

ROSETTE LOG

MISSION ID: 2005-21 STATION: SI03 CAST NUMBER: 1 UTC DATE (dd/mm/yyyy): 16/08/2005

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	1	364	0.000	Bot-5		✓	✓	✓										Stink ANOXIC
2	2	572	0.000	200		✓												Stink "
3	3	657	0.000	175														Stink "
4	4	708	0.000	150	149													Stink? ANOXIC
5	5	709	0.000	125	125													ANOXIC
6	6	715	0.691	100	99			✓										
7	7	727	0.895	75	74													
8	8	1105	1.380	50	49													
9	9	1110	3.471	25	24													
10	10	1126	4.661	10	10													
11	11	1128	6.234	5	5	✓	✓	✓			✓							
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: OXYGEN: BLUE BOX; NUTRIENTS BLUE RACK

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

Bottom Depth: 229 m

Cast # down: 16
Cast # up: 16

Time	LOC	UTC
Begin:		2228
Bottom:		2233
End:		2248

START POSITION (GPS)
LAT: 48 35 62
LONG: 123 30 05

BOTTOM POSITION (GPS)
LAT: 48 35 63
LONG: 123 30 05

END POSITION (GPS)
LAT: 48 35 63
LONG: 123 30 03

ROSETTE LOG

MISSION ID: 2005-21

STATION: P2

CAST NUMBER: 3

UTC DATE (dd/mm/yyyy): 17 08 2005

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	13	1346	1.935	Bot-5	✓	115	✓	✓	✓									
2	14	1347	2.443	100	✓													
3	15	1349	3.424	75	✓													
4	16	1350	3.430	75	✓													
5	17	1351	4.308	50	✓													
6	18	1352	5.417	25	✓													
7	19	1353	6.451	10	✓													
8	20	1354	6.493	5	✓													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: OXYGEN GREEN BOX; NUTRIENTS GREEN RACK

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

Bottom Depth: 117

Cast # down: 3
Cast # up: 3

Time LOC UTC
Begin: 0731 0231
Bottom: 0735 0235
End: 14.44

START POSITION (GPS)
LAT: 48 35 854
LONG: 125 59 975

BOTTOM POSITION (GPS)
LAT: 48 35 803
LONG: 125 59 993

END POSITION (GPS)
LAT: 48 35 718
LONG: 125 59 958

ROSETTE LOG

MISSION ID: 2005-21

STATION: P4

CAST NUMBER: 6

UTC DATE (dd/mm/yyyy):

17/8/2005

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	DM	TCO	ALK	CI3	CHL	WHA					
1	22	34x44		200	✓ 199			✓	✓					✓					
2	23			175	✓ 175									✓	✓				
3	24			100	✓ 100														
4	25			75	✓ 74			✓											
5	26			50	✓ 50														
6	27			40	✓ 40														
7	28			30	✓ 30														
8	29			25	✓ 25														
9	30			20	✓ 20														
10	31			15	✓ 14														
11	32			10	✓ 10														
12	33			5	✓ 5														
13	34			0															
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

SHIP: JOHN P. TULLY

ENTERED BY: MR

CHECKED BY:

Bottom Depth: 1310

Cast # down: 6

Cast # up: 6

Time LOC UTC

Begin: 1938

Bottom: 1943

End: 1959

START POSITION (GPS)

LAT: 48 39 04

LONG: 126 39 85

BOTTOM POSITION (GPS)

LAT: 48 39 07

LONG: 126 39 79

END POSITION (GPS)

LAT: 48 39 18

LONG: 126 39 61

Comments: NUTRIENT RACK: YELLOW RACK

ROSETTE LOG

MISSION ID: 2005-21

STATION: P4

CAST NUMBER: 12

UTC DATE (dd/mm/yyyy):

18 08 2005

MISSION ID: 2005-21 STATION:

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CHL					
1	35	1136	0.556	Bot-10	+	1321	✓	✓	✓		✓		✓						
2	36	1385	0.437	1250	+		✓	✓	✓		✓		✓						
3	37	1386	0.258	1000	✓		✓	✓	✓		✓		✓						
4	38	1434	0.202	800	✓		✓	✓	✓		✓		✓						
5	39	1389	0.217	800	✓		✓	✓	✓		✓		✓						
6	40	1391	0.302	600	✓		✓	✓	✓		✓		✓						
7	41	1393	0.871	400	✓		✓	✓	✓		✓		✓						
8	42	1394	1.256	300	✓		✓	✓	✓		✓		✓						
9	43	1397	1.338	250	✓		✓	✓	✓		✓		✓						
10	44	1398	2.071	200	✓		✓	✓	✓		✓		✓						
11	45	1399	2.604	175	✓		✓	✓	✓		✓		✓						
12	46	1400	2.891	150	✓		✓	✓	✓		✓		✓						
13	47	1402	3.236	125	✓		✓	✓	✓		✓		✓						
14	48	1403	3.893	100	✓		✓	✓	✓		✓		✓						
15	49	1404	4.321	75	✓		✓	✓	✓		✓		✓						
16	50	1406	5.892	50	✓		✓	✓	✓		✓		✓						
17	51	1410	6.527	25	✓		✓	✓	✓		✓		✓						
18	52	1411	6.914	10	✓		✓	✓	✓		✓		✓						
19	53	1424	6.845	5	✓		✓	✓	✓		✓		✓						
20																			
21																			
22																			
23																			
24																			

SHIP: J. P. TULLY

ENTERED BY: MR

CHECKED BY: DT

Bottom Depth: 1316

Cast # down: 12

Cast # up: 12

Time LOC UTC

Begin: 1839 0139

Bottom: 1857 0157

End: 1938 0238

START POSITION (GPS)

LAT: 48 39 058

LONG: 126 40 006

BOTTOM POSITION (GPS)

LAT: 48 39 044

LONG: 126 40 086

END POSITION (GPS)

LAT: 48 39 092

LONG: 126 40 110

Comments: OXYGEN RED BOX; NUTRIENT RED RACK

SW NISKIN FULL OF "BUGS"

ROSETTE LOG

MISSION ID: 2005-21

STATION: P8

CAST NUMBER: 16

UTC DATE (dd/mm/yyyy):

18/08/2005

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	57	364	1.370	2000	✓	✓	✓	✓											
2	58	572	0.648	1500	✓														
3	59	657	0.347	1250	✓														
4	60	708	0.224	1000	✓														
5	61	709	0.262	800	✓														
6	62	715	0.439	600	✓														
7	63	727	1.275	400	✓														
8	64	1105	2.052	300	✓														
9	65	1110	3.004	250	✓														
10	66	1126	3.947	200	✓														
11	67	1128	3.812	175	✓														
12	68	1130	3.851	150	✓														
13	69	1134	4.030	125	✓														
14	70	1135	5.359	100	✓														
15	71	1138	6.904	100	✓														
16	72	1142	6.556	75	✓														
17	73	1146	6.915	50	✓														
18	74	1158	5.915	25	✓														
19	75	1175	5.576	10	✓														
20	76	1176	5.867	5	✓														
21																			
22																			
23																			
24																			

SHIP: JOHN P TULLY

ENTERED BY: MR

CHECKED BY: MR

Bottom Depth: 2513

Cast # down: 16

Cast # up: 16

Time LOC UTC

Begin: 0905 1605

Bottom: 0930 1630

End: 1011 1711

START POSITION (GPS)

LAT: 48 48.97

LONG: 128 39.99

BOTTOM POSITION (GPS)

LAT: 48 48.97

LONG: 128 40.11

END POSITION (GPS)

LAT: 48 49.09

LONG: 128 39.97

Comments: OXYGEN BLUE BOX; NUTRIENTS: LIGHT BLUE RACK

ROSETTE LOG

MISSION ID: 2005-21

STATION: P12

CAST NUMBER: 23

UTC DATE (dd/mm/yyyy):

19/08/2005

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	DM5	TCO	ALK	C13	CHL	HH4					
1	80			200	✓			✓	✓					✓					
2	81			175	✓														
3	82			100	✓									✓	✓				
4	83			75	✓														
5	84			50	✓														
6	85			40	✓														
7	86			30	✓														
8	87			25	✓														
9	88			20	✓														
10	89			15	✓														
11	90			10	✓				✓										
12	91			5	✓														
13	92			0	✓														
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

SHIP: J.P. TULLY

ENTERED BY: MR

CHECKED BY: DA

Bottom Depth: 3222

Cast # down: 23

Cast # up: 23

Time	LOC	UTC
Begin:		0636
Bottom:		0641
End:		0657

START POSITION (GPS)	
LAT:	48 58 22
LONG:	130 39 88

BOTTOM POSITION (GPS)	
LAT:	48 58 24
LONG:	130 39 84

END POSITION (GPS)	
LAT:	48 58 34
LONG:	130 39 79

Comments: NUTRIENTS: BROWN RACK
Caught a prawn in between bottles of rosette

ROSETTE LOG

MISSION ID:

2005-21

STATION:

P12

CAST NUMBER:

28

UTC DATE (dd/mm/yyyy):

19/08/2005

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3		LA				
1	93	136	2.395	Bot-10	✓													bubble in flask (LO)
2	94	1385	2.305	3000	✓													
3	95	1386	1.964	2500	✓													
4	96	1434	0.239?	2000	✓													check if dosage?
5	97	1389	0.583	1500	✓													hit DO titration early
6	98	1391		1250	✓													
7	99	1393	0.341	1250	✓													
8	100	1394	0.255	1000	✓													
9	101	1397	0.293	800	✓													
10	102	1398	0.556	600	✓													
11	103	1399	1.286	400	✓													
12	104	1400	2.103	300	✓													bubble in flask (LO)
13	105	1402	2.601	250	✓													bubble in flask (LO)
14	106	1403	3.428	200	✓													bubble in flask (LO)
15	107	1404	3.680	175	✓													Program error Trans. reading 97.9 in H ₂ O
16	108	1406		150	✓													
17	109	1410	4.468	125	✓													
18	110	1411	4.866	100	✓													
19	111	1424	6.272	75	✓													
20	112	1425	6.781	50	✓													
21	113	1426	5.969	25	✓													bubble in flask (LO)
22	114	1427	5.852	10	✓													
23	115	1428	5.832	5	✓													
24																		

Comments: OXYGEN: RED BOX; NUTRIENTS: RED RACK

SHIP: JOHN P. TULLY

ENTERED BY: MR

CHECKED BY: DT

Bottom Depth: 3284

Cast # down: 28

Cast # up: 28

Time LOC UTC

Begin:

Bottom: 1135

End: 1234

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 48 58 168

LONG: 130 40 178

END POSITION (GPS)

LAT: 48 58 224

LONG: 130 39 844

ROSETTE LOG

MISSION ID: 2005-21 STATION: P16 CAST NUMBER: 32 UTC DATE (dd/mm/yyyy): 20/8/2005

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	CI3	CHL	NH4			
1	119			200	200			✓	✓				✓✓			
2	120			175	174								✓✓			
3	121			100	99											
4	122			75	74											
5	123			50	50											
6	124			40	40			✓								
7	125			30	30											
8	126			25	24											
9	127			20	20											
10	128			15	15											
11	129			10	10											
12	130			5	4											
13	131			0	0			↓	↓				↓	↓		
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Comments: NUTRIENT RACKS: YELLOW
Bottles 8 & 9 - top valve was open.

SHIP: JOHN P. TULLY
ENTERED BY: ML
CHECKED BY: DA

Bottom Depth: 36.14

Cast # down: 32

Cast # up: 32

Time	LOC	UTC
Begin:		1009
Bottom:		1017
End:		1028

START POSITION (GPS)
LAT: 49 17 02
LONG: 134 39 40

BOTTOM POSITION (GPS)
LAT: 49 17 03
LONG: 134 39 41

END POSITION (GPS)
LAT: 49 17 47
LONG: 134 39 43

ROSETTE LOG

MISSION ID:

2005-21

STATION:

P16

CAST NUMBER:

37

UTC DATE (dd/mm/yyyy):

20/08/2005

MISSION ID: 2005-21

STATION:

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	CI3	CHL	CA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
1	132	1346	2.871	Bot-5	✓	3.675	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Comments: OXYGEN: GREEN BOX

NUTRIENTS: GREEN RACK

SHIP: J. P. TULLY

ENTERED BY: MR

CHECKED BY: MR

Bottom Depth: 3610

Cast # down: 37

Cast # up:

Time	LOC	UTC
Begin:		1432
Bottom:		1530
End:		1631

START POSITION (GPS)

LAT: 49.17.08

LONG: 134.39.94

BOTTOM POSITION (GPS)

LAT: 49.16.97

LONG: 134.39.92

END POSITION (GPS)

LAT: 49.16.97

LONG: 134.40.02

ROSETTE LOG

MISSION ID: 2005-21

STATION: P20

CAST NUMBER: 2005-21-001

UTC DATE (dd/mm/yyyy): 21/08/2005

SHALLOW CAST

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken									
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	DM3	TCO	ALK	C13	CHL	NH4	
1	159			200	✓ 199.7			✓	✓					✓✓	
2	160			175	✓ 175.59			✓	✓					✓✓	
3	161			100	✓ 100.32			✓	✓					✓✓	
4	162			75	✓ 74.45			✓	✓					✓✓	
5	163			50	✓ 49.73			✓	✓					✓✓	
6	164			40	✓ 40.72			✓	✓					✓✓	
7	165			30	✓ 30.11			✓	✓					✓✓	
8	166			25	✓ 25.61			✓	✓					✓✓	
9	167			20	✓ 20.21			✓	✓					✓✓	
10	168			15	✓ 14.39			✓	✓					✓✓	
11	169			10	✓ 10.10			✓	✓					✓✓	
12	170			5	✓ 5.23			✓	✓					✓✓	
13	171			0	✓ 1.28			✓	✓					✓✓	
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Comments: NUTRIENTS WHITE RACK

SHIP: J.P. TULLY

ENTERED BY: Krishna MVL

CHECKED BY: ✓

Bottom Depth: 3890

Cast # down: 41

Cast # up: 41

Time LOC UTC

Begin: 06:32 13:32:52

Bottom: 06:37am 13:37:54

End: 06:56 13:56:30

START POSITION (GPS)

LAT: 49° 34' 40" N

LONG: 138° 40' 05" W

BOTTOM POSITION (GPS)

LAT: 49° 34' 12" N

LONG: 138° 39' 99" W

END POSITION (GPS)

LAT: 49° 31' 12" N

LONG: 138° 39' 81" W

DEEP CAST

ROSETTE LOG

MISSION ID: 2005-21

STATION: P26 P20

CAST NUMBER: 46

UTC DATE (dd/mm/yyyy):

21/08/2005

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken									
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	CI3	CHL	CP			
1	172	364	3.102	Bot-10	✓	4010	✓	✓	✓	✓					
2	173	572	2.884	3500	✓	3500		✓							
3	174	657	2.520	3000	✓	3000									
4	175	708	1.956	2500	✓	2500			✓						
5	176	709	1.281	2000	✓	2000				✓					
6	177	715	1.296	2000	✓	2000									
7	178	727	0.575	1500	✓	1500									
8	179	1105	0.379	1250	✓	1250									
9	180	1110	0.330	1000	✓	999									
10	181	1126	0.391	800	✓	800									→ look like sfc nut
11	182	1128	6.122	600	✓	600									
12	183	1130	1.207	400	✓	400									→ look like sfc nut
13	184	1134	6.120	300	✓	300									
14	185	1135	2.414	250	✓	249									
15	186	1138	3.402	200	✓	200									
16	187	1142	4.036	175	✓	175									
17	188	1146	5.020	150	✓	150									
18	189	1158	5.813	125	✓	125									
19	190	1175	6.421	100	✓	100									
20	191	1176	6.647	75	✓	75									
21	192	1192	6.953	50	✓	50									
22	193	1195	6.399	25	✓	25									
23	194	1206	6.123	10	✓	10									
24	195	1212	6.152	5	✓	4									

SHIP: J.P. TULLY

ENTERED BY: MR

CHECKED BY: DA

Bottom Depth: 3933

Cast # down: 46

Cast # up:

Time LOC UTC

Begin: 1835

Bottom: 1934

End: 2046

START POSITION (GPS)

LAT: 49 33 99

LONG: 138 39 87

BOTTOM POSITION (GPS)

LAT: 49 33 98

LONG: 138 40 02

END POSITION (GPS)

LAT: 49 34 00

LONG: 138 40 02

Comments:

OXYGEN: BLUE BOX NUTRIENTS: BLUE RACK
Bottles 11 & 13 nutrient values look more like surface value
→ 5, 10, or 25 m.

ROSETTE LOG

MISSION ID: 2005-21 STATION: H-04 CAST NUMBER: 48 UTC DATE (dd/mm/yyyy): 22/08/2005

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CP		
						OXY				ALK		CHL				
1	197	1346	1.226	2000	✓		✓	✓	✓							
2	198	1347	0.506	1500	✓		✓	✓	✓							
3	199	1349	0.311	1250	✓	1250										
4	200	1350	0.384	1000	✓	1000										
5	201	1351	0.455	800	✓	800										
6	202	1352	0.716	600	✓	601										
7	203	1353	1.614	400	✓	400										
8	204	1354	1.936	300	✓	300										
9	205	1358	1.923	250	✓	253										
10	206	1356	2.187	200	✓	201		✓								
11	207	1360	2.411	175	✓	176										
12	208	1363	2.730	150	✓	152										
13	209	1362	2.697	150	✓	152										
14	210	1375	3.479	125	✓	125										
15	211	1364	6.344	100	✓	100						✓				
16	212	1361	6.574	75	✓	75						✓	✓			
17	213	1368	6.969	50	✓	50						✓	✓			
18	214	1367	6.072	25	✓	25						✓	✓			
19	215	1371	6.645	10	✓	10						✓	✓			
20	216	1373	6.001	5	✓	5	✓	✓	✓			✓	✓			
21																
22																
23																
24																

Comments: OXYGEN GREEN BOX; NUTRIENTS ORANGE BACK

SHIP: J. P. TULLY

ENTERED BY: MR

CHECKED BY: DA

Bottom Depth: 3864

Cast # down: 48

Cast # up:

Time	LOC	UTC
Begin:		0609
Bottom:		0635
End:		0720

START POSITION (GPS)

LAT: 49.09.95

LONG: 140.14.98

BOTTOM POSITION (GPS)

LAT: 49.09.97

LONG: 140.15.03

END POSITION (GPS)

LAT: 49.10.00

LONG: 140.15.02

ROSETTE LOG

MISSION ID: 2005-21 STATION: P26 CAST NUMBER: 60 UTC DATE (dd/mm/yyyy): 23/8/2005

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		HH4				
						OXY		DMS		ALK		CHL						
1	222			200	-	202			✓	✓				✓	✓			
2	223			175	-	174												
3	224			100	-	100							✓	✓				
4	225			75	-	76												
5	226			50	-	49												
6	227			40	-	40		✓										
7	228			30	-	30												
8	229			25	-	24												
9	230			20	-	20												
10	231			15	-	15												
11	232			10	-	10												Did not close
12	233			5	-	4												
13	234			0	-	1.7		✓	✓				✓	✓				
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: NUTRIENTS BROWN RACK

SHIP: J.P. TULLY
ENTERED BY: MR
CHECKED BY: D.A

Bottom Depth: 4211

Cast # down: 60
Cast # up: 60

Time	LOC	UTC
Begin:		1909
Bottom:		1914
End:		1931

START POSITION (GPS)
LAT: 49 59 98
LONG: 145 00 09

BOTTOM POSITION (GPS)
LAT: 49 59 98
LONG: 145 00 16

END POSITION (GPS)
LAT: 49 59 99
LONG: 145 00 20

ROSETTE LOG

MISSION ID: 2005-21 STATION: P26 CAST NUMBER: 61 UTC DATE (dd/mm/yyyy): 23/8/2005

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	235	1136	3.361	Bot-10	✓ 4308	✓	✓	✓	✓	✓	✓	✓				
2	236	1385	3.217	4000	✓ 4000											
3	237	1386	2.951	3500	✓ 3498											
4	238	1434	2.527	3000	✓ 3000				✓							
5	239	1389	1.899	2500	✓ 2498											
6	240	1391	1.251	2000	✓ 2000											
7	241	1393	0.569	1500	✓ 1499											
8	242	1394	0.392	1250	✓ 1250											
9	243	1397	0.401	1000	✓ 1000											
10	244	1398	0.419	800	✓ 798											
11	245	1399	0.568	600	✓ 600											
12	246	1400	0.977	400	✓ 400											
13	247	1402	1.522	300	✓ 300											
14	248	1403	2.095	250	✓ 248											
15	249	1404	3.084	200	✓ 200			✓								
16	250	1406	3.178	175	✓ 175											
17	251	1410	3.779	150	✓ 148											
18	252	1411	5.207	125	✓ 124											
19	253	1424	6.434	100	✓ 99											
20	254	1425	6.828	75	✓ 73											
21	255	1426	7.006	50	✓ 49								✓			
22	256	1427	6.223	25	✓ 24								✓			
23	257	1428	6.180	10	✓ 9								✓			
24	258	1429	6.157	5	✓	✓	✓	✓	✓	✓	✓	✓	✓			

Comments: OXYGEN: RED BOX, NUTRIENTS: RED RACK

SHIP:
ENTERED BY: MR
CHECKED BY: DA

Bottom Depth: 4211

Cast # down: 61
Cast # up: 1

Time	LOC	UTC
Begin:		2101
Bottom:		2156
End:		2315

START POSITION (GPS)
LAT: 50 00 02
LONG: 145 00 17

BOTTOM POSITION (GPS)
LAT: 50 00 00
LONG: 145 00 06

END POSITION (GPS)
LAT: 50 00 072
LONG: 145 00 118

ROSETTE LOG

MISSION ID: 2005-21

STATION: P26

CAST NUMBER: 66

UTC DATE (dd/mm/yyyy): 24/02/2005

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	DMS	TCO	ALK	C13	CHL						
1	259			200	✓ 200			✓	✓										
2	260			175	✓ 173														
3	261			100	✓ 99														
4	262			75	✓ 74			✓											
5	263			50	✓ 49														
6	264			40	✓ 39														
7	265			30	✓ 30														
8	266			25	✓ 24														
9	267			20	✓														
10	268			15	✓														
11	269			10	✓														
12	270			5	✓														
13	271			0	✓														
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Comments: NUTRIENTS: LIGHT BLUE RACK

SHIP: J.P. NALLY
ENTERED BY: MK
CHECKED BY: ST

Bottom Depth: 4211

Cast # down: 66
Cast # up:

Time	LOC	UTC
Begin:	1842	0142
Bottom:		0146
End:		0203

START POSITION (GPS)
LAT: 49 59 986
LONG: 144 59 900

BOTTOM POSITION (GPS)
LAT: 49 59 980
LONG: 144 59 939

END POSITION (GPS)
LAT: 49 59 988
LONG: 144 59 975

ROSETTE LOG

MISSION ID:

2005-21

STATION:

P26

CAST NUMBER:

67

UTC DATE (dd/mm/yyyy):

24 / 8 / 2005

[illegible]

SHIP:

ENTERED BY: MR

CHECKED BY: DA

Bottom Depth: 4208

Cast # down: 67

Cast # up: 67

Time	LOC	UTC
------	-----	-----

Begin: 0700

Bottom: 0705

End: 0716

START POSITION (GPS)

LAT: 50 00 02

LONG: 145 00 00

BOTTOM POSITION (GPS)

LAT: 50 00 01

LONG: 144 59 98

END POSITION (GPS) :

LAT: 50° 00.02'

LONG: 145 00.03

Comments: NUTRIENTS: GREEN RACK

ROSETTE LOG

MISSION ID: 2005-21

STATION: Ago

CAST NUMBER: 68

UTC DATE (dd/mm/yyyy):

²⁵
26/03/2005

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	285	364	1.344	2000	✓ 2000	✓		✓										
2	286	572	0.656	1500	✓	✓												
3	287	657	0.439	1250	✓	✓												
4	288	708	0.429	1000	✓													
5	289	709	0.453	800	✓													
6	290	715	0.526	600	✓													
7	291	727	0.637	400	✓			✓										
8	292	1105	0.940	300	✓													
9	293	1110	1.347	250	✓													
10	294	1126	2.116	200	✓													
11	295	1128	2.783	175	✓													
12	296	1130	3.589	150	✓													
13	297	1134	4.806	125	✓													
14	298	1135	6.874	100	✓													
15	299	1138	6.898	75	✓													
16	300	1142	7.128	50	✓													
17	301	1146	6.308	25	✓													
18	302	1158	6.239	10	✓													
19	303	1175	6.215	5	✓			✓	✓	✓		✓						
20																		
21																		
22																		
23																		
24																		

SHIP: J.P. Tully
ENTERED BY: MR
CHECKED BY: MA

Bottom Depth: 4788

Cast # down: 68

Cast # up:

Time	LOC	UTC
Begin:	<u>2034</u>	<u>0534</u>
Bottom:	<u>2304</u>	<u>0604</u>
End:	<u>2352</u>	<u>0652</u>

START POSITION (GPS)
LAT: 49 59.777
LONG: 149 59.816

BOTTOM POSITION (GPS)
LAT: 49 59.983
LONG: 149 59.908

END POSITION (GPS)
LAT: 49 59.987
LONG: 149 59.981

Comments: OXYGEN: BLUE BOX; NUTRIENTS: BLUE RACK

ROSETTE LOG

MISSION ID: 2005-21

STATION: 3

CAST NUMBER: 71

UTC DATE (dd/mm/yyyy):

Aug 25 / 26

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	306	1346	1.336	2000	✓	2005	✓	✓	✓										
2	307	1347	0.606	1500	✓		✓												
3	308	1350	0.489	1250	✓														
4	309	1349	0.392	1000	✓														
5	310	1352	0.478	800	✓														
6	311	1351	0.566	600	✓														
7	312	1353	0.947	400	✓														
8	313	1354	1.336	300	✓														
9	314	1358	1.905	250	✓														
10	315	1356	2.670	200	✓														
11	316	1363	3.468	175	✓														
12	317	1360	4.588	150	✓														
13	318	1362	5.739	125	✓														
14	319	1375	6.914	100	✓														
15	320	1361	6.413	75	✓														
16	321	1364	7.344	50	✓														
17	322	1368	6.683	25	✓														
18	323	1367	6.178	10	✓														
19	324	1371	6.189	5	✓		✓	✓	✓			✓							
20																			
21																			
22																			
23																			
24																			

SHIP: J.P. TULLY

ENTERED BY: MR

CHECKED BY: DT

Bottom Depth: 4154

Cast # down: 71

Cast # up:

Time	LOC	UTC
Begin:	1657	2357
Bottom:	1728	0028
End:	0111	0111

START POSITION (GPS)

LAT: 51 24 978

LONG: 146 59 932

BOTTOM POSITION (GPS)

LAT: 51 25 008

LONG: 147 00 070

END POSITION (GPS)

LAT: 51 24 980

LONG: 146 59 935

Comments: OXYGEN: GREEN BOX; NUTRIENTS: YELLOW BACK

ROSETTE LOG

MISSION ID: 2005-21

STATION: 5

CAST NUMBER: 73

UTC DATE (dd/mm/yyyy): 26.08.2005

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	1136	1.022	2000	✓ 2004.3	✓	✓	✓										
2	327	1385	0.617	1500	✓ 1500.11	✓												
3	328	1386	0.423	1250	✓ 1250.33	✓												
4	329	1434	0.384	1000	✓ 1000.83													
5	330	1389	0.368	800	✓ 798.85													
6	331	1391	0.384	600	✓ 600.10													
7	332	1393	1.021	400	✓ 402.81													
8	333	1394	1.349	300	✓ 300.82													
9	334	1397	2.000	250	✓ 250.22													
10	335	1398	2.734	200	✓ 200.59													depth recorded as 176
11	336	1399	3.110	175	✓ 175.58													
12	337	1400	3.832	150	✓ 150.41													
13	338	1402	4.756	125	✓ 125.08													
14	339	1403	6.015	100	✓ 100.12													
15	340	1404	6.685	75	✓ 74.32													
16	341	1406	7.022	50	✓ 50.39													
17	342	1410	6.178	25	✓ 25.41													
18	343	1411	6.135	10	✓ 10.08													
19	344	1424	6.746	5	✓ 4.69	✓	✓	✓				✓						
20																		
21																		
22																		
23																		
24																		

SHIP: J.P. Tully
ENTERED BY: MR KB
CHECKED BY:

Bottom Depth: 4036

Cast # down: 73

Cast # up: 73

Time	LOC	UTC
Begin:	0435	1135
Bottom:	0504	1204
End:	0537	1237

START POSITION (GPS)
LAT: 52 20.009
LONG: 144 59.992

BOTTOM POSITION (GPS)
LAT: 52 19.967
LONG: 145 00.070

END POSITION (GPS)
LAT: 52 19.967
LONG: 144 59.971

Comments: OXYGEN: RED Box; NUTS: WHITE rack
→ Rough SEOS - minimized equ. time to get ROS out of water quickly
- stopped @ 5m up but I took out ~ no surface

ROSETTE LOG

MISSION ID: 2005-21

STATION: 6

CAST NUMBER: 74

UTC DATE (dd/mm/yyyy):

26/8/2005

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	345			2000	✓				✓										
2	346			2000	✓				✓										
3	347			"	✓				✓										
4	348			"	✓				✓										
5	349			2000	✓				✓										
6	350			"	✓														
7	351			"	✓														
8	352			2000	✓														
9	353			"	✓														
10	354			"	✓														
11	355			2000	✓														
12	356			"	✓														
13	357			"	✓														
14	358			2000	✓														
15	359			"	✓														
16	360			"	✓														
17	361			2000	✓														
18	362			"	✓														
19	363			"	✓														
20	364			2000	✓														
21	365			"	✓														
22	366			2000	✓														
23	367			2000	✓														
24	368			2000	✓														

SHIP: TULLY

ENTERED BY: MR

CHECKED BY: DA

Bottom Depth: 3715?

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		1933
Bottom:		1958
End:		2032

START POSITION (GPS)

LAT: 52 24 07

LONG: 143 15 05

BOTTOM POSITION (GPS)

LAT: 52 24 04

LONG: 143 15 21

END POSITION (GPS)

LAT: 52 23 91

LONG: 143 15 41

Comments:

ROSETTE LOG

MISSION ID: 2005-21 STATION: 1526 710 2276 710 CAST NUMBER: 75 UTC DATE (dd/mm/yyyy): 27 26/08/2005

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	Cl3	CHL						
1	369	1346	1.336	2000	✓	✓	✓	✓										
2	370	1347	0.600	1500	✓	✓												
3	371	1349	0.431	1250	✓	✓												
4	372	1350	0.357	1000	✓			✓										
5	373	1351	0.357	800	✓													
6	374	1352	0.490	600	✓													
7	375	1353	1.036	400	✓													
8	376	1354	1.834	300	✓													
9	377	1358	2.306	250	✓													
10	378	1356	3.111	200	✓													
11	379	1360	3.317	175	✓													
12	380	1363	3.994	150	✓													
13	381	1362	5.544	125	✓													
14	382	1375	6.674	100	✓							✓						
15	383	1369	6.697	75	✓													
16	384	1361	7.110	50	✓													
17	385	1368	6.393	25	✓													
18	386	1367	6.112	10	✓													
19	387	1371	6.131	5	✓	✓	✓	✓										
20																		
21																		
22																		
23																		
24																		

SHIP: J P TULLY
ENTERED BY: MR
CHECKED BY: MA

Bottom Depth: 3738

Cast # down: 75
Cast # up: 75

Time LOC UTC
Begin: 2011 0311
Bottom: 2037 0337
End: 2123 0423

START POSITION (GPS)
LAT: 52 28.103
LONG: 141 32.940

BOTTOM POSITION (GPS)
LAT: 52 28.103
LONG: 141 32.947

END POSITION (GPS)
LAT: 52 27.887
LONG: 141 32.998

Comments: OXYGEN GREEN BOX; NUTRIENTS GREEN RACK.
Note: Suspect Niskin 19 was not full of water when tripped.

ROSETTE LOG

MISSION ID: 2005-21

STATION: S-05

CAST NUMBER: 77

UTC DATE (dd/mm/yyyy): 27/8/2005

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	389	1136	1.284	2000	2001	✓		✓											
2	390	1385	0.564	1500	1500	✓		✓											
3	391	1386	0.423	1250	1253	✓													
4	392	1434	0.329	1000	1002														
5	393	1389	0.380	800	802														
6	394	1391	0.637	600	602														
7	395	1393	1.903	400	402														
8	396	1394	1.928	300	300														
9	397	1397	2.054	250	251														
10	398	1398	2.328	200	200														
11	399	1399	2.468	175	175														
12	400	1400	2.799	150	150														
13	401	1402	3.798	125	126								✓						
14	402	1403	6.288	100	100								✓						
15	403	1404	6.652	75	76								✓						
16	404	1406	6.870	50	50								✓						
17	405	1410	7.554	25	25								✓						
18	406	1411	6.089	10	10								✓						
19	407	1424	6.130	5	5	✓	✓	✓					✓						
20																			
21																			
22																			
23																			
24																			

SHIP: J. P. TULLY

ENTERED BY: MR

CHECKED BY: DA

Bottom Depth: 3654

Cast # down: 77

Cast # up: 77

Time LOC UTC

Begin: 0855

Bottom: 0928

End: 1011

START POSITION (GPS)

LAT: 52 30.02

LONG: 140 43 96

BOTTOM POSITION (GPS)

LAT: 52 29.99

LONG: 140 44.01

END POSITION (GPS)

LAT: 52 30.00

LONG: 140 43 95

Comments: OXYGEN RED BOX; NUTRIENTS: LIGHT BLUE RACK

ROSETTE LOG

MISSION ID: 2005 - 21

STATION: 10

CAST NUMBER: 81

UTC DATE (dd/mm/yyyy):

22/08/2005

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	409	364	1.316	2000	✓	✓	✓	✓											
2	410	572	0.584	1500	✓	✓													
3	411	657	0.400	1250	✓	✓													
4	412	708	0.332	1000	✓														
5	413	709	0.504	800	✓														
6	414	715	0.560	600	✓														
7	415	727	1.188	400	✓														
8	416	1105	1.756	300	✓														
9	417	1110	2.173	250	✓														
10	418	1126	2.514	200	✓														
11	419	1128	2.853	175	✓														
12	420	1130	3.309	150	✓														
13	421	1134	4.016	125	✓														
14	422	1135	6.432	100	✓														
15	423	1138	6.690	75	✓														
16	424	1142	7.097	50	✓														
17	425	1146	6.149	25	✓														
18	426	1158	6.121	10	✓														
19	427	1175	6.119	5	✓														
20																			
21																			
22																			
23																			
24																			

SHIP: JOHN P TULLY

ENTERED BY: MR

CHECKED BY: MA

Bottom Depth: 3632

Cast # down: 81

Cast # up: 81

Time	LOC	UTC
Begin:	1021	1721
Bottom:	1052	1752
End:	1135	1835

START POSITION (GPS)	
LAT:	52 32.516
LONG:	139 55.099

BOTTOM POSITION (GPS)	
LAT:	52 32.478
LONG:	139 55.036

END POSITION (GPS)	
LAT:	52 32.501
LONG:	139 54.937

Comments: OXYGEN: BLUE BOX; NUTRIENTS: BLUE RACK

ROSETTE LOG

MISSION ID: 2005-21 STATION: 12 CAST NUMBER: 83 UTC DATE (dd/mm/yyyy): 28/8/2005

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	428	1346	1.403	2000	- 2003	/	/	/										
2	429	1347	0.624	1500	- 1500	✓												
3	430	1349	0.420	1250	- 1250	✓												
4	431	1350	0.309	1000	- 999													
5	432	1351	0.375	800	- 802													
6	433	1352	0.508	600	- 600													
7	434	1353	1.134	400	- 400													
8	435	1354	1.684	300	- 300													
9	436	1358	2.181	250	- 253													
10	437	1356	3.189	200	- 204													
11	438	1360	3.493	175	- 175													
12	439	1363	3.716	150	- 150													
13	440	1362	4.226	125	- 124													
14	441	1375	5.007	100	- 100													
15	442	1364	6.661	75	- 75													
16	443	1361	7.211	50	- 48			✓										
17	444	1360	6.562	25	- 25													
18	445	1367	5.952	10	- 10													
19	446	1371	5.938	5	- 5	✓	✓	✓										
20																		
21																		
22																		
23																		
24																		

SHIP: J.P. TULLY
ENTERED BY: MR
CHECKED BY: DA

Bottom Depth: 3428

Cast # down: 12
Cast # up: 12

Time	LOC	UTC
Begin:		0726
Bottom:		0756
End:		0835

START POSITION (GPS)
LAT: 52 50 01
LONG: 136 39 05

BOTTOM POSITION (GPS)
LAT: 52 50 12
LONG: 136 38 91

END POSITION (GPS)
LAT: 52 49 74
LONG: 136 38 84

Comments: OXYGEN: GREEN BOX; NUTRIENTS: BROWN RACK

ROSETTE LOG

MISSION ID: 2005-21

STATION: H-05

CAST NUMBER: 85

UTC DATE (dd/mm/yyyy): 28/08/2005

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	448	1136	1.377	2000	✓ 2000.89	✓												End points not
2	449	1385	0.918	1500	✓ 1500.38	✓												definite.
3	450	1386	0.411	1250	✓ 1250.35	✓												
4	451	1434	0.359	1000	✓ 1000.46													
5	452	1389	0.615	800	✓ 800.70													
6	453	1391	0.927	600	✓ 599.83													
7	454	1393	1.669	400	✓ 401.09													
8	455	1394	2.682	300	✓ 298.26													
9	456	1397	2.854	250	✓ 250.70													
10	457	1398	2.983	200	✓ 199.32													
11	458	1399	3.059	175	✓ 173.25													
12	459	1400	3.256	150	✓ 150.91													
13	460	1402	3.838	125	✓ 125.18													
14	461	1403	4.724	100	✓ 99.22													
15	462	1404	5.530	75	✓ 75.91													
16	463	1406	5.903	50	✓ 50.04													
17	464	1410	7.052	25	✓ 25.14													
18	465	1411	5.965	10	✓ 9.44													
19	466	1424	5.976	5	✓ 5.05													
20																		
21																		
22																		
23																		
24																		

Comments:

NUT: Red rack Oxy Red Box
- kind of rough - caught 5m on the up cast & turned off pumps before surface.

SHIP: Tully

ENTERED BY: KB

CHECKED BY:

Bottom Depth: 3443

Cast # down: 85

Cast # up: 85

Time LOC UTC

Begin: 0556 1256

Bottom: 0625 1325

End: 0718 1418

START POSITION (GPS)

LAT: 5249.887

LONG: 13552.352

BOTTOM POSITION (GPS)

LAT: 5249.903

LONG: 13552.396

END POSITION (GPS)

LAT: 5249.907

LONG: 13552.286

ROSETTE LOG

MISSION ID: 2005-21STATION: 15CAST NUMBER: 89UTC DATE (dd/mm/yyyy): 28/08/05

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	468	364	1.473	2000	/ 1994	✓	✓	✓										? PDE
2	469	572	0.786	1500	/ 1501	✓	✓	✓										? PDE
3	470	657	0.494	1250	/ 1249	✓	✓	✓										2 Poorly defined endpoint
4	471	708	0.282	1000	/ 1000		✓	✓										? PDE
5	472	709	0.455	800	/ 798		✓	✓										
6	473	715	0.569	600	/ 600		✓	✓										
7	474	727	1.263	400	/ 400		✓	✓										
8	475	1105	2.254	300	/ 297		✓	✓										? PDE
9	476	1110	2.559	250	/ 253		✓	✓										? PDE
10	477	1126	3.226	200	/ 200		✓	✓										? Closed at wrong depth
11	478	1128	5.946	175	/ 175		✓	✓										
12	479	1130	3.558	150	/ 151		✓	✓										
13	480	1134	3.910	125	/ 125		✓	✓										
14	481	1135	4.718	100	/ 100		✓	✓				✓						
15	482	1138	5.928	75	/ 76		✓	✓				✓						
16	483	1142	6.348	50	/ 50		✓	✓				✓						
17	484	1146	6.508	25	/ 25		✓	✓				✓						
18	485	1158	5.982	10	/ 99		✓	✓				✓						
19	486	1175	5.925	5	/ 5	✓	✓	✓				✓						
20																		
21																		
22																		
23																		
24																		

Comments:

O2 - BLUE BOX

NUT - ORANGE BACK

NISKIN II closed @ wrong depth

SHIP: TullyENTERED BY: DT/KB

CHECKED BY:

Bottom Depth: 2845Cast # down: 89Cast # up: 89

Time LOC UTC

Begin: 1635 2335Bottom: 1703 0003End: 0054

START POSITION (GPS)

LAT: 52 50 371LONG: 135 00 286

BOTTOM POSITION (GPS)

LAT: 52 50 478LONG: 135 00 232

END POSITION (GPS)

LAT: 52 50 798LONG: 135 00 016

ROSETTE LOG

MISSION ID: 2005-21 STATION: 17 CAST NUMBER: 91 UTC DATE (dd/mm/yyyy): 29/8/2005

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	488	1136	1.519	2000	2005	✓		✓										PDE (Poorly defined End point)
2	489	1385	0.738	1500	1499	✓		✓										PDE
3	490	1386	0.528	1250	1253	✓		✓										PDE
4	491	1434	0.448	1000	1002													PDE
5	492	1389	0.347	800	800			✓										PDE
6	493	1391	0.776	600	600													PDE
7	494	1393	1.360	400	400													
8	495	1394	2.131	300	302													Semi-PDE
9	496	1397	2.579	250	251													
10	497	1398	3.409	200	202													
11	498	1399	3.578	175	175													Semi-PDE
12	499	1400	3.603	175	175													
13	500	1402	3.721	150	152													
14	501	1403	4.187	125	125													
15	502	1404	4.900	100	100													
16	503	1406	6.096	75	76													
17	504	1410	7.014	50	50													
18	505	1411	6.029	25	25													
19	506	1424	5.920	10	9			✓				✓						
20	507	1425	5.945	5	5	✓		✓										
21																		
22																		
23																		
24																		

Comments:

NUT: YELLOW RACK OXY: RED CASE

SHIP: J.P. TULLY
ENTERED BY: MR
CHECKED BY: DA

Bottom Depth: 2900

Cast # down: 91
Cast # up: 91

Time	LOC	UTC
Begin:		0800
Bottom:		0827
End:		0905

START POSITION (GPS)
LAT: 52 54 450
LONG: 133 30 03

BOTTOM POSITION (GPS)
LAT: 52 54 56
LONG: 133 29 96

END POSITION (GPS)
LAT: 52 54 43
LONG: 133 29 96

ROSETTE LOG

MISSION ID: 2005-21

STATION: 19

CAST NUMBER: 93

UTC DATE (dd/mm/yyyy):

29/08/2005

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	509	364	0.534	Bot-10	✓ 1023	✓													PDE
2	510	572	0.437	1000	✓	✓													PDE
3	511	657	0.579	800	✓	✓													"
4	512	708	0.767	600	✓														"
5	513	709	1.350	400	✓														OK
6	514	715	2.034	300	✓														PDE
7	515	727	2.456	250	✓														"
8	516	1105	2.989	200	✓														OK
9	517	1110	3.245	175	✓														
10	518	1126	3.630	150	✓														
11	519	1128	3.830	125	✓			✓											
12	520	1130	3.819	125	✓														
13	521	1134	5.007	100	✓														
14	522	1135	5.814	75	✓														
15	523	1138	6.365	50	✓														
16	524	1142	6.279	25	✓														
17	525	1146	5.918	10	✓														
18	526	1158	5.864	5	✓														
19																			
20																			
21																			
22																			
23																			
24																			

SHIP: T.P. TULLY
ENTERED BY: C.B.T.
CHECKED BY: M.A.

Bottom Depth: 1006

Cast # down: 93

Cast # up:

Time	LOC	UTC
Begin:	0547	1247
Bottom:	0602	1302
End:	0637	1337

START POSITION (GPS)
LAT: 52 58 556
LONG: 132 50 964

BOTTOM POSITION (GPS)
LAT: 52 58 625
LONG: 132 50 906

END POSITION (GPS)
LAT: 52 58 462
LONG: 132 51 107

Comments:

GREEN NUTS BLUE O2

ROSETTE LOG

MISSION ID: 2005-21

STATION: 21

CAST NUMBER: 95

UTC DATE (dd/mm/yyyy):

29/08/2005

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	528	1346	1.689	Bot-10	✓	367.5	✓	✓											PDE *
2	529	1347	1.936	300	✓			✓											PDE
3	530	1349	2.193	250	✓														
4	531	1350	2.348	200	✓														
5	532	1351	2.543	175	✓														
6	533	1352	2.766	150	✓														
7	534	1353	3.855	125	✓														
8	535	1354	4.153	100	✓														
9	536	1358	5.025	75	✓														
10	537	1356	5.541	50	✓														
11	538	1360	5.965	25	✓														
12	539	1363	5.972	25	✓														
13	540	1362	5.961	10	✓														
14	541	1375	6.060	5	✓														
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

SHIP: OCGS JP TWCY

ENTERED BY:

CHECKED BY: MA

Bottom Depth: 367.5

Cast # down: 95

Cast # up: 95

Time LOC UTC

Begin: 0903 1603

Bottom: 0911 1611

End: 0933 1633

START POSITION (GPS)

LAT: 53 0.036

LONG: 132 29.948

BOTTOM POSITION (GPS)

LAT: 53 0.035

LONG: 132 29.970

END POSITION (GPS)

LAT: 53 0.035

LONG: 132 29.935

Comments: OXYGEN: GREEN BOX; NUTRIENTS: WHITE RACK

Note: Oxygen Hooks 12 & 13 were switched ie: Flask 12 is now the 10m & Flask 13 is 25m dep.
* STARTED TITRATING GREEN BOX USING STN 19 BLUE BOX HEADER

ROSETTE LOG

MISSION ID: 2005-21

STATION: Argo 2 CAST NUMBER: 96

UTC DATE (dd/mm/yyyy):

30/08/2005

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	542	1136	1.284	2000	✓													
2	543	1385	0.517	1500	✓													
3	544	1386	0.375	1250	✓													
4	545	1434	0.623	1000	✓													PDE
5	546	1389	0.368	800	✓													PDE
6	547	1391	0.969	600	✓													PDE
7	548	1393	1.545	400	✓													PDE
8	549	1394	2.020	300	✓													PDE
9	550	1397	2.664	250	✓													"
10	551	1398	3.443	200	✓													"
11	552	1399	3.622	175	✓													"
12	553	1400	3.597	175	✓													"
13	554	1402	3.374	150	✓													"
14	555	1403	4.137	125	✓													"
15	556	1404	4.915	100	✓													"
16	557	1406	5.129	75	✓													
17	558	1410	5.600	50	✓													
18	559	1411	6.448	25	✓													
19	560	1424	5.907	10	✓													
20	561	1425	5.861	5	✓													
21																		
22																		
23																		
24																		

Comments: OXYGEN: RED BOX NUTRIENTS: LIGHT BLUE: RACK

SHIP: J. P. TULLY
ENTERED BY: MR
CHECKED BY: MA

Bottom Depth: 2601

Cast # down: 96
Cast # up: 96

Time	LOC	UTC
Begin:	2211	0511
Bottom:	2239	0539
End:	2326	0626

START POSITION (GPS)
LAT: 50 59.958
LONG: 131 59.930

BOTTOM POSITION (GPS)
LAT: 51 0.008
LONG: 132 0.055

END POSITION (GPS)
LAT: 50 59.762
LONG: 132 0.496

ROSETTE LOG

MISSION ID:

2005-21

STATION:

SS1

CAST NUMBER:

100

UTC DATE (dd/mm/yyyy):

30/08/2005

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	563	364	1.458	300	✓ 4.75	✓	✓	✓										PDE (Poorly Defined Endpoint)
2	564	572	1.991	250	✓	✓	✓	✓										"
3	565	657	2.249	200	✓		✓	✓										"
4	566	708	2.551	175	✓		✓	✓										"
5	567	709	2.725	150	✓		✓	✓										"
6	568	715	2.936	125	✓		✓	✓										"
7	569	727	2.991	100	✓		✓	✓										PDE
8	570	1105	3.319	75	✓		✓	✓										"
9	571	1110	3.485	50	✓		✓	✓										"
10	572	1126	4.180	25	✓		✓	✓										"
11	573	1128	5.507	10	✓		✓	✓										"
12	574	1130	5.610		✓		✓	✓										"
13	575	1134	6.027		✓		✓	✓										
14	576	1135	5.958		✓	✓	✓	✓				✓						
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP:

ENTERED BY: MA

CHECKED BY: MA

Bottom Depth: ~490

Cast # down: 100

Cast # up: 100

Time	LOC	UTC
Begin:	1104	1804
Bottom:	1113	1813
End:	1136	1836

START POSITION (GPS)	
LAT:	51 11.993
LONG:	129 59.930

BOTTOM POSITION (GPS)	
LAT:	51 11.993
LONG:	129 59.956

END POSITION (GPS)	
LAT:	51.12.019
LONG:	130.2034

Comments:

Nutrients → BLUE rock
O₂ → BLUE box

ROSETTE LOG

MISSION ID: 2005-21

STATION: 553

CAST NUMBER: 103

UTC DATE (dd/mm/yyyy):

31 30 09 2005

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	578	1346	1.834	Bot-10	297	-	✓	✓								PDE (Poorly Defined EP)
2	579	1347	1.781	250		-										PDE
3	580	1349	2.400	200												PDE
4	581	1350	2.566	175												PDE
5	582	1351	2.856	150												OK (97.6)
6	583	1352	2.955	125												PDE (99.0)
7	584	1353	3.697	100												PDE (98.7)
8	585	1354	3.817	75												OK (98.5)
9	586	1358	4.052	50												OK (98.9)
10	587	1356	4.705	25												OK (98.1)
11	588	1360	6.188	10												OK (98.1)
12	589	1363	6.177	10												OK (97.9)
13	590	1362	6.195	5		-		✓				✓				
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Comments:

OXY => GREEN CASE NUT => Orange rack

SHIP: J.P. TULLY
ENTERED BY: DA
CHECKED BY: DT

Bottom Depth: 291

Cast # down: 103
Cast # up:

Time	LOC	UTC
Begin:	1710	0010
Bottom:	1715	0015
End:		0031

START POSITION (GPS)
LAT: 51 15 180
LONG: 129 21 306

BOTTOM POSITION (GPS)
LAT: 51 15 191
LONG: 129 21 349

END POSITION (GPS)
LAT: 51 15 326
LONG: 129 21 415

ROSETTE LOG

MISSION ID: 2005-21

STATION: 47

CAST NUMBER: 108

UTC DATE (dd/mm/yyyy):

01/09/2005

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	593	1136	2.016	194-5	✓ 194		✓	✓								PDF
2	594	1385	2.052	175	✓											"
3	595	1386	2.638	150	✓											"
4	596	1434	2.791	125	✓											"
5	597	1389	3.462	100	✓											"
6	598	1391	3.919	75	✓			✓								OK
7	599	1393	4.514	50	✓											OK
8	600	1394	4.882	30	✓											OK
9	601	1397	4.984	20	✓											OK
10	602	1398	6.048	10	✓											
11	603	1399		5	✓	✓						✓				OK
12	604	1400	6.135	0	✓			✓	✓							
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

SHIP: Tully
ENTERED BY: MA
CHECKED BY: MA

Bottom Depth: 198

Cast # down: 108
Cast # up: 108

Time	LOC	UTC
Begin:	2216	0516
Bottom:	2221	0521
End:	2236	0536

START POSITION (GPS)
LAT: 51 15.672
LONG: 128 42.955

BOTTOM POSITION (GPS)
LAT: 51 15.734
LONG: 128 43.093

END POSITION (GPS)
LAT: 51 15.986
LONG: 128 43.219

Comments: 02 - RED BOX
NUT-RED TRAY Note: Niskin 11 didn't trip. Sal & CHL samples were taken from Niskin 12 instead.

lanyard crossed

ROSETTE LOG

MISSION ID: 2005-21 STATION: SSS CAST NUMBER: 109 UTC DATE (dd/mm/yyyy): 01/09/2005

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	605	1346	1.700	30T-10	-	193	✓	✓	✓									PDE
2	606	1347	1.818	175	-	176	✓	✓	✓									PDE
3	607	1349	1.938	150	-	150		✓	✓									PDE
4	608	1350	2.320	125	-	126		✓	✓									PDE
5	609	1351	3.156	100	-	100		✓	✓									"
6	610	1352	4.000	75	-	76		✓	✓									OK
7	611	1353	4.588	50	-	50		✓	✓									
8	612	1354	4.946	25	-	25		✓	✓									
9	613	1358	6.079	10	-	10		✓	✓									
10	614	1356	6.071	5	-	5	✓	✓	✓				✓					
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: TULLY
ENTERED BY: _____
CHECKED BY: _____

Bottom Depth: 200

Cast # down: 109
Cast # up: 109

Time	LOC	UTC
Begin:		0717
Bottom:		0722
End:		0733

START POSITION (GPS)
LAT: 51 27 99
LONG: 128 29 95

BOTTOM POSITION (GPS)
LAT: 51 27 93
LONG: 128 29 99

END POSITION (GPS)
LAT: 51 28 02
LONG: 128 29 00

Comments: 02 - GREEN BOX
NUT - GREEN TRAY

ROSETTE LOG

MISSION ID: 2005-21

STATION: 557

CAST NUMBER: 111

UTC DATE (dd/mm/yyyy):

01/09/05

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	616	1136	2.334	bot -10	✓	109.8												POE
2	617	1385	2.501	100	✓	100												"
3	618	1386	2.734	75	✓	75												"
4	619	1434	3.178	50	✓	50			✓									"
5	620	1389	4.009	25	✓	26												OK
6	621	1391	5.341	10	✓	9.6							✓					OK
7	622	1393	6.010	5	✓	5	✓											
8																		
9																		
10																		
11	—	—		L side														
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully
ENTERED BY: KB
CHECKED BY: DT

Bottom Depth: 121

Cast # down: 111
Cast # up: 111

Time	LOC	UTC
Begin:	04:10	11:10
Bottom:	04:15	11:15
End:	04:23	11:23

START POSITION (GPS)
LAT: 51 24 659
LONG: 128 47 719

BOTTOM POSITION (GPS)
LAT: 51 24 619
LONG: 128 47 719

END POSITION (GPS)
LAT: 51 24 593
LONG: 128 47 750

Comments: RED OXX - yellow NUTS

ROSETTE LOG

MISSION ID: 2005-21 STATION: R14 CAST NUMBER: 113 UTC DATE (dd/mm/yyyy): 01/09/2005

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	CI3	CHL				
	624			Bot-5			✓	✓								No bottle fired
1	2	625	1346	2319	250											PDE
2	3	626	1347	2306	200											"
3	4	627	1349	2350	175											"
4	5	628	1384	2354	150											"
5	6	629	1351	2550	125											"
6	7	630	1352	2275	100											"
7	8	631	1353	2941	75											OK
8	9	632	1354	3366	50											
9	10	633	1358	3933	30											OK
10	11	634	1350	4466	20											did not trip
11	12	635	1360	n/a	20											OK
12	13	636	1363	41882	10							✓				OK
13	14	637	1362	41849	5	✓		↓								OK
14	15	638	1375	7.162	0			↓								
16																
17																
18																
19																
20																
21																
22																
23																
24																

Comments: 02 -> GREEN BOX, NUT -> BROWN

SHIP:
ENTERED BY: MA
CHECKED BY: IW

Bottom Depth: 195

Cast # down: 113
Cast # up: 113

Time	LOC	UTC
Begin:		1517
Bottom:		1524
End:		1540

START POSITION (GPS)
LAT: 51 38.88
LONG: 127 26.71

BOTTOM POSITION (GPS)
LAT: 51 38.90
LONG: 127 26.75

END POSITION (GPS)
LAT: 51 38.92
LONG: 127 26.72

ROSETTE LOG

MISSION ID: 2005-21 STATION: R:1 CAST NUMBER: 116 UTC DATE (dd/mm/yyyy): 01/09/2005

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	641	364	2.305	807-5	325		✓	✓										PDE
2	642	572	2.235	807-5	325		✓	✓										PDE
3	643	657	2.409	300			✓	✓										"
4	644	708	2.355	250			✓	✓										"
5	645	709	2.381	200			✓	✓										"
6	646	715	2.460	175			✓	✓										"
7	647	727	2.357	150			✓	✓										OK
8	648	1105	2.351	125			✓	✓										PDE
9	649	1110	2.275	100			✓	✓										OK
10	650	1126	2.678	75			✓	✓										Nisk didn't trip
11	651	1128		50			✓	✓										PDE
12	652	1130	3.366	50			✓	✓										OK
13	653	1134	3.843	30			✓	✓										OK
14	654	1135	3.984	20			✓	✓										OK
15	655	1138	4.159	10			✓	✓										OK
16	656	1142	5.675	5			✓	✓										OK
17	657	1146	6.702	0			✓	✓										
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: 02-7 BLUE BOX, NUT -> WHITE RACK

SHIP: TULLY
ENTERED BY: IW
CHECKED BY: MA

Bottom Depth: 334

Cast # down: 116
Cast # up: 116

Time	LOC	UTC
Begin:		1812
Bottom:		1819
End:		1838

START POSITION (GPS)
LAT: 51 26.44
LONG: 127 38.10

BOTTOM POSITION (GPS)
LAT: 51 26.50
LONG: 127 38.08

END POSITION (GPS)
LAT: 51 26.50
LONG: 127 38.00

ROSETTE LOG

MISSION ID: 2005-21 STATION: 53 CAST NUMBER: 117 UTC DATE (dd/mm/yyyy): 01/09/2005

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	658	1463	1.911	BOT-10	-	155	✓	✓	✓									OK
2	659	1464	1.879	BOT-10	-	155												OK
3	660	1465		150	-	150												OK
4	661	1466	3.495	125	-	125												OK
5	662	1467	2.439	100	-	100												OK
6	663	1468	3.208	75	-	74												OK
7	664	1470	3.549	50	-	50			✓									POE → Bubble
8	665	1471	3.726	30	-	30												OK
9	666	1473	3.881	20	-	20												OK
10	667	1474	4.117	10	-	10							✓					OK
11	668	1475	5.822	5	-	5	✓						✓					OK
12	669	1477	6.001	5	-	5	✓											OK
13	670	1478	6.282	0				✓	✓									
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: White box Oxygen; White rack nuts. NISK 3 DID NOT TRIP UNTIL SURFACE.

SHIP: TULLY
ENTERED BY:
CHECKED BY:

Bottom Depth: 165

Cast # down: 117
Cast # up: 117

Time	LOC	UTC
Begin:		2203
Bottom:		2207
End:		2218

START POSITION (GPS)
LAT: 51 04 31
LONG: 128 05 02

BOTTOM POSITION (GPS)
LAT: 51 04 32
LONG: 128 05 00

END POSITION (GPS)
LAT: 51 04 36
LONG: 128 04 98

ROSETTE LOG

MISSION ID: 2005-21 STATION: GdCh CAST NUMBER: 119

UTC DATE (dd/mm/yyyy):

01 09 2005

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	672	1346	1.985	432	✓ bot-10													PDE
2	673	1347	1.998		✓ 400													PDE
3	674	1349	1.989		✓ 300													"
4	675	1349	1.980		✓ 300													"
5	676	1351	2.227		✓ 250													"
6	677	1352	2.304		✓ 200													"
7	678	1353	2.343		✓ 175				✓									"
8	677	1354	2.490		✓ 150													OK
9	680	1358	2.632		✓ 125													OK
10	681	1356	3.016		✓ 100													OK
11	682	1360	3.293		✓ 75													OK
12	683	1363	3.623		✓ 50													OK
13	684	1362	3.957		✓ 30													OK
14	685	1375	4.252		✓ 20													OK
15	686	1364	4.634		✓ 10													OK
16	687	1361	4.760		✓ 5	✓						✓						
17	688	1368	4.916		✓ 0													
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: NUTS blue ; oxy green

SHIP: TULLY
ENTERED BY:
CHECKED BY:

Bottom Depth: 448

Cast # down: 119
Cast # up:

Time	LOC	UTC
Begin:	1808	0108
Bottom:	1815	0115
End:	1836	0136

START POSITION (GPS)
LAT: 50 54 083
LONG: 127 38 460

BOTTOM POSITION (GPS)
LAT: 50 54 091
LONG: 127 38 470

END POSITION (GPS)
LAT: 50 54 024
LONG: 127 38 588

ROSETTE LOG

MISSION ID: 2005-21 STATION: PCS2 CAST NUMBER: 121

UTC DATE (dd/mm/yyyy):

02/09/2005

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	690	364	2.413	bot-10	✓ 213													PDE
2	691	572	2.384	200	✓													"
3	692	708	2.441	175	✓													"
4	693	657	2.360	150	✓													"
5	694	709	2.363	125	✓													"
6	695	715	2.558	100	✓													"
7	696	727	2.813	75	✓													"
8	697	1105	3.307	50	✓													"
9	698	1110	3.493	30	✓													OK
10	699	1126	3.801	20	✓													OK
11	700	1128	3.933	10	✓													OK
12	701	1130	4.429	5	✓													OK
13	702	1134	4.440	0	✓													
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: JP Tully
ENTERED BY: KCB
CHECKED BY: MA

Bottom Depth: 223

Cast # down: 121
Cast # up: 121

Time	LOC	UTC
Begin:	2209	0509
Bottom:	2214	0514
End:	2230	0530

START POSITION (GPS)
LAT: 50 46.634
LONG: 127 2.374

BOTTOM POSITION (GPS)
LAT: 50 46.655
LONG: 127 2.376

END POSITION (GPS)
LAT: 50 46.652
LONG: 127 2.366

Comments: ORANGE BUTS

ROSETTE LOG

MISSION ID: 2005-21 STATION: KINO CAST NUMBER: 124 UTC DATE (dd/mm/yyyy): 02/09/2005

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	705	1136	2.878	BOT-10	✓ 396			✓										OK
2	706	1385	2.885	300	✓ 300													OK
3	707	1386	2.800	250	✓ 250													PDE
4	708	1434	2.822	200	✓ 200													PDE
5	709	1389	2.731	175	✓ 175													"
6	710	1391	2.865	150	✓ 150													"
7	711	1393	2.904	125	✓ 125													OK
8	712	1394	3.042	100	✓ 100				✓									PDE
9	713	1397	3.298	75	✓ 75													"
10	714	1398	3.585	50	✓ 50													"
11	715	1399	3.797	30	✓ 30													OK
12	716	1400	4.091	20	✓ 20													OK
13	717	1402	4.152	10	✓ 10								✓					OK
14	718	1403	5.017	5	✓ 5			✓										OK
15	719	1404	5.202	5	✓ 5			✓										OK
16		1406																
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: RED NUTS ? Missed a label → this is how I think it might have gone down. OK Bottle 15 did not trip → Shortened lanyard / adjusted bottle height.

SHIP: ENTERED BY: MA CHECKED BY:

Bottom Depth: 399

Cast # down: 124 Cast # up: 124

Time	LOC	UTC
Begin:		0900
Bottom:		0909
End:		0929

START POSITION (GPS) LAT: 50 51 72 LONG: 126 37 15

BOTTOM POSITION (GPS) LAT: 50 51 71 LONG: 126 37 19

END POSITION (GPS) LAT: 50 51 63 LONG: 126 37 20

ROSETTE LOG

MISSION ID: 2005-21 STATION: Tc30 CAST NUMBER: 126 UTC DATE (dd/mm/yyyy): 02/09/2005

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	721	1404	2.675	8-10	✓ 218			1										GK
2	722	1410	2.578	200	✓ 202													OK
3	723	1411	2.634	175	✓ 174													OK
4	724	1424	2.623	150	✓ 151													bubble
5	725	1425	2.635	125	✓ 125													OK
6	726	1426	6.678	100	✓ 100													? Surface
7	727	1427	2.728	75	✓ 75													OK
8	728	1428	3.277	50	✓ 50													OK
9	729	1429	3.570	30	✓ 30													OK
10	730	1430	3.708	20	✓ 20													
11	731	1431	3.885	10	✓ 10													
12	732	1432	4.325	5	✓ 5													
13	733	1433	6.182	0	✓ 1			N	N									
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: TULLY
ENTERED BY: DA/KB
CHECKED BY:

Bottom Depth: 233

Cast # down: 126
Cast # up: 126

Time	LOC	UTC
Begin:	0356	1056
Bottom:	0401	1101
End:	0417	1117

START POSITION (GPS)
LAT: 50 48 943
LONG: 126 25 999

BOTTOM POSITION (GPS)
LAT: 50 48 918
LONG: 126 25 730

END POSITION (GPS)
LAT: 50 48 732
LONG: 126 26 039

Comments: NUTS - Orange rack CXT - labels

ROSETTE LOG

MISSION ID: 2005-21

STATION: QCSI

CAST NUMBER: 128

UTC DATE (dd/mm/yyyy):

02/09/05

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	735	1346	2.622	6-10	✓ 139														
2	736	1347	2.619	125	✓ 125														
3	737	1349	2.912	100	✓ 99														
4	738	1384	3.192	75	✓ 75														
5	739	1351	3.881	50	✓ 50														
6	740	1352	3.830	30	✓ 30			✓											
7	741	1353	3.920	20	✓ 20														
8	742	1354	3.919	10	✓ 10														
9	743	1358	4.027	5	✓ 5	✓						✓							
10	744	1356	4.060	0	✓ 1														
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

SHIP: Tully
ENTERED BY: KB/DT
CHECKED BY:

Bottom Depth: 151

Cast # down: 128
Cast # up: 128

Time	LOC	UTC
Begin:	0740	1440
Bottom:	0744	1444
End:	0755	1455

START POSITION (GPS)
LAT: 50 39 997
LONG: 126 16 282

BOTTOM POSITION (GPS)
LAT: 50 40 020
LONG: 126 16 271

END POSITION (GPS)
LAT: 50 40 034
LONG: 126 16 290

Comments: NUTS green