

ROSETTE LOG

MISSION ID: 2007-13

STATION: SI03

CAST NUMBER: 1

UTC DATE (dd/mm/yyyy): 30/05/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		GASE				
						OXY				ALK		CHL						
1	1			200	✓									✓				
2	2			200	✓													
3	3			200	✓			✓										
4	4			185	✓	185		✓										
5	5			165	✓	165		✓									missed bottle 1st time	
6	6			150	✓	150												
7	7			150	✓	150		✓										
8	8			135	✓	135		✓										
9	9			120	✓	120												
10	10			120	✓	120												
11	11			120	✓	120		✓										
12	12			110	✓	110		✓										
13	13			100	✓	100												
14	14			100	✓	100												
15	15			100	✓	100		✓										
16	16			97	✓	97		✓										
17	17			90	✓	90		✓										
18	18			85	✓	85		✓										
19	19			75	✓	75		✓										
20	20			60	✓	60		✓										
21	21			40	✓	40		✓										
22	22			20	✓	20		✓										
23	23			10	✓	10		✓										
24	24			10	✓	10		✓	✓					✓				

Comments:

SHIP: Tully

ENTERED BY: DA

CHECKED BY:

Bottom Depth: 224

Cast # down: 1

Cast # up: 1

Time	LOC	UTC
Begin:	1436	2136
Bottom:	1442	2142
End:	1504	2204

START POSITION (GPS)

LAT: 48 35 51

LONG: 123 30 02

BOTTOM POSITION (GPS)

LAT: 48 35 48

LONG: 123 30 01

END POSITION (GPS)

LAT: 48 35 38

LONG: 123 30 01

ROSETTE LOG

MISSION ID: 2007-13 STATION: PI CAST NUMBER: 3 UTC DATE (dd/mm/yyyy): 01/06/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	C13	CHL						
21	25			10	/													Anissa
32	26			10	/													
43	27	1430	7.054	10	/	✓	✓	✓	✓			✓						
54	28	1431		5	/	✓	✓	✓				✓						Problem with program no endpoint
5																		Bottle dripped at bottom - not sampled
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: TULLY
 ENTERED BY: MR
 CHECKED BY: DA

Bottom Depth: 114

Cast # down: 3

Cast # up: 3

Time	LOC	UTC
Begin:	0201	0901
Bottom:	0206	0906
End:	0212	0912

START POSITION (GPS)
 LAT: 48 34 51
 LONG: 125 29 97

BOTTOM POSITION (GPS)
 LAT: 48 34 51
 LONG: 125 29 94

END POSITION (GPS)
 LAT: 48 34 51
 LONG: 125 29 92

Comments:

ALL LABELLED

ROSETTE LOG

MISSION ID: 2007-13 STATION: P2 CAST NUMBER: 5 UTC DATE (dd/mm/yyyy): 1/June/2007

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK		CHL						
1	29	715	1.724	Bot-10	110	✓	✓	✓										
2	30	1105	1.682	100	100							✓	✓					
3	31	1146	2.819	75	75							✓	✓					
4	32	1158	2.810	75	75							✓	✓					
5	33	1175	3.622	50	50							✓	✓					
6	34	1301	6.455	25	25							✓						
7	35	1305	7.550	10	10							✓						
8	36	1387	7.637	5	5	✓	✓	✓				✓						
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully
 ENTERED BY: MR
 CHECKED BY: SA

Bottom Depth: 118

Cast # down: 5
 Cast # up: 5

Time	LOC	UTC
Begin:	0445	1145
Bottom:	0447	1147
End:	0457	1157

START POSITION (GPS)
 LAT: 48 35 98
 LONG: 126 00 07

BOTTOM POSITION (GPS)
 LAT: 48 35 98
 LONG: 126 00 05

END POSITION (GPS)
 LAT: 48 35 98
 LONG: 126 00 04

Comments: NUTS: BLUE RACK + LABELED FOR DUPS
 OXY: BLUE BOX -

ROSETTE LOG

DEEP CAST

MISSION ID: 2007-13 STATION: P4 CAST NUMBER: 8 UTC DATE (dd/mm/yyyy): 1/6/07

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CHL				
1	38	1110	0.544	Bot-10	✓	1305	✓	✓	✓	✓				✓				
2	39	1138	0.457	1250	✓		✓	✓	✓	✓								
3	40	1329	0.305	1000	✓													
4	41	1349		1000	✓													
5	42	1329	0.305	1000	✓		✓	✓	✓	✓				✓				
6	43	1349	0.253	800	✓		✓	✓	✓	✓								
7	44			600	✓		✓	✓	✓	✓								
8	45			500	✓													
9	46	1453	0.634	500	✓													
10	47	1393	1.073	400	✓		✓	✓	✓	✓				✓				
11	48	1386	2.972	300	✓		✓	✓	✓	✓								
12	49	1399	2.930	250	✓		✓	✓	✓	✓				✓				
13	50	1410	2.846	200	✓		✓	✓	✓	✓				✓				
14	51	1411	3.154	175	✓		✓	✓	✓	✓								
15	52	1421	3.159	150	✓		✓	✓	✓	✓				✓				
16	53	1440	3.571	125	✓		✓	✓	✓	✓								
17	54	1441	5.359	100	✓		✓	✓	✓	✓				✓				
18	55	1442	6.778	75	✓		✓	✓	✓	✓								
19	56	1445	6.942	50	✓		✓	✓	✓	✓				✓				
20	57	1446	7.084	25	✓		✓	✓	✓	✓								
21	58			10	✓													
22	59			10	✓													
23	60	1448	7.586	10	✓		✓	✓	✓	✓				✓				
24	61	1451	7.305	5			✓	✓	✓	✓								

Comments: OXY: GREEN BOX
NUTRIENTS: YELLOW BACK

SHIP: TULLY
ENTERED BY: MR
CHECKED BY: MR

Bottom Depth: 1320

Cast # down: 8
Cast # up:

Time	LOC	UTC
Begin:	0913	1613
Bottom:	0930	1630
End:	1007	1707

START POSITION (GPS)
LAT: 48 38.99
LONG: 126 40.01

BOTTOM POSITION (GPS)
LAT: 48 39.03
LONG: 126 39.94

END POSITION (GPS)
LAT: 48 39.10
LONG: 126 39.97

ROSETTE LOG

SHALLOW CAST

MISSION ID: 2007-13 STATION: P4 CAST NUMBER: 11 UTC DATE (dd/mm/yyyy): 11/6/07

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	DMs	TCO	ALK	C13	CHL	HPLO				
1	62	1452		300	✓													
2	63			200	✓													
3	64			175	✓									✓				
4	65			100	✓								✓✓	✓				
5	66			75	✓								✓✓	✓✓				
6	67			50	✓								✓✓	✓				
7	68			40	✓								✓✓	✓				
8	69			30	✓								✓✓					
9	70			25	✓								✓✓	4				
10	71			20	✓								✓					
11	72			15	✓								✓					
12	73	1452	7.355	10	✓	✓	✓						✓	4				
13	74			5	✓								✓	4				
14	75			5	✓	✓												ONAR
15	76			0									✓					
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: TULLY
ENTERED BY: MK
CHECKED BY: MK

Bottom Depth: 1320

Cast # down: 11
Cast # up:

Time	LOC	UTC
Begin:	1125	1825
Bottom:	1130	1830
End:	1145	1845

START POSITION (GPS)
LAT: 48 39 06
LONG: 126 39 91

BOTTOM POSITION (GPS)
LAT: 48 39 04
LONG: 126 39 91

END POSITION (GPS)
LAT: 48 38 99
LONG: 126 39 89

Comments: OXYGEN: IN GRN BOX BACK ROW
Bottle 15 - no DMs present: & high nutrient levels → not tripping at surface ???

ROSETTE LOG

MISSION ID: 2007-13 STATION: P8 CAST NUMBER: 17 UTC DATE (dd/mm/yyyy): 2/06/2007

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	80	1212	1.433	2000	2004	✓	✓	✓										
2	81	1216	0.676	1500	1500													
3	82	1223	0.366	1250	1250													
4	83	1228	0.256	1000	1000													
5	84	1238	0.294	800	799													
6	85	1241	0.674	600	599													poorly defined end point
7	86	1247	0.656	600	599													
8	87	1279	1.711	400	399													
9	88	1403	2.458	300	300													
10	89	1281	3.744	250	250													
11	90	1313	4.513	200	199													
12	91	1338	4.782	175	175													
13	92	1344	4.965	150	150													
14	93	1347	5.789	125	125													
15	94	1354	6.627	100	100			✓				✓						
16	95	1356	6.872	75	74							✓						
17	96	1360	7.067	50	50							✓						
18	97	1366	7.227	25	24	✓	✓	✓				✓						
19	98			10	10													} ANISSA
20	99			10	10													
21	100	1426	6.849	10	10	✓	✓	✓	✓			✓						
22	101	1427	6.832	5	5	✓	✓	✓				✓						
23	102			5	5	✓												ONAR
24																		

SHIP: TULLY
ENTERED BY: MR
CHECKED BY: DA

Bottom Depth: 2521

Cast # down: 17
Cast # up: 17

Time	LOC	UTC
Begin:	0014	0714
Bottom:	0039	0739
End:	0125	0825

START POSITION (GPS)
LAT: 48 48 87
LONG: 128 40 43

BOTTOM POSITION (GPS)
LAT: 48 48 92
LONG: 128 40 42

END POSITION (GPS)
LAT: 48 49 04
LONG: 128 40 39

Comments: OXYGEN: BLACK BOX
NUTRIENTS: GREEN RACK

ROSETTE LOG

MISSION ID: 2007-13 STATION: P12 CAST NUMBER: 21 UTC DATE (dd/mm/yyyy): 2/6/07

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		HPLC				
1	105			300	✓			✓	✓									
2	106			200	✓			✓	✓									
3	107			175	✓			✓	✓					✓				
4	108			100	✓			✓	✓					✓	✓			
5	109			75	✓			✓	✓					✓	✓			
6	110			50	✓			✓	✓					✓	✓			
7	111			40	✓			✓	✓					✓	✓			
8	112			30	✓			✓	✓					✓				
9	113			25	✓			✓	✓					✓	4			
10	114			20	✓			✓	✓					✓				
11	115			15	✓			✓	✓					✓				
12	116			10	✓			✓	✓					✓	4			
13	117			5	✓			✓	✓					✓	4			
14	118			5	✓		✓											ONAR
15	119			0	✓		✓	✓	✓					✓				
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: NUTS - BROWN - RACK
 (+1 SAMPLE FROM NEXT CAST)
 Bottle 15 - not draining well - took SAL sample

SHIP: TULLY
 ENTERED BY: MR
 CHECKED BY: MR

Bottom Depth: 3233

Cast # down: 21
 Cast # up:

Time	LOC	UTC
Begin:	1247	1947
Bottom:	1253	1953
End:	1009	2009

START POSITION (GPS)
 LAT: 48 58.17
 LONG: 130 40.33

BOTTOM POSITION (GPS)
 LAT: 48 58.19
 LONG: 130 40.36

END POSITION (GPS)
 LAT: 48 58.22
 LONG: 130 40.52

ROSETTE LOG

UBC / ULAVAL CAST

MISSION ID: 2007-13 STATION: P12 CAST NUMBER: 22 UTC DATE (dd/mm/yyyy): 2/6/07

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY		PH	ALK		CHL						
1	120			2000	✓													} ANISSA
2	121			2000	✓													
3	122			1000	✓													
4	123			1000	✓													
5	124			500	✓													
6	125			500	✓													
7	126			10	✓													
8	127			10	✓													
9	128	1373	7.181	10	✓	✓	✓	✓	✓			✓						
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: OXY: AT BACK OF RED BOX
NUT: WITH BROWN RACKSHIP: TULLY
ENTERED BY: MR
CHECKED BY: MR

Bottom Depth: 3233

Cast # down: 22

Cast # up:

Time	LOC	UTC
Begin:	1358	2058
Bottom:	1433	2133
End:	1507	2207

START POSITION (GPS)
LAT: 48 58.20
LONG: 130 40.13BOTTOM POSITION (GPS)
LAT: 48 58.66
LONG: 130 39.91END POSITION (GPS)
LAT: 48 58.69
LONG: 130 39.59

ROSETTE LOG

DEEP CAST

MISSION ID: 2007-13 STATION: P12 CAST NUMBER: 25 UTC DATE (dd/mm/yyyy):

21/06/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CHL				
							OXY				ALK							
1	129	1461	2.799	Bot-10	- 3230	✓	✓	✓		✓				✓✓				
2	130	1256	2.339	3000	- 3000									✓✓				
3	131	1267	2.063	2500	- 2500													
4	132	1268	2.044	2500	- 2500					✓								
5	133	1374	1.489	2000	- 1996									✓✓				
6	134	1273	0.745	1500	- 1500			✓						✓✓				
7	135	1274	0.460	1250	- 1248													
8	136	1276	0.294	1000	- 1000									✓✓				
9	137	1278	0.406	800	- 800													
10	138	1300	0.594	600	- 660													
11	139	1318	1.548	400	- 400									✓✓				
12	140	1323	2.555	300	- 300													
13	141	1272	3.146	250	- 250									✓✓				
14	142	1394	4.105	200	- 198									✓✓				
15	143	1424	4.192	175	- 175													
16	144	1324	3.490	150	- 149									✓✓				
17	145	1443	5.348	125	- 125													
18	146	1391	6.409	100	- 100									✓✓				
19	147	1389	5.867	75	- 75													
20	148	1486	7.187	50	- 50									✓✓				
21	149	1382	6.953	25	- 25													
22	150	1306	6.422	10	- 10									✓✓				
23	151	1314	6.412	5		✓	✓	✓		✓								
24																		

SHIP: Tully
ENTERED BY: MR
CHECKED BY: DA

Bottom Depth: 3229

Cast # down: 25
Cast # up: 25

Time	LOC	UTC
Begin:	1601	2301
Bottom:	1646	2346
End:	1757	0057

START POSITION (GPS)
LAT: 48 58 46
LONG: 130 40 12

BOTTOM POSITION (GPS)
LAT: 48 58 56
LONG: 130 39 83

END POSITION (GPS)
LAT: 48 58 91
LONG: 130 39 10

Comments: NUTS : LIGHT BLUE RACK
OXY: RED BOX

ROSETTE LOG

MISSION ID: 2007-13 STATION: P14 CAST NUMBER: 27 UTC DATE (dd/mm/yyyy): 03/06/2007

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK		CHL						
1	153			10	10													Anissa
2	154			10	10													
3	155	1430	6.777	10	10	✓	✓	✓				✓						
4	156			5	5	✓		✓				✓						
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: 3310

Cast # down: 3
Cast # up: 3

Time	LOC	UTC
Begin:	0307	1007
Bottom:	0332	1032
End:	0357	1057

START POSITION (GPS)
LAT: 49 07 43
LONG: 132 40 02

BOTTOM POSITION (GPS)
LAT: 49 07 41
LONG: 132 39 91

END POSITION (GPS)
LAT: 49 07 40
LONG: 132 39 95

ROSETTE LOG

SHALLOW DMS CAST

MISSION ID: 2007-13 STATION: P16 CAST NUMBER: 30 UTC DATE (dd/mm/yyyy): 3/6/07

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	DMS	TCO	ALK	C13	CHL	PHL				
1	158			300	✓			✓	✓									
2	159			200	✓			✓	✓									
3	160			175	✓									✓				
4	161			100	✓								✓	✓				
5	162			75	✓									✓✓				
6	163			50	✓									✓				
7	164			40	✓									✓				
8	165			30	✓													
9	166			25	✓									4				
10	167			20	✓													
11	168			15	✓													
12	169	1397	6.986	10	✓	10	✓	✓	✓	✓			✓	2				
13	170	170		10	✓	10								2				
14	171			5	✓	10		✓	✓				✓	4				
15	172	171		5	✓	5	✓	✓	✓				✓	4				TEST
16	173	172		5	✓	5	✓											ONAR
17	174	173		5	✓	5	✓	✓	✓				✓					ONAR
18	174	174		0														
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: TULLY
ENTERED BY: MR
CHECKED BY:

Bottom Depth: 3615

Cast # down: 30

Cast # up:

Time	LOC	UTC
Begin:	1333	2033
Bottom:	1339	2039
End:	1354	2054

START POSITION (GPS)
LAT: 49 17.19
LONG: 134 40.44

BOTTOM POSITION (GPS)
LAT: 49 17.23
LONG: 134 40.52

END POSITION (GPS)
LAT: 49 17 14
LONG: 134 40.28

Comments: NUTS: BLUE BACK
OXY: BACK OF BLUE BOX

ROSETTE LOG

ANISSA'S CAST

MISSION ID: 2007-13 STATION: P16 CAST NUMBER: 32 UTC DATE (dd/mm/yyyy): 31/06/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	175			2000	- 2000													
2	176			2000	- 2000													No bottle confirmation
3	177			1000	- 1000													
4	178			1000	- 1000													
5	179			500	- 500													
6	180			500	- 500													
7	181			10	- 10													
8	182			10	- 10													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully
ENTERED BY: MR
CHECKED BY: DA

Bottom Depth: 3615

Cast # down: 32
Cast # up: 32

Time	LOC	UTC
Begin:	1606	2306
Bottom:	1632	2332
End:	1703	0003

START POSITION (GPS)
LAT: 49 17 05
LONG: 134 40 19

BOTTOM POSITION (GPS)
LAT: 49 16 80
LONG: 134 40 37

END POSITION (GPS)
LAT: 49 16 77
LONG: 134 40 38

Comments:

ROSETTE LOG

DEEP CAST

MISSION ID: 2007-13

STATION: P16

CAST NUMBER: 33

UTC DATE (dd/mm/yyyy):

8/06/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3		CHL		
1	175	715	2.828	Bot-10	✓ 3660	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	176	1105	2.795	3500	✓ 3500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	177	1158	2.536	3000	✓ 3000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	178	1146	2.010	2500	✓ 2500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	179	1175		2000	✓ 2000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6	180	1301	1.563	2000	✓ 2001	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7	181	1305	0.994	1500	✓ 1500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8	182	1307	0.454	1250	✓ 1250	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9	183	1311	0.354	1000	✓ 1000	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
10	184	1317	0.372	800	✓ 800	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
11	185	1319	0.375	800	✓ 800	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Two bottles tripped at 800 bottle.
12	186	1321	1.267	400	✓ 400	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
13	187	1322	2.527	300	✓ 300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
14	188	1325	3.386	250	✓ 251	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
15	189	1326	4.147	200	✓ 200	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
16	190	1327	4.553	175	✓ 175	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
17	191	1358	5.033	150	✓ 150	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
18	192	1351	5.343	125	✓ 125	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
19	193	1361	6.195	100	✓ 100	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
20	194	1362	7.096	75	✓ 75	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
21	195	1363	6.921	50	✓ 50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
22	196	1364	7.432	25	✓ 25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
23	197	1367	6.991	10	✓ 10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
24	198	1368	7.094	5	✓ 4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Comments: OXY: BLUE BOX
NUTS: RED RACK

SHIP: TULLY

ENTERED BY: MR

CHECKED BY:

Bottom Depth: 3615

Cast # down: 33

Cast # up: 33

Time LOC UTC

Begin: 1744 0044

Bottom: 1842 0142

End: 1946 0256

START POSITION (GPS)

LAT: 49 16 75

LONG: 34 40 49

BOTTOM POSITION (GPS)

LAT: 49 16 76

LONG: 34 40 42

END POSITION (GPS)

LAT: 49 16

LONG: 34 40

ROSETTE LOG

MISSION ID: 2007-13 STATION: P18 CAST NUMBER: 36 UTC DATE (dd/mm/yyyy): 4/6/2007

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	200			10	✓ 10													
2	201			10	✓ 10													
3	202	1404	6.919	10	✓ 10	✓	✓	✓				✓						
4	203			5	✓ 5	✓		✓				✓						
5																		
6																		
7																		
8																		
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22																		
23																		
24																		

SHIP: Tully

ENTERED BY: MA

CHECKED BY: DA

Bottom Depth: 3818

Cast # down: 36

Cast # up: 36

Time	LOC	UTC
Begin:	0548	1248
Bottom:	0611	1311
End:	0635	1335

START POSITION (GPS)

LAT: 49 25 99

LONG: 136 39 95

BOTTOM POSITION (GPS)

LAT: 49 25 99

LONG: 136 39 95

END POSITION (GPS)

LAT: 49 25 98

LONG: 136 40 01

Comments:

ROSETTE LOG

SHALLOW CAST

MISSION ID: 2007-13 STATION: P20 CAST NUMBER: 39 UTC DATE (dd/mm/yyyy): 4/6/2007

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3		HPV		
							OXY		DPH	ALK		CHL				
1	205			300	299			✓	✓							
2	206			200	200											
3	207			175	175									✓		
4	208			100	100							✓		✓		
5	209			75	75									✓✓		
6	210			50	50									✓		
7	211			40	40			✓						✓		
8	212			30	30											
9	213			25	25									4		
10	214			20	20											
11	215			15	15											
12	216	1297	7.133	10	10	✓	✓	✓	✓					✓✓		
13	217			10	10									✓✓		
14	218			5	5	✓										ONAR
15	219			5	5			✓	✓			✓		4		
16	220			0	1			✓	✓			✓				
17																
18																
19																
20																
21																
22																
23																
24																

SHIP: Tully
ENTERED BY: HIL
CHECKED BY: DA

Bottom Depth: 3945

Cast # down: 39

Cast # up: 39

Time	LOC	UTC
Begin:	1633	2333
Bottom:	1640	2340
End:	1658	2358

START POSITION (GPS)
LAT: 49 33 98
LONG: 138 40 05

BOTTOM POSITION (GPS)
LAT: 49 33 99
LONG: 138 40 01

END POSITION (GPS)
LAT: 49 33 99
LONG: 138 39 93

Comments: NUTRIENTS: ORANGE RACK
OXY FROM RED BOX

ROSETTE LOG

ANISSA'S CAST

MISSION ID: 2007-13 STATION: P20 CAST NUMBER: 41 UTC DATE (dd/mm/yyyy): 5/6/2007

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	221			2000	2000													
2	222			2000	2000													
3	223			1000	1003													
4	224			1000	1002													
5	225			500	500													
6	226			500	500													
7	227			10	10													
8	228			10	10													
9																		
10																		
11																		
12																		
13																		
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18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully

ENTERED BY: HK

CHECKED BY: DA

Bottom Depth: 3945

Cast # down: 5

Cast # up: 5

Time	LOC	UTC
Begin:	1746	0046
Bottom:	1815	0115
End:	1845	0145

START POSITION (GPS)

LAT: 49 33 99

LONG: 138 40 00

BOTTOM POSITION (GPS)

LAT: 49 33 92

LONG: 138 40 01

END POSITION (GPS)

LAT: 49 33 96

LONG: 138 39 99

ROSETTE LOG

DEEP CAST

MISSION ID: 2007-13 STATION: P20 CAST NUMBER: 43 UTC DATE (dd/mm/yyyy): 5/06/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3		5000				
1	229	1461	3.108	Bot-10	✓	4014	✓	✓	✓	✓				✓✓				
2	230	1256	2.950	3500	✓													
3	231	1267	2.921	3500	✓					✓								
4	232	1268	2.586	3000	✓									✓✓				
5	233	1374	2.020	2500	✓													
6	234	1273	1.353	2000	✓									✓✓				
7	235	1274	0.727	1500	✓									✓✓				
8	236	1276	0.389	1250	✓													
9	237	1278	0.406	1000	✓									✓✓				
10	238	1300	0.401	800	✓													
11	239	1318	0.678	600	✓			✓										
12	240	1323	1.196	400	✓									✓✓				
13	241	1272	2.149	300	✓													
14	242	1394	2.854	250	✓									✓✓				
15	243	1424	3.864	200	✓									✓✓				
16	244	1324	4.325	175	✓													
17	245	1443	4.893	150	✓									✓✓				
18	246	1391	5.531	125	✓													
19	247	1389	7.107	100	✓									✓✓				
20	248	1486	7.146	75	✓													
21	249	1382	7.036	50	✓									✓✓				
22	250	1306	7.178	25	✓													
23	251	1314	7.111	10	✓									✓✓				
24	252	1371	6.796	5	✓													

SHIP: Tully

ENTERED BY: MR

CHECKED BY: MR

Bottom Depth: 3945

Cast # down: 43

Cast # up: 43

Time	LOC	UTC
Begin:	1930	0230
Bottom:	2030	0330
End:	2132	0432

START POSITION (GPS)

LAT: 49 33 98

LONG: 138 40 00

BOTTOM POSITION (GPS)

LAT: 49 33 75

LONG: 138 40 21

END POSITION (GPS)

LAT: 49 33 71

LONG: 138 40 25

Comments: OXYGEN: RED BOX
NUTRIENTS: GREEN BACK

ROSETTE LOG

MISSION ID: 2007-13 STATION: P22 CAST NUMBER: 45 UTC DATE (dd/mm/yyyy): 5/6/2007

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	254			10	✓													
2	255			10	✓													
3	256	1404	6.897	10	✓	✓	✓	✓	✓			✓						
4	257			5	✓	✓		✓				✓						
5																		
6																		
7																		
8																		
9																		
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21																		
22																		
23																		
24																		

Comments:

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 4031

Cast # down: 45
Cast # up: 45

Time	LOC	UTC
Begin:	0718	1418
Bottom:	0742	1442
End:	0806	1506

START POSITION (GPS)
LAT: 49 41 97
LONG: 140 40 10

BOTTOM POSITION (GPS)
LAT: 49 41 94
LONG: 140 40 06

END POSITION (GPS)
LAT: 49 41 97
LONG: 140 40 09

ROSETTE LOG

MISSION ID: 2007-13 STATION: P24 CAST NUMBER: 48 UTC DATE (dd/mm/yyyy): 16/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	CI3	CHL						
1	259			10	10													
2	260			10	10													
3	261	1315	7.209	10	10	✓	✓	✓	✓			✓						
4	262			5	5	✓		✓				✓						
5																		
6																		
7																		
8																		
9																		
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23																		
24																		

Comments:

SHIP: Tully
ENTERED BY: MR
CHECKED BY: DA

Bottom Depth: 396

Cast # down: 6
Cast # up: 6

Time	LOC	UTC
Begin:	1805	0105
Bottom:	1837	0137
End:	1901	0201

START POSITION (GPS)
LAT: 49 50 22
LONG: 142 39 92

BOTTOM POSITION (GPS)
LAT: 49 50 36
LONG: 142 39 58

END POSITION (GPS)
LAT: 49 50 31
LONG: 142 39 39

ROSETTE LOG

VMP ROSE R B4 SUNSET #1

MISSION ID: 2007-13 STATION: P26 CAST NUMBER: 53 UTC DATE (dd/mm/yyyy): 7/06/2007

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken											
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3					
						OXY				ALK		CHL					
1	246			130	- 130												
2	267			120	- 120												
3	268			110	- 110												
4	269			100	- 100												
5	270			90	- 90												
6	271			80	- 80												
7	272			70	- 70												
8	273			60	- 60												
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

SHIP: Tully
ENTERED BY: DA
CHECKED BY: DA

Bottom Depth: 4

Cast # down: 53
Cast # up: 53

Time	LOC	UTC
Begin:	1937	0237
Bottom:	1941	0241
End:	1955	0255

START POSITION (GPS)
LAT: 50 00 05
LONG: 147 59 76

BOTTOM POSITION (GPS)
LAT: 50 00 05
LONG: 144 59 80

END POSITION (GPS)
LAT: 50 00 02
LONG: 144 59 91

Comments:

ROSETTE LOG

MISSION ID: 2007-13 STATION: P26 CAST NUMBER: 55 UTC DATE (dd/mm/yyyy): 7/06/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken											
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3					
							OXY				ALK		CHL				
1	274			130	- 130												
2	275			120	- 120												
3	276			110	- 110												
4	277			100	- 100												
5	278			90	- 90												
6	279			80	- 80												
7	280			70	- 70												
8	281			60	- 60												
9																	
10																	
11																	
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20																	
21																	
22																	
23																	
24																	

Comments:

SHIP: Twilly
ENTERED BY: DA
CHECKED BY: DA

Bottom Depth: 4125

Cast # down: 55
Cast # up: 55

Time	LOC	UTC
Begin:	0017	07:17
Bottom:	0021	07:21
End:	0032	07:32

START POSITION (GPS)
LAT: 49 58 77
LONG: 145 02 01

BOTTOM POSITION (GPS)
LAT: 49 58 77
LONG: 145 02 03

END POSITION (GPS)
LAT: 49 59 74
LONG: 145 02 04

ROSETTE LOG

VMP ROSETTE 34 SUNRISE #1

MISSION ID: 2007-13 STATION: P26 CAST NUMBER: 59 58 UTC DATE (dd/mm/yyyy): 7/6/2007

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3				
						OXY				ALK		CHL				
1	282			100	- 100											
2	283			90	- 90											
3	284			80	- 80											
4	285			70	- 70											
5	286			60	- 60											
6	287			50	- 50											
7	288			40	- 40											
8	289			30	- 30											
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

SHIP: Tully
ENTERED BY: DA
CHECKED BY: DA

Bottom Depth: 4125

Cast # down: 59
Cast # up: 59

Time	LOC	UTC
Begin:	0357	1054
Bottom:	0358	1058
End:	0409	1109

START POSITION (GPS)
LAT: 50 00 01
LONG: 144 59 99

BOTTOM POSITION (GPS)
LAT: 50 00 02
LONG: 145 00 02

END POSITION (GPS)
LAT: 50 00 00
LONG: 144 59 98

Comments:

ROSETTE LOG

VMP ROSETTE

AFTER SUNRISE #1

MISSION ID: 2007-13 STATION: P26 CAST NUMBER: 60 UTC DATE (dd/mm/yyyy): 7/6/07

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	290			100	✓												
2	291			90	✓												
3	292			80	✓												
4	293			70	✓												
5	294			60	✓												
6	295			50	✓												
7	296			40	✓												
8	297			30	✓												
9																	
10																	
11																	
12																	
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17																	
18																	
19																	
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22																	
23																	
24																	

SHIP: TULLY
ENTERED BY: MR
CHECKED BY: MR

Bottom Depth: 4265

Cast # down: 60
Cast # up:

Time	LOC	UTC
Begin:	0806	1506
Bottom:	0811	1511
End:	0820	1520

START POSITION (GPS)
LAT: 49° 57.86
LONG: 145° 00.26

BOTTOM POSITION (GPS)
LAT: 49° 57.88
LONG: 145° 00.24

END POSITION (GPS)
LAT: 49° 57.85
LONG: 145° 00.21

Comments:

ROSETTE LOG

CAST AT MOORING SITE

MISSION ID: 2007-13 STATION: P26/Mooney CAST NUMBER: 62 UTC DATE (dd/mm/yyyy): 07/06/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3							
							OXY			ALK		CHL							
1	298			30	✓														
2	299			20	✓														
3	300			10	✓														
4	301			5	✓														
5	302			0	✓														
6																			
7																			
8																			
9																			
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24																			

SHIP: TULLY
ENTERED BY: MR
CHECKED BY: MR

Bottom Depth: 4235

Cast # down: 62

Cast # up:

Time	LOC	UTC
Begin:	1526	2226
Bottom:	1534	2234
End:	1542	2242

START POSITION (GPS)
LAT: 50 07 68
LONG: 144 50.81

BOTTOM POSITION (GPS)
LAT: 50 07.60
LONG: 144 50.79

END POSITION (GPS)
LAT: 50 07 53
LONG: 144 50.76

Comments:

ROSETTE LOG

MISSION ID: 2007-13 STATION: P26 CAST NUMBER: 63 UTC DATE (dd/mm/yyyy): 08/06/2007

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	303			100	✓												
2	304			90	✓												
3	305			80	✓												
4	306			70	✓												
5	307			60	✓												
6	308			50	✓												
7	309			40	✓												
8	310			30	✓												
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Comments:

SHIP: TULLY
ENTERED BY: MR
CHECKED BY:

Bottom Depth: 4222

Cast # down: 63
Cast # up:

Time	LOC	UTC
Begin:	2132	0432
Bottom:	2137	0437
End:	2147	0447

START POSITION (GPS)
LAT: 50 00 31
LONG: 144 58 74

BOTTOM POSITION (GPS)
LAT: 50 00 28
LONG: 144 58 70

END POSITION (GPS)
LAT: 50 00 19
LONG: 144 58 62

ROSETTE LOG

MISSION ID: 2007-13 STATION: P26 CAST NUMBER: 65 UTC DATE (dd/mm/yyyy): 08/06/2007

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	311			100	- 100												
2	312			90	- 90												
3	313			80	- 80												
4	314			70	- 70												
5	315			60	- 60												
6	316			50	- 50												
7	317			40	- 39												
8	318			30	- 30												
9																	
10																	
11																	
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22																	
23																	
24																	

Comments:

SHIP: TULLY

ENTERED BY: MR

CHECKED BY: DA

Bottom Depth: 4215

Cast # down: 65

Cast # up: 65

Time	LOC	UTC
Begin:	0102	0802
Bottom:	0106	0806
End:	0117	0817

START POSITION (GPS)

LAT: 49 59 03

LONG: 145 00 21

BOTTOM POSITION (GPS)

LAT: 49 59 03

LONG: 145 00 24

END POSITION (GPS)

LAT: 49 59 01

LONG: 145 00 15

ROSETTE LOG

SUNRISE DMS CAST + SHALLOW ONAR

MISSION ID: 2007-13 STATION: P26 CAST NUMBER: 66 UTC DATE (dd/mm/yyyy): 8/6/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3		HP					
						OXY		DMS		ALK		CHL							
1	319			300	- 300			✓	✓										
2	320			250	- 250	✓												ONAR	
3	321			200	- 200			✓	✓										
4	322			175	- 175			✓	✓					✓					
5	323			100	- 100	✓												ONAR	
6	324			100	- 100			✓	✓			✓	✓						
7	325			75	- 74			✓	✓			✓	✓						
8	326			50	- 50	✓												ONAR	
9	327			50	- 50			✓	✓			✓	✓						
10	328			40	- 40			✓	✓			✓	✓						
11	329			30	- 30			✓	✓			✓							
12	330			25	- 25			✓	✓			✓	✓						
13	331			20	- 20			✓	✓			✓							
14	332			20	- 20	✓												ONAR	
15	333			15	- 15			✓	✓			✓							
16	334			10	- 10			✓	✓			✓	✓						
17	335			5	- 5	✓												ONAR	
18	336			5	- 5			✓	✓			✓	✓						
19	337			0	- 2			✓	✓			✓							
20																			
21																			
22																			
23																			
24																			

Comments: NUTRIENTS: BLUE RACK

SHIP: TULLY
ENTERED BY: MR
CHECKED BY: DA

Bottom Depth: 4222

Cast # down: 66
Cast # up: 66

Time	LOC	UTC
Begin:	0700	400
Bottom:	0705	1405
End:	0725	1425

START POSITION (GPS)
LAT: 50 00 02
LONG: 145 00 07

BOTTOM POSITION (GPS)
LAT: 50 00 03
LONG: 145 00 09

END POSITION (GPS)
LAT: 50 00 04
LONG: 145 00 09

ROSETTE LOG

UBC + ONAR DEEP CAST

MISSION ID: 2007-13 STATION: P26 CAST NUMBER: 67 UTC DATE (dd/mm/yyyy): 8/6/07

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	338			4000	✓													ONAR
2	339			3000	✓													ONAR
3	340			2000	✓													ONAR
4	341			2000	✓													ANISSA
5	342			2000	✓													ANISSA
6	343			1000	✓													ANISSA
7	344			1000	✓													ANISSA
8	345			1000	✓													ONAR
9	346			500	✓													ONAR
10	347			500	✓													ANISSA
11	348			500	✓													ANISSA
12	349			10	✓													ANISSA
13	350			10	✓													ANISSA
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: TULLY
ENTERED BY: MR
CHECKED BY: MR

Bottom Depth: 4222

Cast # down: 67
Cast # up:

Time	LOC	UTC
Begin:	1040	1740
Bottom:	1128	1828
End:	1229	1929

START POSITION (GPS)
LAT: 49 59.98
LONG: 145 00.00

BOTTOM POSITION (GPS)
LAT: 49 59.88
LONG: 144 59.97

END POSITION (GPS)
LAT: 50 00.03
LONG: 144 59.96

ROSETTE LOG

NOON DMS CAST

MISSION ID: 2007-13 STATION: P26 CAST NUMBER: 68

UTC DATE (dd/mm/yyyy):

8/6/07

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	CI3	CHL	phyto						
1	351			300	✓			✓	✓									
2	352			200	✓			✓	✓									
3	353			175	✓							✓						
4	354			100	✓						✓	✓						
5	355			75	✓							✓						
6	356			50	✓							✓						Bottle did not close
7	357			40	✓							✓						
8	358			30	✓													
9	359			25	✓							4						
10	360			20	✓			✓										
11	361			15	✓													
12	362			10	✓	7.266	✓	✓	✓	✓		✓	✓					
13	363			10	✓							✓	✓					Melanie
14	364			5	✓			✓	✓			✓	✓					
15	365			5	✓							✓	✓	✓				Melanie
16	366			0				✓	✓			✓						
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: TULLY

ENTERED BY: MR

CHECKED BY: MR

Bottom Depth: 4222

Cast # down: 68

Cast # up:

Time	LOC	UTC
Begin:	1413	2113
Bottom:	1419	2119
End:	1434	2134

START POSITION (GPS)

LAT: 50 00 03

LONG: 144 59 81

BOTTOM POSITION (GPS)

LAT: 49 59 94

LONG: 144 59 83

END POSITION (GPS)

LAT: 49 59 88

LONG: 144 59 99

Comments: NUTRIENTS: GREEN RACK

OXY: BACK OF GR BOX

ROSETTE LOG

DEEP IOS CAST

MISSION ID: 2007-13

STATION: P26

CAST NUMBER: 70

UTC DATE (dd/mm/yyyy):

8/06/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3		GAX3		
1	367	1110	3.361	Bot 70	✓ 4290	✓		✓		✓				✓✓		
2	368	1138	3.146	4000	✓ 4000											
3	369	1142	2.980	3500	✓ 3500			✓								
4	370	1280	2.580	3000	✓ 3000					✓				✓✓		
5	371	1329	2.050	2500	✓ 2500											
6	372	1349	1.342	2000	✓ 2000									✓✓		
7	373	1375	0.638	1500	✓ 1500									✓✓		
8	374	1376	0.417	1250	✓ 1250											
9	375	1453	0.386	1000	✓ 1000									✓✓		
10	376	1393	0.372	800	✓ 800											
11	377	1386	0.466	600	✓											
12	378	1399	0.810	400	✓									✓✓		
13	379	1410	1.618	300	✓											
14	380	1411	1.687	250	✓									✓✓		
15	381	1421	2.659	200	✓									✓✓		
16	382	1440	2.885	175	✓											
17	383	1441	2.896	150	✓									✓✓		
18	384	1442	2.932	125	✓											
19	385	1445	3.959	100	✓									✓✓		
20	386	1446	7.076	75	✓											
21	387	1447	7.233	50	✓									✓✓		
22	388	1457	7.223	25	✓											
23	389	1448	7.141	10	✓									✓✓		
24	390	1451	7.171	5	✓											

SHIP: TULLY

ENTERED BY: MR

CHECKED BY: DA / MR

Bottom Depth: 4212

Cast # down: 70

Cast # up: 70

Time	LOC	UTC
Begin:	1808	0108
Bottom:	1903	0203
End:	2020	0320

START POSITION (GPS)

LAT: 49 59 97

LONG: 148 59 91

4

BOTTOM POSITION (GPS)

LAT: 49 59 99

LONG: 148 59 43

4

END POSITION (GPS)

LAT: 50 00 13

LONG: 145 00 16

Comments: OXYGEN: GREEN BOX
NUTRIENTS: WHITE RACK

ROSETTE LOG

MISSION ID: 2007-13

STATION: P26

CAST NUMBER: 71

UTC DATE (dd/mm/yyyy):

9/6/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		HPK				
1	391			300	✓			✓	✓									
2	392			200	✓			✓	✓									
3	393			175	✓									✓				
4	394			100	✓								✓	✓				
5	395			75	✓								✓	✓				
6	396			50	✓								✓	✓				
7	397			40	✓								✓	✓				
8	398			30	✓													
9	399			25	✓									✓				
10	400			20	✓													
11	401			15	✓													
12	402			10	✓									✓	✓			
13	403			5	✓			✓	✓				✓	✓				
14	404			0				✓	✓				✓	✓				
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: TULLY

ENTERED BY: MR

CHECKED BY: MR

Bottom Depth:

4222

Cast # down:

71

Cast # up:

Time

LOC

UTC

Begin:

2206

0506

Bottom:

2211

0511

End:

2226

0526

START POSITION (GPS)

LAT:

50 00.03

LONG:

145 00.14

BOTTOM POSITION (GPS)

LAT:

49 59.99

LONG:

145 00.21

END POSITION (GPS)

LAT:

50 00.11

LONG:

145 00.32

Comments: NUTS: BROWN RACK

ROSETTE LOG

MISSION ID: 2007-13 STATION: P26 CAST NUMBER: 72 UTC DATE (dd/mm/yyyy): 9/16/2007

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	405			100	✓ 100													
2	406			90	✓ 90													
3	407			80	✓ 80													
4	408			70	✓ 70													
5	409			60	✓ 59													
6	410			50	✓ 50													
7	411			40	✓ 40													
8	412			30	✓ 30													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: TULLY

ENTERED BY: MR

CHECKED BY: ML

Bottom Depth: 4221

Cast # down: 72

Cast # up: 72

Time	LOC	UTC
Begin:	0334	1034
Bottom:	0338	1038
End:	0348	1048

START POSITION (GPS)

LAT: 50 00 02

LONG: 145 00 01

BOTTOM POSITION (GPS)

LAT: 50 00 00

LONG: 145 00 05

END POSITION (GPS)

LAT: 50 00 02

LONG: 145 00 01

ROSETTE LOG

MISSION ID: 2007-13

STATION: P26

CAST NUMBER: 74

UTC DATE (dd/mm/yyyy): 9/6/2007

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK		CHL						
1	413			100	✓													
2	414			90	✓													
3	415			80	✓													
4	416			70	✓													
5	417			60	✓													
6	418			50	✓													
7	419			40	✓													
8	420			30	✓													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: TULLY

ENTERED BY: MR

CHECKED BY: MR

Bottom Depth: 4221

Cast # down: 74

Cast # up:

Time	LOC	UTC
Begin:	0751	1451
Bottom:	0755	1455
End:	0805	1505

START POSITION (GPS)

LAT: 50 02 25

LONG: 145 01 84

BOTTOM POSITION (GPS)

LAT: 50 02 23

LONG: 145 01 84

END POSITION (GPS)

LAT: 50 02 25

LONG: 145 01 83

ROSETTE LOG

MISSION ID: 2007-13 STATION: PIE 93 CAST NUMBER: 75 UTC DATE (dd/mm/yyyy): 10/16/2007

[illegible]**Comments:**

SHIP:	TULLY
ENTERED BY:	MR
CHECKED BY:	DA

Bottom Depth: 4770

Cast # down:	75
Cast # up:	75

Time	LOC	UTC
Begin:	0452	1152
Bottom:	0548	1248
End:	0721	1421

START POSITION (GPS)	
LAT:	46 59.95
LONG:	144 40.19

BOTTOM POSITION (GPS)	
LAT:	46 59 98
LONG:	144 40 18

END POSITION (GPS)	
LAT:	47 00 04
LONG:	144 40 19

ROSETTE LOG

MISSION ID: 2007-13 STATION: S4 CAST NUMBER: 77 UTC DATE (dd/mm/yyyy): 11/06/2007

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	446	1110	3.491	Bot - 20	- 4575		✓	✓										Bot - 10
2	447	1138	3.236	4000	- 4000	✓												
3	448	1142	3.185	3500	- 3500	✓												
4	449	1280	2.616	3000	- 3000	✓												
5	450	1329	2.006	2500	- 2500	✓												
6	451	1349	1.302	2000	- 2000	✓												
7	452	1375	0.558	1500	- 1500													
8	453	1376	0.435	1250	- 1250													*
9	454	1453	0.398	1000	- 1000													
10	455	1393	0.529	800	- 800													
11	456	1386	0.583	600	- 600													
12	457	1399	1.384	400	- 401													
13	458	1410	2.258	300	- 300													
14	459	1411	2.809	250	- 250													
15	460	1421	3.534	200	- 200													
16	461	1440	3.950	175	- 175													
17	462	1441	4.870	150	- 150													
18	463	1442	6.483	125	- 125													
19	464	1445	7.232	100	- 101			✓				✓						
20	465	1446	7.302	75	- 75							✓						
21	466	1447	7.201	50	- 50							✓						
22	467	1457	7.089	25	- 25							✓						
23	468	1448	7.067	10	- 10							✓						
24	469	1451	7.083	5		✓	✓	✓				✓						

Comments: * Took nutrient sample before OXY - oops!

SHIP: Tully
 ENTERED BY: MR
 CHECKED BY: OA

Bottom Depth: 4467

Cast # down: 77
 Cast # up: 77

Time	LOC	UTC
Begin:	1712	0012
Bottom:	1814	0114
End:	1933	0233

START POSITION (GPS)
 LAT: 47 59 98
 LONG: 144 59 93

BOTTOM POSITION (GPS)
 LAT: 47 59 91
 LONG: 145 00 01

END POSITION (GPS)
 LAT: 47 59 76
 LONG: 145 00 48

ROSETTE LOG

VMP ROSE ID B4 SUNSET H3 PROFILE

MISSION ID: 2007-13 STATION: S-H S3 CAST NUMBER: 78 UTC DATE (dd/mm/yyyy): 11/06/2007

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	470			100	✓													
2	471			90	✓													
3	472			80	✓													
4	473			70	✓													
5	474			60	✓													
6	475			50	✓													
7	476			40	✓													
8	477			30	✓													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: TULLY
ENTERED BY: MR
CHECKED BY: MR

Bottom Depth: 4340

Cast # down: 78
Cast # up:

Time	LOC	UTC
Begin:	2157	0457
Bottom:	2202	0502
End:	2211	0511

START POSITION (GPS)
LAT: 48 20.54
LONG: 144 59.38

BOTTOM POSITION (GPS)
LAT: 48 20.52
LONG: 144 59.39

END POSITION (GPS)
LAT: 48 20.42
LONG: 144 59.19

Comments:

ROSETTE LOG

YNP After sunset

MISSION ID: 2007-13 STATION: South S3 CAST NUMBER: 80 UTC DATE (dd/mm/yyyy): 11/06/2007

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK		CHL						
1	478			100	-													
2	479			90	✓													
3	480			80	✓													
4	481			70	✓													
5	482			60	✓													
6	483			50	✓													
7	484			40	✓													
8	485			30	✓													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Tully
ENTERED BY: DA
CHECKED BY: DA

Bottom Depth: 4340

Cast # down: 80
Cast # up: 80

Time	LOC	UTC
Begin:	0107	0807
Bottom:	0111	0811
End:	0120	0820

START POSITION (GPS)
LAT: 48 23 36
LONG: 144 59 79

BOTTOM POSITION (GPS)
LAT: 48 23 34
LONG: 144 59 75

END POSITION (GPS)
LAT: 48 23 32
LONG: 144 59 61

ROSETTE LOG

VNP Before Sunrise

MISSION ID: 2007-13

STATION: South 53

CAST NUMBER: 81

UTC DATE (dd/mm/yyyy):

11/06/2007

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		ALK		CHL		
1	486			100	/													
2	487			90	/													
3	488			80	/													
4	489			70	/													
5	490			60	/													
6	491			50	/													
7	492			40	/													
8	493			30	/													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully

ENTERED BY: DA

CHECKED BY: DA

Bottom Depth:

Cast # down: 81

Cast # up: 81

Time LOC UTC

Begin: 0335 1035

Bottom: 0338 1038

End: 0347 1047

START POSITION (GPS)

LAT: 48 23 37

LONG: 144 59 91

BOTTOM POSITION (GPS)

LAT: 48 23 37

LONG: 144 59 90

END POSITION (GPS)

LAT: 48 23 35

LONG: 144 59 92

Comments:

ROSETTE LOG

VNP After Sunrise

MISSION ID: 2007-13 STATION: South S3 CAST NUMBER: 83 UTC DATE (dd/mm/yyyy): 11/06/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	494			100	✓													
2	495			90	✓													
3	496			80	✓													
4	497			70	✓													
5	498			60	✓													
6	499			50	✓													
7	500			40	✓													
8	501			30	✓													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully
 ENTERED BY: DA
 CHECKED BY: DA

Bottom Depth: 4374

Cast # down: 83
 Cast # up: 83

Time	LOC	UTC
Begin:	<u>0743</u>	<u>1443</u>
Bottom:	<u>0747</u>	<u>1447</u>
End:	<u>0757</u>	<u>1457</u>

START POSITION (GPS)
 LAT: 48 26 64
 LONG: 145 00 11

BOTTOM POSITION (GPS)
 LAT: 48 26 61
 LONG: 145 00 09

END POSITION (GPS)
 LAT: 48 26 56
 LONG: 145 00 03

Comments: _____

ROSETTE LOG

CALIBRATION CAST

MISSION ID: 2007-13 STATION: S3 CAST NUMBER: 84 UTC DATE (dd/mm/yyyy): 11/6/2007

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	502			3000	✓				✓✓							
2	503			3000	✓				✓✓							
3	504				✓				✓✓							
4	505				✓				✓✓							
5	506				✓				✓✓							
6	507				✓											
7	508				✓											
8	509				✓											
9	510				✓											
10	511				✓											
11	512				✓											
12	513				✓											
13	514				✓											
14	515				✓											
15	516				✓											
16	517				✓											
17	518				✓											
18	519				✓											
19	520				✓											
20	521				✓											
21	522			3000	✓											
22	523			3000	✓											
23	524			3000	✓											
24	525			5		✓		✓				✓				

Comments:

SHIP: TULLY
ENTERED BY: MR
CHECKED BY: MR

Bottom Depth: 4337

Cast # down: 84
Cast # up:

Time	LOC	UTC
Begin:	0833	1533
Bottom:	0927	1627
End:	1030	1730

START POSITION (GPS)
LAT: 48 29 98
LONG: 145 00 02

BOTTOM POSITION (GPS)
LAT: 48 30 02
LONG: 145 00 16

END POSITION (GPS)
LAT: 48 29 98
LONG: 144 59 99

ROSETTE LOG

MISSION ID: 2007-13 STATION: S2 CAST NUMBER: 85/86 UTC DATE (dd/mm/yyyy): 11/06/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	526			Bot 10	✓ 44.24													may or may not have fired
1 2	527	1461	3.282	4000	✓	✓												↑ no bottom bottle
2 3	528	1256	3.005	3500	✓	✓												
3 4	529	1267	2.606	3000	✓	✓												
4 5	530	1268	2.024	2500	✓													
5 6	531	1374	1.362	2000	✓													
6 7	532	1273	0.606	1500	✓													
7 8	533	1274	0.388	1250	✓													
8 9	534	1276	0.328	1000	✓													
9 10	535	1278	0.376	800	✓													
10 11	536	1300	0.492	600	✓													
11 12	537	1318	0.802	400	✓													
12 13	538	1323	1.332	300	✓													
13 14	539	1272	1.814	250	✓													
14 15	540	1394	2.515	200	✓													
15 16	541	1424	2.771	175	✓													
16 17	542	1324	3.559	150	✓													
17 18	543	1443	3.782	125	✓													
18 19	544	1391	4.895	100	✓													
19 20	545	1389	7.237	75	✓													
20 21	546	1486	7.222	50	✓													
21 22	547	1382	6.885	25	✓													
22 23	548	1306	7.188	10	✓													
23 24	549	1314	7.120	5		✓	✓	✓										→ Did not trip. / wasn't tripped

SHIP: TULLY
 ENTERED BY: MR
 CHECKED BY: MA

Bottom Depth: 4333

Cast # down: 85
 Cast # up: 86

Time	LOC	UTC
Begin:	13:50	20:50
Bottom:	14:51	21:51
End:	16:15	23:15

START POSITION (GPS)
 LAT: 49 0.036
 LONG: 145 0.101

BOTTOM POSITION (GPS)
 LAT: 48 59.995
 LONG: 144 59.982

END POSITION (GPS)
 LAT: 49 00 20
 LONG: 144 59 02

Comments: NUTRIENTS: RED RACK
OXYGEN: RED BOX
* 1 fired, 24 was left over at surface.

ROSETTE LOG

MISSION ID: 2007-13

STATION: P32

CAST NUMBER: 90

UTC DATE (dd/mm/yyyy):

12/06/2007

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	552	1212	3.304	Bot-10	✓														
2	553	1216	3.186	4000	✓														
3	554	1223	2.940	3500	✓														
4	555	1228	2.552	3000	✓														
5	556	1238	2.003	2500	✓														
6	557	1241	1.421	2000	✓														
7	558	1247	0.644	1500	✓														
8	559	1249	0.369	1250	✓														
9	560	1403	0.335	1000	✓														
10	561	1281	0.390	800	✓														
11	562	1313	0.483	600	✓														
12	563	1338	0.768	400	✓														
13	564	1344	1.173	300	✓														
14	565	1347	1.658	250	✓														
15	566	1354	2.493	200	✓														
16	567	1356	2.904	175	✓														
17	568	1360	2.321	150	✓														
18	569	1366	4.012	125	✓														
19	570	1384	6.560	100	✓														
20	571	1430	7.246	75	✓														
21	572	1426	7.161	50	✓														
22	573	1427	7.174	25	✓														
23	574	1428	7.182	10	✓														
24	575	1429	7.196	5	✓														

SHIP: TULLY

ENTERED BY: MR

CHECKED BY: MA

Bottom Depth: 4229

Cast # down: 90

Cast # up: 90

Time LOC UTC

Begin: 1123 1823

Bottom: 1215 1915

End: 1324 2024

START POSITION (GPS)

LAT: 50 54.01

LONG: 145 00 02

BOTTOM POSITION (GPS)

LAT: 50 54.01

LONG: 145 00 06

END POSITION (GPS)

LAT: 50 54.01

LONG: 145 00 01

Comments: NUTRIENTS ORANGE RACK

OXYGEN: BLACK BOX

ROSETTE LOG

MISSION ID: 200713 STATION: Z2 CAST NUMBER: 92 UTC DATE (dd/mm/yyyy): 13/16/07

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	577	715	3.130	Bot-10	✓ 3844		✓	✓										
2	578	1105	2.957	3500	✓	✓												
3	579	1158	2.537	3000	✓	✓												
4	580	1146	2.015	2500	✓	✓												
5	581	1175	1.384	2000	✓													
6	582	1300	0.656	1500	✓													
7	583	1305	0.467	1250	✓			✓										
8	584	1307	0.400	1000	✓													
9	585	1311	0.426	800	✓													
10	586	1317	0.462	600	✓													
11	587	1319	0.691	400	✓													
12	588	1321	1.154	300	✓													
13	589	1322	1.473	250	✓													
14	590	1325	2.027	200	✓													
15	591	1326	2.726	175	✓													
16	592	1327	3.087	150	✓													
17	593	1358	3.685	125	✓													
18	594	1351	5.020	100	✓													
19	595	1361	7.131	75	✓													
20	596	1362	7.257	50	✓													
21	597	1363	7.276	25	✓													
22	598	1364	7.291	10	✓													
23	599	1367	7.034	5	✓	✓	✓	✓										
24																		

Comments: NUTRIENTS: BLUE BACK
OXYGEN: BLUE BOX

SHIP: TULLY
ENTERED BY: MR
CHECKED BY: MR

Bottom Depth: 3781

Cast # down: 92

Cast # up:

Time	LOC	UTC
Begin:	2106	0406
Bottom:	2200	0500
End:	2307	0607

START POSITION (GPS)
LAT: 51° 47' 62"
LONG: 145° 00' 02"

BOTTOM POSITION (GPS)
LAT: 51° 47' 49"
LONG: 144° 59' 98"

END POSITION (GPS)
LAT: 51° 47' 50"
LONG: 145° 00' 00"

ROSETTE LOG

MISSION ID: 2007-13 STATION: 24 CAST NUMBER: 94 UTC DATE (dd/mm/yyyy): 12/06/2007

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	601	1461	3.322	Bot-10	✓ 4120		✓	✓										
2	602	1256	3.005	3500	✓	✓												
3	603	1267	2.521	3000	✓	✓												
4	604	1268	1.920	2500	✓	✓												
5	605	1374	1.313	2000	✓													
6	606	1273	0.697	1500	✓													
7	607	1274	0.517	1250	✓													
8	608	1276	0.410	1000	✓													
9	609	1278	0.420	800	✓													
10	610	1300	0.480	600	✓				✓									
11	611	1318	0.598	400	✓													
12	612	1323	0.934	300	✓													
13	613	1272	1.230	250	✓													LOTS OF HAIR WRAPPED AROUND O-RINGS LEAKING
14	614	1394	1.853	200	✓													
15	615	1424	2.376	175	✓													
16	616	1324	2.840	150	✓													
17	617	1443	3.528	125	✓													
18	618	1391	4.386	100	✓								✓					
19	619	1389	7.225	75	✓								✓					
20	620	1486	7.268	50	✓								✓					
21	621	1382		7.069 25	✓								✓					
22	622	1306		7.299 10	✓								✓					
23	623	1314		7.284 5	✓	✓	✓	✓					✓					
24																		

Comments: OXY - Red box NUTRIENTS GREEN RACK

SHIP: Tully
ENTERED BY: DA
CHECKED BY: MR

Bottom Depth: 4035

Cast # down: 94
Cast # up: 94

Time	LOC	UTC
Begin:	0639	1339
Bottom:	0722	1422
End:	0845	1545

START POSITION (GPS)
LAT: 52 39 02
LONG: 145 00 08

BOTTOM POSITION (GPS)
LAT: 52 38 48
LONG: 144 59 97

END POSITION (GPS)
LAT: 52 38 97
LONG: 145 00 01

ROSETTE LOG

MISSION ID: 2007-13 STATION: Z6 CAST NUMBER: 98 UTC DATE (dd/mm/yyyy): 14/06/2007

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	625	715	3.332	Bot-10	4107		✓	✓										
2	626	1105	2.990	3500	✓	✓	✓	✓										
3	627	1158	2.575	3000	✓	✓	✓	✓										
4	628	1146	1.951	2500	✓	✓	✓	✓										
5	629	1175	1.072	2000	✓													
6	630	1361	0.669	1500	✓													
7	631	1305	0.492	1250	✓													
8	632	1307	0.400	1000	✓													
9	633	1311	0.438	800	✓													
10	634	1317	0.451	600	✓													
11	635	1319	0.586	400	✓													
12	636	1321	0.846	300	✓													
13	637	1322	1.103	250	✓													
14	638	1325	1.599	200	✓													
15	639	1326	1.708	175	✓													
16	640	1327	2.375	150	✓													
17	641	1358	3.197	125	✓													
18	642	1351	4.793	100	✓							✓						
19	643	1361	6.652	75	✓							✓						
20	644	1362	7.298	50	✓							✓						
21	645	1363	7.258	25	✓							✓						
22	646	1364	7.253	10	✓							✓						
23	647	1367	7.207	5		✓	✓	✓				✓						
24																		

Comments: NUTS - Light Blue rock
OXY - BLUE box

SHIP: TULLY
ENTERED BY: MR
CHECKED BY: DA

Bottom Depth: 4029

Cast # down: 98
Cast # up: 98

Time	LOC	UTC
Begin:	0115	2304
Bottom:	0215	0001
End:	0320	

START POSITION (GPS)
LAT: 53 33 11
LONG: 145 00 85

BOTTOM POSITION (GPS)
LAT: 53 33 44
LONG: 145 01 40

END POSITION (GPS)
LAT: 53 33 47
LONG: 145 02 01

ROSETTE LOG

MISSION ID: 2007-13 STATION: 28 CAST NUMBER: 100 UTC DATE (dd/mm/yyyy): 14/6/07

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	649	1110	1.051	Bot-10	✓ 4169													Problem with colorimeter don't trust value
2	650	1138	2.984	3520	✓	✓												
3	651	1142	2.448	3000	✓	✓												
4	652	1280	1.627	2500	✓	✓												
5	653	1329	1.270	2000	✓													
6	654	1349	0.642	1500	✓													
7	655	1375	0.515	1250	✓													
8	656	1376	0.526	1000	✓													
9	657	1453	0.373	800	✓													
10	658	1893	0.401	600	✓													
11	659	1386	0.675	400	✓													
12	660	1399	0.950	300	✓													
13	661	1410	1.196	250	✓													
14	662	1411	1.640	200	✓													
15	663	1421	1.909	175	✓													
16	664	1440	2.350	150	✓													
17	665	1441	2.755	125	✓													
18	666	1442	5.606	100	✓							✓						
19	667	1445	7.287	75	✓							✓						
20	668	1446	7.350	50	✓							✓						
21	669	1447	7.285	25	✓							✓						
22	670	1457	7.217	10	✓							✓						
23	671	1448	7.228	5	✓							✓						
24																		

Comments: NUTRIENTS: BROWN RACK
OXYGEN: Green box

SHIP: TULLY
ENTERED BY: MR
CHECKED BY: DA

Bottom Depth: 4081

Cast # down: 100
Cast # up: 100

Time	LOC	UTC
Begin:	0407	1107
Bottom:	0455	1155
End:	0614	1314

START POSITION (GPS)
LAT: 54 26.97
LONG: 144 59.96

BOTTOM POSITION (GPS)
LAT: 54 27.02
LONG: 145 00.05

END POSITION (GPS)
LAT: 54 26.98
LONG: 144 59.99