

ROSETTE LOG

Note: CTD Data not recorded for this cast!

MISSION ID: 2003-12

STATION: BE01

CAST NUMBER: 002

UTC DATE (dd/mm/yyyy):

7/5/03

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken														10
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13	TOT	S-F	RMV	PVI		HRZ	Prod	
1	001	1356	5.110	65	✓	65		✓	✓	✓				✓	✓	✓		✓	✓	
2	2	1358	5.973	45	✓			✓	✓	✓				✓	✓	✓		✓	✓	
3	003	1360		45	✓											✓	✓			
4	004	1360	7.030	25	✓			✓	✓	✓				✓	✓	✓		✓	✓	
5	005	1361	7.154	10	✓			✓	✓	✓				✓	✓	✓		✓	✓	
6	006	1362	7.184	4	✓			✓	✓	✓				✓	✓	✓		✓	✓	
7	7			4	✓					✓						✓	✓			
8	008	1364	7.104	1	✓			✓	✓	✓				✓	✓	✓		✓	✓	
9																				
10																				
11																				
12																				
13																				
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20																				
21																				
22																				
23																				
24																				

put in wrong Oz sample# (3 not 4) ST

SHIP: Vector Tully

ENTERED BY:

CHECKED BY:

Bottom Depth: 441

Cast # down: 002

Cast # up:

Time LOC UTC

Begin: 1346

Bottom: 1348

End:

START POSITION (GPS)

LAT: 49 32 09

LONG: 126 11 01

BOTTOM POSITION (GPS)

LAT: 48 32 19

LONG: 126 11 78

END POSITION (GPS)

LAT: 48

LONG: 126 11

Comments:

ROSETTE LOG

MISSION ID: 2003-12 STATION: LC10 CAST NUMBER: 004 UTC DATE (dd/mm/yyyy): 07/05/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT	NU	TCO		C13		SF				
						OXY				ALK		CHL	CHL	HPLC	DMG	PHYTO		
1	9	1387	0.470	1238	1238	✓	✓	✓										
2	10	1388	0.316	750	750	✓	✓	✓										
3	11	1389	0.872	500	500	✓	✓	✓										
4	12	1391	1.282	400	400		✓	✓										
5	13	1393	1.621	300	300		✓	✓										
6	14	1394	1.827	250	245		✓	✓										
7	15	1397	2.190	200	200		✓	✓	✓									
8	16	1398	2.501	175	175		✓	✓	✓									
9	17	1399	2.824	150	150		✓	✓	✓									
10	18	1400	3.322	125	124		✓	✓	✓									
11	19	1402	4.718	100	100		✓	✓	✓									
12	20	1403	6.027	75	75		✓	✓	✓			✓						
13	21	1404	6.507	50	50		✓	✓	✓			✓						
14	22	1406	6.705	40	40		✓	✓	✓			✓	✓	✓	✓			
15	23	1407	6.793	30	30		✓	✓	✓			✓	✓	✓	✓	✓		
16	24	1410	6.988	20	21	✓	✓	✓	✓			✓	✓	✓	✓			
17	25	1414		15	15							✓						
18	26	1414	7.112	10	10	✓	✓	✓	✓			✓	✓	✓	✓			put in 25 not 26 for oxy
19	27	1411	6.934	2	2		✓	✓	✓			✓	✓	✓	✓			
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Tully

ENTERED BY: DS

CHECKED BY:

Bottom Depth: 1234

Cast # down: 004

Cast # up: 004

Time	LOC	UTC
Begin:		2030
Bottom:		2056
End:		2133

START POSITION (GPS)

LAT: 48°22.36

LONG: 176°20.0

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2003-12 STATION: LC08 CAST NUMBER: 09 UTC DATE (dd/mm/yyyy): 08/05/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION			Samples taken												
				Sample Depth	Confirmed pressure		SAL		NUT		TCO		C13		S-F	DCM			
								OXY		Nthg		ALK		CHL	CH1		HPCL	PwI	
1	28	1386	1.686	Bot - 10	✓	194		✓	✓	✓									
2	29	1363	4.308	175	✓	175		✓	✓	✓									(weird end pt)
3	30	1365	2.884	150	✓	150		✓	✓	✓									
4	31	1366	3.051	125	✓	125		✓	✓	✓									
5	32	1367	4.505	100	✓	100		✓	✓	✓									
6	33	1368	6.073	75	✓	75		✓	✓	✓				✓					
7	34	1369	6.722	50	✓	50		✓	✓	✓				✓					
8	35	1370	6.783	40	✓	40		✓	✓	✓				✓	✓	✓	✓		dark solid - lot of particles in sample (paint?)
9	36	1371	6.778	40	✓	40												✓	maybe impurities from Sodium Iodide in the H.I.)? ST.
10	37	1372	6.663	30	✓	30		✓	✓	✓				✓	✓	✓	✓		
11	38	1373	6.402	20	✓	20		✓	✓	✓				✓	✓	✓	✓		
12	39	1374	6.965	15	✓	15								✓					
13	40	1375	7.133	10	✓	10		✓	✓	✓				✓	✓	✓	✓		
14	41	1376	7.089	5	✓	5												✓	
15	42	1377	7.034	5	✓	5		✓	✓	✓				✓	✓	✓	✓		
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Comments:

SHIP: TULLY
ENTERED BY: JE
CHECKED BY:

Bottom Depth: 199

Cast # down: 009
Cast # up: 009

Time	LOC	UTC
Begin:		0124
Bottom:		0132
End:		0142

START POSITION (GPS)
LAT: 48° 29.44' N
LONG: 126° 07.05' W

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48 29.40
LONG: 126 07 02

ROSETTE LOG

MISSION ID: 2003-12 STATION: LC07 CAST NUMBER: 012 UTC DATE (dd/mm/yyyy): 08/05/03

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		S-F				
							OXY		NH4		ALK		CHL	CHL	DMV	HREC		
1	43	1432		Bot - 10	✓	120		✓	✓	✓								
2	44	1433	3.616	100	✓			✓	✓	✓								
3	45	1434	4.875	75	✓			✓	✓	✓				✓				
4	46	1435	6.483	50	✓			✓	✓	✓				✓				
5	47	1436	6.572	40	✓			✓	✓	✓				✓	✓	✓	✓	
6	48	1437	7.031	30	✓			✓	✓	✓				✓	✓	✓	✓	
7	49	1438	6.746	20	✓			✓	✓	✓				✓	✓	✓	✓	
8	50	1439		15	✓									✓				
9	51	1439	7.356	10	✓			✓	✓	✓				✓	✓	✓	✓	
10	52	1400	7.433	5	✓			✓	✓	✓				✓	✓	✓	✓	
11																		
12		1441	3.936	*														NOTE 1441 - 3.936 is FIRST BOTTLE of LC06 LC06
13																		
14																		
15																		
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22																		
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24																		

Comments:

SHIP: TULLY

ENTERED BY: H.M.

CHECKED BY:

Bottom Depth: 129

Cast # down: 012

Cast # up:

TimeLOCUTC

Begin:0337

Bottom:0340

End:0354

START POSITION (GPS)

LAT: 48 33 00

LONG: 126 00 46

BOTTOM POSITION (GPS)

LAT: 48 32 99

LONG: 126 00 47

END POSITION (GPS)

LAT: 48 32 91

LONG: 126 00 04

ROSETTE LOG

MISSION ID: 2003-12 STATION: LC 06 CAST NUMBER: 014 UTC DATE (dd/mm/yyyy): 08/05/03

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		SF				
						OXY				ALK		CHL	CHL	APL				
1	53	1441	3.936	85	✓	B-105		✓	✓									OH LC07 FILE
2	54	1442	4.184	75	✓			✓	✓					✓				
3	55	1443	5.589	50	✓													
4	56	1444	5.774	40	✓									✓	✓			
5	57	1445	5.990	30	✓									✓	✓			
6	58	1446	6.150	20	✓									✓	✓			
7	59	1447	6.562	15	✓													
8	60	1448	7.331	10	✓									✓	✓			
9	61	1449	7.229	5	✓			✓	✓					✓	✓			
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24																		

Comments:

SHIP: TULLY

ENTERED BY: H. H. H.

CHECKED BY:

Bottom Depth: 91

Cast # down: 014

Cast # up:

TimeLOCUTC

Begin:0551

Bottom:0553

End:0606

START POSITION (GPS)

LAT: 48 36 46

LONG: 125 54 00

BOTTOM POSITION (GPS)

LAT: 48 36 47

LONG: 125 53 99

END POSITION (GPS)

LAT: 48 36 47

LONG: 125 54 02

ROSETTE LOG

MISSION ID: 2003-12 STATION: LC04 CAST NUMBER: 017 UTC DATE (dd/mm/yyyy): 08/05/2003

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	62	1450	4.800	8.5	✓	162		✓										
2	63	1451	4.801	150	✓	150												
3	64	1452	5.040	125	✓	125												
4	65	1453	5.523	100	✓	100												
5	66	1454	5.701	75	✓	75												
6	67	1455	5.699	50	✓	50												
7	68	1456	6.448	30	✓	30												
8	69	1457	7.027	20	✓	20												
9	70	1458	8.766	10	✓	10												
10	71	1459	9.061	0	✓	3		✓										
11																		
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24																		

SHIP: TULLY
ENTERED BY: JC
CHECKED BY:

Bottom Depth: 167

Cast # down: 017
Cast # up: 017

Time	LOC	UTC
Begin:		0759
Bottom:		0802
End:		0811

START POSITION (GPS)
LAT: 48° 43.38
LONG: 125° 40.80

BOTTOM POSITION (GPS)
LAT: 48° 43.35
LONG: 125° 40.77

END POSITION (GPS)
LAT: 48° 43.38' N
LONG: 125° 40.71' W

ROSETTE LOG

MISSION ID: 2003-12 STATION: LG07 CAST NUMBER: 19 UTC DATE (dd/mm/yyyy): 09/05/2003

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	72			1750	✓ 1750	✓												
2	73			1500	✓ 1500	✓												
3	74			1300	✓ 1300	✓												
4																		
5																		
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24																		

Comments:

SHIP: TULLY
ENTERED BY: JC
CHECKED BY: H.M.

Bottom Depth:

Cast # down: 019
Cast # up: 019

Time	LOC	UTC
Begin:		0230
Bottom:		0252
End:		0314

START POSITION (GPS)
LAT: 48° 59.39' N
LONG: 127° 07.19' W

BOTTOM POSITION (GPS)
LAT: 48° 59.42' N
LONG: 127° 07.27' W

END POSITION (GPS)
LAT: 48 59 50
LONG: 127 07 18

866

ROSETTE LOG

MISSION ID: 2003-12

STATION: LG 06

CAST NUMBER: 21

UTC DATE (dd/mm/yyyy):

9/15/03

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	75	1432	0.303	964	✓ B-10		✓											
2	76	1433	0.346	800	✓	✓												
3	77	1434	0.403	700	✓													
4	78	1435	0.581	600	✓	✓												
5	79	1436	0.784	500	✓													
6	80	1437	1.163	400	✓	✓												
7	81	1438	1.734	300	✓													
8	82	1439	2.051	250	✓													
9	83	1440	2.287	200	✓													
10	84	1441	2.761	175	✓													
11	85	1442	3.411	150	✓													
12	86	1443	4.140	125	✓													
13	87	1444	5.278	100	✓													
14	88	1445	5.834	75	✓													
15	89	1446	6.771	50	✓													
16	90	1447	6.149	30	✓													
17	91	1448	6.052	20	✓													
18	92	1449	6.924	10	✓													
19	93	1450	6.946	0	✓		✓											
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: TULLY

ENTERED BY: H.A.

CHECKED BY:

Bottom Depth: 960

Cast # down: 021

Cast # up:

Time LOC UTC

Begin: 0436

Bottom: 0446

End: 0524

START POSITION (GPS)

LAT: 49 03 55

LONG: 127 01 22

BOTTOM POSITION (GPS)

LAT: 49 03 51

LONG: 127 01 14

END POSITION (GPS)

LAT: 49 03 56

LONG: 127 01 15

258

ROSETTE LOG

MISSION ID: 2003-12

STATION: LG 65

CAST NUMBER: 22

UTC DATE (dd/mm/yyyy):

9/5/03

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	94	1387	1.955	260	✓	B-10		✓										
2	95	1388	2.220	200	✓													
3	96	1389	2.404	175	✓													
4	97	1391	2.963	150	✓													
5	98	1393	3.624	125	✓													
6	99	1394	4.904	100	✓													
7	100	1397	6.480	75	✓													
8	101	1398	6.513	50	✓													
9	102	1399	6.421	30	✓													
10	103	1400	6.359	20	✓													
11	104	1402	6.892	10	✓													
12	105	1403	6.959	0	✓													
13																		
14																		
15																		
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19																		
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22																		
23																		
24																		

Comments:

SHIP: TULLY

ENTERED BY: H & L

CHECKED BY:

Bottom Depth: 274

Cast # down: 022

Cast # up:

Time LOC UTC

Begin: 0617

Bottom: 0620

End: 0641

START POSITION (GPS)

LAT: 48 07 36

LONG: 126 55 24

BOTTOM POSITION (GPS)

LAT: 48 07 37

LONG: 126 55 25

END POSITION (GPS)

LAT: 48 07 38

LONG: 126 55 26

ROSETTE LOG

MISSION ID: 2003-12 STATION: LG04 CAST NUMBER: 023 UTC DATE (dd/mm/yyyy): 09/05/2003

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	106	1404	2.432	Bo-5	✓ 140		✓											
2	107	1406	3.556	125	✓ 125													
3	108	1407	5.011	100	✓ 100													
4	109	1410	6.015	75	✓ 75													
5	110	1414	6.472	50	✓ 50													
6	111	1411	6.138	30	✓ 30													
7	112	1417	5.884	20	✓ 20													
8	113	1421	7.036	10	✓ 10													
9	114	1422	6.946	0	✓ 3		✓											
10																		
11																		
12																		
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22																		
23																		
24																		

Comments:

SHIP: TULLY

ENTERED BY: JC

CHECKED BY:

Bottom Depth:

Cast # down: 023

Cast # up: 023

TimeLOCUTC

Begin:0729

Bottom:

End:0741

START POSITION (GPS)

LAT: 49° 11.26' N

LONG: 126° 49.41' W

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49° 11.29' N

LONG: 126° 49.39' W

ROSETTE LOG

MISSION ID: 2003-12 STATION: LC03 CAST NUMBER: 025 UTC DATE (dd/mm/yyyy): 09/05/2003

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	115	1423	3.902	B-5	✓	118		✓										
2	116	1424	3.925	100	✓	100		✓										
3	117	1425	5.673	75	✓	75		✓										
4	118	1426	6.670	50	✓	50		✓										
5	119	1427	7.153	30	✓	30		✓										
6	120	1428	7.152	20	✓	20		✓										
7	121	1429	7.187	10	✓	10		✓										
8	122	1430	7.577	0	✓	2		✓										
9																		
10																		
11																		
12																		
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23																		
24																		

Comments: _____

SHIP: TULLY
 ENTERED BY: JE
 CHECKED BY: _____

Bottom Depth: 123

Cast # down: 025
 Cast # up: 025

Time	LOC	UTC
Begin:		<u>0850</u>
Bottom:		
End:		<u>0859</u>

START POSITION (GPS)
 LAT: 49° 15' 03" N
 LONG: 126° 43' 70" W

BOTTOM POSITION (GPS)
 LAT: _____
 LONG: _____

END POSITION (GPS)
 LAT: 49° 15' 06" N
 LONG: 126° 43' 62" W

ROSETTE LOG

MISSION ID: 2003- 12 STATION: LA 02 CAST NUMBER: 26 UTC DATE (dd/mm/yyyy): 10/5/03

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	123	1387	2.000	300	✓ B-10	✓	✓											
2	124	1388	2.042	250	✓	✓												
3	125	1389	2.351	200	✓	✓												
4	126	1391	2.446	175	✓													
5	127	1393	2.518	150	✓													
6	128	1394	2.689	125	✓													
7	129	1397	3.312	100	✓													
8	130	1398	4.349	75	✓													
9	131	1399	4.421	50	✓													blew some bubbles out of lines (ST)
10	132	1400	4.855	30	✓													
11	133	1402	6.333	20	✓													
12	134	1403	11.451	10	✓													colorimeter error
13	135	1404	11.791	0	✓													"
14																		
15																		these 2 samples
16																		very dark +
17																		I got "clean
18																		Kit" error on
19																		both. ST.
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: TULLYENTERED BY: H & L

CHECKED BY:

Bottom Depth: 309Cast # down: 26

Cast # up:

Time LOC UTC

Begin: 0414Bottom: 0417End: 0438

START POSITION (GPS)

LAT: 48 26 22LONG: 124 51 27

BOTTOM POSITION (GPS)

LAT: 48 26 22LONG: 124 51 29

END POSITION (GPS)

LAT: 48 26 24LONG: 124 51 30

ROSETTE LOG

MISSION ID: 2003-12 STATION: LA04 CAST NUMBER: 28 UTC DATE (dd/mm/yyyy): 10/5/03

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	136	1406	2.089	190	✓ 8-10		✓											
2	137	1407	2.429	150	✓													
3	138	1410	2.681	125	✓													
4	139	1411	2.881	100	✓													
5	140	1414	3.352	75	✓													
6	141	1417	4.467	50	✓													
7	142	1421	5.138	30	✓													
8	143	1422	5.881	20	✓													
9	144	1423	7.677	10	✓													
10	145	1424	9.844	0	✓		✓											another "clean kit" error. see
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
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21																		
22																		
23																		
24																		

Comments:

SHIP: TULLY
ENTERED BY: HAL
CHECKED BY:

Bottom Depth: 194

Cast # down: 28
Cast # up:

Time	LOC	UTC
Begin:		0624
Bottom:		0627
End:		0643

START POSITION (GPS)
LAT: 48 19 30
LONG: 125 04 05

BOTTOM POSITION (GPS)
LAT: 48 19 32
LONG: 125 04 07

END POSITION (GPS)
LAT: 48 19 33
LONG: 125 04 10

ROSETTE LOG

MISSION ID: 2003-12 STATION: LA06 CAST NUMBER: 030 UTC DATE (dd/mm/yyyy): 10/05/2003

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	146	1432	4.633	B ₀ -10	✓	105	✓	✓											
2	147	1433	4.420	100	✓	100	✓												
3	148	1434	5.655	75	✓	75													
4	149	1435	6.386	50	✓	50													
5	150	1436	6.321	30	✓	30													
6	151	1437	6.389	20	✓	20													
7	152	1438	7.091	10	✓	10													
8	153	1439	7.791	0	✓	2													
9																			
10																			
11																			
12																			
13																			
14																			
15																			
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17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Comments:

SHIP: TULLY
ENTERED BY: JE
CHECKED BY:

Bottom Depth: 111

Cast # down: 030
Cast # up: 030

Time	LOC	UTC
Begin:		0818
Bottom:		
End:		0827

START POSITION (GPS)
LAT: 48° 12.67' N
LONG: 125° 17.14' W

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48° 12.66
LONG: 125° 16.99

ROSETTE LOG

MISSION ID: 2003-12 STATION: LA08 CAST NUMBER: 032 UTC DATE (dd/mm/yyyy): 10/05/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	154	1440	3.760	80-5	✓ 135		✓											
2	155	1441	4.588	125	✓ 125		✓											
3	156	1442	5.285	100	✓ 100		✓											
4	157	1443	6.251	75	✓ 75		✓											
5	158	1444	6.139	50	✓ 50		✓											
6	159	1445	6.086	30	✓ 30		✓											
7	160	1446	6.598	20	✓ 20		✓											
8	161	1447	7.036	10	✓ 10		✓											
9	162	1448	7.031	0	✓ 2		✓											
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Tully

ENTERED BY: JE

CHECKED BY:

Bottom Depth: 140

Cast # down: 032

Cast # up: 032

TimeLOCUTC

Begin:1003

Bottom:

End:1013

START POSITION (GPS)

LAT: 48° 05.76' N

LONG: 125° 30.41' W

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48° 05.78

LONG: 125° 30.30

ROSETTE LOG

MISSION ID: 2003-12 STATION: BT0-2 CAST NUMBER: 66 UTC DATE (dd/mm/yyyy): 13/5/03

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CH		S-F				
							OXY		NH4	ALK	HPLC	CHL	CHL	DMU	PP	P.I	Photo	
1	186	1432	3.305	30-5	✓ 250		✓	✓	✓									
2	187	1433	3.199	200	✓		✓	✓	✓									
3	188	1434	4.016	175	✓		✓	✓	✓									
4	189	1435	5.124	125	✓		✓	✓	✓									
5	190	1436	5.153	100	✓		✓	✓	✓									
6	191	1437	5.331	75	✓		✓	✓	✓									
7	192	1438	5.382	50	✓		✓	✓	✓									
8	193	1439	5.294	40	✓		✓	✓	✓			✓						
9	194	1440	5.251	30	✓		✓	✓	✓		✓	✓	✓	✓	✓			
10	195	1441	5.484	{ 25	✓		✓	✓	✓		✓	✓	✓	✓	✓			
11	196	-		{ 25	✓							✓				✓	✓	
12	197	1442	5.339	20	✓		✓	✓	✓		✓	✓	✓	✓	✓			
13	198	1443	5.547	15	✓		✓	✓	✓		✓	✓						
14	199	1444	6.324	10	✓		✓	✓	✓		✓	✓	✓	✓	✓			
15	200	1445	7.322	{ 5	✓		✓	✓	✓		✓	✓	✓	✓	✓			
16	201	-		{ 5	✓							✓				✓	✓	
17	202	1446	7.534	0	✓ 1.4		✓	✓	✓		✓	✓	✓	✓	✓			
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: TULLY
ENTERED BY: H.V.
CHECKED BY:

Bottom Depth: 266

Cast # down: 66
Cast # up:

Time	LOC	UTC
Begin:		1200
Bottom:		1203
End:		1224

START POSITION (GPS)
LAT: 48 59 07
LONG: 123 23 38

BOTTOM POSITION (GPS)
LAT: 48 59 05
LONG: 123 23 41

END POSITION (GPS)
LAT: 48 59 03
LONG: 123 23 54