

ROSETTE LOG

MISSION ID: 2004 - 25 STATION: CPE1 CAST NUMBER: ↓ UTC DATE (dd/mm/yyyy): 3/09/2004

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	1			Bot-10	- 135	✓												
2	2			100	- 100	✓												
3	3			50	- 49	✓												
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
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17																		
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22																		
23																		
24																		

Comments:

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

Bottom Depth: 143

Cast # down: 1
Cast # up: 1

Time	LOC	UTC
Begin:		0215
Bottom:		0220
End:		0226

START POSITION (GPS)
LAT: 51 00.05
LONG: 127 50.09

BOTTOM POSITION (GPS)
LAT: 51 00.04
LONG: 127 50.09

END POSITION (GPS)
LAT: 51 00.04
LONG: 127 50.09

ROSETTE LOG

MISSION ID: 2004-25 STATION: M008 CAST NUMBER: 4 UTC DATE (dd/mm/yyyy): 3/9/2004

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	4			Bot- 5	✓	170	✓											
2	5			100	✓		✓											
3	6			55	✓		✓											
4	7			0.			✓											
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
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23																		
24																		

Comments:

SHIP: JOHN P TULLY

ENTERED BY: MR

CHECKED BY: MR

Bottom Depth: 176

Cast # down: 4

Cast # up:

Time	LOC	UTC
Begin:		1644
Bottom:		1650
End:		1656

START POSITION (GPS)

LAT: 52° 28.53

LONG: 130° 29.01

BOTTOM POSITION (GPS)

LAT: 52° 28.60

LONG: 130° 29.04

END POSITION (GPS)

LAT: 52° 28.77

LONG: 130° 29.08

ROSETTE LOG

MISSION ID: 200H-25

STATION: C102

CAST NUMBER: 10

UTC DATE (dd/mm/yyyy): 09/04/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
1	8			Bot-10	✓ 139	✓												
2	9			100	✓ 98	✓												
3	10			50	✓ 48	✓												
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
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16																		
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19																		
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21																		
22																		
23																		
24																		

Comments:

4 Sept



09/04/2004

SHIP: John P Tully

ENTERED BY: DA

CHECKED BY: DA

Bottom Depth: 147

Cast # down: 10

Cast # up: 10

Time LOC UTC

Begin: 1243

Bottom: 1247

End: 1253

START POSITION (GPS)

LAT: 51 30.26

LONG: 129 37.38

BOTTOM POSITION (GPS)

LAT: 51 30.29

LONG: 129 37 33

END POSITION (GPS)

LAT: 51 30.35

LONG: 129 37.33

ROSETTE LOG

Yellow Rock

MISSION ID: 2004-25

STATION: CS09

CAST NUMBER: 19

UTC DATE (dd/mm/yyyy):

5 / Sep / 2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		ALK.		CHL	W4	
1	11	364	2.234	604-5	✓	185	✓	✓	✓									Large Plankton / additional ml acid
2	12	535	2.195	175	✓		✓	✓										"
3	13	572	2.463	150	✓		✓	✓										"
4	14	657	3.329	125	✓		✓											"
5	15	708	3.298	100	✓		✓											"
6	16	1130	3.573	75	✓		✓											"
7	17	1135	4.352	50	✓		✓											"
8	18	1136	4.478	30	✓		✓											"
9	19	1137	5.306	20	✓		✓					✓	✓					
10	20	1176	5.816	10	✓		✓					✓	✓					
11	21	1235	6.818	5	✓		✓	✓				✓	✓					
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
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22																		
23																		
24																		

SHIP: Tully
ENTERED BY: DA
CHECKED BY: MR

Bottom Depth: 197

Cast # down: 19

Cast # up:

Time	LOC	UTC
Begin:		0254
Bottom:		0259
End:		0312

START POSITION (GPS)
LAT: 51° 12' 50"
LONG: 128° 28' 02"

BOTTOM POSITION (GPS)
LAT: 51° 12' 51"
LONG: 128° 28' 02"

END POSITION (GPS)
LAT: 51° 12' 51"
LONG: 128° 27' 46"

Comments:

ROSETTE LOG

MISSION ID: 2004-25 STATION: CS6 CAST NUMBER: 24 UTC DATE (dd/mm/yyyy): 5 / SEPT / 2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		PH				
						OXY				ALK		CHL						
1	22			Bot. 5	✓	61	✓	✓	✓									Did not close.
2	23	1336	4.059	50	✓		✓	✓	✓									Bubbk
3	24	1344	4.603	30	✓			✓										
4	25	1350	4.719	20	✓							✓	✓					
5	26	1352	6.029	10	✓							✓	✓					
6	27	1353	6.361	5	✓		✓	✓	✓			✓	✓					
7																		
8																		
9																		
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24																		

Comments:

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

Bottom Depth: 65

Cast # down: 24
Cast # up:

Time	LOC	UTC
Begin:		0632
Bottom:		0636
End:		0642

START POSITION (GPS)
LAT: 51 00.01
LONG: 128 50.02

BOTTOM POSITION (GPS)
LAT: 51 00.01
LONG: 128 50.01

END POSITION (GPS)
LAT: 51 00.01
LONG: 128 49.99

ROSETTE LOG

MISSION ID: 2004-25 STATION: CS-4 CAST NUMBER: 33 UTC DATE (dd/mm/yyyy): 5 / Sept / 2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	NH4					
1	28	1142	Bot-5	3.524	✓ 95	✓	✓	✓										Bubbles
2	29	1146	75	3.943	✓	✓												
3	30	1233	50	4.914	✓	✓												
4	31	1237	30	5.421	✓													Younger flasks, 1 additional ml of ACID added
5	32	1238	20	5.484	✓							✓	✓					
6	33	1241	10	5.710	✓							✓	✓					
7	34	1247	5	5.677	✓			✓	✓			✓	✓					
8																		
9																		Left in cooler until
10																		now HQ can replace tops?
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: John P Tully

ENTERED BY: DA

CHECKED BY: MR

Bottom Depth: 100

Cast # down: 33

Cast # up:

Time	LOC	UTC
Begin:		1822
Bottom:		1827
End:		1835

START POSITION (GPS)

LAT: 50 49 19

LONG: 129 13 18

BOTTOM POSITION (GPS)

LAT: 50 49 26

LONG: 129 13 37

END POSITION (GPS)

LAT: 50 49 38

LONG: 129 13 57

ROSETTE LOG

MISSION ID: 2004-25 STATION: CS02 CAST NUMBER: 37 UTC DATE (dd/mm/yyyy): Sept. 5 2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
							OXY				ALK		CHL	NH4				
1	35	1138	1.460	bot-10	✓ 1907	✓												
2	36	1175	0.666	1500	✓ 1500													sm bubble
3	37	1195	0.405	1250	✓ 1250													
4	38	1206	0.254	1000	✓ 999													
5	39	1212	0.253	800	✓ 800													
6	40	1228	0.474	600	✓ 600													sm bubble
7	41	1231	0.959	500	✓ 500													
8	42	1319	0.992	400	✓ 400													
9	43	1351	1.841	300	✓ 299			✓✓										
10	44	1354	2.265	250	✓ 250													
2011	45	1384	2.676	200	✓ 199													Bottle 23 substituted
12	46	1403	2.994	175	✓ 175													
13	47	1404	3.357	150	✓ 150													
14	48	1406	3.783	125	✓ 125													
15	49	1411	4.577	100	✓ 100													
16	50	1417	4.127	75	✓ 75													
17	51	1421	5.122	50	✓ 50													
18	52	1422	4.756	30	✓ 29													
19	53	1424	5.197	20	✓ 20								✓	✓✓				
20	54	1425	5.854	10	✓ 10								✓✓	✓✓				
21	55	1426	6.235	5	✓ 5	✓	✓	✓					✓	✓✓				
22																		
23																		
24																		

Comments: Blue Nut rack.

SHIP: JP TULLY
ENTERED BY: dy
CHECKED BY:

Bottom Depth: 1915

Cast # down: 37
Cast # up:

Time	LOC	UTC
Begin:	1412	2112
Bottom:	1434	2134
End:		2227

START POSITION (GPS)
LAT: 50 41.26
LONG: 129 27.93

BOTTOM POSITION (GPS)
LAT: 50 41.30
LONG: 129 28.02

END POSITION (GPS)
LAT: 50 41.27
LONG: 129 27.89

ROSETTE LOG

MISSION ID: 2004-25 STATION: CS00 CAST NUMBER: 41 UTC DATE (dd/mm/yyyy): 06/09/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL	NH4				
1	56	1248	1.381	2000	✓	2005	✓											
2	57	1258	0.658	1500	✓		✓											
3	58	1260	0.403	1250	✓		✓		✓									
4	59	1279	0.249	1000	✓													
5	60	1280	0.278	800	✓													
6	61	1281	0.604	600	✓													
7	62	1284	0.941	500	✓													
8	63	1313	1.467	400	✓													
9	64	1324	2.424	300	✓													
10	65	1325	3.602	200	✓													
23 11	66	1326	3.965	175	✓													
12	67	1327	4.293	150	✓													
13	68	1428	4.782	125	✓													
14	69	1429	5.035	100	✓													
15	70	1435	5.962	75	✓													
16	71	1438	6.781	50	✓													
17	72	1439	6.901	30	✓													
18	73	1458	6.084	20	✓								✓	✓				
19	74	1460	5.715	10	✓								✓	✓				
20	75	1270	5.697	5	✓			✓	✓				✓	✓				
21																		
22																		
23																		
24																		

ROSETTE LOG

MISSION ID: 2004-25 STATION: LBP3 CAST NUMBER: 53 UTC DATE (dd/mm/yyyy): 6/Sept/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												Case left in cooler with new H ₂ O to seal flasks
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	NH4					
1	76	1138	2.048	But-5	✓	163	✓	✓	✓									
2	77	1173	2.157	150	✓	150	✓											Sm. bubble
3	78	1195	2.231 / 2.184	Sample 978 / Blank 1206	✓	125	✓	✓										Yg. "
4	79	1212	2.418	100	✓	100												Sm. " / Sm. "
5	80	1228	3.235	75	✓	75			✓									Yg. "
6	81	1231	3.803 / 3.584	Sample 981 / Blank 1319	✓	50		✓										Sm. "
7	82	1351	3.587	30	✓	30												Sm. / Sm. "
8	83	1354	3.630	20	✓	20						✓	✓					Sm. bubble
9	84	1348	4.407	10	✓	10						✓	✓					" "
10	85	1403	4.936 / 4.966	Sample 985 / Blank 1404	✓	5		✓				✓	✓					" "
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: #978- DO old reagents = 2.164 updated with ~~new~~ Standard + Blank
#981- ✓ ✓ ✓ = 3.553 values not necessary - use same Standard values
#985- ✓ ✓ ✓ = 4.922

SHIP: John P TULLY
ENTERED BY: MR
CHECKED BY: DY
Bottom Depth: 168
Cast # down: 53
Cast # up:
Time LOC UTC
Begin: 1924
Bottom: 1926
End: 1941
START POSITION (GPS)
LAT: 50 03.19
LONG: 127 55.30
BOTTOM POSITION (GPS)
LAT: 50 03.20
LONG: 127 55.31
END POSITION (GPS)
LAT: 50 03.15
LONG: 127 55.23

bam 2001 rosette.xls

ROSETTE LOG

MISSION ID: 2004-25 STATION: LBP5 CAST NUMBER: 55 UTC DATE (dd/mm/yyyy): Sept 6/04

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	NH4					
1	86	1142	0.503	3-10	✓	1280	✓	✓	✓									
2	87	1146	0.324	1000	✓	1000	✓											
3	88	1237	0.288	800	✓	800	✓											
4	89	1233	0.578	600	✓	599												
5	90	1238	0.925	500	✓	500												
6	91	1241	1.142	400	✓	400												
7	92	1247	1.547	300	✓	299												
8	93	1248	Sample 993 flask 1258	250	✓	249		✓								93: 1.413 993: 1.821		
9	94	1260	1.995	200	✓	200												
10	95	1279	2.249	175	✓	175												
11	96	1280	2.389	150	✓	149												
12	97	1281	3.057	125	✓	125												
13	98	1284	Sample 998 flask 1313	100	✓	100		✓								98: 3.771 998: 3.771		
14	99	1324	3.434	75	✓	75												
15	100	1325	3.614	50	✓	50			✓									
16	101	1326	4.143	30	✓	30												
17	102	1327	4.437	20	✓	20						✓	✓					
18	103	1428	5.500	10	✓	10						✓	✓					
19	104	1429	Sample 9104 flask 1435	5	✓	5		✓	✓			✓	✓			104: 6.405 9104: 6.425		
20																		
21																		
22																		
23																		
24																		

Comments: white nts rack.
oxygen duplicates with old reagents: 993, 998, 9104
DO = 1.872 3.763 6.405
) updated using new blanks & standard values

SHIP: Tully
ENTERED BY: DRY
CHECKED BY:

Bottom Depth: 1290

Cast # down: 55
Cast # up:

Time	LOC	UTC
Begin:	1416	2116
Bottom:	1413	2113
End:		2221

START POSITION (GPS)
LAT: 50 0.00
LONG: 127 59.97

BOTTOM POSITION (GPS)
LAT: 50 0.01
LONG: 128 0.02

END POSITION (GPS)
LAT: 49 59.99
LONG: 128 00.02

ROSETTE LOG

MISSION ID: 2604-25 STATION: LBP7 CAST NUMBER: 58 UTC DATE (dd/mm/yyyy): 7/09/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
							OXY			ALK.		CHL	N44					
1	105	364	1.553	2100 2097	✓	2097	X	X	X									
2	106	535	1.376	2000	✓	2000												
3	107	572	0.660	1500	✓	1500												
4	108	657	0.354	1250	✓	1248			X									
5	109	708	0.249	1000	✓	1000												
6	110	1130	0.231	800	✓	798												Sample 1110 1135 0.232
7	111	1136	0.460	600	✓	600		✓										
8	112	1137	0.725	500	✓	499												
9	113	1176	1.243	400	✓	400												
10	114	1235	1.891	300	✓	299		✓										Sample 1140 1334 1.904
11	115	1336	2.831	250	✓	250												
12	116	1344	3.203	200	✓	200												
13	117	1350	3.638	175	✓	175		✓										Sample 1170 1352 3.547
14	118	1353	4.376	150	✓	1418												
15	119	1398	4.491	125	✓	125												
16	120	1391	5.049	100	✓	99												
17	121	1393	6.350	75	✓	75												
18	122	1377	6.771	50	✓	50												
19	123			30	✓	29												No Sample
20	124	1309	6.098	20	✓	20						✓	✓					
21	125	1400	5.778	10	✓	10						✓	✓					
22	126	1407	5.690	5	✓	5	✓	✓	✓			✓	✓					
23																		
24																		

SHIP: John P. Tully
ENTERED BY: DA
CHECKED BY: DABottom Depth: 2198Cast # down: 58Cast # up: 58

Time	LOC	UTC
Begin:		0036
Bottom:		0059
End:		0204

START POSITION (GPS)
LAT: 49 52.41
LONG: 128 11.18BOTTOM POSITION (GPS)
LAT: 49 52.42
LONG: 128 11.19END POSITION (GPS)
LAT: 49 52.41
LONG: 128 11.18Comments: Duplicates picked with old chemicals

1110	DO =	0.242
1140	=	1.905
1170	=	3.540

not needed
updated values using old standard + blank 1 hfo

ROSETTE LOG

MISSION ID: 2004-25 STATION: L66 CAST NUMBER: 66 UTC DATE (dd/mm/yyyy): 07/Sept/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		M4				
1	127	1138	0.235	Bot-10	✓ 988	✓	✓	✓										
2	128	1175	0.266	800	✓													
3	129	1206	0.535	600	✓													
4	130	1212	0.750	500	✓													
5	131	1231	1.139	400	✓													
6	132	1228	1.612	300	✓													
7	133	1319	3.239	250	✓													
8	134	1351	2.363	200	✓													
9	135	1354	2.398	175	✓													
10	136	1384	2.762	150	✓			✓										
11	137	1403	3.459	125	✓													
12	138	1404	3.821	100	✓													
13	139	1406	4.461	75	✓													
14	140	1411	6.164	50	✓													
15	141	1417	6.667	30	✓								✓	✓				
16	142	1421	6.150	20	✓								✓	✓				
17	143	1426	6.309	10	✓								✓	✓				
18	144	1422	6.380	5			✓	✓	✓				✓	✓				
19								3										
20								OK										
21								LC										
22								LA										
23								ER										
24								Y										

Comments:

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

Bottom Depth: 967 988

Cast # down: 66
Cast # up: 66

Time	LOC	UTC
Begin:	1021	1721
Bottom:		1734
End:		1807

START POSITION (GPS)
LAT: 49 03 500
LONG: 127 01 219

BOTTOM POSITION (GPS)
LAT: 49 03 46
LONG: 127 01 38

END POSITION (GPS)
LAT: 49 03 23
LONG: 127 01 72

ROSETTE LOG

MISSION ID: 2004-25 STATION: LG4 CAST NUMBER: 68 UTC DATE (dd/mm/yyyy): 7/09/2009

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3						
							OXY				ALK		CHL	NH4				
1	145	1195	1.991	bot-5	✓	140	✓											
2	146	1424	2.213	125	✓	125	✓											
3	147	1425	3.092	100	✓	99	✓											
4	148	1427	3.479	75	✓	74												
5	149	1430	3.070	50	✓	49												
6	150	1431	3.481	30	✓	29												
7	151	1455	5.214	20	✓	20							✓	✓				
8	152	1456	7.224	10	✓	9			✓				✓	✓				
9	153	1457	8.345	5	✓	5		✓	✓				✓	✓				
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: red rack for nutrients

SHIP: Tully

ENTERED BY: 84

CHECKED BY:

Bottom Depth: 196

Cast # down: 68

Cast # up:

Time	LOC	UTC
Begin:	1305	2005
Bottom:	1309	2009
End:		2021

START POSITION (GPS)

LAT: 49 11 31

LONG: 126 49.40

BOTTOM POSITION (GPS)

LAT: 49 11 32

LONG: 126 49.39

END POSITION (GPS)

LAT: 49 11 35

LONG: 126 49 43

ROSETTE LOG

MISSION ID: 2004-25 STATION: LG2 CAST NUMBER: 72 UTC DATE (dd/mm/yyyy): 07/09/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK		CHL	NH4					
1	154	1256	2.867	60+5	✓ 96	✓												
2	155	1267	3.902	75	✓ 75	✓												
3	156	1268	4.119	50	✓ 50	✓												
4	157	1272	4.802	30	✓ 30			✓										
5	158	1273	5.639	20	✓ 20							✓	✓					
6	159	1274	6.604	10	✓ 10							✓	✓					
7	160	1276	8.317	5	✓ 5							✓	✓					
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 101

Cast # down: 72
Cast # up: 72

Time	LOC	UTC
Begin:		2224
Bottom:		2227
End:		2235

START POSITION (GPS)
LAT: 49 18 73
LONG: 126 38 09

BOTTOM POSITION (GPS)
LAT: 49 18 72
LONG: 126 38 06

END POSITION (GPS)
LAT: 49 18 72
LONG: 126 38 02

Comments:

ROSETTE LOG

MISSION ID: 2004-25 STATION: LGI CAST NUMBER: 73 UTC DATE (dd/mm/yyyy): 07/09/2004

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	161	1278	2.932	bot-5	48	✓												Wrong flask from John
2	162			30	30	✓												Did not fire
3	163	1441	4.932	20	18	✓					✓	✓						
4	164	1442	6.413	10	7						✓	✓						
5	165	1443	7.550	5	4.5		✓	✓			✓	✓						
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: John P Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 54

Cast # down: 73
Cast # up: 73

Time	LOC	UTC
Begin:		2313
Bottom:		2315
End:		2321

START POSITION (GPS)
LAT: 49 20.51
LONG: 126 35.03

BOTTOM POSITION (GPS)
LAT: 49 20.52
LONG: 126 35.02

END POSITION (GPS)
LAT: 49 20.49
LONG: 126 34.99

ROSETTE LOG

MISSION ID: 2004-25 STATION: 402 CAST NUMBER: 75 UTC DATE (dd/mm/yyyy): 8 09 2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		NU4				
1	166	1433	3.578	Bot - 5	✓ 37	✓	✓	✓										
2	167	1398	3.727	30	✓	✓	✓	✓										
3	168	1410	4.784	20	✓	✓	✓	✓				✓	✓					
4	169	1432	5.687	10	✓		✓	✓				✓	✓					
5	170	1434	7.936	5	✓		✓	✓				✓	✓					
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: John P Tully
ENTERED BY: ML
CHECKED BY: DT

Bottom Depth: 46

Cast # down: 75
Cast # up: 75

Time LOC UTC
Begin: 2100 0400
Bottom: 2101 0401
End: 2106 0406

START POSITION (GPS)
LAT: 48 58.355
LONG: 125 47.084

BOTTOM POSITION (GPS)
LAT: 48 58 348
LONG: 125 47 098

END POSITION (GPS)
LAT: 48 58 349
LONG: 125 47 110

ROSETTE LOG

MISSION ID: 2004-25 STATION: LD4 CAST NUMBER: 78 UTC DATE (dd/mm/yyyy): 08 09 2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL		NH4				
1	171	1267	3.067	B-10	✓ 50	✓	✓	✓							✓			
2	172	1256	2.990	50	✓	✓	✓	✓										
3	173	1272	4.272	30	✓	✓	✓	✓										
4	174	1268	4.854	20	✓		✓	✓				✓		✓				
5	175	1274	5.809	10	✓		✓	✓				✓		✓				
6	176	1273	8.061	5	✓		✓	✓				✓		✓				
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: JON P MEX
ENTERED BY: DS
CHECKED BY: MR

Bottom Depth: 65

Cast # down: 78
Cast # up:

Time	LOC	UTC
Begin:		0527
Bottom:		0530
End:		0536

START POSITION (GPS)
LAT: 48° 53.15
LONG: 125° 57.03

BOTTOM POSITION (GPS)
LAT: 48° 53.15
LONG: 125° 57.03

END POSITION (GPS)
LAT: 48° 53.15
LONG: 125° 57.06

ROSETTE LOG

MISSION ID: 2004-25 STATION: L06 CAST NUMBER: 81 UTC DATE (dd/mm/yyyy): 08 09 2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		NH4				
						OXY				ALK		CHL						
1	177	1278	1.860	But-5	✓ 132	✓		✓										
2	178	1276	2.117	125	✓ 125	✓												
3	179	1441	3.303	100	✓ 100	✓												
4	180	1442	4.266	75	✓ 75													
5	181	1443	5.519	50	✓ 50													
6	182	1440	5.860	30	✓ 30													
7	183	1444	5.959	20	✓ 20								✓	✓				
8	184	1446	6.491	10	✓ 10								✓	✓				
9	185	1445	6.395	5	✓ 5			✓	✓				✓	✓				
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Tully
ENTERED BY: dyf
CHECKED BY:

Bottom Depth: 138

Cast # down: 81
Cast # up:

Time	LOC	UTC
Begin:	0038	0738
Bottom:	0041	0741
End:	0054	0754

START POSITION (GPS)
LAT: 48 46.16
LONG: 126 10.12

BOTTOM POSITION (GPS)
LAT: 48 46.14
LONG: 126 10.12

END POSITION (GPS)
LAT: 48 46.08
LONG: 126 10.18

ROSETTE LOG

MISSION ID: 2004-25 STATION: LD08 CAST NUMBER: 83 UTC DATE (dd/mm/yyyy): Sept 8, 2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL	NH4				
1	186	1146	0.274	600	✓ 758	✓												
2	187	1142	0.465	600	✓ 599	✓												
3	188	1237	0.839	500	✓ 499	✓												
4	189	1233	1.145	400	✓ 399													
5	190	1238	1.565	300	✓ 300													
6	191	1241	1.801	250	✓ 250													
7	192	1247	2.172	200	✓ 201													
8	193	1248	2.406	175	✓ 174													
9	194	1258	2.596	150	✓ 150													
10	195	1260	2.657	125	✓ 125													
11	196	1280	3.951	100	✓ 100													
12	197	1279	4.678	75	✓ 75													
13	198	1281	6.082	50	✓ 50													
14	199	1284	6.355	30	✓ 30													
15	200	1313	6.224	20	✓ 20							✓	✓					
16	201	1324	6.163	10	✓ 10							✓	✓					
17	202	1326	6.305	5	✓ 5							✓	✓					
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

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

Bottom Depth: 776

Cast # down: 83
Cast # up:

Time	LOC	UTC
Begin:	0256	0956
Bottom:	0311	1011
End:		1041

START POSITION (GPS)
LAT: 48 39 21
LONG: 126 23 37

BOTTOM POSITION (GPS)
LAT: 48 39 23
LONG: 126 23 17

END POSITION (GPS)
LAT: 48 39 26
LONG: 126 22 48

ROSETTE LOG

MISSION ID: 2004-25 STATION: LD11 CAST NUMBER: 87 UTC DATE (dd/mm/yyyy): 8 Sept 2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		PH				
1	203	364	0.871	Bot-10	✓ 1613	✓		✓										
2	204	535	0.722	1500	✓													
3	205	572	0.416	1250	✓													
4	206	657	0.227	1000	✓													
5	207	708	0.237	800	✓													
6	208	1130	0.511	600	✓													
7	209	1135	0.742	500	✓													
8	210	1136	1.101	400	✓													
9	211	1137	1.650	300	✓													
10	212	1176	1.906	250	✓													
2311	213	1235	3.182	200	✓													
12	214	1334	3.947	175	✓													
13	215	1336	4.280	150	✓				✓									
14	216	1344	4.092	125	✓													
15	217	1350	4.431	100	✓													
16	218	1352	5.859	75	✓													
17	219	1353	6.387	50	✓													
18	220	1389	6.506	30	✓								✓	✓				
19	221	1391	6.210	20	✓								✓	✓				Sample during 19 A
20	222	1393	5.861	10	✓								✓	✓				
21	223	1400	5.996	5	✓								✓	✓				
22																		
23																		
24																		

Comments:

SHIP: John P. Tully
ENTERED BY: MK
CHECKED BY: MK

Bottom Depth: 1620

Cast # down: 87
Cast # up:

Time	LOC	UTC
Begin:		1458
Bottom:		1524
End:		1617

START POSITION (GPS)
LAT: 48° 28' 75"
LONG: 126° 42' 97"

BOTTOM POSITION (GPS)
LAT: 48° 28' 50"
LONG: 126° 42' 86"

END POSITION (GPS)
LAT: 48° 27' 84"
LONG: 126° 42' 28"

ROSETTE LOG

MISSION ID: 2004-25 STATION: LCO9 CAST NUMBER: 92 UTC DATE (dd/mm/yyyy): 09/09/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	NH4					
1	224	1146	0.496	Bot-10	-	611												
2	225	1142	0.446	600	-	599												
3	226	1233	0.778	500	-	500												
4	227	1237	1.148	400	-	400		X										
5	228	1238	1.560	300	-	300												
6	229	1241	2.144	200	-	200												
7	230	1247	2.334	175	-	175												
8	231	1249	2.744	150	-	149												
9	232	1258	3.085	125	-	124												
10	233	1260	3.886	100	-	100												
2311	234	1279	5.095	75	-	75												
12	235	1280	6.397	50	-	50												
13	236	1281	6.359	30	-	30												
14	237	1284	6.293	20	-	20												
15	238	1313	5.916	10	-	10												
16	239	1304	5.947	5	-	5												
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Cannot find nutrient samples?

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

Bottom Depth: 624

Cast # down: 92
Cast # up: 92/93
20 m ✓

Time	LOC	UTC
Begin:		0047
Bottom:		0055
End:		0128

START POSITION (GPS)
LAT: 48 25.93
LONG: 126 13.82

BOTTOM POSITION (GPS)
LAT: 48 25.91
LONG: 126 13.86

END POSITION (GPS)
LAT: 48 25.93
LONG: 126 13.73

ROSETTE LOG

MISSION ID: 2004-25 STATION: LC6/B6 CAST NUMBER: 98 UTC DATE (dd/mm/yyyy): 9/Sept/04

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3		NUT				
1	240	1397	1.915	Bot - 10	✓ 88	✓	✓	✓										
2	241	1399	2.385	75	✓	✓												HAVE A WHIFF OF STINKY TO THEM
3	242	1407	3.295	50	✓	✓												
4	243	1433	3.663	30	✓													
5	244	1398	4.465	20	✓							✓	✓					
6	245	1410	5.668	10	✓							✓	✓					
7	246	1434	7.506	5	✓			✓	✓			✓	✓					
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

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

Bottom Depth: 95

Cast # down: 98
 Cast # up:

Time	LOC	UTC
Begin:		0511
Bottom:		0514
End:		0522

START POSITION (GPS)
 LAT: 48° 36.47
 LONG: 125° 54.03

BOTTOM POSITION (GPS)
 LAT: 48° 36.47
 LONG: 125° 54.03

END POSITION (GPS)
 LAT: 48° 36.47
 LONG: 125° 54.01

Comments:

ROSETTE LOG

MISSION ID: 2004-25 STATION: LC4 CAST NUMBER: 102 UTC DATE (dd/mm/yyyy): Sept 9/04

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		WHA				
							OXY				ALK		CHL					NO MILLIG
1	247	1256	2.396	Bot. 5	✓ 160	✓		✓										
2	248	1267	2.438	150	✓ 150	✓		✓										
3	249	1268	2.603	125	✓ 124	✓												SMALL BUBBLE
4	250	1272	2.720	100	✓ 100													
5	251	1277	3.101	75	✓ 75													SMALL BUBBLE
6	252	1274	3.640	50	✓ 50													SMALL BUBBLE
7	253	1276	4.011	30	✓ 30													SMALL BUBBLE
8	254	1278	4.486	20	✓ 20								✓	✓				SMALL BUBBLE
9	255	1440	5.090	10	✓ 10								✓	✓				SMALL BUBBLE
10	256	1441	5.722	5	✓ 5								✓	✓				
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
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22																		
23																		
24																		

Comments:

SHIP: Tully
ENTERED BY: DY
CHECKED BY:

Bottom Depth: 170

Cast # down: 102
Cast # up:

Time	LOC	UTC
Begin:	0050	0750
Bottom:	0054	0754
End:	0109	0809

START POSITION (GPS)
LAT: 48 43.48
LONG: 125 40.80

BOTTOM POSITION (GPS)
LAT: 48 43.51
LONG: 125 40.80

END POSITION (GPS)
LAT: 48 44.00
LONG: 125 40.78

ROSETTE LOG

MISSION ID: 2004-25 STATION: LC02 CAST NUMBER: 104 UTC DATE (dd/mm/yyyy): 09/09/04

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK.		CHL						
1	157	1138	2.597	15	✓ 105	✓												
2	258	1175	3.396	25	✓ 74	✓												
3	259	1206	3.424	50	✓ 51	✓												
4	260	1212	3.835	30	✓ 30													
5	261	1231	4.315	20	✓ 20			✓				✓	✓					
6	262	1228	6.361	10	✓ 9							✓	✓					
7	263	1316	6.297	5	✓ 5							✓	✓					
8																		
9																		
10																		
11																		
12																		
13																		
14																		
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17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

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

Bottom Depth: 110

Cast # down: 104

Cast # up:

Time	LOC	UTC
Begin:	0253	0953
Bottom:	0255	0955
End:		1003

START POSITION (GPS)
LAT: 48 48.70
LONG: 125 30.94

BOTTOM POSITION (GPS)
LAT: 48 48.71
LONG: 125 30.93

END POSITION (GPS)
LAT: 48 48.75
LONG: 125 30.88

ROSETTE LOG

MISSION ID: 2004-25 STATION: LCI CAST NUMBER: 105 UTC DATE (dd/mm/yyyy): 9/9/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
						OXY				ALK		CHL	NH4					
1	264	1351	3.106	bot-5	✓ 90	✓		✓										AS LOG ALL OTHER INFO ✓
2	265	1354	3.365	75	✓ 75	✓												
3	266	1384	3.570	50	✓ 49	✓												
4	267	1403	3.912	30	✓ 20													
5	268	1404	4.169	20	✓ 20							✓	✓					
6	269	1406	4.689	10	✓ 10							✓	✓					
7	270	1411	6.051	5	✓ 5							✓	✓					
8																		
9																		
10																		
11																		
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22																		
23																		
24																		

Comments:

SHIP: Tully
ENTERED BY: DY
CHECKED BY:

Bottom Depth: 96

Cast # down: 105
Cast # up:

Time	LOC	UTC
Begin:	0343	1043
Bottom:	0345	1045
End:	0354	1054

START POSITION (GPS)
LAT: 48 50.44
LONG: 125 27.73

BOTTOM POSITION (GPS)
LAT: 48 50.45
LONG: 125 27.71

END POSITION (GPS)
LAT: 48 50.45
LONG: 125 27.71

ROSETTE LOG

MISSION ID: 2004-25 STATION: LBI CAST NUMBER: 106 UTC DATE (dd/mm/yyyy): 09/09/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
						OXY				ALK		CHL	PH					
1	271	1417	3.677	bat-10	✓ 30	✓												
2	272	1481	3.764	20	✓ 20	✓							✓	✓				
3	273	1426	5.474	10	✓ 7	✓							✓	✓				
4	274	1428	5.682	5	✓ 5								✓	✓				
5																		
6																		
7																		
8																		
9																		
10																		
11																		
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20																		
21																		
22																		
23																		
24																		

SHIP: John P Tully

ENTERED BY: DA

CHECKED BY: DA

Bottom Depth: 35

Cast # down: 106

Cast # up: 106

Time	LOC	UTC
Begin:		1315
Bottom:		1318
End:		1322

START POSITION (GPS)

LAT: 46 40.40

LONG: 124 59.53

BOTTOM POSITION (GPS)

LAT: 48 40.41

LONG: 124 59.56

END POSITION (GPS)

LAT: 48 40 41

LONG: 124 59 65

Comments:

ROSETTE LOG

MISSION ID: 2004-25 STATION: L32 CAST NUMBER: 107 UTC DATE (dd/mm/yyyy): 09/09/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	NH4					
1	275	1195	3.584	Bot-5	50	x												
2	276	1424	3.750	30	30	x												
3	277	1425	4.335	20	20	x								/	✓			
4	278	1427	4.332	10	10									✓	✓			
5	279	1430	4.819	5	5									-	✓			
6																		
7																		
8																		
9																		
10																		
11																		
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Comments:

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

Bottom Depth: 57

Cast # down: 107
Cast # up: 107

Time	LOC	UTC
Begin:		1356
Bottom:		1358
End:		1403

START POSITION (GPS)
LAT: 48 39.01
LONG: 125 02.42

BOTTOM POSITION (GPS)
LAT: 48 39.01
LONG: 125 02.42

END POSITION (GPS)
LAT: 48 39.04
LONG: 125 02.41

ROSETTE LOG

MISSION ID: 2001-25 STATION: L64 CAST NUMBER: 109 UTC DATE (dd/mm/yyyy): 9/9/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
							OXY				ALK		CHL	NH4				
1	280	1431	1.954	Bot-10	✓ 108	x												1st NETER WRONG BOTTOM DEPTH
2	281	1455	2.034	75	✓	x												WRONG BOTTOM DEPTH
3	282	1456	2.864	50	✓	x												
4	283	1457	3.218	30	✓													
5	284	1459	3.426	20	✓				✓			✓	✓					
6	285	1462	3.937	10	✓							✓	✓					
7	286	1471	4.926	5	✓			✓	✓			✓	✓					
8																		
9																		
10																		
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Comments:

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

Bottom Depth: 115

Cast # down: 109
Cast # up:

Time	LOC	UTC
Begin:		1514
Bottom:		1519
End:		1527

START POSITION (GPS)
LAT: 48 35.66
LONG: 125 08 81

BOTTOM POSITION (GPS)
LAT: 48 35.65
LONG: 125 08.89

END POSITION (GPS)
LAT: 48 35.64
LONG: 125 09.06

ROSETTE LOG

MISSION ID: 2004-25 STATION: L36 CAST NUMBER: 111 UTC DATE (dd/mm/yyyy): 9 9 2004

ROSETTE OPERATION		Samples taken													
Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		WTD	
							OXY				ALK		CHL		

1	287	1142	1.800	Bot-10	✓ 108	✓	✓	✓							
2	288	1146	2.327	75	✓	✓		✓							
3	289	1233	2.882	50	✓										
4	290	1237	3.093	30	✓										
5	291	1238	3.335	20	✓							✓	✓		
6	292	1241	3.927	10	✓							✓	✓		
7	293	1247	4.589	5	✓		✓	✓				✓	✓		
8															
9															
10															
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SHIP: John P Tully
ENTERED BY: M2
CHECKED BY: DT

Bottom Depth: 117

Cast # down: 111

Cast # up:

Time	LOC	UTC
Begin:	0936	1636
Bottom:	0939	1639
End:		1646

START POSITION (GPS)	
LAT:	48 32 09
LONG:	125 15 67

BOTTOM POSITION (GPS)	
LAT:	48 32 093
LONG:	125 15 720

END POSITION (GPS)	
LAT:	48 32 077
LONG:	125 15 847

Comments:

ROSETTE LOG

MISSION ID: 2004-25 STATION: 438 CAST NUMBER: 113 UTC DATE (dd/mm/yyyy): 9 9 2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	NH4					
1	295	1248	1.248	8-10	✓	150	✓	✓	✓									
2	296	1258	1.270	125	✓		✓	✓	✓									
3	297	1260	1.377	100	✓		✓	✓	✓									
4	298	1279	2.303	75	✓			✓	✓									
5	299	1280	2.666	50	✓			✓	✓									
6	300	1281	3.201	30	✓			✓	✓									
7	301	1284	3.939	20	✓			✓	✓			✓	✓	✓	✓			
8	302	1313	6.968	10	✓			✓	✓			✓	✓	✓	✓			
9	303	1324	7.215	5	✓			✓	✓			✓	✓	✓	✓			
10																		
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Comments:

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

Bottom Depth: 158

Cast # down: 113
Cast # up:

Time	LOC	UTC
Begin:		1821
Bottom:		1826
End:		1836

START POSITION (GPS)
LAT: 48 25.31
LONG: 125 28.69

BOTTOM POSITION (GPS)
LAT: 48 25.31
LONG: 125 28.77

END POSITION (GPS)
LAT: 48 25.35
LONG: 125 28.93

ROSETTE LOG

MISSION ID: 2004-25 STATION: LB9 CAST NUMBER: 114 UTC DATE (dd/mm/yyyy): 9-9-04

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL	NH4				
1	304	1325	1.720	B-5	✓ 148	✓	✓	✓										
2	305	1326	1.749	125	✓ 125	✓												radio delay
3	306	1327	1.682	100	✓ 99	✓												
4	307	1428	2.249	75	✓ 75													
5	308	1429	3.209	50	✓ 51													
6	309	1435	3.740	30	✓ 29		✓											
7	310	1438	4.613	20	✓ 21									✓	✓			
8	311	1439	6.313	10	✓ 10									✓	✓			
9	312	1458	7.454	5	✓ 5									✓	✓			
10																		
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Comments:

SHIP: TULLY
ENTERED BY: Dey
CHECKED BY: Dey

Bottom Depth: 153

Cast # down: 114
Cast # up: 119

Time	LOC	UTC
Begin:		1918
Bottom:		1920
End:		1934

START POSITION (GPS)
LAT: 98 22.00
LONG: 125 34.97

BOTTOM POSITION (GPS)
LAT: 98 22.00
LONG: 125 34.99

END POSITION (GPS)
LAT: 48 21.98
LONG: 125 34.79

ROSETTE LOG

MISSION ID: 2004-25 STATION: LB11 CAST NUMBER: 116 UTC DATE (dd/mm/yyyy): 9-9-04

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
							OXY			ALK		CHL	NH4					
1	312313	535	1.697	60+5	200	✓												
2	313314	364	1.627	175	173	✓												
3	314315	572	2.167	150	149	✓												
4	315316	657	2.518	125	125			✓										
5	316317	708	3.206	100	100													
6	317318	1130	4.924	75	75													
7	318319	1135	6.185	50	49													
8	319320	1136	6.520	30	30													
9	320321	1137	6.063	20	20							✓	✓					
10	321322	1176	6.177	10	10							✓	✓					
11	322323	1235	6.214	5	5							✓	✓					
12																		
13																		
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Comments:

SHIP: John P Tully
ENTERED BY: DFM
CHECKED BY: DRY

Bottom Depth: 205

Cast # down: 116
Cast # up: 116

Time	LOC	UTC
Begin:		2120
Bottom:		2123
End:		2146

START POSITION (GPS)
LAT: 98 15.19
LONG: 125 47.70

BOTTOM POSITION (GPS)
LAT: 98 15.18
LONG: 125 47.71

END POSITION (GPS)
LAT: 98 15.20
LONG: 125 47.90

ROSETTE LOG

MISSION ID: 2004-25 STATION: LB12 CAST NUMBER: 117 UTC DATE (dd/mm/yyyy): 9-9-04

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13				
							OXY			ALK		CHL	NH4			
1	324	1334	0.825	8-5	500	✓	✓	✓								
2	325	1336	0.837	500	499	✓		✓								
3	326	1344	1.161	400	400	✓										
4	327	1350	1.844	300	300											
5	328	1352	2.138	250	250											
6	329	1353	2.411	200	199											
7	330	1389	2.576	175	175											
8	331	1391	2.815	150	150			✓								
9	332	1393	3.227	125	125											
10	333	1397	3.685	100	100											
11	334	1398	4.202	75	75											
12	335	1399	5.786	50	50											
13	336	1400	6.588	30	30											
14	337	1407	6.358	20	20							✓	✓			
15	338	1410	6.167	10	10							✓	✓			
16	339	1432	5.936	5	4.9							✓	✓			
17																
18																
19																
20																
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23																
24																

Comments:

SHIP: John P. Tilly
ENTERED BY: DFM
CHECKED BY: DRY

Bottom Depth: 510

Cast # down: 117
Cast # up:

Time	LOC	UTC
Begin:		2241
Bottom:		2248
End:		2327

START POSITION (GPS)
LAT: 48 12.94
LONG: 125 51.83

BOTTOM POSITION (GPS)
LAT: 48 12.93
LONG: 125 51.83

END POSITION (GPS)
LAT: 48 12.92
LONG: 125 51.83

ROSETTE LOG

MISSION ID: 2004-25 STATION: LB14 CAST NUMBER: 119 UTC DATE (dd/mm/yyyy): 10/09/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	PH					
1	340	1256	0.410	Bot-10	✓	1180	X	X	X									No MLR
2	341	1267	0.240	1000	✓	999												
3	342	1268	0.205	800	✓	800												
4	343	1272	0.525	600	✓	600			✓									Small BUBBLE
5	344	1273	0.856	500	✓	500												
6	345	1274	1.254	400	✓	400												
7	346	1276	1.525	300	✓	300												
8	347	1278	1.834	250	✓	250												
9	348	1440	2.133	200	✓	199												
10	349	1441	1.643	175	✓	175												
11	350	1442	2.454	150	✓	150												
12	351	1443	2.990	125	✓	125												
13	352	1446	3.964	100	✓	100												
14	353	1444	5.224	75	✓	75												
15	354	1445	6.268	50	✓	50												
16	355	1447	6.425	30	✓	30												
17	356	1448	6.469	20	✓	20						✓	✓					
18	357	1449	5.838	10	✓	10						✓	✓					
19	358	1450	5.763	5	✓	5	✓	✓	✓			✓	✓					
20																		
21																		
22																		
23																		
24																		

Comments: → Labels were made as LB12

SHIP: John P. Tully
ENTERED BY: DA
CHECKED BY: DA

Bottom Depth: 1185

Cast # down: 119

Cast # up: 119

Time	LOC	UTC
Begin:		0127
Bottom:		0142
End:		0212

START POSITION (GPS)
LAT: 48 08 48
LONG: 125 59 98

BOTTOM POSITION (GPS)
LAT: 48 08 49
LONG: 125 00 01

END POSITION (GPS)
LAT: 48 08 49
LONG: 125 00 00