

ROSETTE LOG

MISSION ID: 2002-14

STATION: SIO1

CAST NUMBER: 001

UTC DATE (dd/mm/yyyy):

30/04/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		SIZE					
						OXY				ALK		CHL							
1	1-X	1146	—	200	✓ 192.7		✓	✓											* one of the
2	2 (1)	1148	0	175	✓ 174.0														dispensers had
3	3 (2)	1153	0	150	✓ 150.5														been set at 2.0ml
4	4 (3)	1158	0	125	✓ 124.2														instead of 1.0.
5	5 (4)	1171	.075	100	✓ 99.8														The error was
6	6 (5)	1174	1.613	75	✓ 75.3														detected + samples
7	7 (6)	1175	3.757	50	✓ 50.5		✓	✓											re-collected, but
8	8 (7)	1176	5.272	45	✓ 45.6		✓	✓											* the first sample
9	9 (8)	1188	5.625	40	✓ 40.2		✓	✓				✓	✓						* may not have been.
10	10 (9)	1189	5.905	35	✓ 34.9		✓	✓				✓	✓						→ air bubbles *
11	11 (10)			30	✓ 32.3														
12	12 (11)	1191	6.004	30	✓ 30.5		✓	✓				✓	✓						
13	13 (12)	1192	5.995	25	✓ 24.6		✓	✓				✓	✓						
14	14 (13)	1193	6.027	20	✓ 20.1		✓	✓				✓	✓						
15	15 (14)	1194	6.082	15	✓ 15.0		✓	✓				✓							
16	16 (15)	1195	6.142	10	✓ 10.2		✓	✓				✓	✓						
17	17 (16)			5	✓ 4.8														
18	18 (17)	1201	7.819	2	✓ 1.2		✓	✓				✓	✓						
19	19 (18)	1203	9.218																
20																			
21																			
22																			
23																			
24																			

SHIP: J.P. Tully
ENTERED BY: S. Toews
CHECKED BY:

Bottom Depth: 199

Cast # down: 1

Cast # up: 1

Time	LOC	UTC
Begin:		1736
Bottom:		1739
End:		1800

START POSITION (GPS)
LAT: 48° 36.96
LONG: 123° 30.09

BOTTOM POSITION (GPS)
LAT: 48° 36.95
LONG: 123° 30.08

END POSITION (GPS)
LAT: 48° 36.96
LONG: 123° 30.02

Comments: 11817 for Anguinas light depths so no samples taken

* The lanyards were not set correctly, so instead of Bottle 1 to 18 tripping, bottle 2 to 19 tripped. This was not realized until the sampling was underway, thus samples are off by 1 - eg. sample 2 is really from rosette sample 1. I put the actual sample number in brackets. ST.

ROSETTE LOG

MISSION ID: 2002-14 STATION: C2 CAST NUMBER: 10 UTC DATE (dd/mm/yyyy): 01/05/02

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13	300	600				
							OXY			ALK		CHL	CHL					
1	19	1146	1.760	bottom	✓ 125.7	x	✓	✓										
2	20	1148	1.788	100	✓ 100.1													
3	21	1153	3.495	75	✓ 75.1													
4	22	1158	3.724	50	✓ 50.2													
5	23	1171	—	45	✓ 44.9								xx					flask broke
6	24	1174	4.232	40	✓ 40.2								xx					
7	25	1175	4.433	35	✓ 35.0								xx					
8	26	1176	4.616	30	✓ 30.5								xx	xx				
9	27	1188	5.037	25	✓ 25.4								xx					
10	28	1189	5.748	20	✓ 20.0								xx	xx				
11	29	1191	6.021	15	✓ 15.9								xx	xx				
12	30	1192	6.136	10	✓ 10.1								xx	xx				
13	31	1193	6.167	2	✓ 2.2								xx	xx				
14	32	1194	6.205	0	✓ 1.89								xx					
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY: S Toews
CHECKED BY:

Bottom Depth: ~ 135

Cast # down: 10
Cast # up:

Time	LOC	UTC
Begin:		1222
Bottom:		1224
End:		—

START POSITION (GPS)
LAT: 48° 25.41
LONG: 125° 07.79

BOTTOM POSITION (GPS)
LAT: 48° 25.40
LONG: 125° 07.79

END POSITION (GPS)
LAT: 48° 25. —
LONG: 125° 07. —

ROSETTE LOG

MISSION ID: 2002-14 STATION: C3 CAST NUMBER: 14 UTC DATE (dd/mm/yyyy): 01/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13			4L			
							OXY			ALK		CHL	CH-S	PI				
1	33	1195	1.674	bottom	✓ 115.6	X									300 ml	600 ml		
2	34	1201	1.760	100	✓ 160.7													
3	35	1203	3.997	75	✓ 74.1													
4	36	1206	5.421	50	✓ 49.7													
5	37	1209	5.552	45	✓ 44.8								XX					
6	38	1210	5.727	40	✓ 39.7								XX					
7	39	1212	5.840	35	✓ 34.6								XX					
8	40	1215	6.191	30	✓ 30.0								XX	XX				
9	41	1216	6.159	25	✓ 25.1								XX					
10	42	1222	6.181	20	✓ 20.5								XX	XX	X			
11	43	1223	7.057	15	✓ 15.0								XX	XX				
12	44	1224	7.310	10	✓ 9.9								XX	XX				
13	45	1225	8.421	2	✓ 2.5								XX	XX	X			
14	46	1228	8.483	0	✓ 1.4													
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: TULLY
 ENTERED BY: Markas
 CHECKED BY: _____

Bottom Depth: 119

Cast # down: 14

Cast # up: _____

Time	LOC	UTC
Begin:	1	1532
Bottom:		1534
End:		1552

START POSITION (GPS)
 LAT: 48 23.59
 LONG: 125 20.79

BOTTOM POSITION (GPS)
 LAT: 48 23.61
 LONG: 125 20.80

END POSITION (GPS)
 LAT: 48 23.56
 LONG: 125 20.95

Comments: Large hysteresis between up & down oxy traces - don't always catch up while waiting for bottle to trip
* changed Oxygen while sodium at beginning of analyzing C3
thiosulfate dispenser

ROSETTE LOG

MISSION ID: 2002-14 STATION: LC9 CAST NUMBER: 21 UTC DATE (dd/mm/yyyy): 01/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3			4L			
							OXY			ALK		CHL	CHL	PT				
1	47	1282	0.463	bottom	✓ 586.2	X	X	XXX										
2	48	1284	0.461	600	✓ 596.4													
3	49	1285	0.740	500	✓ 500.4													
4	50	1286	1.104	400	✓ 400.0													
5	51	1287	1.739	300	✓ 300.0													
6	52	1288	2.321	200	✓ 199.9													
7	53	1290	3.768	100	✓ 199.9													
8	54	1291	4.969	75	✓ 75.5													
9	55	1292	6.742	50	✓ 50.5													
10	56	1293	6.796	45	✓ 45.2								XX					
11	57	1294	6.818	40	✓ 40.1								XX					
12	58	1295	6.954	35	✓ 35.7								XX					
13	59	1297	7.158	30	✓ 30.9								XX	XX				
14	60	1298	7.131	25	✓ 25.4								XX					
15	61	1299	7.297	20	✓ 20.6								XX	XX	X			
16	62	1300	7.632	15	✓ 15.2								XX	XX				
17	63	1301	7.790	10	✓ 10.0								XX	XX				
18	64	1302	7.805	2	✓ 1.8								XX	XX	X			
19	65	1303	7.798	0	✓ 1.2													
20																		
21																		
22																		
23																		
24																		

Comments: Bottles not shaken very well

SHIP: Tully
 ENTERED BY: Tsurumi
 CHECKED BY:

Bottom Depth: 660m

Cast # down: 21

Cast # up:

Time LOC (UTC)
 Begin: 22:48
 Bottom: 23:02
 End: —

START POSITION (GPS)
 LAT: 48° 26.10'
 LONG: 126 13.36'

BOTTOM POSITION (GPS)
 LAT: 48 26.06'
 LONG: 126 13.32'

END POSITION (GPS)
 LAT: N/A
 LONG:

ROSETTE LOG

MISSION ID: 2002-14 STATION: LC11 CAST NUMBER: 26 UTC DATE (dd/mm/yyyy): 02/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	66	841	0.271	1000	✓ 999.5	✗												Final
2	67	255	0.253	900	✓ 899.5													Percentages going
3	68	364	0.251	800	✓ 798.3													over 100% for
4	69	392	0.313	700	✓ 697.8													some reason.
5	70	534	0.436	600	✓ 598.2													(I changed the
6	71	535	0.814	500	✓ 498.5													DMQ water +
7	72	572	1.220	400	✓ 461.7													this seemed to
8	73	588	1.810x	350	✓ 348.9													solve the problem)
9	74	632	1.776	300	✓ 298.3													S.T.
10	75	657	1.839	250	✓ 250.5													* bad end pt (#8)
11	76	695	2.031	200	✓ 199.1													
12	77	697	2.477	150	✓ 149.2													
13	78	707	4.193	100	✓ 99.4													
14	79	708	5.988	75	✓ 76.0													
15	80	709	6.804	50	✓ 51.2													
16	81	712	7.040	45	✓ 45.3													
17	82	715	6.846	40	✓ 39.9													
18	83	727	7.006	35	✓ 35.2													
19	84	730	7.095	30	✓ 30.0													
20	85	1105		25	✓ 25.0													did not release
21	86	1110	7.180	20	✓ 19.9													
22	87	1126	7.468	15	✓ 15.5													
23	88	1128	7.553	10	✓ 9.9													
24	89	1130	7.533	2	✓ 2.7													

Comments:

SHIP:

ENTERED BY: S-Toewes

CHECKED BY:

Bottom Depth: 1006

Cast # down: 26

Cast # up:

Time	LOC	UTC
Begin:	2209	0509
Bottom:	2223	0523
End:		0606

START POSITION (GPS)

LAT: 48 19.01

LONG: 126 26.67

BOTTOM POSITION (GPS)

LAT: 48 19.02

LONG: 126 26.59

END POSITION (GPS)

LAT: 48 19.06

LONG: 126 26.48

ROSETTE LOG

MISSION ID: 2002-14 STATION: LC 8 CAST NUMBER: 32 UTC DATE (dd/mm/yyyy): 02/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	90	1175	1.708	200	✓ 195.7	X	X	XX										
2	91	1146	2.200	150	✓ 150.7													
3	92	1148	3.674	100	✓ 100.0													
4	93	1158	4.709	75	✓ 75.3													
5	94	1153	6.869	50	✓ 50.1													
6	95	1174	6.652	45	✓ 46.0													
7	96	1193	6.627	40	✓ 39.8													
8	97	1176	6.737	35	✓ 39.8													
9	98	1188	6.811	30	✓ 29.8													
10	99	1189	6.853	25	✓ 25.0													
11	100	1191	6.910	20	✓ 20.6													
12	101	1192	7.029	15	✓ 15.5													
13	102	1206	7.792	10	✓ 10.4													
14	103	1194	7.613	2	✓ 2.0			✓	✓									
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY: S BATTEN LS. Tews
CHECKED BY:

Bottom Depth: 1200

Cast # down: 32
Cast # up: 32

Time	LOC	UTC
Begin:	0427	1127
Bottom:	0431	1131
End:	0452	1152

START POSITION (GPS)
LAT: 48° 27.36
LONG: 126° 07.03

BOTTOM POSITION (GPS)
LAT: 48° 29.38
LONG: 126° 07.03

END POSITION (GPS)
LAT: 48° 29.38
LONG: 126° 07.02

ROSETTE LOG

MISSION ID: 2002-14 STATION: BFO1 CAST NUMBER: 33 UTC DATE (dd/mm/yyyy): 02/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3		chl.				
							OXY			ALK		CHL	2	PP	PI			
21	104	105		1% (65)	✓ 65.3									✓	✓	✓		
32	105	106		3% (45)	✓ 45.6									✓	✓	✓		
43	106	107		3% (45)	✓ 45.0												✓	
54	107	108		10% (25)	✓ 25.0									✓	✓	✓		
65	108	109		33% (10)	✓ 19.7									✓	✓	✓		
76	109	110		55% (4)	✓ 4.0									✓	✓	✓		
87	110	111		55% (4)	✓ 4.0												✓	
98	111	112		100% (0)	✓ 2.0									✓	✓	✓		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Made bottle 1 was fixed at 100m

SHIP: JPTully
ENTERED BY: S. Toews
CHECKED BY:

Bottom Depth: 330m

Cast # down: 33
Cast # up:

Time	LOC	UTC
Begin:		1324
Bottom:		1335
End:		1342

START POSITION (GPS)
LAT: 48° 31.44
LONG: 126° 10.89

BOTTOM POSITION (GPS)
LAT: 48 31.43
LONG: 126 10.97

END POSITION (GPS)
LAT: 48° 31.41
LONG: 126° 11.03

ROSETTE LOG

MISSION ID: 2002-14

STATION: BIOD

CAST NUMBER:

34

UTC DATE (dd/mm/yyyy):

02/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	112	1233	0.759	400	✓	423.0	x											hit bottom
2	113	1235	1.329	300	✓	302.9												
3	114	1237	1.861	200	✓	202.1												
4	115	1238	2.622	150	✓	149.2												
5	116	1241	3.483	100	✓	100.4												
6	117	1243	4.625	75	✓	74.5												
7	118	1244	5.874	50	✓	50.4												
8	119	1247	6.556	30	✓	28.6												
9	120	1248	6.615	20	✓	19.7												
10	121	1249	7.488	10	✓	10.1												
11	122	1254	7.760	2	✓	1.5		✓	✓									
12	123																	
13	124																	
14	125																	
15	126																	
16	127																	
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY: S. TOEWS

CHECKED BY:

Bottom Depth: 420

Cast # down: 34

Cast # up:

Time LOC UTC

Begin: 1424

Bottom: 1430

End: 1446

START POSITION (GPS)

LAT: 48° 31.39

LONG: 126° 11.22

BOTTOM POSITION (GPS)

LAT: 48° 31.35

LONG: 126° 11.29

END POSITION (GPS)

LAT: 48° 31.33

LONG: 126° 11.41

ROSETTE LOG

MISSION ID: 2002-014 STATION: LC6 CAST NUMBER: 036 UTC DATE (dd/mm/yyyy): 02/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT	NH ₄	TCO		C13						
							OXY				ALK		CHL					
1	123	1209	2.479	BOT	✓ 83.6	✓												
2	124	1195	3.521	75	✓ 77.2													
3	125	1201	5.647	50	✓ 49.9													
4	126	1202	6.236	45	✓ 45.4								xx					
5	127	1224	6.598	40	✓ 40.2								✓✓					
6	128	1210	6.631	35	✓ 34.5								✓✓					
7	129	1212	6.870	30	✓ 28.7								✓✓					
8	130	1215	7.420	25	✓ 23.2								✓✓					
9	131	1216	7.452	20	✓ 20.2								✓✓					
10	132	1222	7.492	15	✓ 15.8								✓✓					
11	133	1223	7.465	10	✓ 9.3								✓✓					
12	134	1225	7.464	2	2.8			↓	↓	↓			✓✓					
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: JPTULLY
ENTERED BY: Mackes
CHECKED BY:

Bottom Depth: 89m

Cast # down: 36
Cast # up:

Time	LOC	UTC
Begin:		1658
Bottom:		1700
End:		1714

START POSITION (GPS)
LAT: 48 36.53
LONG: 125 53.96

BOTTOM POSITION (GPS)
LAT: 48 36.54
LONG: 125 53.91

END POSITION (GPS)
LAT: 48 36.64
LONG: 125 53.79

ROSETTE LOG

MISSION ID: 2002-14 STATION: LC4 CAST NUMBER: 040 UTC DATE (dd/mm/yyyy): 02/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	135	1233	3.257	BOT/100	✓ 147.9	X	X	XX										
2	136	1235	3.554	100	98.3													
3	137	1237	4.165	75	77.9													
4	138	1238	4.533	50	52.0													
5	139	1241	4.626	45	45.9							XX						
6	140	1243	4.692	40	39.8							XX						
7	141	1244	4.790	35	34.8							XX						
8	142	1247	4.972	30	30.9							XX						
9	143	1248	5.667	25	25.3							XX						
10	144	1249	6.018	20	20.7							XX						
11	145	1254	6.756	15	15.2							XX						
12	146	1256	7.672	10	9.7							XX						
13	147	1258	7.819	2	2.2			✓	✓			XX						
14					1.5													
15					1.7													
16					.8													
17					.8													
18					1.2													
19					.8													
20					.5													
21					.9													
22																		
23																		
24																		

Comments:

SHIP: Tully
ENTERED BY: Ali
CHECKED BY:

Bottom Depth: 160

Cast # down: 40
Cast # up:

Time	LOC	UTC
Begin:		2057
Bottom:		2100
End:		2117

START POSITION (GPS)
LAT: 48 43.50
LONG: 125 40.66

BOTTOM POSITION (GPS)
LAT: 48 43.57
LONG: 125 40.63

END POSITION (GPS)
LAT: 48 44.07
LONG: 125 40.73

ROSETTE LOG

MISSION ID: 2002-14 STATION: L6P7 CAST NUMBER: 048 UTC DATE (dd/mm/yyyy): 31/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK		CHL						
1	148	1282	0.299	Bot 1000	999.7	X	X	XX										put in wrong sample # ⁰² in computer
2	149	1284	0.286	800	799.6													
3	150	1285	0.339	700	701.6													
4	151	1286	0.404	600	600.7													
5	152	1287	0.699	500	504.0													
6	153	1288	1.322	400	398.3													
7	154	1290	1.746	350	348.8													
8	155	1291	2.227	300	298.5													
9	156	1292	2.548	250	249.8													
10	157	1293	3.092	200	199.9													
11	158	1294	4.079	150	149.3													
12	159	1295	5.721	100	100.0													
13	160	1297	6.358	75	74.6													
14	161	1298	6.412	50	48.6													
15	162	1299	6.471	45	44.8							XX						
16	163	1300	6.685	40	40.1							XX						
17	164	1301	6.699	35	35.8							XX						
18	165	1302	7.025	30	29.8							XX						
19	166	1303	7.159	25	24.9							XX						
20	167	1304	—	20	19.4		—	—				—	—					DID NOT TRIP
21	168	1305	7.241	20	19.1							XX						
22	169	1306	7.245	15	15.7							XX						
23	170	1307	7.227	10	9.5							XX						
24	171	1309	7.231	2	3.0							XX						

Comments:

SHIP: JP Tully
 ENTERED BY: D.M.
 CHECKED BY:

Bottom Depth: 2210

Cast # down: 48

Cast # up: 48

Time	LOC	UTC
Begin:	1336	2036
Bottom:	1355	2055
End:	1455	2155

START POSITION (GPS)
 LAT: 49°52.40
 LONG: 128°11.09

BOTTOM POSITION (GPS)
 LAT: 49°52.44
 LONG: 128°11.20

END POSITION (GPS)
 LAT: 49°52.47
 LONG: 128°11.37

ROSETTE LOG

MISSION ID: 2002-14 STATION: LBP5 CAST NUMBER: 51 UTC DATE (dd/mm/yyyy): 23/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	172	1175	0.391	Bot/1000	✓ 1002.7	X	X	XX										
2	173	1148	0.302	800	✓ 798.6													
3	174	1146	0.312	700	✓ 700.4													
4	175	1158	0.473	600	✓ 599.4													
5	176	1153	0.756	500	✓ 489.8													
6	177	1174	1.022	400	✓ 400.8													
7	178	1193	1.277	350	✓ 350.5													
8	179	1176	1.589	300	✓ 299.4													
9	180	1188	1.846	250	✓ 250.5													
10	181	1189	1.811	200	✓ 200.1													
11	182	1234	2.163	150	✓ 152.1													
12	183	1192	3.356	100	✓ 100.1													
13	184	1194	5.303	75	✓ 78.4													
14	185	1206	6.332	50	✓ 50.3													
15	186	1209	6.339	45	✓ 45.3							XX						
16	187	1215	6.325	40	✓ 40.6							XX						
17	188	1201	6.600	35	✓ 34.8							XX						
18	189	1203	6.967	30	✓ 30.0							XX						
19	190	1224	7.136	25	✓ 25.7							XX						
20	191	1222	7.2	20	✓ 20.3													
21	192	1195	7.283	20	✓ 20.7							XX						
22	193	1212	7.466	15	✓ 15.3							XX						
23	194	1210	8.063	10	✓ 10.3							XX						
24	195	1216	8.249	2	✓ 2.1							XX						

Comments:

SHIP: JP Tully

ENTERED BY: L.F.

CHECKED BY:

Bottom Depth: > 1100

Cast # down: 51

Cast # up: 51

TimeLOCUTC

Begin:0010

Bottom:-

End:0119

START POSITION (GPS)

LAT: 49° 59.92

LONG: 127° 59.85

BOTTOM POSITION (GPS)

LAT: 49° 59.90

LONG: 127° 59.85

END POSITION (GPS)

LAT: 49° 59.52

LONG: 127° 58.75

ROSETTE LOG

MISSION ID: 2002-14 STATION: LBP3 CAST NUMBER: 54 UTC DATE (dd/mm/yyyy): 04/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												fluor reading
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	196	1233	1.843	bottom (165)	✓	175.9	X											
2	197	1235	1.972	150	✓	150.4												
3	198	1237	2.360	100	✓	100.8												
4	199	1238	2.717	75	✓	75.0												
5	200	1241	3.690	50	✓	49.5												
6	201	1243	4.061	45	✓	45.1						XX					0.21	
7	202	1244	4.718	40	✓	39.1						XX					0.26-0.32	
8	203	1247	5.281	35	✓	35.1						Xx					0.28-0.33	
9	204	1248	5.834	30	✓	29.5						Xx					0.4-0.55	
10	205	1249	5.828	25	✓	24.6						Xy					0.65-0.85	
11	206	1254	6.092	20	✓	20.5						XX					~0.9	
12	207	1256	7.373	15	✓	14.9						Xx					13-satur	
13	208	1258	7.638	10	✓	10.9						Xx					satur	
14	209	1260	8.312	2		2.4		✓	✓			Xx					satur	
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: JPTULLY

ENTERED BY: _____

CHECKED BY: _____

Bottom Depth: 175 → 185

Cast # down: 54

Cast # up: _____

Time	LOC	UTC
Begin:		<u>0330</u>
Bottom:		<u>0335</u>
End:		<u>0354</u>

START POSITION (GPS)

LAT: 50 03.06

LONG: 127 54.96

BOTTOM POSITION (GPS)

LAT: 50 03.01

LONG: 127 55.02

END POSITION (GPS)

LAT: 50 03.02

LONG: 127 55.26

Comments: replaced pinger
still large hysteresis between down & up oxy profiles

ROSETTE LOG

MISSION ID: 2002-14 STATION: C59 CAST NUMBER: 69 UTC DATE (dd/mm/yyyy): 4/5/02

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	210	1148	2.226	Bottom (194)	187.2	X	X	XX										
2	211	1175	2.208	150	151.3		1	1										
3	212	1146	3.253	100	99.4													
4	213	1158	6.135	75	74.5													
5	214	1153	6.685	50	49.8													
6	215	1174	6.731	45	45.0							XX						
7	216	1176	6.754	40	39.9							XX						
8	217	1193	6.817	35	34.2							XX						
9	218	1188	6.980	30	30.4							XX						
10	219	1189	7.319	25	25.2							XX						
11	220	1192	7.955	20	19.8							XX						
12	221	1231	8.372	15	14.4							XX						
13	222	1194	8.588	10	10.0							XX						
14	223	1206	8.561	2	1.0							XX						
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: JPTully

ENTERED BY:

CHECKED BY:

Bottom Depth: 194

Cast # down: 69

Cast # up: 69

Time	LOC	UTC
Begin:	1222	1922
Bottom:	1227	1927
End:	1248	1948

START POSITION (GPS)

LAT: 51°12.18

LONG: 128°28.07

BOTTOM POSITION (GPS)

LAT: 51°12.13

LONG: 128°28.07

END POSITION (GPS)

LAT: 51°11.98

LONG: 128°28.08

Comments:

ROSETTE LOG

MISSION ID: 2002-14 STATION: CS6 CAST NUMBER: 75 UTC DATE (dd/mm/yyyy): 04/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	224	1233	4.710	65	✓	60.3	X											
2	225	1235	4.655	60	✓	60.5												
3	226	1237	4.816	50	✓	50.3												
4	227	1238	5.132	45	✓	44.6						xx						
5	228	1241	5.535	40	✓	38.8												
6	229	1277	5.903	35	✓	34.9												(stopper was loose)
7	230	1279	5.754	30	✓	28.6												
8	231	1247	5.713	25	✓	25.1												
9	232	1248	5.823	20	✓	20.0												
10	233	1249	6.745	15	✓	14.6												
11	234	1254	7.641	10	✓	09.3												
12	235	1256	8.547	2		2.4	✓	✓				✓						chl = 22.08
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Max 2 flasks broken - check flask # upon analyzing. S.T. ✓

SHIP:

ENTERED BY: S.T.

CHECKED BY:

Bottom Depth: 6.4

Cast # down: 75

Cast # up:

Time	LOC	UTC
Begin:		0051
Bottom:		0054
End:		0105

START POSITION (GPS)

LAT: 51°00'04"

LONG: 128°49'91"

BOTTOM POSITION (GPS)

LAT: 51°00'04"

LONG: 128°49'95"

END POSITION (GPS)

LAT: 51°00'01"

LONG: 128°50'03"

ROSETTE LOG

MISSION ID: 2002-14 STATION: CS4 CAST NUMBER: 79 UTC DATE (dd/mm/yyyy): 4/5/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	236	1282	3.266	Bottom/100	✓	94.3	X	X	X									
2	237	1284	4.876	75	✓	75.0	X											
3	238	1285	5.798	50?	✓	49.9	X											
4	239	1286	6.100	45	✓	38.9	X					XX						
5	240	1287	6.664	40	✓	34.7	X					XX						
6	241	1288	7.077	30	✓	30.7						XX						#6 at 30m
7	242	1290		20	✓	30.8						XX						fired 6+7@30m
8	243	1291	7.660	25	✓	25.6						XX						
9	244	1292	7.854	20	✓	19.8						XX						
10	245	1293	8.106	15	✓	14.4						XX						
11	246	1294	8.356	10	✓	10.2						XX						
12	247	1295	8.431	2	✓	2.6		✓	✓			XX						
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: JP TULLY
ENTERED BY: DLM
CHECKED BY:

Bottom Depth: ~ 100

Cast # down: 79
Cast # up: 79

Time	LOC	UTC
Begin:		0420/5
Bottom:		0423/
End:		0441

START POSITION (GPS)
LAT: 50 49.10
LONG: 129 12.95

BOTTOM POSITION (GPS)
LAT: 50 49.10
LONG: 129 12.93

END POSITION (GPS)
LAT: 50 49.02
LONG: 129 13.14

Comments: Bad Rosette at 5m trips @ 30m, Bottles 2-4 uncertain depth, add 5700 samples for each of 2-5

ROSETTE LOG

MISSION ID: 2002-14 STATION: CS2 CAST NUMBER: 97 UTC DATE (dd/mm/yyyy): 05/05/02

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	248	1282	0.299	Bot/1070	1000.2	X	X	XX										
2	249	1284	0.264	800	801.1													
3	250	1285	0.339	700	700.5													
4	251	1286	0.478	600	601.4													
5	252	1287	0.625	500	501.1													
6	253	1288	0.969	400	400.6													
7	254	1290	1.133	350	349.4													
8	255	1291	1.457	300	299.9													
9	256	1292	1.876	250	249.8													
10	257	1293	2.221	200	200.3													
11	258	1294	3.136	150	148.2													
12	259	1295	4.215	100	100.3													
13	260	1297	4.724	75	74.8													
14	261	1298	5.977	50	50.0													
15	262	1299	6.176	45	46.5							XX						
16	263	1300	6.354	40	39.9							XX						
17	264	1301	6.496	35	34.3							XX						
18	265	1302	7.255	30	29.7							XX						
19	266	1305	7.871	25	24.7							XX	XX					
20	267	1304	7.939	20	20.1													
21	268	1305	8.224	20	20.7							XX	XX					
22	269	1306	8.065	15	14.7							XX	XX					
23	270	1307	8.055	10	10.8							XX	XX					
24	271	1309	7.911	2	2.7							XX	XX					

Comments:

SHIP: JP Tully
ENTERED BY: D.Y. / S.T.
CHECKED BY:

Bottom Depth: 71500

Cast # down: 97
Cast # up:

Time	LOC	UTC
Begin:	1351	2051
Bottom:	1409	2109
End:	1457	2157

START POSITION (GPS)
LAT: 50'41.47
LONG: 129'27.58

BOTTOM POSITION (GPS)
LAT: 50'41.81
LONG: 129'27.64

END POSITION (GPS)
LAT: 50'42.33
LONG: 129'27.64

ROSETTE LOG

MISSION ID: 2002-14 STATION: CS Ø CAST NUMBER: 110 UTC DATE (dd/mm/yyyy): 06/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	2h-2	2h-1				
1	272	1282	0.321	1000	✓	1004.2	x	x	xx									
2	273	1284	0.326	800	✓	800.3		1	1									
3	274	1285	0.401	700	✓	699.9												
4	275	1286	0.489	600		600.1												
5	276	1287	0.824	500		499.7												
6	277	1288	1.283	400		399.5												
7	278	1290	1.529	350		350.0												
8	279	1291	1.556	300		348.6												
9	280	1292	1.830	250		300.3												
10	281	1293	2.561	200		201.7												
11	282	1294	3.179	150		150.1												
12	283	1295	5.841	100		100.0												
13	284	1297	6.925	75		75.2												
14	285	1298	7.018	50		50.1												
15	286	1299	7.331	45		44.9						xx						
16	287	1300	7.720	40		40.2						xx						
17	288	1301	7.802	35		35.0						xx						
18	289	1302	7.884	30		29.5						xx						
19	290	1303	7.889	25		25.4						xx	xx					
20	291	1304	—	20		20.3	—	—	—			—						
21	292	1305	7.945	20		20.5				130.62		xx	xx	x	7.916	entered wrong O2		
22	293	1306	7.913	15		15.1						xx	xx		7.840	sample # in canister		
23	294	1307	7.960	10		10.3						xx	xx		7.886	(put 291)		
24	295	1309	7.940	2		1.9		↓	↓			xx	xx	x	7.866	+1304		

Comments: Bottle as still not tripping

SHIP: TULLY
ENTERED BY: DLH / DY
CHECKED BY:

Bottom Depth: > 2000

Cast # down: 110
Cast # up:

Time	LOC	UTC
Begin:		1828
Bottom:		1845
End:		

START POSITION (GPS)
LAT: 50 27.66
LONG: 129 55.06

BOTTOM POSITION (GPS)
LAT: 50 27.87
LONG: 129 55.01

END POSITION (GPS)
LAT:
LONG: 003 724
01013324
10.08

ROSETTE LOG

MISSION ID: 2002-14 STATION: LJ8 CAST NUMBER: 120 UTC DATE (dd/mm/yyyy): 07/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	d/s	PR				
1	296	1233	0.295	1000	✓ 1000.0	X												
2	297	1235	0.335	800	✓ 800.2	X												
3	298	1237	0.401	700	✓ 699.4	X												
4	299	1238	0.616	600	✓ 599.1													
5	300	1241	1.008	500	✓ 501.3													
6	301	1277	1.346	400	✓ 400.7													
7	302	1279	1.459	350	✓ 350.0													
8	303	1247	1.696	300	✓ 300.1													
9	304	1248	1.879	250	✓ 249.6													
10	305	1249	2.000	200	✓ 199.4													
11	306	1254	2.552	150	✓ 149.7													
12	307	1256	4.397	100	✓ 100.0													
13	308	1258	6.230	75	✓ 74.9													
14	309	1260	6.733	50	✓ 49.9													
15	310	1261	6.877	45	✓ 45.7													
16	311	1264	7.075	40	✓ 40.6													
17	312	1267	7.096	35	✓ 35.3													
18	313	1268	7.122	20	✓ 29.5													
19	314	1270	7.110	25	✓ 25.1													2.044
20	315	1271	—	20	✓ 19.5													
21	316	1272	7.109	20	✓ 19.4													2.043
22	317	1273	7.097	15	✓ 15.2													2.031
23	318	1274	7.107	10	✓ 10.4													2.041
24	319	1275	7.097	2	✓ 2.3													2.031

Comments: Bottle #200 did not trip

SHIP:
ENTERED BY: L.F./S.T.
CHECKED BY:

Bottom Depth: >1500

Cast # down: 120
Cast # up:

Time LOC UTC
Begin: 1400
Bottom:
End: 1502

START POSITION (GPS)
LAT: 49° 20.17
LONG: 127° 40.86

BOTTOM POSITION (GPS)
LAT: 49° 20.35
LONG: 127° 40.86

END POSITION (GPS)
LAT: 49° 20.83
LONG: 127° 40.70

ROSETTE LOG

MISSION ID: 2002-14 STATION: L56 CAST NUMBER: 123 UTC DATE (dd/mm/yyyy): 07/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	320	1148	0.360	1000/65	✓ 998.4	X	X	XX										
2	321	1175	0.306	800	✓ 797.7			1	1									
3	322	1158	0.385	700	✓ 702.7													
4	323	1153	0.450	600	✓ 599.5													
5	324	1174	0.800	500	✓ 499.9													
6	325	1176	0.995	400	✓ 399.6													
7	326	1188	1.349	350	✓ 349.2													
8	327	1193	1.579	300	✓ 301.8													
9	328	1189	1.968	250	✓ 248.6													
10	329	1192	2.514	200	✓ 201.0													
11	330	1196	3.547	150	✓ 149.4													
12	331	1231	5.183	100	✓ 99.4													
13	332	1194	6.797	75	✓ 75.1													
14	333	1206	7.050	50	✓ 50.2													
15	334	1209	7.015	45	✓ 43.8								XX					
16	335	1215	7.113	40	✓ 39.3													
17	336	1201	7.131	35	✓ 34.3													
18	337	1203	7.160	30	✓ 29.2													
19	338	1195	7.233	25	✓ 25.1													
20	339	1222		20	✓ 20.1													
21	340	1224	7.159	20	✓ 20.0													
22	341	1210	7.288	15	✓ 13.9													
23	342	1212	7.489	10	✓ 9.7										7.377			
24	343	1216	7.520	2	✓ 3.8			✓	✓									bad endpt. 1.332

Comments:

SHIP: TULLY

ENTERED BY: DLM

CHECKED BY:

Bottom Depth: 1050

Cast # down: 123

Cast # up: 123

Time LOC UTC

Begin: 1049 1749

Bottom: 1102 1802

End: 1147 1847

START POSITION (GPS)

LAT: 49° 27.86

LONG: 127° 28.44

BOTTOM POSITION (GPS)

LAT: 49° 27.89

LONG: 127° 28.40

END POSITION (GPS)

LAT: 49° 27.92

LONG: 127° 28.53

10.08 .01013324

.003 .724

ROSETTE LOG

MISSION ID: 2002-14 STATION: LJ 04 CAST NUMBER: 126 UTC DATE (dd/mm/yyyy): 07/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	344	084	2.090	150/150+	158.4	x	x	xx										
2	345	255	2.768	100	100.2													
3	346	364	3.421	75	75.3													
4	347	392	3.093	50	50.0													
5	347	534-535	3.470	45	44.5							xx						
6	349	535-534	3.618	40	40.5													
7	350	592	4.181	35	35.0													
8	351	588	4.415	30	29.9													
9	352	632	5.217	25	25.3													
10	353	657	7.569	20	19.5													
11	354	697	7.739	15	14.4													
12	355	707	7.711	10	10.4													
13	356	708	7.740	?	2.8													
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 164

Cast # down: 126
Cast # up:

Time	LOC	UTC
Begin:	1418	2118
Bottom:	1421	2121
End:	1437	2137

START POSITION (GPS)
LAT: 49° 35.52
LONG: 127° 16.82

BOTTOM POSITION (GPS)
LAT: 49° 35.53
LONG: 127° 16.89

END POSITION (GPS)
LAT: 49° 35.71
LONG: 127° 17.01

Comments:

ROSETTE LOG

MISSION ID: 2002-14 STATION: LJ 2 CAST NUMBER: 129 UTC DATE (dd/mm/yyyy): 07/05/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	357	1282	1.989	bottom	✓ 77.2	X												
2	358	1284	2.043	75	✓ 76.3													
3	359	1285	3.388	50	✓ 50.7													
4	360	1286	3.565	45	✓ 45.9							X						
5	361	1287	3.946	40	✓ 39.9							X						
6	362	1288	4.214	35	✓ 35.7							X						
7	363	1290	4.644	30	✓ 29.7							X						
8	364	1291	4.778	25	✓ 25.2							X						
9	365	1292	5.306	20	✓ 20.2							X						
10	366	1293	7.021	15	✓ 15.6							X						
11	367	1294	7.375	10	✓ 8.9							X						
12	368	1295	7.399	2	✓ 2.2							X						
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY: ST

CHECKED BY:

Bottom Depth:

Cast # down: 129

Cast # up:

Time

LOC

UTC

Begin: 16⁴¹ 2341

Bottom: 16⁴³ 2343

End: 16⁵⁵ 2354

START POSITION (GPS)

LAT: 49° 42' 69"

LONG: 127° 05' 36"

BOTTOM POSITION (GPS)

LAT: 49° 42' 73"

LONG: 127° 05' 44"

END POSITION (GPS)

LAT: 49° 42'

LONG: 127° 05'