
11	552	835	6.722									1.0					Chip in flask; one bad pt (curvefit OK)
12	553	844	6.623									1.0					
13	554	846	6.538									0.7					
14	555	847	6.310									-0.2					
15	556	836	6.216									-0.4					
16	557	837	6.184	843		6.201						0.1	0.0				bad dup
17	558	839	6.281									-0.1					
18	559	840	6.569									-0.3					
19	560	841	7.067									-0.4					
20	561	830	7.944									0.0					
21	562	838	8.749									0.4					one bad pt - curve good
22	563	831	9.192									0.7					
23	564	832	9.022									1.0					
24	565	833	8.413									1.7					Wrong no. on rosette log (834) One bad pt - Time OK

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start	Lat:	°	N
	Lon:	°	W
Bottom	Lat:	°	N
	Lon:	°	W
End	Lat:	°	N
	Lon:	°	W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Ship rolling today

99 loop 69 Flask # 439 = 8.841 mL/L
-0.6°C

This N = 0.24277

Info same as previous cast

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 Station: CB2a Event #: 030 Ship: LSSL UTC Date (dd|mmm|yyyy): 27 | SEP | 2010

Analysis

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
																	Great run!
1	S66	1297	6.557	1141		6.539	1278	6.542				0.2	0.5	0.2			1278 - barely a H_2O small left
2	S67	1202	6.560									0.1					
3	S68	456	6.610									0.0					
4	S69	1429	6.702									0.0					
5	S70	329	6.865									0.0					
6	S71	1136	6.916									0.3					
7	S72	1270	6.846	1241		6.841						0.6	0.6				
8	S73	1280	6.770									0.8					
9	S74	1267	6.671									0.9					
10	S75	1228	6.606									1.0					
11	S76	1276	6.524									0.9					
12	S77	1282	6.407									0.8					
13	S78	1238	6.395									0.2					
14	S79	458	6.365									-0.3					
15	S80	1271	6.247	1219		6.244						-0.4	-0.2				
16	S81	1424	6.255									-0.8					
17	S82	1486	6.326									-0.5					
18	S83	1362	6.463									-0.5					
19	S84	1274	7.017									-0.7					
20	S85	1290	7.585									-0.4					
21	S86	1417	9.220									0.1					
22	S87	1281	9.206									0.3					
23	S88	1432	8.038									3.8					
24	S89	1279	8.118									2.6					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start	Lat:	°	N
	Lon:	°	W
Bottom	Lat:	°	N
	Lon:	°	W
End	Lat:	°	N
	Lon:	°	W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Nightwatch Sampled

99 Loop ___ Flask # = mL/L (cont'd straight from previous cast)

This N= 024277 Info same as previous cast

Water Properties Group — Rosette Log — Institute of Ocean Sciences, Ocean Sciences Division, Sidney, BC

start 2000 (UTC 2054)

cleaned H2O both

Cruise ID: 2010-07 **Station:** CB2 **Event #:** 031 **Ship:** LSSL **UTC Date (dd|mmm|yyyy):** 27 | SEP | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	590	824	6.536	825		6.546	826	6.540				0.7	-0.4	0.3			GREAT RUN!
2	591	827	6.555									0.0					
3	592	828	6.643									0.1					
4	593	829	6.725									0.0					
5	594	820	6.916	819		6.919						0.2	0.3				
6	595	818	6.796									0.4					
7	596	821	6.881									0.5					
8	597	822	6.728									0.9					
9	598	823	6.630									1.2					
10	599	812	6.610									1.2					
11	600	813	6.517									1.1					
12	601	814	6.394									1.0					
13	602	815	6.390									0.6					
14	603	807	6.263									-0.1					
15	60A	816	6.214	817		6.210						-0.2	0.0				
16	605	806	6.428									0.1					
17	606	808	6.623									0.0					
18	607	809	6.743									0.3					
19	608	810	6.992									0.1					
20	609	811	7.745									0.7					
21	610	803	8.731									0.6					
22	611	801	9.214									0.9					
23	612	800	9.225									0.6					
24	613	802	8.491									2.2					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	*UTC*	*Local*
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008 **Transmissometer to be cleaned before each cast, do not use Ammonia products** http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

99 loop N/A Flask # 1295 = 8.756 mL/L
(@ mooring A (Taken on station - not underway)) @ 13:45 (ship time) 08:50 UTC

Temp @ stud ⇒ KIO3 = 22.7°C
Thio = 22.8°C

Thio titre (20°C) = 0.49184
Blank = 0.00078

* Thio N = 0.24274
103 N =

START
13 45 (ship)
08:52 (UTC)
finish
14 42 (ship)
0948 (UTC)

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** CB3 **Event #:** 032 **Ship:** LSSL **UTC Date (dd|mmm|yyyy):** 28 | SEP | 2010 (Analysis)

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	614	854	6.540	855		6.539	856	6.535				0.2	0.0	0.6			V. Good Run!
2	615	857	6.545									-0.1					
3	616	858	6.600									-0.1					
4	617	859	6.715									-0.1					
5	618	848	6.866									0.0					
6	619	849	6.885									0.3					
7	620	850	6.851									0.5					
8	621	851	6.800									0.7					check - late endpoint?
9	622	852	6.689	853		6.692						0.9	1.0				
10	623	842	6.735									1.0					
11	624	835	6.609									1.0					
12	625	844	6.483									1.0					
13	626	846	6.368									0.4					
14	627	847	6.349									-0.2					
15	628	836	6.253									-0.3					
16	629	837	6.393									-0.5					
17	630	843	6.517									-0.6					
18	631	839	6.668									-0.5					
19	632	840	7.131									-0.5					
20	633	841	7.367	830		7.373						-0.1	0.0				830 - one bad pt - line good
21	634	838	8.419									0.4					
22	635	831	8.900									0.9					
23	636	832	8.854									0.8					
24	637	833	8.390									1.7					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

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

99 loop 74 Flask 1295 = 8.543 (-0.7°C)

Temp @ Stnd : KIO_3 = 22.6°C This = 23.0°C

This Titr (20°C) = 0.50734 Blank = 0.00069

This N = 0.24251

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 Station: CB4 Event #: 033 Ship: LSSL UTC Date (dd|mmm|yyyy): 29 | SEP | 2010 (Analysis)

Niskin #	Sample #	Oxygen Titrations Flask Serial #	Oxygen Titrations Value mL·L^{-1}	Rosette Operation Target Pressure	Rosette Operation Confirmed √	Rosette Operation Confirmed Pressure	Samples Taken Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	638	1297	6.547	1141		6.547						0.9	0.9				1297 - water seal almost gone
2	639	1278	6.487									0.4					
3	640	1202	6.425									0.0					
4	641	456	6.416									-0.2					
5	642	1429	6.312									-0.4					
6	643	329	6.342	1136		6.339						-0.7	-0.7				
7	644	1270	6.467									-0.9					
8	645	1241	6.517									-1.0					
9	646	1280	6.570	1267		6.547						-0.9	-0.7				poor dup
10	647	1228	6.556									-0.9					
11	648	1276	6.574									-0.8					
12	649	1282	6.615									-0.7					
13	650	1238	6.715	458		6.718						-0.7	-0.5				
14	651	1271	7.555									-0.1					
15	652	1219	7.148									-0.5					
16	653	1424	7.509									-0.1					
17	654	1486	7.908									0.1					
18	655	1362	8.134									0.4					
19	656	1274	8.450									0.5					
20	657	1290	8.616									0.5					
21	658	1417	8.818									0.4					
22	659	1281	9.069	1432		9.066						0.0	0.2				
23	660	1279	8.842									0.1					
24	661	1291	8.820	439		8.822						0.0	-0.3				

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L^{-1}

Std Value: _____ mL·L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

* First cast run with new standard Batch 1007A, June 10, 2010

99 Loop N/A Flask 1295 = 8.792 mL/L
(deploying Mooring A - not underway)

I/o Sonic as previous cast.

START @ 10:00 PM UTC

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 Station: CB-4 Event #: 034 Ship: LSSL UTC Date (dd|mmm|yyyy): 29 | SEP (Analy.) | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
																	Great Run!
1	662	1474	6.528	1744		6.532	1347	6.537				1.1	0.7	0.6			1347 - one bad pt - line good
2	663	1364	6.532									0.4					
3	664	1494	6.599									0.3					
4	665	425	6.721									0.3					Wrong flask no on rosette log
5	666	705	6.867									0.3					
6	667	1343	6.873	1381		6.879						0.6	0.6				
7	668	1366	6.845									0.7					
8	669	1452	6.755									0.9					
9	670	1484	6.708									1.1					
10	671	1422	6.708									1.2					
11	672	1299	6.623									1.2					
12	673	1363	6.581									1.2					
13	674	1293	6.429									0.5					
14	675																NO TRIP NISKIN
15	676	1445	6.289	1418		6.288						0.1	0.1				
16	677	1482	6.527									-0.3					chipped flask
17	678	1328	6.571									-0.1					
18	679	1443	6.742									-0.3					
19	680	1216	7.060									0.0					
20	681	1204	7.299									0.5					
21	682	1223	8.461									1.2					one bad pt → line ok
22	683	1225	8.721									1.2					
23	684	1499	9.106									0.9					
24	685	1309	8.807									0.0					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

991 Loop 79 Flask 805 = 8.781 mL/L

Info same as prev. START 1705 SHIP UTC = 12:09 AM (305 GMT)

(Cleaned H_2O both)

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 Station: CBS Event #: 035 Ship: CSSC UTC Date (dd|mmm|yyyy): 29 | SEP | 2010 (Anal)

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L^{-1}	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	686	824	6.534	825		6.538	826	6.536				0.1	0.0	0.0			Great run!
2	687	827	6.534									-0.1					
3	688	828	6.603									-0.2					
4	689	829	6.717									0.0					
5	690	820	6.871									0.0					
6	691	819	6.880	818		6.888						0.2	0.3				
7	692	821	6.850									0.4					
8	693	822	6.795									0.7					
9	694	823	6.720									0.7					
10	695	812	6.750									0.9					
11	696	813	6.682	814		6.677						0.9	1.0				
12	697	815	6.544									0.8					
13	698	807	6.420									0.2					
14	699	816	8.549									0.5					HIGH?
15	700	817	6.284									-0.4					
16	701	806	6.529									-0.8					
17	702	808	6.558									-0.8					
18	703	809	6.632									-0.7					
19	704	810	7.055									-0.7					
20	705	811	7.443									-0.2					
21	706	803	8.516									0.3					
22	707	801	8.903									0.3					
23	708	800	9.085									0.4					
24	709	802	8.459									1.0					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L^{-1}

Std Value: _____ mL·L^{-1}

*Date Run: ___ | ___ | ____

Analyst: _____

* Oxygen blanks and standards should be run daily, if possible

99 Loop 86 Flask 1452 = 8.878 mL/L
-0.9

This titre (20°C) = 0.50730
Blank = 0.00073

This N = 0.24254

Temp @ stnd: KIO3 = 22.6 °C
This = 22.7°C

Water Properties Group

Rosette Log

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

Finish 9:45 UTC 14:40 ship

Cruise ID: 2010-07 **Station:** CB-7 **Event #:** 036 **Ship:** LSL **UTC Date (dd|mmm|yyyy):** 30 | SEP | 2010 (Analysis)

Niskin #	Sample #	Oxygen Titrations Flask Serial #	Oxygen Titrations Value mL·L⁻¹	Rosette Operation Target Pressure	Rosette Operation Confirmed √	Rosette Operation Confirmed Pressure	Samples Taken Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	710	854	6.570	855		6.537	856	6.532				-0.3	-0.1	-0.3			*See rosette log sheet → left 5 min bf pickling
2	711	857	6.533									-0.3					
3	712	858	6.597									-0.3					
4	713	859	6.704									-0.3					
5	714	848	6.866									-0.1					
6	715	849	6.888									0.3					No plot (blank screen)
7	716	850	6.869									0.5					
8	717	851	6.820	852		6.818						0.7	0.8				851 - 2 bad pts - rest good
9	718	853	6.746									0.7					
10	719	842	6.762									0.9					
11	720	835	6.680	844		6.678						0.8	1.0				
12	721	846	6.550									0.7					
13	722	847	6.399									0.2					
14	723	836	6.295									-0.3					
15	724	837	6.255									-0.3					
16	725	843	6.513									-0.6					
17	726	839	6.474									-0.5					
18	727	840	6.513									-0.5					
19	728	841	6.907									-0.4					
20	729	830	7.153									-0.2					
21	730	838	8.052									0.7					
22	731	831	8.686									1.1					
23	732	832	9.088									0.5					
24	733	833	8.872									0.0					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	*UTC*	*Local*
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

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

99 Loop 87 Flask 439 = 8.920 mL/L
-0.8°C

1/2 fb same as previous

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 Station: CB-8 Event #: 037 Ship: LSSL UTC Date (dd|mmm|yyyy): 30 | SEP | 2010

Analyst

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	734	1297	6.534	1141		6.534	1278	6.537				0.7	0.4	0.2			Great run!
2	735	1202	6.540									0.0					
3	736	456	6.604									-0.1					
4	737	1429	6.723									-0.1					
5	738	329	6.872									0.0					
6	739	1136	6.905									0.3					
7	740	1270	6.885									0.5					
8	741	1241	6.817	1280		6.834						0.8	0.8				
9	742	1267	6.794									1.0					
10	743	1228	6.772									0.9					
11	744	1276	6.711	1282		6.707						1.0	1.0				
12	745	1238	6.583									0.7					
13	746	458	6.443									0.2					
14	747	1271	6.320									-0.2					
15	748	1219	6.230									-0.5					
16	749	1424	6.505									-0.7					
17	750	1486	6.531									-0.7					
18	751	1362	6.592									-0.6					
19	752	1274	6.784									-0.5					
20	753	1290	7.206									-0.3					
21	754	1417	8.002									0.5					
22	755	1281	8.308									0.7					
23	756	1432	9.071									0.2					
24	757	1279	8.898									-0.4					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

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

99 Loop N/A Flask # 805 = 8.936 mL/L Temp @ stnd KIO_3 = 22.7 °C Thio titre (20°C) = 0.50710 Thio N = 0.24261

Taken @ Mooring B (not underway) Thio = 22.9 °C Blank = 0.00006

Water Properties Group — Rosette Log

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

Finish 935 UTC (1430 ship)

Cruise ID: 2010-07 Station: CB-10 Event #: 039 Ship: LSSL Analysis UTC Date (dd|mmm|yyyy): 01 | OCT | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	782	800	6.546	802		6.548	824	6.547				0.5	0.3	0.2			
2	783	825	6.661									-0.2					
3	784	826	6.858									0.0					
4	785	827	6.899									0.0					
5	786	828	6.911									0.1					
6	787	829	6.921									0.5					
7	788	820	6.876									0.5					
8	789	819	6.846									0.7					
9	790	818	6.796									0.9					
10	791	821	6.763									0.9					
11	792	822	6.718									0.8					
12	793	823	6.556									0.7					
13	794	812	6.304	813		6.306						0.3	0.5				813 - 2 bad pts - line good
14	795	814	6.253									0.3					No curve plotted (blank screen)
15	796	815	6.444									0.7					
16	797	807	6.601									-0.9					
17	798	816	6.520									-1.0					
18	799	817	6.461	806		6.457						-0.8	-0.6				
19	800	808	6.906									-0.6					
20	801	809	7.193									-0.3					
21	802	810	7.507									0.0					
22	803	811	8.235									0.2					
23	804	803	9.003									0.5					
24	805	801	8.884									-0.4					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N Lon: ° W

▼

Bottom — Lat: ° N Lon: ° W

▼

End — Lat: ° N Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

99 Loop 94 Flask 805 = 9.105 mL/L (−0.84%) Temp @ Stnd KIO_3 = 22.5°C Thio = 22.6°C Thio titre = 0.50809 Blank = 0.00074 Thio N = 0.24218

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** CB-70 **Event #:** 040 **Ship:** LSSL **UTC Date (dd|mmm|yyyy):** 02 | OCT | 2010 (Analysis)

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
																	Excellent run!
1	806	800	6.546	802		6.543	824	6.543				-0.4	-0.7	-0.7			
2	807	825	6.550									-1.2					
3	808	826	6.599									-1.1					
4	809	827	6.727									-1.1					
5	810	828	6.893	829		6.893						-1.0	-0.7				
6	811	820	6.937	819		6.938						-0.6	-0.5				
7	812	818	6.910									-0.7					
8	813	821	6.920									-0.5					
9	814	822	6.866									-0.5					
10	815	823	6.842									-0.4					
11	816	812	6.755									-0.2					
12	817	813	6.709									-0.3					
13	818	814	6.517									-1.0					
14	819	815	6.163	807		6.165						-1.0	-1.0				
15	820	816	6.397									-1.3					
16	821	817	6.408	806		6.403						-1.4	-1.4				
17	822	808	6.303									-1.4					
18	823	809	6.489									-1.3					
19	824	810	7.025									-1.2					
20	825	811	7.655									-0.9					
21	826	803	8.251									-0.7					
22	827	801	8.661									-0.7					
23	828	804	9.138									-0.7					
24	829	1452	8.868									-1.3					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	*UTC*	*Local*
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

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

99 Loop N/A Flask 1452 = 9.515 mL/L
Underway but system not logging.

Info same as previous cast

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** CB-70 **Event #:** 041 **Ship:** LSL **UTC Date (dd|mmm|yyyy):** 02 | OCT | 2010 (Anal.)

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	830	854	6.721	855		6.725	856	6.727				0.4	0.3	0.4			Excellent run!
2	831	857	6.667									-0.1					
3	832	858	6.635									-0.1					
4	833	859	6.609									-0.5					
5	834	848	6.534	849		6.542						-0.6	-0.3				
6	835	850	6.538									-0.8					
7	836	851	6.180									-1.0					
8	837	852	6.146									-1.2					
9	838	853	6.278									-1.3					
10	839	842	6.770									-1.4					
11	840	835	6.480									-1.6					
12	841	844	6.478									-1.5					
13	842	846	6.327									-1.5					
14	843	847	6.354									-1.5					
15	844	836	6.275									-1.4					
16	845	837	6.776									-1.3					
17	846	843	6.907	839		6.909						-1.2	-1.2				
18	847	840	6.933									-1.1					
19	848	841	7.241									-1.0					
20	849	830	7.420									-0.7					
21	850	838	7.928									-0.6					
22	851	831	8.883									-0.5					Noticed small bubble in T1 line (not moving)
23	852	832	8.962									-0.7					
24	853	833	8.940									-0.5					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	*UTC*	*Local*
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

* very bubbly loop sample (more air in lines than usual) * still bubbles visible after pickling. * garden hose not the best for sampling O_2

99 loop 98 Flask 1474 = 11.719 ml/L (-0.4°C) blank screen (no plot)

* Thio burette re-filled

Thio titre (20°C) = 0.50801 Blank = 0.00054

Thio N = 0.24211

Temp @ Stnd → KIO_3 = 22.6 °C Thio = 22.8°C

Start in 910 UTC 1404 ship

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** CB-11 **Event #:** 042 **Ship:** LSSL **UTC Date (dd|mmm|yyyy):** 03 | OCT | 2010 (Analysis)

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
																	Problems @ end of run
1	854	854	6.534	855		6.536	856	6.537				0.3	0.1	0.0			
2	855	857	6.535									-0.3					
3	856	858	6.597									-0.3					
4	857	859	6.703									-0.3					
5	858	848	6.866									-0.3					
6	859	849	6.922									0.0					
7	860	850	6.919									0.3					
8	861	851	6.849	852		6.850						0.5	0.7				
9	862	853	6.812									0.7					
10	863	842	6.770									0.7					
11	864	835	6.752	847		6.751						0.6	0.8				
12	865	846	6.701									0.7					
13	866	847	6.521									0.5					
14	867	836	6.341									-0.1					
15	868	837	6.156									-0.5					
16	869	843	6.383									-0.8					
17	870	839	6.474									-0.9					
18	871	840	6.428									-0.7					short curve - line OK
19	872	841	6.606									-0.9				*	circle - short curve + 1 bad pt
20	873	830	6.995									-0.7					short curve - line OK
21	874	838	7.390									-0.1				*	OT - problem curve (OT good)
22	875	831	8.524									-0.2					one bad pt - line OK
23	876	832	9.019									-0.2					short curve - line good
24	877	833	8.881									-0.4					short curve - one bad pt line OK

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

First cast run with new acid 0203NN, May 22, 2009.

99 Loop III ⇒ Flask 439 = 10.205 mL/L -0.6 °C
Temp @ stnd: KIO_3 = 22.8°C Thio = 22.7°C
Thio titre = 0.50021 Blank = 0.00058
Thio N = 0.24224

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** CB-9 **Event #:** 044 **Ship:** LSSL **UTC Date (dd|mmm|yyyy):** 5 | OCT | 2010 (Analysis (ship))

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL•L⁻¹	Rosette Operation: Target Pressure	Confirmed √	Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	902	800	6.600	824		6.536	825	6.545				0.0	0.3	0.1			800 - HIGH POOR REPS
2	903	826	6.531									-0.3					
3	904	827	6.600									-0.3					
4	905	828	6.715									-0.3					
5	906	829	6.868									-0.1					
6	907	820	6.890	819		6.894						0.1	0.3				
7	908	818	6.890									0.5					
8	909	821	6.832									0.6					
9	910	822	6.811	823		6.802						0.6	1.0				
10	911	812	6.769									0.9					
11	912	813	6.743									0.8					bump @ endpoint
12	913	814	6.579									0.7					
13	914	815	6.275									0.4					
14	915	807	6.291									-0.1					
15	916	816	6.465									-0.6					
16	917	817	6.518									-0.7					
17	918	806	6.491									-0.7					
18	919	808	6.555									-0.7					
19	920	809	6.798									-0.5					
20	921	810	7.028									-0.3					
21	922	811	7.448									0.2					
22	923	803	8.588									0.5					
23	924	801	9.055									0.5					
24	925	804	8.924									-0.3					

was flask 800 a redraw?

Watchkeeper(s): Redrawn into same flask

Bottom Depth: ____ m

Transmisso Cleaned: Y / N

Time	*UTC*	*Local*
Start		
Bottom		
End		

Positional Information

Start	Lat: ° N	Lon: ° W
Bottom	Lat: ° N	Lon: ° W
End	Lat: ° N	Lon: ° W

Oxygen Info For This Cast

Blank Value: ____ mL•L⁻¹
Std Value: ____ mL•L⁻¹
*Date Run: ___ | ___ | ___
Analyst: ____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008 **Transmissometer to be cleaned before each cast, do not use Ammonia products** http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Ship icebreaking - lots of jarring.
JE sampled oxy, confirm

99 loop 112 Flask 1291 = 10.229 mL/L -0.6°C Temp @ stnd KIO_3 = This nitrite = Blank = This N = Same as 044.

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 Station: CB-12 Event #: 047 Ship: LSSL UTC Date (dd|mmm|yyyy): ___ | OCT | 2010 (Analysis)

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
																	Good run - a few delayed end pts (stirring?) but lines good
1	950	854	6.540	855		6.539	856	6.543				-0.4	-0.3	-0.1			
2	951	857	6.544									-0.3					delayed endpoint /temp
3	952	858	6.597									-0.3					
4	953	859	6.716									-0.3					
5	954	848	6.866									-0.2					
6	955	849	6.905	850		6.903						0.2	0.3				
7	956	851	6.882									0.5					
8	957	852	6.730									0.7					
9	958	853	6.796									1.0					
10	959	842	6.819									1.2					
11	960	835	6.728									1.0					
12	961	844	6.662									1.2					
13	962	846	6.598									0.5					
14	963	847	6.471									0.0					
15	964	836	6.143									-0.3					
16	965	837	6.345									-0.5					
17	966	843	6.459									-0.4					
18	967	839	6.434									-0.4					
19	968	840	6.790	841		6.798						-0.8	-0.8				
20	969	830	7.118									0.0					
21	970	838	7.535									0.3					
22	971	831	8.326									0.5					
23	972	832	9.044									-0.6					
24	973	833	8.878									-0.1					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N Lon: ° W

▼

Bottom — Lat: ° N Lon: ° W

▼

End — Lat: ° N Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

*Date Run: ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008 **Transmissometer to be cleaned before each cast, do not use Ammonia products** http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

* Note: Labels might say cast 046 → should say 047

KS draw
K/J pickle

99 Loop # 113 Flask 1474 = 10.582 mg/L
-0.6°C (burette refill)

INFO = Same as previous.

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** CB-16 **Event #:** 049 **Ship:** LSSL **UTC Date (dd|mmm|yyyy):** 05 | OCT | 2010

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
																	Great casts!
1	998	1297	6.541	1141		6.541	1278	6.542				-0.3	-0.3	-0.3			great!
2	999	1202	6.546									-0.4					
3	1000	456	6.601									-0.3					
4	1001	1429	6.714									-0.3					
5	1002	329	6.858									-0.1	(0.1 redraw)				oxy redraw (flask rinsed 3x for redraw)
6	1003	1136	6.878									0.2					
7	1004	1270	6.851									0.3					
8	1005	1241	6.814									0.5					
9	1006	1280	6.850	1267		6.831						0.7	0.9				drift in poor
10	1007	1228	6.772									0.9					
11	1008	1276	6.764									0.9					
12	1009	1282	6.733									1.0					
13	1010	1238	6.670									0.7					
14	1011	458	6.678	1271		6.676						-0.1	0.0				
15	1012	1219	6.630									-0.5					
16	1013	1424	6.119									-0.7					
17	1014	1486	6.472									-1.0					
18	1015	1362	6.514									-1.0					
19	1016	1274	6.685									-0.4					
20	1017	1290	6.996									-0.7					
21	1018	1417	7.364									-0.5					
22	1019	1281	8.184									0.0					
23	1020	1432	9.062									-0.7					
24	1021	1279	8.939									-0.8					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

Version: 28 Feb 2008

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

http://www.pac.dfo-mpo.gc.ca/sci/osap/projects/waterproperties/

Ship on station ∴ no movement → great casts

99 Loop NA Flask # 1474 = 5.756 mL/L
On station → use old salinity samples.

Temp @ stnd: KIO_3 = 22.9°C
Thio = 22.7°C

Thio titre = 0.50028
Blank = 0.00060

Thio N = 0.24221

Water Properties Group — Rosette Log

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

Cruise ID: 2010-07 **Station:** CB-13 **Event #:** 051 **Ship:** LSSL **UTC Date (dd|mmm|yyyy):** 06 | OCT | 2010 (Analysis)

Niskin #	Sample #	Oxygen Titrations: Flask Serial #	Oxygen Titrations: Value mL·L⁻¹	Rosette Operation: Target Pressure	Rosette Operation: Confirmed √	Rosette Operation: Confirmed Pressure	Samples Taken: Oxy	Nut	Sal	Chl a	NH_4	T_1	T_2	T_3			Comments
1	1046	800	6.542	824		6.541	825	6.541				0.2	0.2	0.2			825 - one bad pt @ end - curve fine
2	1047	826	6.535									0.0					
3	1048	827	6.605									0.0					
4	1049	828	6.714	805		6.723						0.0	0.1				
5	1050	820	6.865									0.2					
6	1051	819	6.898									0.3					
7	1052	818	6.867									0.5					
8	1053	821	6.799									0.8					
9	1054	822	6.806									1.0					
10	1055	823	6.776									1.0					
11	1056	812	6.728									1.0					
12	1057	813	6.668									0.9					
13	1058	815	6.500									0.5					
14	1059	807	6.491	816		6.486						-0.2	0.0				
15	1060	817	6.175									-0.4					
16	1061	806	6.408									-0.7					
17	1062	808	6.459									-0.7					
18	1063	809	6.575									-0.7					
19	1064	810	6.833									-0.6					
20	1065	811	7.036									-0.5					
21	1066	803	7.483									0.0					
22	1067	801	8.516									0.3					
23	1068	804	9.028									0.0					
24	1069	802	8.744									0.0					

Watchkeeper(s): _____

Bottom Depth: _____ m

Transmisso Cleaned: Y / N

Time	UTC	Local
Start		
Bottom		
End		

Positional Information

Start — Lat: ° N; Lon: ° W

▼

Bottom — Lat: ° N; Lon: ° W

▼

End — Lat: ° N; Lon: ° W

Oxygen Info For This Cast

Blank Value: _____ mL·L⁻¹

Std Value: _____ mL·L⁻¹

***Date Run:** ___ | ___ | ____

Analyst: _____

** Oxygen blanks and standards should be run daily, if possible*

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

MC | CS