

ROSETTE LOG

MISSION ID: 2006-14 STATION: SIO3 CAST NUMBER: 1 UTC DATE (dd/mm/yyyy): 13/09/2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY		ML4	ALK		CHL						
1	1	1223	0.536	Bot-10	- 217	/	✓	/	✓✓									
2	2	1216	0.527	200	- 200	/												
3	3	1225	0.625	175	- 175	/												
4	4	1228	0.593	150	- 150	/												
5	5	1231	0.420	125	- 125	/												
6	6	1235	0.198	100	- 100	/												
7	7	1237	0.435	75	- 75	/												
8	8	1238	2.961	50	- 50	/												
9	9	1241	2.976	25	- 25	/												
10	10	1337	3.119	10	- 10	/												
11	11	1247	3.432	5	- 5	↓	↓	↓	↓			✓						
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Jaws P TULLY
ENTERED BY: MK
CHECKED BY:

Bottom Depth: 223

Cast # down: 1
Cast # up: 1

Time	LOC	UTC
Begin:		0333
Bottom:		0338
End:		0351

START POSITION (GPS)
LAT: 48 35 24
LONG: 123 30 05

BOTTOM POSITION (GPS)
LAT: 48 35 54
LONG: 123 30 07

END POSITION (GPS)
LAT: 48 35 54
LONG: 123 30 10

ROSETTE LOG

MISSION ID: 2006-14 STATION: LGO1 CAST NUMBER: 2 UTC DATE (dd/mm/yyyy): 14/9/2006

				ROSETTE OPERATION			Samples taken													
Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	Sample Depth	Confirmed	pressure	SAL		NUT		TCO		C13							
								OXY		M44		ALK		CHL						
1	12	1223	2.277	Bot-10	✓	45	✓	✓	✓											
2	13	1216	2.761	30	✓		✓	✓												
3	14			20	✓									✓						
4	15			10	✓									✓						
5	16			5	✓									✓						
6	17	1225	4.818	0	✓		✓	✓	✓											
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

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

Bottom Depth: 51

Cast # down: 2
Cast # up:

Time	LOC	UTC
Begin:		0445
Bottom:		0445
End:		0455

START POSITION (GPS)
LAT: 49.20.46
LONG: 126.35.00

BOTTOM POSITION (GPS)
LAT: 49.20.47
LONG: 126.35.01

END POSITION (GPS)
LAT: 49.20.45
LONG: 126.34.89

Comments: NUTRIENTS: BLUE RACK

ROSETTE LOG

MISSION ID: 2006-14 STATION: L602 CAST NUMBER: 3 UTC DATE (dd/mm/yyyy): 14/09/2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	ICO	ALK	C13	CHL						
1	18	1228	1.103	Bot-10	✓ 89	✓	✓	✓										
2	19	1231	1.118	75	✓	✓	✓	✓										
3	20			50	✓													
4	21			30	✓													
5	22			20	✓			✓	✓			✓						
6	23			10	✓				✓			✓						
7	24			5	✓				✓			✓						
8	25	1235	5.272	0		✓	✓	✓										
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: NUTRIENTS: WHITE RACK

SHIP: John P Tully
ENTERED BY: MR
CHECKED BY:

Bottom Depth: 95

Cast # down: 3
Cast # up:

Time	LOC	UTC
Begin:		0537
Bottom:		0541
End:		0550

START POSITION (GPS)
LAT: 49° 18' 65"
LONG: 126° 38' 00"

BOTTOM POSITION (GPS)
LAT: 49° 18' 65"
LONG: 126° 38' 00"

END POSITION (GPS)
LAT: 49° 18' 67"
LONG: 126° 38' 05"

ROSETTE LOG

MISSION ID: 2006-141 STATION: LG04 CAST NUMBER: 5 UTC DATE (dd/mm/yyyy): 14/09/2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
							OXY		NH4	ALK	CHL							
1	26	1237	1.554	Bot-10	134	-	✓											
2	27	1238	8.260	125	- 125	-												
3	28			100	- 100													
4	29			75	- 75													
5	30			50	- 50		✓											
6	31			30	- 30													
7	32			20	- 20			✓	✓			✓						
8	33			10	- 10				✓			✓						
9	34			5	- 5				✓			✓						
10	35	1241	6.057	0	0	✓	✓	✓										
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully
ENTERED BY: DA
CHECKED BY: MC/DP

Bottom Depth: 138

Cast # down: 5
Cast # up: 5

Time	LOC	UTC
Begin:		0821
Bottom:		0825
End:		0836

START POSITION (GPS)
LAT: 49 11 27
LONG: 126 49 35

BOTTOM POSITION (GPS)
LAT: 49 11 28
LONG: 126 49 35

END POSITION (GPS)
LAT: 49 11 30
LONG: 126 49 39

Comments:

ROSETTE LOG

MISSION ID: 2006-14 STATION: 1606 CAST NUMBER: 8 UTC DATE (dd/mm/yyyy): 14/09/2006

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				
1	36	1337	0.312	801-10	✓ 945	✓	✓									
2	37			800	✓ 803	X										
3	38			600	✓ 602											
4	39			500	✓ 501											
5	40			400	✓ 400											
6	41			300	✓ 299											
7	42			250	✓ 251											
8	43	1247	1.453	200	✓ 200			✓	✓							
9	44			175	✓ 174											
10	45			150	✓ 150											
11	46			125	✓ 125											
12	47			100	✓ 99											
13	48			75	✓ 75											
14	49			50	✓ 50											
15	50			30	✓ 29											
16	51			20	✓ 19				✓			X				
17	52			10	✓ 10				✓			X				
18	53			5	✓ 6				✓			X				
19	54	1258	6.032	0	✓ 1	X	✓	✓								
20																
21																
22																
23																
24																

SHIP: TULLY
ENTERED BY: DA
CHECKED BY: DF/MG

Bottom Depth: 963

Cast # down: 8
Cast # up: 8

Time	LOC	UTC
Begin:		1042
Bottom:		1102
End:		1131

START POSITION (GPS)
LAT: 49 03 47
LONG: 127 01 20

BOTTOM POSITION (GPS)
LAT: 49 03 51
LONG: 127 01 18

END POSITION (GPS)
LAT: 49 3.539
LONG: 127 1.231

Comments: NUTS - YELLOW RACK
X = over enthusiastic bottle resettlers!

ROSETTE LOG

MISSION ID: 2006-14 STATION: L609 CAST NUMBER: 12 UTC DATE (dd/mm/yyyy): 14 Sept 2006

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	54	1260		2000	✓ 1.452	✓	✓											
2	56			1500	✓	✓												
3	57			1200	✓													
4	58			1000	✓													
5	59			800	✓													
6	60			600	✓													
7	61			500	✓													
8	62			400	✓													
9	63			300	✓													
10	64			250	✓													
11	65	1270		200	✓ 3.576			✓	✓									
12	66			175	✓													
13	67			150	✓													
14	68			125	✓													
15	69			100	✓													
16	70			75	✓													
17	71			50	✓													
18	72			30	✓													
19	73			20	✓					2			✓					
20	74			10	✓					2			✓					
21	75			5	✓					2			✓					
22	76	1279		0	✓ 5.894	✓	✓											
23																		
24																		

Comments: NUTS : ORANGE RACK

SHIP: Tully
ENTERED BY: SA
CHECKED BY: MK

Bottom Depth: 2053

Cast # down: 12
Cast # up:

Time	LOC	UTC
Begin:		1648
Bottom:		1718
End:		1807

START POSITION (GPS)
LAT: 48° 51.21
LONG: 127° 19.36

BOTTOM POSITION (GPS)
LAT: 48° 51.10
LONG: 127° 19.41

END POSITION (GPS)
LAT: 48° 51.21
LONG: 127° 19.42

ROSETTE LOG

MISSION ID: 2006-14

STATION: LD11

CAST NUMBER: 15

UTC DATE (dd/mm/yyyy):

15 Sept 2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13							
							OXY		NH3	ALK		CHL							
1	77	1223	1.096	607-10	✓ 1593	X	X												
2	78			1500	✓ 1500	X													
3	79			1200	✓ 1200														
4	80			1000	✓ 1000														
5	81			800	✓ 804														
6	82	1216	0.472	600	✓ 600		X												
7	83			500	✓ 500														
8	84			400	✓ 401														
9	85			300	✓ 300														
10	86			250	✓ 249														
11	87			200	✓ 200														
12	88			175	✓ 175														
13	89			150	✓ 150														
14	90			125	✓ 125														
15	91			100	✓ 99														
16	92			75	✓ 75														
17	93			50	✓ 50														
18	94			30	✓ 30														
19	95			20	✓ 20				2			X							
20	96			10	✓ 10				2			X							
21	97			5	✓ 4				2			X							
22	98	1225	1.282	0	✓ 0	X	X												
23																			
24																			

Comments: Nuts - Brown Patch

SHIP: Tally

ENTERED BY: SR

CHECKED BY:

Bottom Depth: 1590

Cast # down: 15

Cast # up: 15

Time LOC UTC

Begin: 0101

Bottom: 0132

End: 0211

START POSITION (GPS)

LAT: 48 28.701

LONG: 126 42.892

BOTTOM POSITION (GPS)

LAT: 48 28.765

LONG: 126 42.954

END POSITION (GPS)

LAT: 48 28.795

LONG: 126 42.548

ROSETTE LOG

MISSION ID: 2006-14 STATION: L29 CAST NUMBER: 17 UTC DATE (dd/mm/yyyy): 15/9/2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3						
						OXY		NH4		ALK		CHL						
1	99	1228	0.302	Bot-10	✓ 1080	✓	✓	✓										
2	100			800	✓	✓												
3	101			600	✓ 596.3													
4	102			500	✓													
5	103	1231	0.996	400	✓		✓											
6	104			300	✓													
7	105			250	✓													
8	106			200	✓													
9	107			175	✓													
10	108			150	✓													
11	109			125	✓													
12	110			100	✓			✓										
13	111			75	✓													
14	112			50	✓													
15	113			30	✓													
16	114			20	✓				✓✓			✓						
17	115			10	✓				✓✓			✓						
18	116			5	✓				✓✓			✓						
19	117	1235	6.266	0		✓	✓	✓										
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: ~1060

Cast # down: 17
Cast # up:

Time	LOC	UTC
Begin:		0439
Bottom:		0501
End:		0536

START POSITION (GPS)
LAT: 48° 35' 64"
LONG: 126° 29' 92"

BOTTOM POSITION (GPS)
LAT: 48° 35' 62"
LONG: 126° 29' 59"

END POSITION (GPS)
LAT: 48° 35' 64"
LONG: 126° 28' 89"

Comments: NUTRIENTS LIGHT BLUE BACK

ROSETTE LOG

MISSION ID: 2006-14 STATION: LD8 CAST NUMBER: 19 UTC DATE (dd/mm/yyyy):

15
24/9/2006

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	118	1237	0.335	Bot-10	✓ 770	✓	✓	✓								
2	119			600	✓ 600	✓										
3	120	1238	0.730	500	✓ 500		✓									
4	121			400	✓ 400											
5	122			300	✓ 302											
6	123			250	✓ 252											
7	124			200	✓ 202											
8	125			175	✓ 175											
9	126			150	✓ 149											
10	127			125	✓ 125											
11	128			100	✓ 101											
12	129			75	✓ 76											
13	130			50	✓ 50											
14	131			30	✓ 30											
15	132			20	✓ 20			✓	✓			✓				
16	133			10	✓ 10			✓				✓				
17	134			5	✓ 5			✓				✓				
18	135	1241	4.521	0	✓ 2	✓	✓	✓								titration terminated too soon Don't trust this value.
19																
20																
21																
22																
23																
24																

Comments: NUTRIENTS: RED BACK

SHIP: JOHN P TULLY
ENTERED BY: MK
CHECKED BY: DA

Bottom Depth: 780

Cast # down: 19

Cast # up: 19

Time LOC UTC

Begin: 0712

Bottom: 0725

End: 0754

START POSITION (GPS)

LAT: 48 39 10

LONG: 126 23 42

BOTTOM POSITION (GPS)

LAT: 48 39 10

LONG: 126 23 38

END POSITION (GPS)

LAT: 48 39 15

LONG: 126 23 33

ROSETTE LOG

MISSION ID: 2006-14 STATION: LD6 CAST NUMBER: 21 UTC DATE (dd/mm/yyyy): 15/9/2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		PH						
						OXY		NH4		ALK		CHL	CHL					
1	136	1337	1.359	Bot-10	✓ 125	✓	✓	✓										
2	137			125	✓ 125	✓												
3	138	1247	2.058	100	✓ 100		✓											
4	139			75	✓ 75													
5	140			50	✓ 50			✓										
6	141			30	✓ 30													
7	142			20	✓ 20				✓			✓						
8	143			10	✓ 10				✓			✓						
9	144	1258	6.132	5	✓ 5	✓	✓		✓			✓						OXY & SAL TAKEN @ 9
10	145			0	✓ 2	✓	✓	✓										operator error! Did not trip surface bottle
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 136

Cast # down: 21
Cast # up: 21

Time	LOC	UTC
Begin:		0942
Bottom:		0945
End:		0954

START POSITION (GPS)
LAT: 48 46 19
LONG: 126 10 21

BOTTOM POSITION (GPS)
LAT: 48 46 19
LONG: 126 10 20

END POSITION (GPS)
LAT: 48 46 19
LONG: 126 10 20

Comments: Nutrients Green Rack

ROSETTE LOG

MISSION ID: 2006-14 STATION: LD4 CAST NUMBER: 19 UTC DATE (dd/mm/yyyy): 15/9/2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken											
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3					
							OXY		NH4	ALK		CHL					
1	146			Bot-10		✓	✓	✓									
2	147			30		✓											
3	148			20					✓				✓				
4	149			10				✓					✓				
5	150			5					✓				✓				
6	151			0		✓	✓	✓									
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

SHIP: Tully
ENTERED BY: DA
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: 2006-14 STATION: LD04 CAST NUMBER: 23 UTC DATE (dd/mm/yyyy): 15 Sept 2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13				
							OXY		44	ALK		CHL				
1	152	1260	2.438	50	✓ 50	X	X									
2	153			30	✓ 30	X										
3	154			20	✓ 20					2			X			
4	155			10	✓ 10					2			X			
5	156			5	✓ 5					2			X			
6	157	1270	5.59	0	✓ 1	X	X			2						
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

SHIP: T-11
ENTERED BY: sm
CHECKED BY:

Bottom Depth: 62

Cast # down: 23
Cast # up:

Time	LOC	UTC
Begin:		1140
Bottom:		1143
End:		1149

START POSITION (GPS)
LAT: 48 53.234
LONG: 125 56.912

BOTTOM POSITION (GPS)
LAT: 48 53.260
LONG: 125 56.926

END POSITION (GPS)
LAT: 48 53.294
LONG: 125 56.554

Comments:

ROSETTE LOG

MISSION ID: 202-14

STATION: LD2

CAST NUMBER: 26

UTC DATE (dd/mm/yyyy): 15 Sept 2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
							OXY		NH4	ALK		CHL						
1	153	1279	2.962	30	/ 29	X	X											
2	159			20	/ 20	X				2		X						
3	160			10	/ 10					2		X						
4	161			5	/ 5					2		X						
5	162	1280	5.030	0	✓ 0	X	X			2								
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Tully

ENTERED BY: SN

CHECKED BY:

Bottom Depth: 43

Cast # down: 26

Cast # up:

Time	LOC	UTC
Begin:		1323
Bottom:		1326
End:		133

START POSITION (GPS)

LAT: 48 58.379

LONG: 125 47.040

BOTTOM POSITION (GPS)

LAT: 48 58.385

LONG: 125 47.047

END POSITION (GPS)

LAT: 48 58.391

LONG: 125 47.048

ROSETTE LOG

MISSION ID: 2006-14

STATION: LDI

CAST NUMBER: 28

UTC DATE (dd/mm/yyyy): 15 Sep 2006

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			
1	163	1281	3.733	20	/ 20	X	X			2			X			
2	164			10	/ 10	X				2			X			
3	165			5	/ 5					2			X			
4	166	1192	5.230	0	/ 0	X	X			2						
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Comments:

SHIP: Tully

ENTERED BY:

CHECKED BY:

Bottom Depth: 36

Cast # down: 20

Cast # up:

Time	LOC	UTC
Begin:		1417
Bottom:		1420
End:		1422

START POSITION (GPS)

LAT: 49 0.100

LONG: 125 43.931

BOTTOM POSITION (GPS)

LAT: 49 0.080

LONG: 125 43.901

END POSITION (GPS)

LAT: 49 0.060

LONG: 125 43.870

ROSETTE LOG

MISSION ID: 2006-14 STATION: LCI CAST NUMBER: 29 UTC DATE (dd/mm/yyyy): 15/9/2006

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					
1	167	1195	2.467	Bot-10	✓	85	✓	✓										
2	168			75	✓		✓											
3	169			50	✓		✓											
4	170			30	✓													
5	171	1206	4.315	20	✓			✓		✓✓			✓					
6	172			10	✓				✓	✓✓			✓					
7	173			5	✓					✓✓			✓					
8	174	1212	5.756	0			✓	✓	✓									
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: MR

Bottom Depth: 97

Cast # down: 29
Cast # up:

Time	LOC	UTC
Begin:		1610
Bottom:		1613
End:		1622

START POSITION (GPS)
LAT: 48° 50' 43"
LONG: 125° 27' 76"

BOTTOM POSITION (GPS)
LAT: 48° 50' 42"
LONG: 125° 27' 77"

END POSITION (GPS)
LAT: 48° 50' 41"
LONG: 125° 27' 75"

Comments: NUTRIENTS LABELED
CIGAR SMALL WHEN SAMPLING NH4 171 (NISK 5)

ROSETTE LOG

MISSION ID: 2006-14 STATION: LC2 CAST NUMBER: 30 UTC DATE (dd/mm/yyyy): 15/9/2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	175	1331	2.388	But-10	✓	100	✓	✓	✓									
2	176	1333	2.432	75	✓		✓	✓										
3	177			50	✓													Did not close
4	178			30	✓													
5	179			20	✓					✓✓		✓						
6	180			10	✓					✓✓		✓						
7	181			5	✓					✓✓		✓						
8	182	1406	4.947	0	✓		✓	✓	✓									
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

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

Bottom Depth: 110

Cast # down: 30
Cast # up:

Time	LOC	UTC
Begin:		1659
Bottom:		1702
End:		1711

START POSITION (GPS)
LAT: 48° 48.67
LONG: 125° 30.93

BOTTOM POSITION (GPS)
LAT: 48° 48.69
LONG: 125° 30.93

END POSITION (GPS)
LAT: 48° 48.72
LONG: 125° 30.91

ROSETTE LOG

MISSION ID: 2006-14 STATION: LC4 CAST NUMBER: 32 UTC DATE (dd/mm/yyyy): 15/9/2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION			Samples taken												
				Sample Depth	Confirmed	pressure	SAL		NUT		TCO		C13						
1	183	1383	1.588	Bot-10	✓	158	✓	✓	✓										
2	184			150	✓		✓												
3	185	1384	1.691	125	✓			✓											
4	186			100	✓														
5	187			75	✓					✓									
6	188			50	✓														
7	189			30	✓														
8	190			20	✓					✓				✓					
9	191			10	✓					✓				✓					
10	192			5	✓					✓				✓					
11	193	1389	4.746	0	✓		✓	✓	✓										
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Comments: NUTRIENTS: ORANGE RACK

SHIP: JOHN P. NALL
ENTERED BY: MC
CHECKED BY: DA

Bottom Depth: 167

Cast # down: 32
Cast # up:

Time	LOC	UTC
Begin:		1837
Bottom:		1841
End:		1853

START POSITION (GPS)
LAT: 48 43 43
LONG: 125 40.76

BOTTOM POSITION (GPS)
LAT: 48 43 43
LONG: 125 40.74

END POSITION (GPS)
LAT: 48 43 41
LONG: 125 40 75

ROSETTE LOG

MISSION ID: 2006-14 STATION: LCG CAST NUMBER: 36 UTC DATE (dd/mm/yyyy): 15/9/2006

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					
1	194	1327	1.462	Bot-10	- 85	✓	✓	✓										
2	195			75	- 75	✓												
3	196			50	- 51													
4	197			30	- 31			✓										
5	198			20	- 20			lan	✓			✓						
6	199	1329	5.211	10	- 10		✓		✓			✓						
7	200			5	- 5	✓			✓			✓						
8	201	1417	7.818	0	- 2		✓											
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully
ENTERED BY: DA
CHECKED BY:

Bottom Depth: 93

Cast # down: 36
Cast # up: 36

Time	LOC	UTC
Begin:		21 25
Bottom:		21 27
End:		21 37

START POSITION (GPS)
LAT: 48 36 43
LONG: 125 53 96

BOTTOM POSITION (GPS)
LAT: 48 36 42
LONG: 125 53 98

END POSITION (GPS)
LAT: 48 36 43
LONG: 125 53 99

Comments: NOTS - WHITE RACK

ROSETTE LOG

MISSION ID: 2606-14 STATION: 208 CAST NUMBER: 33 UTC DATE (dd/mm/yyyy): 15 Sept 2006

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					
1	202	1421	1.425	Bot-10	/	191	/	✓	✓									
2	203			175	/	175	✓											
3	204			150	/	150												
4	205			125	/	125												
5	206			100	/	100												
6	207	1460	2.050	75	/	75		✓	✓									
7	208			50	/	50												
8	209			30	/	30												
9	210			20	/	20							✓					
10	211			10	/	9							✓					
11	212			5	/	5	✓						✓					
12	213	1438	6.134	0	/	0		✓	✓									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Tully
ENTERED BY: [Signature]
CHECKED BY:

Bottom Depth: 200

Cast # down: 38
Cast # up:

Time	LOC	UTC
Begin:		2330
Bottom:		2336
End:		2350

START POSITION (GPS)
LAT: 48 29.419
LONG: 126 07.078

BOTTOM POSITION (GPS)
LAT: 48 27.446
LONG: 126 07.083

END POSITION (GPS)
LAT: 48 27.464
LONG: 126 07.093

660

ROSETTE LOG

MISSION ID: 2006-14 STATION: LC9 CAST NUMBER: 40 UTC DATE (dd/mm/yyyy): 16 Sept 2006

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					
1	214	1439	0.435	500-10	✓ 600	X	X											} yes, tripped at the same depth
2	215			600	✓ 600	X												
3	216			500	✓ 500													
4	217			400	✓ 400													
5	218			300	✓ 300													
6	219			250	✓ 250													
7	220			200	✓ 200													
8	221			175	✓ 175													
9	222			150	✓ 150													
10	223	1440	2.646	125	✓ 124		X											
11	224			100	✓ 100													
12	225			75	✓ 74													
13	226			50	✓ 49													
14	227			30	✓ 30													
15	228			20	✓ 19.1					2			X					
16	229			10	✓ 10					2			X					
17	230			5	✓ 5	X				2			X					
18	231	1441	6.467	0	✓ 0		X											
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Nuts - Yellow Metal

SHIP: Tully
ENTERED BY: JR
CHECKED BY:

Bottom Depth: 606

Cast # down: 40
Cast # up:

Time	LOC	UTC
Begin:		6138
Bottom:		0150
End:		0214

START POSITION (GPS)
LAT: 48 25.958
LONG: 126 13.708BOTTOM POSITION (GPS)
LAT: 48 25.939
LONG: 126 13.719END POSITION (GPS)
LAT: 48 25.938
LONG: 126 13.718

ROSETTE LOG

MISSION ID: 2006-14 STATION: LC11 CAST NUMBER: 43 UTC DATE (dd/mm/yyyy): 16/9/2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
							OXY		N/A	ALK		CHL						
1	232	1442	0.643	Bot-10	✓	1435	✓	✓	✓									
2	233			1200	✓		✓											
3	234			1000	✓													
4	235			800	✓													
5	236	1443	0.469	600	✓			✓										
6	237			500	✓													
7	238			400	✓													
8	239			300	✓													
9	240			250	✓													
10	241			200	✓													
11	242			175	✓													
12	243			150	✓													
13	244			125	✓													Valve open?
14	245			100	✓													
15	246			75	✓													Valve open?
16	247			50	✓													
17	248			30	✓													
18	249			20	✓				✓			✓						
19	250			10	✓				✓			✓						
20	251			5	✓				✓			✓						
21	252	1462	6.087	0	✓		✓	✓	✓									
22																		
23																		
24																		

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

Bottom Depth: 1430

Cast # down: 43
Cast # up:

Time	LOC	UTC
Begin:		0428
Bottom:		0436
End:		0537

START POSITION (GPS)
LAT: 48 18.99
LONG: 126 26.64

BOTTOM POSITION (GPS)
LAT: 48 18.97
LONG: 126 26.70

END POSITION (GPS)
LAT: 48 18.93
LONG: 126 26.76

Comments:

ROSETTE LOG

MISSION ID: 2006-14 STATION: L801 CAST NUMBER: 47 UTC DATE (dd/mm/yyyy): 16 Sept 2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13							
1	253	1223	3.805	Bot-10	✓ 25			✓	✓	✓				✓					
2	254			10	✓ 9	✓			✓				✓						
3	255			5	✓ 5				✓				✓						
4	256	1216	4.954	0	✓ 1			✓	✓										
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Comments:

SHIP: T-116

ENTERED BY: SL

CHECKED BY:

Bottom Depth: 35

Cast # down: 47

Cast # up:

Time	LOC	UTC
Begin:		2256
Bottom:		2258
End:		2301

START POSITION (GPS)

LAT: 48 40.460

LONG: 124 59.442

BOTTOM POSITION (GPS)

LAT: 48 40.460

LONG: 124 59.450

END POSITION (GPS)

LAT: 48 40.430

LONG: 124 59.460

ROSETTE LOG

MISSION ID: 2006-1A STATION: LB 02 CAST NUMBER: 48 UTC DATE (dd/mm/yyyy): 16 Sep 2006

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	257	1225	2.623	Bot-10	✓ 46		X									
2	258			30	✓ 30	X										
3	259			20	✓ 20				2			X				
4	260			10	✓ 10				2			X				
5	261			5	✓ 4				2			X				
6	262✓	1228	4.503	0	✓ 0		X									
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

SHIP: Tully
ENTERED BY: SR
CHECKED BY:

Bottom Depth: 56

Cast # down: 48
Cast # up:

Time	LOC	UTC
Begin:		2336
Bottom:		2339
End:		2344

START POSITION (GPS)
LAT: 48 39.010
LONG: 125 02.499

BOTTOM POSITION (GPS)
LAT: 48 39.000
LONG: 125 2.509

END POSITION (GPS)
LAT: 48 38.979
LONG: 125 02.489

ROSETTE LOG

MISSION ID: 2026-14 STATION: LB4 CAST NUMBER: 50 UTC DATE (dd/mm/yyyy): 17 Sept 2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13							
							OXY		NA4		ALK		CHL						
1	263	1231	1.206	60+10	/ 101	X	X												
2	264			75	/ 74	X													
3	265	1235	2.473	50	/ 50		X												
4	266			30	/ 30														
5	267			20	/ 19					2			X						
6	268			10	/ 10					2			X						
7	269			5	/ 4					2			X						
8	270	1237	4.243	0		X	X												
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Comments:

SHIP: Tully
ENTERED BY: Sn
CHECKED BY:

Bottom Depth: 113

Cast # down: 50
Cast # up:

Time	LOC	UTC
Begin:		0053
Bottom:		0057
End:		0104

START POSITION (GPS)
LAT: 48 35.670
LONG: 125 8.744

BOTTOM POSITION (GPS)
LAT: 48 35.712
LONG: 125 8.720

END POSITION (GPS)
LAT: 48 35.760
LONG: 125 8.839

ROSETTE LOG

MISSION ID: 2006-14 STATION: LB06 CAST NUMBER: 52 UTC DATE (dd/mm/yyyy): 17 Sept 2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY		MT4		ALK		CHL					
1	271	1337	0.987	bot 10	✓ 106	X	X											Flask 1247 entered
2	272			75	✓ 75	X												
3	273			50	✓ 50													
4	274			30	✓ 30													
5	275	1247	6.172	20	✓ 20		X		2			X						X
6	276			10	✓ 10				2			X						Flask 1337 entered
7	277			5	✓ 5				2			X						
8	278	1258	6.166	0	✓ 1	X	X											
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Tully
ENTERED BY: SL
CHECKED BY:

Bottom Depth: 116

Cast # down: 52
Cast # up:

Time	LOC	UTC
Begin:		0205
Bottom:		0210
End:		0218

START POSITION (GPS)
LAT: 48 32.120
LONG: 125 15.449

BOTTOM POSITION (GPS)
LAT: 48 32.112
LONG: 125 15.459

END POSITION (GPS)
LAT: 48 32.130
LONG: 125 15.410

ROSETTE LOG

MISSION ID: 2006-14 STATION: 238 CAST NUMBER: 60 UTC DATE (dd/mm/yyyy): 17/07/2006

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					
1	279	1241	0.693	Bot-10	- 145	✓	✓	✓										
2	280	1238	0.730	125	- 125	✓	✓	✓										
3	281			100	- 100													
4	282			75	- 76													
5	283			50	- 49													
6	284			30	- 30													
7	285			20	- 20					✓✓			✓					
8	286			10	- 10					✓✓			✓					
9	287			5	- 5					✓✓			✓					
10	288	1260	6.105	0	- 2	✓	✓	✓										
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: NUTRIENTS: GREEN BACK

SHIP: Tally

ENTERED BY: HR

CHECKED BY: OA

Bottom Depth: 14

Cast # down: 60

Cast # up: 60

Time	LOC	UTC
Begin:		0753
Bottom:		0757
End:		0809

START POSITION (GPS)

LAT: 48 25 30

LONG: 125 28 27

BOTTOM POSITION (GPS)

LAT: 48 25 30

LONG: 125 28 71

END POSITION (GPS)

LAT: 48 25 57

LONG: 125 28 76

ROSETTE LOG

MISSION ID: 2006-14 STATION: LB9 CAST NUMBER: 61 UTC DATE (dd/mm/yyyy): 17/09/2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY		N44		ALK		CHL					
1	289	1270	0.886	131-10	✓ 140	✓	✓											
2	290			100	✓ 100													
3	291			75	✓ 75													
4	292	1279	1.922	50	✓ 50			✓										
5	293			30	✓ 30			✓										
6	294			20	✓ 20				✓✓			✓						
7	295			10	✓ 10				✓✓			✓						
8	296			5	✓ 5	✓			✓✓			✓						
9	297	1280	5.833	0	✓ 2	✓	✓											
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: TULLY
ENTERED BY: DA
CHECKED BY:

Bottom Depth: 150

Cast # down: 61
Cast # up: 61

Time	LOC	UTC
Begin:		0858
Bottom:		0902
End:		0912

START POSITION (GPS)
LAT: 48 22 02
LONG: 125 34 69

BOTTOM POSITION (GPS)
LAT: 48 22 04
LONG: 125 34 70

END POSITION (GPS)
LAT: 48 21 97
LONG: 125 34 74

Comments: NUTRIENTS - RED BACK

ROSETTE LOG

MISSION ID: 2006-14 STATION: LB11 CAST NUMBER: 63 UTC DATE (dd/mm/yyyy): 17/09/2006

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY		NH4		ALK		CHL					
1	298	1281	1.480	Bot-10	✓ 194	✓	✓											
2	299			175	✓ 177	✓												
3	300			150	✓ 150													
4	301			125	✓ 125													
5	302			100	✓ 100													
6	303			75	✓ 75			✓										
7	304	1192	3.672	50	✓ 49		✓											
8	305			30	✓ 29													
9	306			20	✓ 20				✓			✓						
10	307			10	10.9				✓			✓						0.15 10.15
11	308			5	✓ 3				✓			✓						tripped
12	309	1195	3.914	0	✓ 0	✓	✓											
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:
 NUTS- BLUE RACK
 → There are NO samples from 10m

SHIP: Tully
 ENTERED BY:
 CHECKED BY:

Bottom Depth: 205

Cast # down: 63
 Cast # up:

Time	LOC	UTC
Begin:		1056
Bottom:		1102
End:		

START POSITION (GPS)
 LAT: 48 15.230
 LONG: 125 47.691

BOTTOM POSITION (GPS)
 LAT: 48 15.239
 LONG: 125 47.602

END POSITION (GPS)
 LAT: 48 15.170
 LONG: 125 47.642

ROSETTE LOG

MISSION ID: 2006-14 STATION: LB12 CAST NUMBER: 65 UTC DATE (dd/mm/yyyy): 17 Sept 2006

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
							OXY		NH4	ALK		CHL						
1	310	1206	0.715	600-10	✓ 500	✓	✓											
2	311			400	✓ 400	✓												
3	312			300	✓ 300													
4	313			250	✓ 250													
5	314	1212	1.622	200	✓ 200		✓											
6	315			175	✓ 175													
7	316			150	✓ 148													
8	317			125	✓ 125													
9	318			100	✓ 99													
10	319			75	✓ 75													
11	320			50	✓ 50			✓										
12	321			30	✓ 30													
13	322			20	✓ 20				2				✓					
14	323			10	✓ 10				2				✓					
15	324			5	✓ 5				2				✓					
16	325	1331	5.888	0	✓ 0	✓	✓											
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Tilly
ENTERED BY:
CHECKED BY:

Bottom Depth: 510

Cast # down: 65
Cast # up:

Time	LOC	UTC
Begin:		1255
Bottom:		1311
End:		1335

START POSITION (GPS)
LAT: 48 12.940
LONG: 125 51.899

BOTTOM POSITION (GPS)
LAT: 48 12.915
LONG: 125 51.899

END POSITION (GPS)
LAT: 48 12.912
LONG: 125 51.818

ROSETTE LOG

MISSION ID: 2006-14 STATION: LB14 CAST NUMBER: 68 UTC DATE (dd/mm/yyyy): 18 Sept 2006

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	326	1327	0.465	500-10	✓	1160	X	X										
2	327	1329		1000	✓		X											
3	328	1417		800	✓													
4	329			600	✓													
5	330			500	✓			X										
6	331	1329	1.161	400	✓		X											
7	332			300	✓													
8	333			250	✓													
9	334			200	✓													
10	335			175	✓													
11	336			150	✓													
12	337			125	✓													
13	338			100	✓													
14	339			75	✓													
15	340			50	✓													
16	341			30	✓													
17	342			20	✓			2			X							
18	343			10	✓			2			X							
19	344			5	✓			2			X							
20	345	1417	6.170	0	✓	X	X											
21																		Phyto in sample
22																		
23																		
24																		

Comments: Orange each.

SHIP: Tully
ENTERED BY: SL
CHECKED BY: RL

Bottom Depth: 1169

Cast # down: 68
Cast # up:

Time	LOC	UTC
Begin:		0257
Bottom:		0315
End:		0347

START POSITION (GPS)
LAT: 48° 08' 48"
LONG: 125° 59' 93"

BOTTOM POSITION (GPS)
LAT: 48° 08' 49"
LONG: 125° 59' 99"

END POSITION (GPS)
LAT: 48° 08' 49"
LONG: 126° 00' 05"