

ROSETTE LOG

MISSION ID: 2001-20
STATION NAME: LB 7

UTC DATE y/m/d: 2001/07/4
CAST NUMBER: 2

SHIP: JOHN P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken													
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO							
								OXY		CHL		C13								
1	1			75		✓			✓											
2	2			60		✓			↓											
3	3			50		✓			↓											
4	4			40		✓			↓											
5																				
6																				
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24																				

ENTERED BY: MR
CHECKED BY: MR

Bottom Depth: 78

Cast # down: 2
Cast # up: 2

Time	LOC	UTC
Begin:		1007
Bottom:		1013
End:		1019

START POSITION (GPS)
LAT: 48° 31' 27"
LONG: 125° 35' 47"

BOTTOM POSITION (GPS)
LAT: 48° 31' 27"
LONG: 125° 35' 50"

END POSITION (GPS)
LAT: 48° 31' 29"
LONG: 125° 35' 52"

Comments:

ROSETTE LOG

MISSION ID: 2001-20
STATION NAME: LEØ9

UTC DATE y/m/d: 01/07/07
CAST NUMBER: 34

SHIP: JOHN P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	5			Bot-20	1462	✓	✓											
2	6			1250		✓	✓											
3	7			1000		✓	✓											
4	8			800		✓	✓											
5																		
6																		
7																		
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ENTERED BY: MR
CHECKED BY: MR

Bottom Depth: 1450

Cast # down: 34
Cast # up: 34

Time	LOC	UTC
Begin:		1921
Bottom:		1942
End:		

START POSITION (GPS)
LAT: 48° 35' 98"
LONG: 126° 43' 94"

BOTTOM POSITION (GPS)
LAT: 48° 36' 03"
LONG: 126° 44' 09"

END POSITION (GPS)
LAT: 48°
LONG: 126°

Comments:

ROSETTE LOG

MISSION ID: 2001-20 STATION: AMAI CAST NUMBER: 39 UTC DATE (dd/mm/yyyy): 08/07/2001

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				300	580													
2				500	500													
3				400	400													
4				300	300													
5				200	200													
6				100	100													
7				75	75													
8				50	50													
9				25	25													
10																		
11																		
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Comments: Special samples for VBC's Adrian Marchetti

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 554

Cast # down: 39

Cast # up: 39

TimeLOCUTC

Begin: 0340

Bottom:

End: 0416

~~END~~START POSITION (GPS)

LAT: 43 31.021

LONG: 126 12.041

BOTTOM POSITION (GPS)

LAT:

LONG:

~~END~~START POSITION (GPS)

LAT: 43 31.021

LONG: 126 12.04

ROSETTE LOG

MISSION ID: 2001-20 STATION: EF02 CAST NUMBER: 48 UTC DATE (dd/mm/yyyy): July 8th, 2001

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	9	1215	3.755	Bot-3		66	✓											Zero colorimeter *
2	10	1216	1.545	60		60.8	✓											
3	11	1218	1.618	50		50.7	✓											
4	12	1222	0.868	30		30.6	✓											Flakes.
5	13	1223	1.236	20		20.2	✓											
6	14	1224	1.500	10		10.6	✓											
7	15	1225	7.776	0		1.1	✓											
8																		
9																		
10																		
11																		
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Comments: #9 * Bubbles on kit might not have enough acid.

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 70

Cast # down: 48
Cast # up: 48

Time	LOC	UTC
Begin:	-	1650
Bottom:		1655
End:		1703

START POSITION (GPS)
LAT: 49 04.966
LONG: 125 10.250

BOTTOM POSITION (GPS)
LAT: 49 04.966
LONG: 125 10.250

END POSITION (GPS)
LAT: 49 04.956
LONG: 125 10.239

ROSETTE LOG

MISSION ID: 2001-20 STATION: EFO2A CAST NUMBER: 49 UTC DATE (dd/mm/yyyy): July 8/01

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	16	1228	1.689	B-5	96.6		✓										143.34	143.16
2	17	1268	1.687	75	75.3		✓										142.58	142.58
3	18	1231	1.582	50	50.2		✓											144.83
4	19	1233	1.119	30	30.0		✓											
5	20	1235	1.410	20	19.9		✓											
6	21	1237	1.944	10	10.1		✓											
7	22	1238	6.510	0	0.8		✓											
8																		
9																		
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Comments: #16: Called 1600 in file, flask 1228 called 1225, because the stupid program does not allow for a little mistake, forgot to change depth in file } **FIXED!**

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 100

Cast # down: 49
Cast # up: 49

Time	LOC	UTC
Begin:		1720
Bottom:		1725
End:		1735

START POSITION (GPS)
LAT: 49 04.476
LONG: 125 09 731

BOTTOM POSITION (GPS)
LAT: 49 04.470
LONG: 125 09.728

END POSITION (GPS)
LAT: 49 04.471
LONG: 125 09.735

ROSETTE LOG

MISSION ID: 2001-20 STATION: EF03 CAST NUMBER: 50 UTC DATE (dd/mm/yyyy): July 8/01

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	23	1241	1.697	B-6	114		✓											
2	24	1243	1.665	100	99.9		✓											
3	25	1244	1.716	75	74.7		✓											
4	26	1247	1.609	50	49.9		✓											
5	27	1248	1.128	30	30.2		✓											
6	28	1249	1.264	20	20.2		✓											
7	29	1251	3.571	10	10.2		✓											
8	30	1252	7.697	0	0.9		✓											
9																		
10																		
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Comments: forgot to change depth in file

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 120

Cast # down: 50
Cast # up: 50

Time ~~100~~ UTC
Begin: 1746 ↑
Bottom: 1753
End:

START POSITION (GPS)
LAT: 49 04 279
LONG: 125 09 429

BOTTOM POSITION (GPS)
LAT: 49 04 258
LONG: 125 09 407

END POSITION (GPS)
LAT: 49 04 252
LONG: 125 09 398

ROSETTE LOG

MISSION ID: 2001-20 STATION: EF03B CAST NUMBER: 51 UTC DATE (dd/mm/yyyy): July 8/01

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	31	1254	1.681	B-7	113.4		✓											
2	32	1258	1.730	100	100.2		✓											
3	33	1256	1.925	75	74.6		✓											
4	34	1260	1.593	50	50.0		✓											
5	35	1261	1.066	30	30.2		✓											
6	36	1264	1.442	20	20.3		✓											
7	37	1267	2.423	10	10.1		✓											
8	38	1136	8.241	0	0.9		✓											
9																		
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Comments:

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 120

Cast # down: 51
Cast # up: 51

Time ~~LOC~~ UTC
Begin: 1823
Bottom: 1827
End: 1834

START POSITION (GPS)
LAT: 49 04 056
LONG: 125 09 153

BOTTOM POSITION (GPS)
LAT: 49 04 055
LONG: 125 09 156

END POSITION (GPS)
LAT: 49 04 053
LONG: 129 09 150

ROSETTE LOG

MISSION ID: 2001-20 STATION: EF04 CAST NUMBER: 53 UTC DATE (dd/mm/yyyy): 08/07/2001

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	39	1137	1.916	Bot.	✓	55												
2	40	1138	2.050	30	✓													FLAKES
3	41	1141	1.823	20	✓													FEW FLAKES
4	42	1142	3.500	10	✓													FLAKES
5	43	1146	7.348	0	✓													FEW FLAKES
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7																		
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Comments:

SHIP:

ENTERED BY: MR

CHECKED BY: MR

Bottom Depth: 64

Cast # down: 53

Cast # up: 53

Time	LOC	UTC
Begin:		1910
Bottom:		1912
End:		1917

START POSITION (GPS)

LAT: 49 03 10

LONG: 125 08 59

BOTTOM POSITION (GPS)

LAT: 49 03 10

LONG: 125 08 59

END POSITION (GPS)

LAT: 49 03 10

LONG: 125 08 60

ROSETTE LOG

MISSION ID: 2001-20 STATION: EF04A CAST NUMBER: 54 UTC DATE (dd/mm/yyyy): 08/07/2001

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	44	1148	1.598	Bot-10	✓	185												
2	45	1153	1.559	175	✓	175												
3	46	1158	1.609	150	✓													
4	47	1171	1.637	125	✓													
5	48	1174	1.672	100	✓													
6	49	1175	1.716	75	✓													
7	50	1176	1.773	50	✓													
8	51	1177	1.990	30	✓													
9	52	1180	1.874	20	✓													FLAKES
10	53	1188	3.365	10	✓													LARGE FLAKES + ACID
11	54	1189	7.774	0														
12																		
13																		
14																		
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18																		
19																		
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22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY: MR

CHECKED BY: MR

Bottom Depth: 192

Cast # down: 5+

Cast # up: 5+

Time	LOC	UTC
Begin:		1930
Bottom:		1935
End:		1947

START POSITION (GPS)

LAT: 49°02'87

LONG: 125°09'13

BOTTOM POSITION (GPS)

LAT: 49°02'87

LONG: 125°09'13

END POSITION (GPS)

LAT: 49°02'87

LONG: 125°09'13

ROSETTE LOG

MISSION ID: 2001-20 STATION: EFOS CAST NUMBER: 55 UTC DATE (dd/mm/yyyy): 08/07/2001

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	55	1191	H ₂ S	Bot	✓ 201		0.056											H ₂ S smell
2	56	1192	H ₂ S	195	✓		0.011											H ₂ S smell
3	57	1193	H ₂ S	190	✓		-0.001	??										H ₂ S smell
4	58	1194	NO H ₂ S	170	✓		0.055											NO H ₂ S smell
5	59	1195	'	150	✓		Fo 0.00	Acid										NO H ₂ S smell
6	60	1197	'	125	✓		1.367											
7	61	1198	'	100	✓		1.286											
8	62	1201	'	75	✓		1.723											
9	63	1203		50	✓		1.811											
10	64	1206		30	✓		1.966											
11	65	1209		20	✓		1.846											
12	66	1210		10	✓		4.172											-bubble in BOD bottle at 1705
13	67	1212		0	✓		8.633											
14																		
15																		
16																		
17																		
18																		
19																		
20																		
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22																		
23																		
24																		

Comments:

SHIP: Tully
ENTERED BY: MR
CHECKED BY: MR

Bottom Depth: 204

Cast # down: 55
Cast # up: 55

Time	LOC	UTC
Begin:		2000
Bottom:		2006
End:		2021

START POSITION (GPS)
LAT: 49°02'54"
LONG: 125°09'16"

BOTTOM POSITION (GPS)
LAT: 49°02'54"
LONG: 125°09'17"

END POSITION (GPS)
LAT: 49°02'54"
LONG: 125°09'17"

ROSETTE LOG

MISSION ID: 2001-20 STATION: EF05A CAST NUMBER: 56 UTC DATE (dd/mm/yyyy): 08/07/2001

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	68	1270	1.594	BOT	✓ 194													
2	69	1271	1.509		✓ 190													
3	70	1272	1.601		✓ 170													
4	71	1273	1.495		✓ 150													
5	72	1274	1.657		✓ 125													in middle of 02 min
6	73	1275	1.752		✓ 100													
7	74	1276	1.722		✓ 75													
8	75	1277	1.718		✓ 50													
9	76	1278	1.911		✓ 30													
10	77	1279	1.857		✓ 20													
11	78	1280	3.786		✓ 10													
12	79	1281	8.289		✓ 0													
13																		
14																		
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24																		

Comments:

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 201 m

Cast # down: 56
Cast # up: 56

Time	LOC	UTC
Begin:		2043
Bottom:		2050
End:		2103

START POSITION (GPS)
LAT: 49 02 796
LONG: 125 09.148

BOTTOM POSITION (GPS)
LAT: 49 02.80
LONG: 125 09.15

END POSITION (GPS)
LAT: 49 02.79
LONG: 125 09.15

ROSETTE LOG

MISSION ID: 2001-20 STATION: EF06 CAST NUMBER: 57 UTC DATE (dd/mm/yyyy): 08/07/2001

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	80	1282	1.924	150	151.4													
2	81	1283	1.910	125	125													
3	82	1284	1.815	100	100													
4	83	1285	1.694	75	75													
5	84	1286	1.631	50	50		END	LOOKS	WETTED									292
6	85	1287	2.038	30	30													
7	86	1288	1.947	20	20													
8	87	1290	3.596	10	10													
9	88	1291	9.045	0	0													
10																		
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24																		

Comments:

SHIP: TULLY

ENTERED BY:

CHECKED BY:

Bottom Depth: 150

Cast # down: 57

Cast # up: 57

Time	LOC	UTC
Begin:		2121
Bottom:		2125
End:		2133

START POSITION (GPS)

LAT: 49 01.784

LONG: 125 09.185

BOTTOM POSITION (GPS)

LAT: 49 01.775

LONG: 125 09.190

END POSITION (GPS)

LAT: 49 01.77

LONG: 125 09.20

ROSETTE LOG

MISSION ID: 2001-20 STATION: EF07 CAST NUMBER: 58 UTC DATE (dd/mm/yyyy): 08/07/2001

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	89	1292	1.914	bot-5	116											
2	90	1293	1.901	100	100											
3	91	1294	1.760	75	75											
4	92	1295	1.788	50	50											
5	93	1297	2.073	30	30											
6	94	1298	1.971	20	20											
7	95	1299	2.866	10	10											
8	96	1300	8.728	0	0											
9																
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Comments: _____

SHIP: TULLY

ENTERED BY: _____

CHECKED BY: _____

Bottom Depth: 120

Cast # down: 58

Cast # up: 58

Time	LOC	UTC
Begin:		<u>2146</u>
Bottom:		<u>2152</u>
End:		<u>2200</u>

START POSITION (GPS)

LAT: 49 01.268

LONG: 125 09.398

BOTTOM POSITION (GPS)

LAT: 49 01.275

LONG: 125 09.403

END POSITION (GPS)

LAT: 49 01.290

LONG: 125 09.413

ROSETTE LOG

MISSION ID: 2001-20 STATION: EF07A CAST NUMBER: 59 UTC DATE (dd/mm/yyyy): 08/07/2001

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	97	84	2.065	Bot	/	139												
2	98	255	2.017	125	/													
3	99	364	1.913	100	✓													
4	100	392	1.852	75	✓													
5	101	443	1.900	50	✓													
6	102	486	2.151	30	✓													
7	103	535	3.615	20	✓													
8	104	534	8.188	10	✓													
9	105			0	✓													
10																		
11																		
12																		
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24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 139

Cast # down: 59
Cast # up: 59

Time	LOC	UTC
Begin:		2213
Bottom:		2219
End:		2231

START POSITION (GPS)
LAT: 49°00' 88"
LONG: 125°09' 81"

BOTTOM POSITION (GPS)
LAT: 49°00' 88"
LONG: 125°09' 81"

END POSITION (GPS)
LAT: 49°00' 88"
LONG: 125°09' 83"

ROSETTE LOG

MISSION ID: 2001-20 STATION: EF08 CAST NUMBER: 60 UTC DATE (dd/mm/yyyy): 08/07/2001

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	572	1.959	Bot		79												
2	107	588	1.969	75	✓													
3	108	632	1.935	50	✓													FLAKES
4	109	650	2.207	30	✓													
5	110	657	2.120	20	✓													
6	111	695	2.432	10	✓													
7	112	697	8.202	0		1.4												
8																		
9																		
10																		
11																		
12																		
13																		
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18																		
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22																		
23																		
24																		

Comments:

SHIP: TULLY
ENTERED BY:
CHECKED BY:

Bottom Depth: 87

Cast # down: 60
Cast # up: 60

Time LOC UTC
Begin: 2243
Bottom: 2246
End:

START POSITION (GPS)
LAT: 49 00 66
LONG: 125 10.252

BOTTOM POSITION (GPS)
LAT: 49 00 658
LONG: 125 10.250

END POSITION (GPS)
LAT: 49
LONG: 125

ROSETTE LOG

MISSION ID: 2001-20 STATION: EF09 CAST NUMBER: 61 UTC DATE (dd/mm/yyyy): 08/07/2001

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	113	707	2.043	Bot	✓ 61		✓											
2	114	708	2.045	50	✓ 50		✓											
3	115	709	2.302	30	✓ 30		✓											
4	116	712	2.539	20	✓ 20		✓											
5	117	715	2.933	10	✓ 10		✓											
6	118	727	7.836	0	✓ 1.5		✓											
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Comments:

SHIP: Truly
ENTERED BY:
CHECKED BY:

Bottom Depth: 63

Cast # down: 61
Cast # up: 61

Time	LOC	UTC
Begin:	2304	
Bottom:	2307	
End:	2311	

START POSITION (GPS)
LAT: 49 0.095
LONG: 125 10 852

BOTTOM POSITION (GPS)
LAT: 49 0.099
LONG: 125 10 844

END POSITION (GPS)
LAT: 49 0.094
LONG: 125 10 848

ROSETTE LOG

MISSION ID: 2001-20 STATION: EF10 CAST NUMBER: 62 UTC DATE (dd/mm/yyyy): 06/07/2001

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	119			But	✓ 100					For	Ger	Acid						
2	120	1105	1.365	75	✓ 75		✓											
3	121	1110	2.162	50	✓ 50		✓											
4	122	1126	2.334	30	✓ 30		✓											
5	123	1128	2.662	20	✓ 20		✓											
6	124	1130	3.127	10	✓ 10		✓											
7	125	1134	7.786	0	✓ 1.1		✓											
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Comments:

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 99

Cast # down: 62
Cast # up: 62

Time LOC UTC
Begin: 2320
Bottom: 2326
End: 2331

START POSITION (GPS)
LAT: 48 59 846
LONG: 125 11 224

BOTTOM POSITION (GPS)
LAT: 48 59 834
LONG: 125 11 243

END POSITION (GPS)
LAT: 48 59 824
LONG: 125 11 267

ROSETTE LOG

MISSION ID: 2001-20 STATION: EF11 CAST NUMBER: 63 UTC DATE (dd/mm/yyyy): 08/07/2001

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	126	1215	2.020	8.5	✓ 85		✓											
2	127	1216	2.120	75	✓ 95		✓											
3	128	1218	2.233	50	✓ 50		✓											
4	129	1222	2.413	30	✓ 30		✓											
5	130	1223	2.547	20	✓ 20		✓											
6	131	1224	3.416	10	✓ 10		✓											
7	132	1225	7.923	0	✓ 1.3		✓											
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Comments:

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 85

Cast # down: 63
Cast # up: 63

Time ~~LOC~~ UTC
Begin: 2344
Bottom: 2347
End: 2353

START POSITION (GPS)
LAT: 48 59 11
LONG: 125 11 044

BOTTOM POSITION (GPS)
LAT: 48 59 11
LONG: 125 11 050

END POSITION (GPS)
LAT: 48 59 10
LONG: 125 11 042

ROSETTE LOG

MISSION ID: 2001-20 STATION: EF12 CAST NUMBER: 64 UTC DATE (dd/mm/yyyy): 09/07/2001

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	133	1228	2.089	Bot	✓ 90		✓											
2	134	1268	2.326	75	✓ 75		✓											
3	135	1231	2.239	50	✓ 50		✓											
4	136	1233	3.066	30	✓ 30		✓											
5	137	1235	3.475	20	✓ 20		✓											
6	138	1237	5.175	10	✓ 10		✓											
7	139	1238	7.323	0			✓											
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Comments:

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 93m.

Cast # down: 64
Cast # up: 64

Time 0000 UTC
Begin: 0011
Bottom: 0014
End: 0021

START POSITION (GPS)
LAT: 48 57.985
LONG: 125 10.463

BOTTOM POSITION (GPS)
LAT: 48 57.979
LONG: 125 10.465

END POSITION (GPS)
LAT: 48 57.973
LONG: 125 10.469

ROSETTE LOG

MISSION ID: 2001-20 STATION: EF13 CAST NUMBER: 65 UTC DATE (dd/mm/yyyy): 09/07/2001

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	140	1241	2.199	Bot	95		✓											
2	141	1243	2.402	75	75		✓											
3	142	1244	2.538	50	50		✓											
4	143	1247	3.016	30	30		✓											
5	144	1248	3.743	20	20		✓											
6	145	1249	4.091	10	10		✓											
7	146	1251	7.741	0	1.7		✓											
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Comments:

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 103

Cast # down: 65
Cast # up: 65

Time	LOC	UTC
Begin:		0045
Bottom:		0048
End:		0055

START POSITION (GPS)
LAT: 48 56.51
LONG: 125 10.72

BOTTOM POSITION (GPS)
LAT: 48 56.51
LONG: 125 10.72

END POSITION (GPS)
LAT: 48 56.50
LONG: 125 10.68