

ROSETTE LOG

MISSION ID: 2004-10 STATION: P2 CAST NUMBER: 2 UTC DATE (dd/mm/yyyy): 02/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CHL					
1	2	1231	2.261	Bot-5	✓ 113	✓	✓	✓											
2	3	1228	2.193	100	✓ 96														
3	4	1235	4.696	75	✓ 75														
4	5	1233	4.695	75	✓ 75														
5	6	1237	5.789	50	✓ 50														
6	7	1256	6.267	25	✓ 25														
7	8	1241	6.341	10	✓ 10														
8	9	1247	6.286	5	✓ 5														
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

SHIP: JOHN P TULLY
 ENTERED BY: MR
 CHECKED BY:

Bottom Depth: 118

Cast # down: 2
 Cast # up:

Time	LOC	UTC
Begin:		0940
Bottom:		0943
End:		0951

START POSITION (GPS)
 LAT: 48°35.94
 LONG: 126°00.18

BOTTOM POSITION (GPS)
 LAT: 48°35.92
 LONG: 126°00.25

END POSITION (GPS)
 LAT: 48°35.98
 LONG: 126°00.08

Comments:

ROSETTE LOG

DEEP CAST

MISSION ID: 2004-10 STATION: P4 CAST NUMBER: 5 UTC DATE (dd/mm/yyyy): 02/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO ₂		Cl3		5% ₁₀		
						OXY		NH ₄		ALK		CHL				
1	11	1231	0.551	Bot-5	✓ 1328	✓										Bottle for UDC
2	12	1231	0.551	Bot-5	✓ 1328		✓	✓		✓						
3	13	1228	0.441	1250	✓ 1249				✓							
4	14	1235	0.242	1000	✓				✓	✓						
5	15	1233	0.242	1000	✓ 1001				✓							
6	16	1237	0.245	800	✓		✓	✓	✓	✓						
7	17			800	✓											Bottle for traps
8	18	1256	0.372	600	✓ 601		✓	✓		✓						
9	19	1241	0.925	400	✓											
10	20	1247	1.561	300	✓											
11	21	1238	2.365	200	✓											
12	22	1327	2.497	175	✓											
13	23	1258	2.753	150	✓			✓								
14	24	1260	3.476	125	✓ 125											
15	25	1268	4.628	100	✓ 101					✓			✓			
16	26	1267	6.031	75	✓					✓			✓			
17	27	1272	6.538	50	✓					✓			✓			
18	28	1270	6.838	25	✓					✓			✓			(check value) ok
19	29	1271	6.620	10	✓					✓			✓			
20	30	1273	6.673	5	✓	✓	✓	✓	✓	✓			✓			
21																
22																
23																
24																

Comments:

SHIP: Tully
ENTERED BY: ST
CHECKED BY:

Bottom Depth: 1335

Cast # down: 5
Cast # up:

Time	LOC	UTC
Begin:		1354
Bottom:		1414
End:		1859
		1450

START POSITION (GPS)
LAT: 48° 38' 94"
LONG: 126° 40' 07"

BOTTOM POSITION (GPS)
LAT: 48° 38' 86"
LONG: 126° 40' 20"

END POSITION (GPS)
LAT: 48° 38' 76"
LONG: 126° 40' 42"

ROSETTE LOG

DMS SHALLOW CAST

MISSION ID: 2004-10

STATION: P4

CAST NUMBER: 7

UTC DATE (dd/mm/yyyy):

02 06 2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CO ₂		POC		
1	31			200	✓ 200			✓	✓									
2	32			175	✓ 175			✓	✓									
3	33			100	✓			✓	✓			✓		✓	✓	✓		
4	34			50	✓			✓	✓			✓		✓	✓	✓		
5	35			40	✓			✓	✓			✓		✓	✓	✓		
6	36			30	✓			✓	✓			✓		✓	✓	✓		
7	37			25	✓			✓	✓			✓		✓	✓	✓		
8	38			20	✓			✓	✓			✓		✓	✓	✓		
9	39			15	✓			✓	✓			✓		✓	✓	✓		
10	40			15	✓			✓	✓			✓		✓	✓	✓		
11	41			15	✓			✓	✓			✓		✓	✓	✓		
12	42			15	✓			✓	✓			✓		✓	✓	✓		
13	43			15	✓			✓	✓			✓		✓	✓	✓		
14	44			10	✓			✓	✓			✓		✓	✓	✓		
15	45			5	✓			✓	✓			✓		✓	✓	✓		
16	46			0				✓	✓			✓		✓	✓	✓		
17								✓	✓			✓		✓	✓	✓		
18								✓	✓			✓		✓	✓	✓		
19								✓	✓			✓		✓	✓	✓		
20								✓	✓			✓		✓	✓	✓		
21								✓	✓			✓		✓	✓	✓		
22								✓	✓			✓		✓	✓	✓		
23								✓	✓			✓		✓	✓	✓		
24								✓	✓			✓		✓	✓	✓		

SHIP: JOHN P TULLY

ENTERED BY: MR

CHECKED BY:

Bottom Depth: 736

Cast # down: 7

Cast # up:

Time LOC UTC

Begin: 0930 1630

Bottom: 0934 1634

End: 0950 1652

START POSITION (GPS)

LAT: 48 38 992

LONG: 126 39 979

BOTTOM POSITION (GPS)

LAT: 48 38 989

LONG: 126 39 986

END POSITION (GPS)

LAT: 48 39 026

LONG: 126 40 036

Comments:

ROSETTE LOG

MISSION ID: 2004-10 STATION: P8 CAST NUMBER: 12 UTC DATE (dd/mm/yyyy): 03/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CHL				
1	50	1334	7.824	2000	✓	✓	✓	✓										(bad value -)
2	51	1336	0.672	1500	✓	✓	✓	✓										↳ titration OK
3	52	1344	0.375	1250	✓	✓	✓	✓										
4	53	1319	0.371	1250	✓	✓	✓	✓										
5	54	1351	0.220	1000	✓	✓	✓	✓										
6	55	1350	0.220	800	✓	✓	✓	✓										
7	56	1352	0.494	600	✓	✓	✓	✓										
8	57	364	1.393	400	✓	✓	✓	✓										
9	58	1353	2.278	300	✓	✓	✓	✓										
10	59	1130	2.832	250	✓	✓	✓	✓										
11	60	572	3.617	200	✓	✓	✓	✓										
12	61	535	3.987	175	✓	✓	✓	✓										
13	62	1389	4.693	150	✓	✓	✓	✓										
14	63	708	4.944	125	✓	✓	✓	✓										
15	64	1176	5.403	100	✓	✓	✓	✓										tip from ALK I tell 100g
16	65	1135	6.379	75	✓	✓	✓	✓										sample
17	66	1137	6.568	50	✓	✓	✓	✓										
18	67	1136	6.577	25	✓	✓	✓	✓										
19	68	1391	6.654	10	✓	✓	✓	✓										(bad wrong flask?) 6g
20	69	657	6.414	5	✓	✓	✓	✓										
21																		
22																		
23																		
24																		

SHIP: Jaw P Tulay
 ENTERED BY: MR/ST
 CHECKED BY:

Bottom Depth: ~2440

Cast # down: 12
 Cast # up:

Time	LOC	UTC
Begin:		<u>1201</u>
Bottom:		<u>1226</u>
End:		<u>1311</u>

START POSITION (GPS)
 LAT: 48'49.03
 LONG: 128'40.04

BOTTOM POSITION (GPS)
 LAT: 48'48.92
 LONG: 128'40.04

END POSITION (GPS)
 LAT: 48'48.98
 LONG: 128'40.04

Comments: Or: added / topped up chemicals - New standards - blanks to be run -> P12 (not P8) ST.

ROSETTE LOG

MISSION ID: 2004-10STATION: P12CAST NUMBER: 17

UTC DATE (dd/mm/yyyy):

03/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	C13	CHL	CO ₂	PO ₄	BSi			
1	73			200	✓			✓	✓									
2	74			175	✓			✓	✓			✓						
3	75			100	✓			✓	✓					✓	✓			
4	76			75	✓			✓	✓					✓	✓			
5	77			50	✓			✓	✓					✓	✓			
6	78			40	✓			✓	✓									
7	79			30	✓			✓	✓									
8	80			25	✓			✓	✓					✓	✓			
9	81			20	✓			✓	✓									
10	82			15	✓			✓	✓									
11	83			15	✓			✓	✓									
12	84			15	✓			✓	✓									
13	85			15	✓			✓	✓									
14	86			15	✓			✓	✓									
15	87			10	✓			X	X			X		X	X			oops! click happy (extra 15m) finger.
16	88			5	✓			✓	✓			✓	✓	✓	✓			
17	89			0	✓			✓	✓			✓	✓	✓	✓			
18	999				✓			✓	✓			✓						
19								✓	✓									
20								✓	✓									
21								✓	✓									
22								✓	✓									
23								✓	✓									
24								✓	✓									

Comments:

SHIP: JOHN PULLYENTERED BY: MR HSTCHECKED BY: STBottom Depth: ~3300Cast # down: 17

Cast # up:

Time LOC UTC

Begin: 0047Bottom: 0050End: 0104

START POSITION (GPS)

LAT: 48°58.26LONG: 130°39.95

BOTTOM POSITION (GPS)

LAT: 48°58.25LONG: 130°39.97

END POSITION (GPS)

LAT: 48°58.24LONG: 130°39.95

ROSETTE LOG

MISSION ID: 2004-10

STATION: P12

CAST NUMBER: 19

UTC DATE (dd/mm/yyyy):

04/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		OXY	NUT		TCO		CI3		SF6			
1	90	1435	2.377	But-10	✓	3280	✓	✓	✓		✓							looked high
2	91	1437	2.417	3000	✓		✓	✓	✓		✓							bad value? maybe not ok
3	92	1313	1.939	2500	✓		✓	✓	✓		✓							cracked flask
4	93	1328	1.388	2000	✓		✓	✓	✓		✓							
5	94	1460	1.383	2000	✓		✓	✓	✓		✓							
6	95	1438	0.641	1500	✓		✓	✓	✓		✓							Nisk 6 leaks
7	96	1439	0.378	1250	✓		✓	✓	✓		✓							
8	97	1440	0.244	1000	✓		✓	✓	✓		✓							
9	98	1441	0.236	800	✓		✓	✓	✓		✓							
10	99	1442	0.528	600	✓		✓	✓	✓		✓							
11	100	1443	1.540	400	✓		✓	✓	✓		✓							
12	101	1444	2.316	300	✓		✓	✓	✓		✓							
13	102	1445	3.109	250	✓		✓	✓	✓		✓							
14	103	1446	3.545	200	✓		✓	✓	✓		✓							
15	104	1447	3.815	175	✓		✓	✓	✓		✓							
16	105	1448	4.189	150	✓		✓	✓	✓		✓							
17	106	1449	4.634	125	✓		✓	✓	✓		✓							
18	107	1450	5.048	100	✓		✓	✓	✓		✓				✓			
19	108	1451	6.194	75	✓		✓	✓	✓		✓				✓			
20	109	1452	6.592	50	✓		✓	✓	✓		✓				✓			
21	110	1453	6.637	25	✓		✓	✓	✓		✓				✓			
22	111	1454	6.528	10	✓		✓	✓	✓		✓				✓			
23	112	1455	6.515	5	✓		✓	✓	✓		✓				✓			
24																		

Comments:

SHIP: Tully

ENTERED BY: MR

CHECKED BY: ST

Bottom Depth: 3300

Cast # down: 19

Cast # up:

Time LOC UTC

Begin: 0203

Bottom: 0249

End: 0400

START POSITION (GPS)

LAT: 48°58.23

LONG: 130°39.91

BOTTOM POSITION (GPS)

LAT: 48°58.24

LONG: 130°39.94

END POSITION (GPS)

LAT: 48°58.188

LONG: 130°40.062

ROSETTE LOG

SHALLOW DMS CAST

MISSION ID: 2004-10

STATION: P16

CAST NUMBER: 24

UTC DATE (dd/mm/yyyy):

5/6/2009

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CHL					
1	116			200	✓			✓	✓										
2	117			175	✓			✓	✓										
3	118			100	✓			✓	✓			✓	✓	✓					
4	119			75	✓			✓	✓			✓	✓	✓					
5	120			50	✓			✓	✓			✓	✓	✓					
6	121			40	✓			✓	✓			✓	✓	✓					
7	122			30	✓			✓	✓			✓	✓	✓					
8	123			25	✓			✓	✓			✓	✓	✓					
9	124			25	✓			✓	✓			✓	✓	✓					
10	125			25	✓			✓	✓			✓	✓	✓					
11	126			25	✓			✓	✓			✓	✓	✓					
12	127			25	✓			✓	✓			✓	✓	✓					
13	128			20	✓			✓	✓			✓	✓	✓					
14	129			15	✓			✓	✓			✓	✓	✓					
15	130			10	✓			✓	✓			✓	✓	✓					
16	131			5	✓			✓	✓			✓	✓	✓					
17	132			0	✓			✓	✓			✓	✓	✓					
18	133				✓			✓	✓			✓	✓	✓					
19																			
20																			
21																			
22																			
23																			
24																			

SHIP: JOHN A TULLY

ENTERED BY: MR

CHECKED BY: DR

Bottom Depth: 3637

Cast # down: 24

Cast # up:

Time LOC UTC

Begin: 2300 0600

Bottom: 2303 0603

End: 0632

START POSITION (GPS)

LAT: 49 17 107

LONG: 134 40 142

BOTTOM POSITION (GPS)

LAT: 49 17 071

LONG: 134 40 088

END POSITION (GPS)

LAT: 49 17.05

LONG: 134 40.04

Comments:

Niskin 15+16 are 10m
Niskin 17 is 5m
Niskin 18 is 0

ROSETTE LOG

MISSION ID: 2004-10

STATION: P16

CAST NUMBER: 26

UTC DATE (dd/mm/yyyy):

05/06/04

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		STC				
1	133	1399	2.695	Bot-10	✓	3683	✓		✓									
2	134	1432	2.611	3500	✓	3560												
3	135	1433	2.421	3000	✓	3000												
4	136	1434	1.845	2500	✓	2499												
5	137	1391	1.318	2000	✓	2000												
6	138	657	0.601	1500	✓	1499												
7	139	1393	0.344	1250	✓	1250												
8	140	1400	0.296	1000	✓	1000				✓								
9	141	1397	0.308	1000	✓	1000												
10	142	1398	0.390	800	✓	798			✓									
11	143	1389	0.705	600	✓	600												
12	144	708	1.465	400	✓	400												
13	145	1176	2.194	300	✓	300												
14	146	1135	2.758	250	✓	250												
15	147	1137	3.800	200	✓	200												
16	148	1136	4.589	175	✓	176												
17	149	1352	5.151	150	✓	150												
18	150	364	4.998	125	✓	124												
19	151	1353	5.777	100	✓	101			✓					✓				
20	152	1130	6.695	75	✓	74			✓					✓				
21	153	572	6.988	50	✓	50			✓					✓				
22	154	535	6.660	25	✓	25			✓					✓				
23	155	1334	6.749	10	✓	10			✓					✓				
24	156	1336	6.658	5	✓	6	✓	✓	✓	✓	✓			✓				

SHIP: Tully

ENTERED BY: DRY

CHECKED BY:

Bottom Depth: 3600

Cast # down: 26

Cast # up: 26

Time	LOC	UTC
Begin:	0157	0857
Bottom:	0241	0941
End:		1045

START POSITION (GPS)

LAT: 49 17.07

LONG: 134 40.09

BOTTOM POSITION (GPS)

LAT: 49 16.98

LONG: 134 40.01

END POSITION (GPS)

LAT: 49 16.99

LONG: 134 40.08

Comments:

BLUE
RACK

* new value = 3814 m/c

ROSETTE LOG

MISSION ID: 2004-10 STATION: P19 CAST NUMBER: 29 UTC DATE (dd/mm/yyyy): 5/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		Colo					
1	159			30	✓														
2	160			30	✓														
3	161			30	✓														
4	162			30	✓														
5	163			30	✓														
6	164			30	✓														
7	165			5		✓		✓					✓	✓					
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

SHIP: Tully
 ENTERED BY: ST
 CHECKED BY:

Bottom Depth: 3925

Cast # down: 29
 Cast # up:

Time	LOC	UTC
Begin:		0129
Bottom:		0159
End:		0226

START POSITION (GPS)
 LAT: 49°30.03
 LONG: 137°39.94

BOTTOM POSITION (GPS)
 LAT: 49°30.23
 LONG: 137°39.84

END POSITION (GPS)
 LAT: 49°30.76
 LONG: 137°39.03

Comments:

ROSETTE LOG

SHALLOW DMS CAST

MISSION ID: 2004-10

STATION: P20

CAST NUMBER: 30

UTC DATE (dd/mm/yyyy):

05/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		Bio		Colu		
1	166			200	✓ 200			✓	✓									
2	167			175	✓ 174			✓	✓									
3	168			100	✓ 99			✓	✓				✓	✓	✓			
4	169			75	✓ 76									✓	✓			
5	170			50	✓ 50									✓	✓			
6	171			40	✓ 40													
7	172			30	✓ 30													
8	173			25	✓ 26									✓	✓			
9	174			20	✓ 20													
10	175			15	✓ 13													
11	176			10	✓ 10									✓	✓			
12	177			5	✓ 6									✓	✓	✓		
13	178			0	✓ 1													
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP:
ENTERED BY: Wendy H.
CHECKED BY:

Bottom Depth: 3963

Cast # down: 30

Cast # up: 30

Time	LOC	UTC
Begin:		0706
Bottom:		0710
End:		0728

START POSITION (GPS)
LAT: 49 34 148
LONG: 138 39 775

BOTTOM POSITION (GPS)
LAT: 49 34 180
LONG: 138 39 784

END POSITION (GPS)
LAT: 49 34 042
LONG: 138 39 629

Comments:

ROSETTE LOG

DEEP CAST

MISSION ID: 2004-10

STATION: P 20

CAST NUMBER: 32

UTC DATE (dd/mm/yyyy):

06/06/04

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		560				
1	179	1435	3.165	Bot-10	✓ 4024	✓	✓	✓		✓								
2	180	1437	2.814	3500	✓ 3497	✓	✓	✓		✓								
3	181	1313	2.470	3000	✓ 2999	✓	✓	✓		✓								
4	182	1328	2.460	3000	✓ 2999	✓	✓	✓		✓								
5	183	1460	1.899	2500	✓ 2500	✓	✓	✓		✓								
6	184	1438	1.232	2000	✓ 2000	✓	✓	✓		✓								
7	185	1439	0.539	1500	✓ 1499	✓	✓	✓		✓								
8	186	1440	0.330	1250	✓ 1250	✓	✓	✓		✓								
9	187	1441	0.236	1000	✓ 1000	✓	✓	✓		✓								
10	188	1442	0.321	800	✓ 799	✓	✓	✓		✓								
11	189	1443	0.600	600	✓ 600	✓	✓	✓		✓								
12	190	1444	1.263	400	✓ 399	✓	✓	✓		✓								
13	191	1445	1.842	300	✓ 300	✓	✓	✓		✓								
14	192	1446	2.344	250	✓ 250	✓	✓	✓		✓								
15	193	1447	3.114	200	✓ 200	✓	✓	✓		✓								
16	194	1448	3.603	175	✓	✓	✓	✓		✓								
17	195	1449	4.330	150	✓	✓	✓	✓		✓								
18	196	1450	5.091	125	✓ 125	✓	✓	✓		✓								
19	197	1451	5.800	100	✓ 100	✓	✓	✓		✓								
20	198	1452	6.901	75	✓ 75	✓	✓	✓		✓								
21	199	1453	7.071	50	✓ 50	✓	✓	✓		✓								
22	200	1454	6.666	25	✓ 25	✓	✓	✓		✓								
23	201	1455	6.724	10	✓ 10	✓	✓	✓		✓								
24	202	1457	6.659	5		✓	✓	✓		✓								

Comments:

GREEN
BACK

SHIP: Tully

ENTERED BY: DRY

CHECKED BY:

Bottom Depth: 3964

Cast # down: 32

Cast # up: 32

Time	LOC	UTC
Begin:	0125	0825
Bottom:	0211	0911
End:	0325	1025

START POSITION (GPS)	
LAT:	49 33.95
LONG:	138 39.82

BOTTOM POSITION (GPS)	
LAT:	49 34.10
LONG:	138 39.83

END POSITION (GPS)	
LAT:	49 33.95
LONG:	138 40.06

ROSETTE LOG

UBC + TRAP WATER

MISSION ID: 2004-10

STATION: P22

CAST NUMBER: 34

UTC DATE (dd/mm/yyyy):

06/06/04

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13							
1	204			2000	✓ 2000														
2	205			2000	✓														
3	206			2000	✓														
4	207			2000	✓														
5	208			35	✓ 36														
6	209			35	✓														
7	210			35	✓														
8	211			35	✓														
9	212			35	✓														
10	213			35	✓														
11	214			5	✓ 5	✓		✓					✓	✓					
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Comments:

SHIP: Tolly

ENTERED BY: dy

CHECKED BY:

Bottom Depth: 3850

Cast # down: 34

Cast # up: 34

Time LOC UTC

Begin: 1327 2027

Bottom: 1355 2055

End: 1421 2121

START POSITION (GPS)

LAT: 49 41.96

LONG: 140 40.07

BOTTOM POSITION (GPS)

LAT: 49 41.99

LONG: 140 39.97

END POSITION (GPS)

LAT: 49 42.00

LONG: 140 39.97

ROSETTE LOG

MISSION ID: 2004-10 STATION: P23 CAST NUMBER: 35 UTC DATE (dd/mm/yyyy): 06/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CHL				
1	215			30	✓													} UBC
2	216			30	✓													
3	217			30	✓													
4	218			30	✓													
5	219			30	✓													
6	220			30	✓													
7	221			5		X		X				X	X					5m Niskin
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: _____

SHIP: Tully
 ENTERED BY: ST
 CHECKED BY: _____

Bottom Depth: 4049

Cast # down: 35
 Cast # up: _____

Time	LOC	UTC
Begin:		<u>0146</u>
Bottom:		<u>0213</u>
End:		<u>0239</u>

START POSITION (GPS)
 LAT: 49°45.93
 LONG: 141°39.90

BOTTOM POSITION (GPS)
 LAT: 49°45.97
 LONG: 141°39.98

END POSITION (GPS)
 LAT: 49°46.02
 LONG: 141°40.03

ROSETTE LOG

PAY DMS CAST

MISSION ID: 2004-10 STATION: P26/SOLAS CAST NUMBER: 40 UTC DATE (dd/mm/yyyy): 07/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		BIS		POC		
1	225	1337	2.547	200	✓		✓	✓	✓									
2	226	1386	2.681	175	✓		✓	✓	✓									
3	227	1461	3.620	100	✓		✓	✓	✓				✓	✓	✓			
4	228	1481	7.101	75	✓		✓	✓	✓				✓	✓	✓			(colourimeter went wonky) * ok ✓
5	229	1402	7.212	50	✓		✓	✓	✓				✓	✓	✓			
6	230	1335	6.957	40	✓		✓	✓	✓				✓					
7	231	1320	6.932	30	✓		✓	✓	✓				✓					
8	232	1225	---	30	✓													
9	233			30	✓													
10	234			30	✓													
11	235			30	✓													
12	236			30	✓													
13	237			30	✓													
14	238	1225	6.904	25	✓		✓	✓	✓				✓	✓	✓			
15	239	1368	6.910	20	✓		✓	✓	✓				✓					
16	240	1360	6.869	15	✓		✓	✓	✓				✓					
17	241	1471	6.886	10	✓		✓	✓	✓				✓	✓	✓			
18	242	1379	6.855	5	✓		✓	✓	✓				✓	✓	✓	✓		
19	243	1374	6.859	0	✓		✓	✓	✓				✓					
20																		
21																		
22																		
23																		
24																		

SHIP: JOHN P TULLY
 ENTERED BY: MR
 CHECKED BY: ST

Bottom Depth: 4000

Cast # down: 40
 Cast # up:

Time	LOC	UTC
Begin:		2308
Bottom:		2311
End:		2325

START POSITION (GPS)
 LAT: 50.00.61
 LONG: 144.58.65

BOTTOM POSITION (GPS)
 LAT: 50.00.68
 LONG: 144.58.68

END POSITION (GPS)
 LAT: 50.00.98
 LONG: 144.58.63

Comments: STW 1 mile from P26, 2 miles from SOLAS
 * - think I can edit this oxy file - didn't titrate properly, (said 0.552 ml went in, but no colour Δ)
 - re-zeroed colour - 2nd try looks better (ST)
 * going with 2nd value ignoring 1st since it didn't do anything
 bam 2001 rosette.xls

ROSETTE LOG

DEEP CAST

MISSION ID: 2004-10

STATION: P26

CAST NUMBER: 42

UTC DATE (dd/mm/yyyy):

07/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		5% CHL				
1	244	1231	3.268	Bot-10	✓ 4317	✓	✓	✓		✓		✓						
2	245	1228	3.151	4000	✓													
3	246	1235	2.963	3500	✓													
4	247	1233	2.535	3000	✓													
5	248	1237	1.945	2500	✓													
6	249	1256	1.253	2000	✓			✓		✓								
7	250	1241	0.510	1500	✓													
8	251	1247	0.381	1250	✓													
9	252	1238	0.320	1000	✓													
10	253	1327	0.464	800	✓													
11	254	1258	0.528	600	✓													
12	255	1260	0.935	400	✓													
13	256	1268	1.264	300	✓ 300													
14	257	1267	1.634	250	✓ 250													
15	258	1272	2.283	200	✓ 199													
16	259	1270	2.685	175	✓ 176													
17	260	1271	3.192	150	✓ 149													
18	261	1273	5.424	125	✓ 125													
19	262	1274	6.940	100	✓ 100													
20	263	1276	7.077	75	✓ 75													
21	264	1325	7.168	50	✓ 50													
22	265	1278	6.923	25	✓ 24													
23	266	1279	6.896	10	✓ 10													
24	267	1280	6.996	5	✓ 5													

Comments:

Yellow
Back

SHIP: Tully

ENTERED BY: MR

CHECKED BY: ST

Bottom Depth: 4325

Cast # down: 42

Cast # up:

Time LOC UTC

Begin: 0042

Bottom: 0141

End: 0312

START POSITION (GPS)

LAT: 50°00.55

LONG: 144°58.74

BOTTOM POSITION (GPS)

LAT: 50°00.54

LONG: 144°58.69

END POSITION (GPS)

LAT: 50°00.516

LONG: 144°58.652

ROSETTE LOG

NIGHT DMS CAST

MISSION ID: 2004-10 STATION: P26 CAST NUMBER: 45 UTC DATE (dd/mm/yyyy): 08/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3						
1	268			200	✓ 200			✓	✓									
2	269			175	✓ 175			✓	✓									
3	270			100	✓ 100			✓	✓			✓						
4	271			50	✓ 50			✓	✓			✓						
5	272			40	✓ 40			✓	✓			✓						
6	273			30	✓ 30			✓	✓			✓						
7	274			25	✓ 25			✓	✓			✓						
8	275			20	✓ 20			✓	✓			✓						
9	276			15	✓ 15			✓	✓			✓						
10	277			10	✓ 10			✓	✓			✓						
11	278			5	✓ 6			✓	✓			✓						
12	279			0	✓ 1			✓	✓			✓						
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully
 ENTERED BY: dy
 CHECKED BY:

Bottom Depth: 4226

Cast # down: 45
 Cast # up: 45

Time	LOC	UTC
Begin:	0259	0959
Bottom:	0302	1002
End:		

START POSITION (GPS)
 LAT: 50 0.25
 LONG: 145 0.70

BOTTOM POSITION (GPS)
 LAT: 50 0.25
 LONG: 145 0.71

END POSITION (GPS)
 LAT:
 LONG:

Comments:

ROSETTE LOG

MISSION ID: 2004-10

STATION: P26

CAST NUMBER: 46

UTC DATE (dd/mm/yyyy): 08/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		PDGK				
1	280			100	✓			✓						✓	✓	✓		
2	281			70	✓													
3	282			50	✓													
4	283			30	✓													
5	284			20	✓													
6	285			10	✓													
7	286			5														
8	287			2				✓						✓	✓	✓		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Tully

ENTERED BY: ST

CHECKED BY:

Bottom Depth: 4200

Cast # down: 46

Cast # up:

Time LOC UTC

Begin: 1101

Bottom: 1105

End: 1111

START POSITION (GPS)

LAT: 50°00.12

LONG: 145°00.66

BOTTOM POSITION (GPS)

LAT: 50°00.15

LONG: 145°00.65

END POSITION (GPS)

LAT: 50°00.18

LONG: 145°00.61

ROSETTE LOG

MISSION ID: 2004-10

STATION: P49

CAST NUMBER: 51

UTC DATE (dd/mm/yyyy):

11/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CO2		BIS		
1	288	1399	1.688	2000	✓ 2002	✓	✓	✓										* all look ok
2	289	1432	0.718	1500	✓													(note to self:
3	290	1433	0.481	1250	✓													weird endpts - putting
4	291	1434	0.442	1000	✓													2 ml H2SO4 due
5	292	1391	0.421	1000	✓													to clumpy O's.
6	293	657	0.359	800	✓													- re-zeroed col. -
7	294	1393	0.495	600	✓			✓										check endpts.))
8	295	1400	0.935	400	✓													all.
9	296	1397	1.433	300	✓													
10	297	1398	1.779	250	✓													
11	298	1389	2.211	200	✓													
12	299	708	2.554	175	✓													
13	300	1176	2.922	150	✓													
14	301	1135	3.651	125	✓													
15	302	1137	6.306	100	✓								✓		✓	✓		
16	303	1136	7.059	75	✓ 73								✓		✓	✓		
17	304	1352	7.028	50	✓								✓		✓	✓		
18	305	364	6.924	30	✓								✓					
19	306			25	✓								✓		✓	✓		Did not close
20	307	1130	6.953	20	✓								✓					
21	308	572	6.913	15	✓								✓					
22	309	535	6.902	10	✓								✓		✓	✓		
23	310	1334	6.900	5	✓								✓	✓	✓	✓		
24	311	1336	6.887	0									✓					

SHIP: JOHN P TULLY

ENTERED BY: MK

CHECKED BY:

Bottom Depth: 3614

Cast # down: 51

Cast # up:

Time LOC UTC

Begin: 0717

Bottom: 0745

End: 0829

START POSITION (GPS)

LAT: 50°54.15

LONG: 144°17.27

BOTTOM POSITION (GPS)

LAT: 50°54.17

LONG: 144°17.27

END POSITION (GPS)

LAT: 50°54.19

LONG: 144°17.17

Comments:

RED
BLACK

ROSETTE LOG

MISSION ID: 2004-10

STATION: R17

CAST NUMBER: 52

UTC DATE (dd/mm/yyyy): 12/6/04

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		Bis		CO2		
1	312	1435	0.250	1000	✓ 998	✓	✓	✓										- not very good endpt. Oxy
2	313	1313	1.109	800	✓ 800	✓	✓	✓										* cleaned - bad endpt
3	314	1458	0.2773	600	✓ 601	✓	✓	✓										* colourimeter) ✓
4	315	1328	1.048	400	✓ 400	✓	✓	✓										- bubble on lens ✓
5	316	1460	1.538	300	✓ 300	✓	✓	✓										
6	317	1438	1.811	250	✓ 250	✓	✓	✓										
7	318	1439	2.525	200	✓ 200	✓	✓	✓										
8	319	1440	3.105	175	✓ 175	✓	✓	✓										
9	320	1441	4.039	150	✓ 150	✓	✓	✓										
10	321	1442	4.656	125	✓ 124	✓	✓	✓						✓	✓	✓		
11	322	✓ 1443	5.354	100	✓ 100	✓	✓	✓						✓	✓	✓		
12	323	✓ 1444	6.978	75	✓ 75	✓	✓	✓						✓	✓	✓		
13	324	✓ 1445	7.273	50	✓ 50	✓	✓	✓						✓	✓	✓		(bit high) ✓
14	325	—		30	✓	✓	✓	✓										
15	326	—		30	✓	✓	✓	✓										
16	327	—		30	✓	✓	✓	✓										
17	328	—		30	✓	✓	✓	✓										
18	329	—		30	✓	✓	✓	✓										
19	330	—		30	✓	✓	✓	✓										Did not trip
20	331	✓ 1452	6.837	25	✓ 25	✓	✓	✓						✓	✓	✓		
21	332	✓ 1453	6.850	15	✓ 15	✓	✓	✓						✓	✓	✓		
22	333	✓ 1454	6.805	10	✓ 10	✓	✓	✓						✓	✓	✓		
23	334	✓ 1455	6.844	5	✓ 5	✓	✓	✓						✓	✓	✓	✓	
24	335	✓ 1457	6.842	0	✓ 1	✓	✓	✓						✓	✓	✓		

Comments: Sample 314 oxy value =

YELLOW
RACIL

* Went through the oxy values + they look ok - I can't explain the high value for sample #313 (ST)

SHIP: Tully

ENTERED BY: [Signature]

CHECKED BY: [Signature]

Bottom Depth: 3053

Cast # down: 52

Cast # up: 52

Time	LOC	UTC
Begin:	1359	2059
Bottom:	1413	2113
End:		2154

START POSITION (GPS)

LAT: 51 2.03

LONG: 140 55.99

BOTTOM POSITION (GPS)

LAT: 51 2.02

LONG: 140 55.96

END POSITION (GPS)

LAT: 51 02.00

LONG: 140 55.93

ROSETTE LOG

MISSION ID: 2004-10 STATION: R12 CAST NUMBER: 53 UTC DATE (dd/mm/yyyy): 12/6/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		POC		ALK	CHL	
1	336	1224	1.386	2000	✓													
2	337	1223	0.619	1500	✓	1499												
3	338	1216	0.379	1250	✓	1248												
4	339	1349	0.351	1000	✓													
5	340	727	0.332	800	✓													
6	341	1366	0.497	600	✓													
7	342	1385	1.221	400	✓													
8	343	1188	1.675	300	✓													
9	344	1383	2.182	250	✓													
10	345	1382	3.097	200	✓													
11	346	1381	3.470	175	✓													
12	347	1380	3.928	150	✓													
13	348	1321	4.247	125	✓	126												
14	349	1365	5.391	100	✓									✓	✓	✓		
15	350	1394	6.422	75	✓									✓	✓	✓		*lot of chemical on Plastic lip
16	351	1376	6.704	50	✓									✓				* same?
17	352	1373	6.718	30	✓									✓				
18	353	1374	6.651	25	✓									✓	✓	✓		"
19	354	1375	6.646	25	✓									✓				
20	355	1471	6.703	20	✓									✓				
21	356	1360	6.629	15	✓									✓				
22	357	1368	6.727	10	✓									✓	✓	✓		
23	358	1225	6.691	5	✓									✓	✓	✓	✓	
24	359	1320	6.675	0										✓				

Comments:

GREEN RACK

SHIP: JOHN P TULLY

ENTERED BY: MR

CHECKED BY: ST

Bottom Depth: 3649

Cast # down: 53

Cast # up:

Time LOC UTC

Begin: 1052

Bottom: 1120

End: 1202

START POSITION (GPS)

LAT: 51°13.00

LONG: 137°23.04

BOTTOM POSITION (GPS)

LAT: 51°13.05

LONG: 137°22.94

END POSITION (GPS)

LAT: 51°13.07

LONG: 137°22.94

ROSETTE LOG

MISSION ID: 2004-10 STATION: 2227W CAST NUMBER: 83 UTC DATE (dd/mm/yyyy): 14/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	360			2000	✓	✓				✓								
2	361			2000	✓					✓								
3	362			2000	✓					✓								
4	363			2000	✓					✓								
5	364			2000	✓					✓								
6	365			2000	✓													
7	366			2000	✓													
8	367			2000	✓													
9	368			2000	✓													
10	369			2000	✓													
11	370			2000	✓													
12	371			2000	✓													
13	372			2000	✓													
14	373			2000	✓													
15	374			2000	✓													
16	375			2000	✓													
17	376			2000	✓													
18	377			2000	✓													
19	378			2000	✓													
20	379			2000	✓													
21	380			2000	✓													
22	381			2000	✓													
23	382			2000	✓													
24	383			2000	✓													

Comments: Bottles were all closed at 2000m ± 2m

SHIP: John P. Wiley
 ENTERED BY: mk
 CHECKED BY: ST

Bottom Depth: 2777

Cast # down: 83
 Cast # up:

Time	LOC	UTC
Begin:		0121
Bottom:		0150
End:		0217

START POSITION (GPS)
 LAT: 53°10.06
 LONG: 134°44.97

BOTTOM POSITION (GPS)
 LAT: 53°09.89
 LONG: 134°44.61

END POSITION (GPS)
 LAT: 53°09.64
 LONG: 134°43.83

ROSETTE LOG

MISSION ID: 2004-10 STATION: ED 17 W CAST NUMBER: 86 UTC DATE (dd/mm/yyyy): 14/6/04

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	386	1435	1.793	2000 P	✓ 2001	✓		✓								(- odd - yellow line - dx complete)
2	387	1313	0.933	27.6 G	✓ 1825	✓		✓								27.600
3	388	1458	0.308	27.4 G	✓ 1195	✓		✓								27.400
4	389	1328	0.336	27.2 G	✓ 848	✓		✓								27.200
5	390	1460	0.822	27.0 G	✓ 614	✓		✓								26.998
6	391	1438	1.689	26.8 G	✓ 426	✓		✓								26.799
7	392	1439	2.387	26.6 G	✓ 304	✓		✓								26.601
8	393	1440	2.927	26.4 G	✓ 226	✓		✓								26.401
9	394	1441	3.464	26.2 G	✓ 196	✓		✓								26.202
10	395	1442	3.801	26.0 G	✓ 173	✓		✓				✗				25.975
11	396	1443	3.987	25.9 G	✓ 166	✓		✓				✗				25.886
12	397	1444	4.292	25.8 G	✓ 158	✓		✓				✗				25.740
13	398	1445	4.775	25.6 G	✓ 146	✓		✓				✓				25.601
14	399	1446	5.596	25.4 G	✓ 128	✓		✓				✓				25.385
15	400	1447	6.196	25.2 G	✓ 106	✓		✓				✓				25.204
16	401	1448	6.635	25.0 G	✓ 68	✓		✓				✓				25.002
17	402	1449	6.712	50 P	✓ 50	✓		✓				✓				24.902
18	403	1450	6.764	25 P	✓ 25	✓		✓				✓				24.550
19	404	1451	6.641	10 P	✓ 10	✓		✓				✓				24.500
20	405	1452	6.633	5 P	✓ 5	✓		✓				✓				24.500
21	406	1453	6.647	0 P	✓ 1	✓		✓				✓				24.500
22																
23																
24																

SHIP: Tully
 ENTERED BY: dy
 CHECKED BY:

Bottom Depth: 3090

Cast # down: 86
 Cast # up:

Time	LOC	UTC
Begin:	<u>0230</u>	<u>0930</u>
Bottom:	<u>0304</u>	<u>1004</u>
End:		<u>1102</u>

START POSITION (GPS)
 LAT: 52 20.00
 LONG: 134 44.88

BOTTOM POSITION (GPS)
 LAT: 52 20.03
 LONG: 134 45.01

END POSITION (GPS)
 LAT: 52 20.02
 LONG: 134 45.02

Comments:

ROSETTE LOG

MISSION ID:

2004-10

STATION:

ED14W

CAST NUMBER:

899

UTC DATE (dd/mm/yyyy):

14/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	407	1231	1.184	2060 db	✓ 2001	X	X											
2	408	1228	0.524	1500 db	✓													(estim) actual db
3	409	1327	0.301	27.40+	✓ 27.401													(1200) 1210
4	410	1233	0.344	27.20	✓ 27.197				✓									(875) 875 - bad curve
5	411	1237	0.792	27.0	✓ 27.002													(677) 675
6	412	1256	1.579	26.8	✓ 26.798													(508) 500
7	413	1284	2.032	26.6	✓ 26.598													(363) 363.59
8	414	1267	2.377	26.4	✓ 26.389													267.45
9	415	1235	2.909	26.2	- 26.201													(250) 231
10	416	1270	3.423	26.0	- 25.995													180 203
11	417	1258	3.940	25.8	- 25.8													170 187
12	418	1273	4.560	25.6	- 25.6													(150) 164
13	419	1241	5.304	25.4	- 25.4													(130) 141
14	420	1247	6.120	25.2	25.217													(110) 110
15	421	1276	6.623	25.0	25.006													70 1100
16	422	1278	6.648	50	✓													X4
17	423	1274	6.876	30	✓													X4
18	424	1325	6.737	25	✓													X4
19	425	1268	6.671	20	✓													X4
20	426	1281	6.657	15	✓													X4
21	427	1324	6.640	10	✓													X4
22	428	1326	6.657	5	✓													X4
23	429	1280	6.641	0	✓													X
24	430	1238	6.653	0														✓ N2

SHIP:

Tully

ENTERED BY:

ST

CHECKED BY:

Bottom Depth:

3313

Cast # down:

89

Cast # up:

Time

LOC

UTC

Begin:

1351

Bottom:

1415

End:

1536

START POSITION (GPS)

LAT: 52°05.03

LONG: 134°44.96

BOTTOM POSITION (GPS)

LAT: 52°04.87

LONG: 134°44.99

END POSITION (GPS)

LAT: 52°05.06

LONG: 134°45.00

Comments:

24 bottles were closed.

ROSETTE LOG

MISSION ID: 2004-10 STATION: ED11W CAST NUMBER: 90 UTC DATE (dd/mm/yyyy): 14/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		colu				
1	431	1224	0.190+	2000	✓	✓	✓	✓										0.195+0.048 - color error
2	432	1223	0.501	1500	✓													
3	433	1216	0.306	27.4	- 27.4													
4	434	1349	0.373	27.2	- /													
5	435	727	0.800	27.0	✓ 27.001													
6	436	1366	1.653	26.8	✓ 26.799													475m
7	437	1385	2.134	26.6	✓ 26.599			✓										339m
8	438	1188	2.481	26.4	✓ 26.4													267.12m
9	439	1383	2.973	26.2	✓ 26.181													216.30
10	440	1382	3.524	26.0	✓ 25.992													
11	441	1381	4.196	25.8	✓ 25.758													
12	442	1380	4.596	25.6	✓ 25.613													158m
13	443	1321	5.510	25.4	✓ 25.388													137m
14	444	1365	6.185	25.2	✓ 25.208								✓					111m
15	445	1394	6.637	25.0	✓ 25.007								✓					60
16	446	1376	6.704	50	✓ 50m								✓					24.800 G
17	447	1373	6.676	25	✓ 25m								✓					25.540 G
18	448	1374	6.669	10	✓ 10								✓					25.904
19	449	1379	6.610	5	✓ 5								✓	✓				25.496
20																		
21																		
22																		
23																		
24																		

Comments:

* sample 431 - color error # needs adjusting
Sample 431 - .199 + 0.038 = 0.237 ml Sal This = 1.296 ml/l O₂

SHIP: JOHN PULLER
ENTERED BY: M.R.
CHECKED BY:

Bottom Depth: 3272

Cast # down: 90
Cast # up:

Time	LOC	UTC
Begin:	1024	1724
Bottom:	170555	
End:		1904

START POSITION (GPS)
LAT: 51 50 054
LONG: 134 45 073

BOTTOM POSITION (GPS)
LAT: 51 50 382
LONG: 134 45 299

END POSITION (GPS)
LAT: 51 51 286
LONG: 134 45 685

ROSETTE LOG

MISSION ID: 2004-10 STATION: ED 8 W CAST NUMBER: 93 UTC DATE (dd/mm/yyyy): 08/14/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3		COLLO				
							OXY			ALK		CHL						
1	450	1399	1.290	2000	✓													
2	451	1432	0.529	1500		1498												
3	452	1433	0.317	27.4	✓	1150												
4	453	1136	0.363	27.2	✓	811												
5	454	1391	0.834	27.0	✓	569												
6	455	708	1.818	26.8	✓	365												
7	456	1393	2.805	26.6	✓	265												
8	457	1400	3.650	26.4	✓	211												
9	458	1137	4.007	26.2	✓	186												
10	459	1434	4.222	26.0	✓	169												
11	460	1389	4.715	25.8	✓	1586												
12	461	657	5.188	25.6	✓	134												
13	462	1176	5.804	25.4	✓	120												
14	463	1135	6.264	25.2	✓	91							✓					
15	464	1397	6.600	25.0	✓	~60							✓					
16	465	535	6.747	50	✓								✓					
17	466	364	6.646	25	✓								✓					
18	467	1352	6.653	10	✓								✓					
19	468	1353	6.652	5	✓								✓	✓				
20																		
21																		
22																		
23																		
24																		

SHIP: Tully
ENTERED BY: MR
CHECKED BY: ST

Bottom Depth: 3366

Cast # down: 93
Cast # up:

Time	LOC	UTC
Begin:		2310
Bottom:		2338
End:		0044

START POSITION (GPS)
LAT: 51°35.06
LONG: 134°45.52

BOTTOM POSITION (GPS)
LAT: 51°35.04
LONG: 134°45.52

END POSITION (GPS)
LAT: 51°35.19
LONG: 134°46.09

Comments:

ROSETTE LOG

MISSION ID: 2004-10 STATION: ED5W CAST NUMBER: 94 UTC DATE (dd/mm/yyyy): 15/6/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												APPROX. DEPTHS
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		ALK		CHL		
1	469	1435	1.325	2000	✓													
2	470	1313	0.638	1500	✓													
3	471	1458	0.344	27.4	✓													1077
4	472	1328	0.324	27.2	✓													720
5	473			27.0	✓													479
6	474	1438	1.689	26.8	✓													307
7	475	1439	3.087	26.6	✓													215
8	476	1440	4.457	26.4	✓													160
9	477	1441	4.802	26.2	✓													135
10	478	1442	4.968	26.0	✓													125
11	479	1443	5.367	25.8	✓													113
12	480	1444	5.758	25.6	✓													105
13	481	1445	6.313	25.4	✓													80
14	482	1446	6.660	25.2	✓													55
15	483	1447	6.538	25.0	✓													(48m)50
16	484	1448	6.557	30	✓													
17	485	1449	6.620	25	✓													
18	486	1450	6.678	10	✓													
19	487	1451	6.678	5	✓													
20																		
21																		
22																		
23																		
24																		

Comments: Changed Niskin #16 to 30m not 50m
Bottle 5 did not trip - was not hung up on anything tho. either

SHIP: JOHN P TULLY
ENTERED BY: M.R.
CHECKED BY:

Bottom Depth: 3395

Cast # down: 94
Cast # up:

Time	LOC	UTC
Begin:	737m	0237
Bottom:	804m	0304
End:	907	0407

START POSITION (GPS)
LAT: 51 20.08
LONG: 134 44.89

BOTTOM POSITION (GPS)
LAT: 51 20 014
LONG: 134 44.004

END POSITION (GPS)
LAT: 51 20 346
LONG: 134 44 568

ROSETTE LOG

MISSION ID: 2004-10 STATION: 551 CAST NUMBER: 97 UTC DATE (dd/mm/yyyy): 15 06 2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CO2				
1	489	1224	0.646	Bot. 5	✓ 1499	✓	✓	✓										
2	490	1223	0.400	1250	✓													
3	491	1216	0.306	1000	✓													
4	492	1349	0.301	1000	✓													
5	493	727	0.368	800	✓													
6	494	1366	0.606	600	✓													
7	495	1385	1.403	400	✓			✓										
8	496	1188	2.111	300	✓													
9	497	1383	2.559	250	✓													
10	498	1382	3.345	200	✓													
11	499	1381	3.795	175	✓													
12	500	1380	4.945	150	✓													
13	501	1321	5.787	125	✓													
14	502	1365	5.812	100	✓								✓					
15	503	1394	6.003	75	✓													
16	504	1376	6.249	50	✓													
17	505	1373	6.354	40	✓													
18	506	1374	6.400	30	✓													
19	507	1379	6.447	20	✓													
20	508	1225	6.837	10	✓													
21	509	1360	6.912	5	✓									✓				
22	510	1368	6.986	0	✓	✓	✓	✓					✓					
23																		
24																		

Comments:

SHIP: JOHN P. TULLY
ENTERED BY: M.R.
CHECKED BY:

Bottom Depth: 2499

Cast # down: 97
Cast # up: 97

Time	LOC	UTC
Begin:	1016	1716
Bottom:	1039	1739
End:	1120	1820

START POSITION (GPS)
LAT: 51 29 969
LONG: 131 39 999

BOTTOM POSITION (GPS)
LAT: 51 30 019
LONG: 131 39 976

END POSITION (GPS)
LAT: 51 30 036
LONG: 131 40 050

510000 129 4200

ROSETTE LOG

MISSION ID: 2004-10

STATION: SS3

CAST NUMBER: 99

UTC DATE (dd/mm/yyyy):

16/6/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CH		TOC		DO			
							OXY		PH		ALK.	CO ₂	CHL		PH		B-Si		
1	512	1224	1.803	B-2	✓ 293	✓	✓	✓	✓					✓	✓	✓	✓		
2	513	1216	1.874	B-5	✓ 290				✓									air bubble (oxy)	
3	514	1223	1.831	B-10	✓ 286				✓										
4	515	1366	1.840	B-20	✓ 275				✓										
5	516	1349	1.843	250	✓ 250														
6	517	727	1.929	225	✓ 225														
7	518	1383	2.200	200	✓ 200														
8	519	1385	2.470	175	✓ 175														
9	520	1188	3.387	150	✓ 150														
10	521	1381	3.777	125	✓ 125														
11	522	1340	3.880	100	✓ 100				✓				✓						
12	523	1382	4.795	75	✓ 75				✓				✓						
13	524	1394	5.674	50	✓ 50				✓				✓						
14	525	1365	6.671	30	✓ 30				✓				✓						
15	526	1321	7.373	20	✓ 20				✓				✓					big air bubble (oxy)	
16	527	1376	7.146	10	✓ 10				✓				✓						
17	528	1374	7.112	5	✓ 5	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		
18																			
19																			
20																			
21																			
22																			
23																			
24																			

SHIP: JOHN P TULLY

ENTERED BY: MR

CHECKED BY:

Bottom Depth: 297

Cast # down: 99

Cast # up:

Time LOC UTC

Begin: 0018 0718

Bottom: 0028 0728

End: 0049 0749

START POSITION (GPS)

LAT: 51 14.65

LONG: 129 20.88

BOTTOM POSITION (GPS)

LAT: 51 14.64

LONG: 129 20.56

END POSITION (GPS)

LAT: 51 14.61

LONG: 129 20.18

Comments:

ROSETTE LOG

MISSION ID: 2004-10 STATION: SSS CAST NUMBER: 101 UTC DATE (dd/mm/yyyy): 16/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO ²		CH		TK		DO ²		
							OXY		NH ₄	ALK.	CO ₂	CHL		PO ₄ P		Si		
1	530	1435	1.878	B-2	✓ 200	✓	✓	✓	✓	✓				✓	✓	✓	✓	
2	531	1313	1.764	B-5	✓ 197					✓								
3	532	1458	1.828	B-10	✓ 192					✓								
4	533	1328	1.796	B-20	✓ 182					✓								
5	534	1460	1.807	175	✓													
6	535	1438	2.682	150	✓											✓		
7	536	1439	3.206	125	✓													
8	537	1446	4.346	100	✓				✓			✓						
9	538	1441	5.152	75	✓				✓			✓						
10	539	1442	5.710	50	✓				✓			✓	✓					
11	540	1443	6.552	30	✓				✓			✓						
12	541	14445	6.748	20	✓				✓			✓						
13	542	14484	7.225	10	✓				✓			✓						
14	543	1446	7.118	5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: JOHN P TULLY
ENTERED BY: MR
CHECKED BY:

Bottom Depth: 203

Cast # down: 101
Cast # up:

Time	LOC	UTC
Begin:		1133
Bottom:		1136
End:		1151

START POSITION (GPS)
LAT: 51° 27.97
LONG: 128° 30 00

BOTTOM POSITION (GPS)
LAT: 51° 27.98
LONG: 128° 30.03

END POSITION (GPS)
LAT: 51° 27.96
LONG: 128° 29.98

ROSETTE LOG

Blue Rock

MISSION ID: 2004-10 STATION: SS 7 CAST NUMBER: 103 UTC DATE (dd/mm/yyyy): 16 06 2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO ₂		et ₃		TOC		DON		
							OXY		nit		ALK	CO ₂	CHL		2012		8-5	
1	545	1399	3.643	B-2	122	✓	✓	✓	✓					✓	✓	✓	✓	
2	546	1432	3.584	B-5	120				✓									
3	547	1433	3.357	B-10	115				✓							✓		
4	548	1136	3.312	B-20	102				✓									
5	549	1391	3.323	100	100				✓				✓	✓				
6	550	708	3.814	75	75				✓				✓					
7	551	1093	4.121	50	50				✓				✓					
8	552	1400	4.406	30	30				✓				✓					
9	553	1137	4.761	20	20				✓				✓					lid not on oxy flask (discard)
10	554	1434	6.318	10	10				✓				✓					
11	555	1389	8.642	5	5				✓		✓		✓	✓	✓	✓	✓	
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: JOHN P TULLY
ENTERED BY: MR
CHECKED BY:

Bottom Depth: 123

Cast # down: 103
Cast # up:

Time	LOC	UTC
Begin:	0815	1515
Bottom:	0819	1519
End:	0834	1534

START POSITION (GPS)
LAT: 51 24 809
LONG: 127 47 533

BOTTOM POSITION (GPS)
LAT: 51 24 806
LONG: 127 47 544

END POSITION (GPS)
LAT: 51 24 793
LONG: 127 47 520

Comments:

ROSETTE LOG

MISSION ID: 2004-10

STATION: R1

CAST NUMBER: 109

UTC DATE (dd/mm/yyyy):

16/06/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CHL		DO		DO		
1	560	1231	2.445	B-2	✓ 338	✓	✓	✓	✓					✓	✓	✓	✓	
2	561	1228	2.361	B-5	✓ 336	✓	✓	✓	✓					✓	✓	✓	✓	(bubbles in tubing)
3	562	1327	2.342	B-10	✓ 329													
4	563	1233	2.598	B-20	✓ 315													
5	564	1237	2.867	300	✓ 300													
6	565	1256	2.910	275	✓ 275													
7	566	1284	3.031	250	✓ 249													
8	567	1267	3.098	225	✓ 225													
9	568	1235	3.109	200	✓ 200													
10	569	1270	3.050	175	✓ 174													
11	570	1258	3.077	150	✓ 151													
12	571	1273	3.080	125	✓ 125													
13	572	1241	3.316	100	✓ 100													
14	573	1247	3.809	75	✓ 75													
15	574	1276	4.359	50	✓ 50													
16	575	1278	4.641	30	✓ 30													
17	576	1274	4.767	20	✓													
18	577	1325	5.027	15	✓													N
19	578	1269	5.119	10	✓													
20	579	1281	5.116	10	✓													
21	580	1324	6.394	5	✓													
22	581	1326	7.538	0	✓													
23																		
24																		

Comments:

SHIP: JOHN P. TULLY

ENTERED BY: MR

CHECKED BY:

Bottom Depth: 336

Cast # down: 109

Cast # up:

Time LOC UTC

Begin: 2225

Bottom: 2231

End: 2252

START POSITION (GPS)

LAT: 51 26.38

LONG: 127 38.09

BOTTOM POSITION (GPS)

LAT: 51 26.35

LONG: 127 38.16

END POSITION (GPS)

LAT: 51 26.39

LONG: 127 38.46