

ROSETTE LOG

MISSION ID: 2003-33 STATION: LAO1 CAST NUMBER: 1 UTC DATE (dd/mm/yyyy): 02/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY		NH4	ALK		CHL	20CHL	5CHL				
1	1	1479	0.858	Bot-10	✓													
2	2	1463	0.923	200	✓	X												
3	3	1464	1.056	175	✓													
4	4	1465	1.110	150	✓													
5	5	1466	1.253	125	✓													
6	6	1467	1.333	100	✓													
7	7	1471	1.656	75	✓													
8	8	1470	1.640	50	✓			X	X			XX	XX	XX				
9	9	1468	1.666	30	✓			X	X			XX	XX	XX				
10	10	1472	1.655	20	✓			X	X			XX	XX	XX				
11	11	1473	1.784	10	✓			X	X			XX	XX	XX				
12	12	1474	1.776	5	✓			X	X			XX	XX	XX				
13	13	1475	1.971	0				X	X			XX	XX	XX				
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 263

Cast # down: 1

Cast # up: 1

Time LOC UTC

Begin: 0418

Bottom: 0424

End: 043845

START POSITION (GPS)

LAT: 48 29 . 27

LONG: 124 43 . 73

BOTTOM POSITION (GPS)

LAT: 48 29 . 31

LONG: 124 43 . 85

END POSITION (GPS)

LAT: 48 29 365

LONG: 124 44 022

ROSETTE LOG

MISSION ID: 2003-33 STATION: LA 03 CAST NUMBER: 3 UTC DATE (dd/mm/yyyy): 02 10 2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	20 ^{CH}	5 ^{CH}	1 ^{CHL}			
1	14	1340	0.833	Bot-5	✓ 100		x	x										
2	15	1334	0.877	100	✓ 100		x											
3	16	1344	0.907	75	✓ 75		x											
4	17	1336	1.470	50	✓ 50		x	x				x	x	x	x			
5	18	1350	1.766	30	✓ 30		x	x				x	x	x	x			
6	19	1351	2.082	20	✓ 20		x	x				x	x	x	x			
7	20	1352	2.903	10	✓ 10		x	x				x	x	x	x			
8	21	1353	3.402	5	✓ 5		x	x				x	x	x	x			
9	22	1354	3.498	0	✓ 0.62		x	x				x	x	x	x			
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY: SL
CHECKED BY:

Bottom Depth: 103

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	00:02	0702
Bottom:	01:00	0705
End:		

START POSITION (GPS)
LAT: 48 22 818
LONG: 124 57 74

BOTTOM POSITION (GPS)
LAT: 48 22 81
LONG: 124 57 73

END POSITION (GPS)
LAT: 48 22 82
LONG: 124 57 76

ROSETTE LOG

MISSION ID: 2003-33 STATION: LA06 CAST NUMBER: 6 UTC DATE (dd/mm/yyyy): 02/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	20 ^{CH}	5 ^{CH}	TC14			
1	23	364	1.024	Bot-10	✓			X										
2	24	535	1.042	100	✓	X	X											
3	25	708	1.399	75	✓		X											
4	26	572	1.164	50	✓		X	X					XX	XX	XX			
5	27	657	1.488	30	✓		X	X					XX	XX	XX			
6	28	1135	1.862	20	✓		X	X					XX	XX	XX			
7	29	1136	2.311	10	✓		X	X					XX	XX	XX			
8	30			5	✓		X	X					XX	XX	XX			
9	31	1130	2.887	0			X	X					XX	XX	XX			Bottle 8 empty Bottle 9 spigot open/ leaky.
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 112

Cast # down: 6
Cast # up: 6

Time	LOC	UTC
Begin:		1005
Bottom:		1010
End:		

START POSITION (GPS)
LAT: 48 12.62
LONG: 125 17.14

BOTTOM POSITION (GPS)
LAT: 48 12.62
LONG: 125 17.10

END POSITION (GPS)
LAT: 48 12.61
LONG: 125 17.13

ROSETTE LOG

MISSION ID: 2003-33 STATION: LA09 CAST NUMBER: 9 UTC DATE (dd/mm/yyyy): 03/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3	T	5	20			
							OXY			ALK			CHL	chl	chl			
1	32	1287	0.818	Bot-5	✓ 350		X											
2	33	1288	0.886	250	✓ 251	X	X											
3	34	1290	1.003	200	✓ 200	X	X											
4	35	1291	0.867	175	✓ 175		X											
5	36	1293		150	✓ 150		X											
6	37	1294	1.828	125	✓ 125		X											
7	38	1295	2.458	100	✓ 100		X											
8	39	1297	2.869	75	✓ 75		X											
9	40	1298	2.758	50	✓ 50		X	X					XX	XX	XX			
10	41	1299	3.006	30	✓ 30		X	X					XX	XX	XX			
11	42	1300	2.042	20	✓ 20		X	X					XX	XX	XX			
12	43	1301	3.211	10	✓ 10		X	X					XX	XX	XX			
13	44	1302	3.105	5	✓ 5		X	X					XX	XX	XX			
14	45	1303	3.277	0			X	X					XX	XX	XX			
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: 5 didn't trip

SHIP:

ENTERED BY: SL

CHECKED BY: NA

Bottom Depth: 352

Cast # down: 9

Cast # up: 9

Time	LOC	UTC
Begin:		0133
Bottom:		0140
End:		0158

START POSITION (GPS)

LAT: 48 02 .34

LONG: 125 36 .91

BOTTOM POSITION (GPS)

LAT: 48 02 34

LONG: 125 36 93

END POSITION (GPS)

LAT: 48 02 32

LONG: 125 37 03

ROSETTE LOG

MISSION ID: 2003-33 STATION: LA 10 CAST NUMBER: 10 UTC DATE (dd/mm/yyyy): 03/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												Calibration Salinity
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	46			Bot-10		x												
2	47				800	x												
3	48				600	x												
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Salinity calibration samples bottom 3 Niskin bottles

SHIP: TULLY
ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down:
Cast # up:

Time LOC UTC
Begin:
Bottom:
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 2003-33 STATION: LB 14 CAST NUMBER: 11 UTC DATE (dd/mm/yyyy): 03/10/2003

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	49			Bot-10	1155	x												
2	50			800	800	x												
3																		
4																		
5	51			400	400	x												
6	52			300	300	x												
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: TULLY

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		
End:		

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments: Salinity calibration samples

ROSETTE LOG

MISSION ID: 2003-33 STATION: LB13 CAST NUMBER: 12 UTC DATE (dd/mm/yyyy): 03/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13	T					
							OXY			ALK		CHL	2CH	5CH	HPLC			
1	53	1356	0.128	Bott-10	✓	908	X	X										
2	54	1358	—	600	✓	600	X	X										Problem with titration
3	55	1360	0.388	500	✓	500	X	X										
4	56	1361	0.670	400	✓	400	X	X										
5	57	1362	0.860	300	✓	300	X	X										
6	58	1363	1.066	250	✓	251	X	X										
7	59	1364	1.106	200	✓	200		X										
8	60	1365	1.240	175	✓	175		X										
9	61	1366	1.378	150	✓	151		X										
10	62	1367	2.173	125	✓	125		X										
11	63	1368	2.297	100	✓	100		X										
12	64	1369	1.953	75	✓	75		X										
13	65	1371	2.903	50	✓	50		X	X			XX						
14	66	1373	2.993	30	✓	30		X	X			XX						
15	67	1374	2.958	20	✓	20		X	X			XX	X					2 duplicates showing
16	68	1376	3.064	20	✓	20		X						X	X			3 significant difference
17	69	1378	3.070	10	✓	10		X	X			XX						
18	70			5	✓	5		X	X			XX	X					
19	71	1380	3.781	5	✓	5		X						X	X			
20	72	1381	3.066	0				X	X			XX						
21																		
22																		
23																		
24																		

Comments: 18 didn't trip. - lanyard too long, bottom endcap closing.

SHIP:

ENTERED BY: JL

CHECKED BY:

Bottom Depth: 918

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		0625
Bottom:		0638
End:		

START POSITION (GPS)

LAT: 48 10 643

LONG: 125 56 074

BOTTOM POSITION (GPS)

LAT: 48 10. 60

LONG: 125 56. 14

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2003-33 STATION: L39 CAST NUMBER: 16 UTC DATE (dd/mm/yyyy): 03/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13	T					
							OXY			ALK		CHL	20CH	5CH	HPCH			
1	73	1438	0.583	Bot-10	✓	140												
2	74	1432	0.548	250	✓	140												
3	75	1433	0.568	200	✓	140												
4	76	1434	0.553	175	✓	140												
5	77	1435	0.558	150	✓	140												
6	78	1460	0.534	125	✓	125												
7	79	1439	0.646	100	✓	100												
8	80	1441	0.897	75	✓	75												
9	81	1440	1.267	50	✓	50			XX			XX						
10	82	1442	1.571	30	✓	30			XX			XX						
11	83	1443	1.695	20	✓	20			XX			XX	XX					
12	84	1444	1.754	20	✓	20								XX	XX			
13	85	1445	1.957	10	✓	10			XX			XX						
14	86	1446	2.291	5	✓	5			XX			XX	XX					
15	87	1447	2.338	5	✓	5								XX	XX			
16	88	1448	2.608	0					XX									
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 150

Cast # down: 16
Cast # up: 16

Time	LOC	UTC
Begin:		1107
Bottom:		1111
End:		1125

START POSITION (GPS)
LAT: 48 22 .01
LONG: 125 34 .78

BOTTOM POSITION (GPS)
LAT: 48 22 .01
LONG: 125 34 .78

END POSITION (GPS)
LAT: 48 21 98
LONG: 125 34 75

ROSETTE LOG

MISSION ID: 2003-33 STATION: B101 CAST NUMBER: 17 UTC DATE (dd/mm/yyyy): 04/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TEMP	C13	T						
							OXY		BF	Hat	ALK	CHL	5CH	25CH	NH4			
1	89	1287	0.835	Bot -10	-	397		X	XX									
2	90	1288		400350	-	350		X	XX									Top Brake on bottle
3	91	1290	0.850	300	-	300		X	XX									
4	92	1291	0.898	250	-	250		X	XX									
5	93	1293	0.887	200	-	200		X	XX									
6	94	1294	1.064	175	-	175		X	XX									
7	95	1295	1.047	150	✓	150		X	XX									
8	96	1297	1.202	125	✓	125		X	XX									
9	97	1298	1.925	100	✓	100		X	XX						XX			
10	98	1299	2.237	75	✓	75		X	XX						XX			
11	99	1300	2.015	50	✓	50		X	XX						XX			
12	100	1301	2.716	40	✓	40		X	XX			XX			XX			
13	101	1302	2.369	30	✓	30		X	XX	X	X		XX	XX	XX			
14	102	1303	2.197	20	✓	19		X	XX	X	X		XX	XX	XX			
15	103	1304	2.372	15	✓	15		X	XX	X	X		XX					Sample no. wrong in file
16	104	1305	2.723	10	✓	10		X	XX	X	X		XX	XX	XX	XX		No endpoint.
17	105	1306	2.879	5	✓	5		X	XX				XX	XX	XX	XX		
18	106			0	✓	0		X	XX				XX					
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Bottle 18 didn't fire. - lanyard too long / bottom endcap closing.

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 398

Cast # down: 17

Cast # up: 17

Time LOC UTC

Begin: 0011

Bottom: 0020

End: 0039

START POSITION (GPS)

LAT: 48 31.85

LONG: 126 11.27

BOTTOM POSITION (GPS)

LAT: 48 31.85

LONG: 126 11.25

END POSITION (GPS)

LAT: 48 31.78

LONG: 126 11.19

ROSETTE LOG

MISSION ID: 2003-33 STATION: LD11 CAST NUMBER: 18. UTC DATE (dd/mm/yyyy): 2003/10/04

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	107			1605	✓ 1597	X												
2	108				✓ 600	X												
3	109				✓ 400	X												
4	110				✓ 300	X												
5	111				✓ 250	X												
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Calibration samples

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		
End:		

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2003-33 STATION: LD10 CAST NUMBER: 19 UTC DATE (dd/mm/yyyy): 2003/10/04

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	112	1340	0.416	Bot	✓	1480	X	X										
2	113	1334	0.196	1200	✓		X	X										
3	114	1344	0.152	1000	✓		X	X										
4	115	1336	0.163	800	✓		X	X										
5	116	1350	0.221	600	✓		X	X										
6	117	1351	0.628	400	✓		X	X										
7	118	1352	0.850	300	✓			X										
8	119	1353	1.025	250	✓			X										
9	120	1354	1.235	200	✓			X										
10	121	364	1.353	175	✓			X										
11	122	535	1.490	150	✓			X										
12	123	708	1.754	125	✓			X										
13	124	572	1.291	100	✓			X										
14	125	657	2.496	75	✓			X										
15	126	1135	2.872	50	✓			X										
16	127	1136	2.922	30	✓			X										
17	128	1137	2.900	20	✓			X										
18	129			10	✓			X										
19	130	1158	3.060	0	✓			X										
20																		
21																		
22																		
23																		
24																		

Comments: Bottle 18 didn't trip. 6 SAR Samples Calibration + 02

SHIP:
ENTERED BY: JL
CHECKED BY:

Bottom Depth: 1479

Cast # down: 19
Cast # up: 19

Time	LOC	UTC
Begin:		
Bottom:		0524
End:		0604

START POSITION (GPS)
LAT: 48 32 068
LONG: 126 36 304

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48 31 831
LONG: 126 36 304

ROSETTE LOG

MISSION ID: 2003-33 STATION: LDO7 CAST NUMBER: 22 UTC DATE (dd/mm/yyyy): 04/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	5CH	20C1				
1	131	1479	0.502	Bot	✓ 480		x											
2	132	1463	0.617	400	✓ 400		x											
3	133			300	✓ 300		x											
4	134	1465	0.884	250	✓ 250		x											
5	135	1466	0.953	200	✓ 200		x											
6	136	1467	1.272	175	✓ 175		x											
7	137	1471	1.509	150	✓ 151		x											
8	138			125	✓ 125		x											
9	139	1468	1.586	100	✓ 101		x											
10	140	1472	1.778	75	✓ 75		x											
11	141	1473	1.538	50	✓ 50		x	xx				xx						
12	142	1474	1.799	30	✓ 32		x	xx				xx						
13	143	1475	2.349	20	✓ 20		x	xx				xx	xx	xx				
14	144	1476	2.894	10	✓ 10		x	xx				xx						
15	145	1477	3.908	5	✓ 5		x	xx				xx	xx	xx				
16	146	1478	3.547	0			x	xx				xx						
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: No sample 3.
No sample 8

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 520

Cast # down: 22
Cast # up: 22

Time	LOC	UTC
Begin:		0956
Bottom:		1005
End:		1028

START POSITION (GPS)
LAT: 48 42.65
LONG: 126 16.78

BOTTOM POSITION (GPS)
LAT: 48 42.65
LONG: 126 16.79

END POSITION (GPS)
LAT: 48 42.63
LONG: 126 16.77

ROSETTE LOG

MISSION ID: 2003-33 STATION: LDØ4 CAST NUMBER: 25 UTC DATE (dd/mm/yyyy): 05 10 2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13	T					
							OXY			ALK		CHL			5CH	20CH		
1	147	1287	1.353	Bot-5			X											
2	148	1290	1.402	50			X	XX					XX					
3	149	1291	1.864	30			X	XX					XX					
4	150	1293	2.278	20			X	XX					XX		XX	XX		
5	151	1294	2.372	10			X	XX					XX					
6	152	1295	3.244	5			X	XX					XX		XX	XX		
7	153	1297	3.382	0			X	XX					XX					
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY: TL

CHECKED BY:

Bottom Depth: 62

Cast # down: 25

Cast # up: 25

Time	LOC	UTC
Begin:		0304
Bottom:		0305
End:		0315

START POSITION (GPS)

LAT: 48 53 118

LONG: 125 57 080

BOTTOM POSITION (GPS)

LAT: 48 53 119

LONG: 125 57 09

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2003-33 STATION: LD01 CAST NUMBER: 28 UTC DATE (dd/mm/yyyy): 05/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3	T			
							OXY			ALK		CHL		SCH	20CH	
1	154	1298	1.739	30	33		X	XX				XX				
2	155	1299	2.331	20	20		X	XX				XX		XX	XX	
3	156	1300	2.667	10	11		X	XX				XX				
4	157	1301	3.396	5	5		X	XX				XX		XX	XX	
5	158	1302	4.461	0	0		X	XX				XX				HUGE BUBBLE!
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Comments:

SHIP:

ENTERED BY: SL

CHECKED BY:

Bottom Depth: 35

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		
End:		0545

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49 00 . 12

LONG: 125 43 . 77

ROSETTE LOG

MISSION ID: 2003 -33 STATION: LF68 CAST NUMBER: 29 UTC DATE (dd/mm/yyyy): 06/10/2003

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	159			1200	-	1200												
2	160			1200	-	1200												
3	161			1200	-	1200												
4	162			1200	-	1200												
5	163			1200	-	1200												
6	164			1200	-	1201												
7	165			1200	-	1200												
8	166			1200	-	1200												
9	167			1200	-	1200												
10	168			1200	-	1200												
11	169			1200	-	1200												
12	170			1200	-	1200												
13	171			1200	-	1200												
14	172			1200	-	1200												
15	173			1200	-	1200												
16	174			1200	-	1200												
17	175			1200	-	1200												
18	176			1200	-	1201												No Sample
19	177			1200	-	1201												
20	178			1200	-	1201												
21	179			1200	-	1200												
22	180			1200	-	1200												
23	181			1200	-	1200												
24	182			1200	-	1200												

Comments: #18 bottle did not trip

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 1226

Cast # down: 29
Cast # up: 29

Time	LOC	UTC
Begin:		0058
Bottom:		0112
End:		0139

START POSITION (GPS)
LAT: 48 50 . 02
LONG: 126 50 . 73

BOTTOM POSITION (GPS)
LAT: 48 49 . 99
LONG: 126 50 . 84

END POSITION (GPS)
LAT: 48 50 . 16
LONG: 126 51 . 09

ROSETTE LOG

MISSION ID: 2003-33 STATION: EFF01 CAST NUMBER: 33 UTC DATE (dd/mm/yyyy): 06/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	183	1340	0.967	B-5	✓ 31			✓										
2	184	1334	0.804	20	✓ 20			✓										
3	185	1344	1.685	10	✓ 10			✓										
4	186	1336	4.157	0	✓ 1.5			✓										
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Joe -
here are the oxy
log sheets for
2003-33.
I'm not quite done
with the flags yet.
S

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 35

Cast # down: 33
Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 49°05.549
LONG: 125°11.665

END POSITION (GPS)
LAT:
LONG:

Comments: oxy analyzed Oct 18/03 ST.

ROSETTE LOG

MISSION ID: 2003-33 STATION: EFF 02 CAST NUMBER: 34 UTC DATE (dd/mm/yyyy): 06/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	187	1350	0.543	B-5	✓ 65		✓											
2	188	1351	0.451	50	✓ 50		✓											
3	189	1352	1.800	30	✓ 30		✓											
4	190	1353	1.934	20	✓ 20		✓											
5	191	1354	2.936	10	✓ 10		✓											
6	192	364	4.568	0	✓ 1.5		✓											
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Oxygen samples analysed Oct 18/03 S.T.

SHIP: Tully
 ENTERED BY:
 CHECKED BY:

Bottom Depth: 71

Cast # down:
 Cast # up:

Time	LOC	UTC
Begin:		<u>1623</u>
Bottom:		
End:		<u>1632</u>

START POSITION (GPS)
 LAT: 49 05.010
 LONG: 125 10.292

BOTTOM POSITION (GPS)
 LAT:
 LONG:

END POSITION (GPS)
 LAT:
 LONG:

ROSETTE LOG

MISSION ID: 2003-33 STATION: EFF03 CAST NUMBER: 35 UTC DATE (dd/mm/yyyy): 06 10 2003

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	193	535	0.00	100	✓	115												- anoxic
2	194	708	0.00	75	✓	75												- anoxic
3	195	572	1.331	50	✓	50												
4	196	657	2.143	30	✓	30												
5	197	1135	2.514	20	✓	20												
6	198	1136	3.615	10	✓	10												
7	199	1137	5.008	0	✓	1.5												
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Oxygen samples analysed Oct 18/03 (S.T.)

SHIP: Tully

ENTERED BY:

CHECKED BY:

Bottom Depth: 113

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		1655
Bottom:		
End:		1706

START POSITION (GPS)

LAT: 49°04.243'

LONG: 125°09.384'

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2003-33 STATION: EFF04 CAST NUMBER: 36 UTC DATE (dd/mm/yyyy): 06 10 2003

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	200	1130	1.606	50	✓	60.5												
2	201	1158	2.309	30	✓	30												
3	202	1146	2.696	20	✓	20												
4	203	1138	3.468	10	✓	10												
5	204	1142	6.128	0	✓	1.6												
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: oxygen samples analyzed Oct 18/03 (S-T)

SHIP: Tully

ENTERED BY:

CHECKED BY:

Bottom Depth: 63

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		1729
Bottom:		
End:		1736

START POSITION (GPS)

LAT: 49°03.115

LONG: 125°08.590

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49 03.115

LONG: 125°08.590

ROSETTE LOG

MISSION ID: 2003-33 STATION: EFF 5 CAST NUMBER: 37 UTC DATE (dd/mm/yyyy): 06/10/2003

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	205	1175	0.100	B-5	✓ 200		x											anoxic ? 1st
2	206	1153	0.101	175	✓ 175													"
3	207	1176	0.098	150	✓ 150													(* little low)
4	208	1188	0.846	125	✓ 125													
5	209	1192	1.616	100	✓ 100													
6	210	1195	1.184	75	✓ 75													
7	211	1206	1.487	50	✓ 50													
8	212	1212	2.367	30	✓ 30													
9	213	1287	2.886	20	✓ 20													went over 101%.
10	214	1290	3.411	10														"
11	215	1291	5.064	0			x											
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully

ENTERED BY:

CHECKED BY:

Bottom Depth: 206

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		1753
Bottom:		
End:		1814

START POSITION (GPS)

LAT: 49° 02.527

LONG: 125° 09.158

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49° 02.527

LONG: 125° 09.150

Comments: Oxygen samples analyzed Oct 18/03 (S.T.)

* sample 1 & 213 - after sitting overnight Sample 213 - 215 Analyzed Oct 20/03

ROSETTE LOG

MISSION ID: 2003-33

STATION: EFF06

CAST NUMBER: 38

UTC DATE (dd/mm/yyyy):

06/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	C13	CHL						
1	216	1293	0.778	150	✓	147		X										
2	217	1294	1.450	125	✓	125												
3	218	1295	1.402	100	✓	99												
4	219	1298	1.135	75	✓	75												
5	220	1299	1.560	50	✓	50												
6	221	1300	2.542	30	✓	30												
7	222	1301	2.951	20	✓	20												
8	223	1302	3.504	10	✓	10												
9	224	1303	4.894	0	✓	1.5		X										
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully

ENTERED BY:

CHECKED BY:

Bottom Depth: 150

Cast # down: 38

Cast # up: 11

Time LOC UTC

Begin: 1844

Bottom:

End: 1859

START POSITION (GPS)

LAT: 49° 01.771

LONG: 125° 09.167

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49° 01.794

LONG: 125° 9.163'

Comments:

Oxygens analyzed Oct 20/03 ST

ROSETTE LOG

MISSION ID: 2003-33 STATION: EFF07 CAST NUMBER: 39 UTC DATE (dd/mm/yyyy): 06/10/2003

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	225	1304	1.613	100	✓ 110			X										
2	226	1305	1.330	75	✓													
3	227	1306	1.534	50	✓													
4	228	1307	2.663	30	✓													
5	229	1309	2.936	20	✓													
6	230	1310	3.246	10	✓													
7	231	1311	6.683	0	✓			X										
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Oxygen samples analysed Oct 20/03 (S.T.)

SHIP: Tully

ENTERED BY:

CHECKED BY:

Bottom Depth: 115

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		
End:		

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2003-33 STATION: EFF08 CAST NUMBER: 10 UTC DATE (dd/mm/yyyy): 06/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
							OXY				ALK		CHL					
1	232	1313	1.390	75	75.36		X											
2	233	1314	1.397	75	75													oxy computer put in wrong depth
3	234	1315	1.596	50	50													
4	235	1328	2.697	30	30													
5	236	1317	2.954	20	20													
6	237	1318	3.393	10	10.45													
7	238	1319	1.69	0	1.64		X											0.69 ml + 0.199
8	999	1319	1.099															computer glitch -
9																		stopped halfway through
10																		titration
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Oxygen samples analyzed Oct 20/03

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 85

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		
End:	19:57	

START POSITION (GPS)
LAT: 49.00.671
LONG: 125.10.229

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49.00.649
LONG: 125.10.256

ROSETTE LOG

MISSION ID: 2003-33 STATION: FFF09 CAST NUMBER: 4041 UTC DATE (dd/mm/yyyy): 06 10 2003

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	239	1356	1.716	60	✓ 55			✗								
2	240	1358	2.582	30	✓ 30											
3	241	1360	2.942	20	✓ 20											
4	242	1361	3.837	10	9.76											
5	243	1362	5.453	0	1.6			✗								
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Comments: Oxygens analysed Oct 20/03

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 64

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		20.12
Bottom:		
End:		20.18

START POSITION (GPS)
LAT: 49.0.091
LONG: 125.10.861

BOTTOM POSITION (GPS)
LAT: 49.0.084
LONG: 125.10.855

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 2003-33 STATION: EFF10 CAST NUMBER: AT 42 UTC DATE (dd/mm/yyyy): 06/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3				
							OXY			ALK.		CHL				
1	244	1363	1.772	Bot	90											
2	245	1364	1.794	75	75											
3	246	1365	1.629	60	60											
4	247	1366	2.616	30	30											
5	248	1367	2.909	20	20											
6	249	1368	3.278	10	10.16											
7	250	1369	4.458	0	1.5											
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

SHIP: Tully

ENTERED BY:

CHECKED BY:

Bottom Depth: 101

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		20:30
Bottom:		
End:		20:39

START POSITION (GPS)

LAT: 49.59.8.24

LONG: 125.11.221

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49.59.770

LONG: 125.11.245

Comments: Oxygens analyzed Oct 20/03

ROSETTE LOG

MISSION ID: 2003-33 STATION: EFF 11 CAST NUMBER: 42 43 UTC DATE (dd/mm/yyyy):

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	251	1371	1.869	B-5	80		X									
2	252	1373	1.741	50	50											
3	253	1374	2.697	30	30.5											
4	254	1376	3.048	20	20.21											
5	255	1378	3.446	10	10.10											
6	256	1379	4.899	0	1.7		X									
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Comments: Oxygen's analyzed Oct 20/03 ST.

SHIP: Tully

ENTERED BY:

CHECKED BY:

Bottom Depth: 85

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		21:03
Bottom:		21:11
End:		21:11

START POSITION (GPS)

LAT: 48.59.117

LONG: 125.11.060

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48.59.118

LONG: 125.11.063

ROSETTE LOG

MISSION ID: 203 STATION: EFF 12 CAST NUMBER: 43 44 UTC DATE (dd/mm/yyyy):

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK		CHL						
3.1	257	1380	2.027	B-5	85													
4.2	258	1381	1.909	75	75													
5.8	259	1382	2.172	50	50													
6.4	260	1383	2.694	30	30.2													
7.5	261	1384	3.202	20	20.8													
8.8	262	1385	3.861	10	10													
9.7	263	1482	5.505	0	2													
10.8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully

ENTERED BY:

CHECKED BY:

Bottom Depth: 97

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		2150
Bottom:		2158
End:		

START POSITION (GPS)

LAT: 49.57.995

LONG: 125.10.513

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48.58.012

LONG: 125.10.487

Comments: First 2 Bottles were fired incorrectly. Bottom came from Nisk 3. Oxygen samples analyzed Oct 20163

ROSETTE LOG

MISSION ID: 2003-33 STATION: LB02 CAST NUMBER: 45 UTC DATE (dd/mm/yyyy): 07/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	5CHL	2CHL	HPIC	LAN		
1	264	1389	1.584	50	✓	Bot-10		XX				XX						
2	265	1391	1.771	29	✓	30		XX				XX						
3	266	1393	1.884	19	✓	20		XX				XX	XX			XX		
4	267	1394	1.855	19	✓	20								XX	XX			
5	268	1397	1.990	10	✓	10		XX				XX						
6	269	1398	2.148	5	✓	5		XX				XX	XX			XX		
7	270	1399	2.038	5	✓	5								XX	XX			
8	271	1400	2.035	1.5		0		XX				XX						
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 57

Cast # down: 45

Cast # up: 45

Time	LOC	UTC
Begin:		0137
Bottom:		0139
End:		

START POSITION (GPS)

LAT: 18 38 97

LONG: 125 02 58

BOTTOM POSITION (GPS)

LAT: 48 38 97

LONG: 125 02 59

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2003-33

STATION: LB04

CAST NUMBER: 46

UTC DATE (dd/mm/yyyy): 07/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13	T				HP	
							OXY			ALK.		CHL	P _H ¹⁰	SC _H	20C _H	2C		
1	269			100	✓ 100													
2	270			75	✓ 75													
3	271	*		50	✓ 50			xx				xx						
4	272			30	✓ 30			xx				xx						
5	273			20	✓ 20			xx				xx	xx	xx				
6	274			20	✓ 20			xx							xx	xx		
7	275		2 new	10	✓ 10			xx				xx						
8	276			5	✓			xx				xx	xx	xx				
9	277			5	✓			xx					xx		xx	xx		
10	278			0	✓			xx				xx						
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Sample # 291 was used for cast 45; to avoid confusion it will be archived as # 9271 for this cast. G. Gation

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 157

Cast # down: 46

Cast # up: 46

Time	LOC	UTC
Begin:		0614
Bottom:		
End:		

START POSITION (GPS)

LAT: 48 35.73

LONG: 125 08.72

BOTTOM POSITION (GPS)

LAT: 48 35.79

LONG: 125 08.86

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2003-33 STATION: L307 CAST NUMBER: AT 48³ UTC DATE (dd/mm/yyyy): 07/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3	T				HP	
							OXY			ALK		CHL	FeM	20CM	Phy	LC		
1	279	1402	0.581	Bot	✓ 146		X											
2	280	1403	0.484	150	✓ 146		X											
3	281	1404	0.633	125	✓ 127		X											
4	282	1406	0.630	100	✓ 101		X											
5	283	1407	0.922	75	✓ 75		X											
6	284	1410	1.308	50	✓ 50		X	XX					XX					
7	285	1411	1.765	30	✓ 30		X	XX					XX					
8	286	1414	2.182	20	✓ 21		X	XX					XX	XX		XX		
9	287	1417	2.243	20	✓ 21		X	XX						XX		XX		
10	288	1421	2.818	10	✓ 10		X	XX					XX					
11	289	1422	2.886	5	✓ 5		X	XX					XX	XX		XX		
12	290	1423	2.853	5	✓ 5		X	XX						XX		XX		
13	291	1424	2.875	0			X	XX					XX					
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 157

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0811
Bottom:		0811
End:		0829

START POSITION (GPS)
LAT: 48 28 70
LONG: 125 22 14

BOTTOM POSITION (GPS)
LAT: 48 28 69
LONG: 125 22 13

END POSITION (GPS)
LAT: 48 28 68
LONG: 125 22 10

ROSETTE LOG

MISSION ID: 2003-33 STATION: BIO-2 CAST NUMBER: 66 UTC DATE (dd/mm/yyyy): 09/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13	T	SS	>20			
							OXY	G+P	NH ₄		ALK.		CHL	SFC	SFC	HPLE	PFI	
1	292	1389	2.845	B-10	✓ 265	✓	✓	✓✓	✓✓									note to self: - need to change cast info in 1 st oxy files (ST)
2	293	1391	2.795	250	✓ 251	✓	✓	✓✓	✓✓									
3	294	1393	2.855	200	✓ 201		✓	✓✓	✓✓									
4	295	1394	2.880	175	✓ 176		✓	✓✓	✓✓									
5	296	1397	2.905	150	✓ 151		✓	✓✓	✓✓									
6	297	1398	2.924	125	✓ 126		✓	✓✓	✓✓									
7	298	1399	2.988	100	✓ 101		✓	✓✓	✓✓									
8	299	1400	3.205	75	✓		✓	✓✓	✓✓									(bubble on lens)
9	300	1402	3.373	40	✓		✓	✓✓	✓✓				✓✓	✓✓	✓✓			
10	301	1403	3.390	30	✓		✓	✓✓	✓✓				✓✓	✓✓	✓✓			
11	302	1404	3.731	20	✓		✓	✓✓	✓✓				✓✓			✓✓		
12	303	1406	4.428	20	✓		—							✓✓	✓✓		✓	+ photo
13	304	1406	4.428	15	✓		✓	✓✓	✓✓				✓✓	✓✓	✓✓			wrong sample # (put in as 303)
14	305	1407	4.905	10	✓		✓	✓✓	✓✓				✓✓	✓✓	✓✓			
15	306	1410	4.892	5	✓		✓	✓✓	✓✓				✓✓	✓✓				
16	307	1410		5	✓		—								✓✓	✓✓	✓	
17	308	1411	4.963	0			✓	✓✓	✓✓				✓✓	✓✓	✓✓			
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

Oxygen min out 20/03 S.T.
false

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 274

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		<u>1444</u>
Bottom:		<u>1450</u>
End:		<u>1511</u>

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

(LABELS PRINTED) T2

MISSION ID: 2003-33 STATION: GIØ2 CAST NUMBER: 67 UTC DATE (dd/mm/yyyy): 09/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL		5 ^{CHL}	20 ^{CH}			
1	309			50	- 50			XX				XX						
2	310			30	- 30			XX				XX						
3	311			20	- 20			XX				XX		XX	XX			
4	312			10	- 10			XX				XX						
5	313			5	- 5			XX				XX		XX	XX			
6	314			0	- 2			XX				XX						
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 267

Cast # down: 67

Cast # up: 67

Time

LOC

UTC

Begin: 2345

Bottom: 2351

End: 0000

START POSITION (GPS)

LAT: 49 02.64

LONG: 123 23.32

BOTTOM POSITION (GPS)

LAT: 49 02.63

LONG: 123 23.30

END POSITION (GPS)

LAT: 49 02 62

LONG: 123 25 27

ROSETTE LOG

MISSION ID: 2003-33

STATION: GIØ1

CAST NUMBER: 68

UTC DATE (dd/mm/yyyy): 10/10/2003

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken											
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13	T		CHL	CHL	
							OXY				ALK		CHL	5	20		
1	315			50	✓ 51			XX					XX				
2	316			30	✓ 31			XX					XX				
3	317			20	✓ 20			XX					XX		XX	XX	
4	318			10	✓ 10			XX					XX				
5	319			5	✓ 6			XX					XX		XX	XX	
6	320			0				XX					XX				
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 162

Cast # down: 68

Cast # up: 68

Time	LOC	UTC
Begin:		0119
Bottom:		0123
End:		0132

START POSITION (GPS)

LAT: 48 58.55

LONG: 123 16.23

BOTTOM POSITION (GPS)

LAT: 48 58.58

LONG: 123 16.13

END POSITION (GPS)

LAT: 48 58.58

LONG: 123 15.97