

CRUISE NO:
STATION NO:

9940
FF 02

UTC DATE:
HYDRO No.:

24/10/99
3

VESSEL: TULLY

[illegible]

CHECKED BY:

Bottom Depth: 70

Cast No: 3

Time	LOC	UTC
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Begin: 2158

Bottom:

End: 2208

BEGIN POSITION (GPS)

LAT: 49 05.02

LONG: 12510.33

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49 05.03

LONG: 125 10.33

Comments

Rosette Log, 24 bottle

CRUISE NO:
STATION NO:

7940

EFZA

UTC DATE:
HYDRO No.:

24/10/99

5

VESSEL: Tully

ENTERED BY:

CHECKED BY:

Bottom Depth: 106

Cast No: 5

Time	LOC	UTC
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Begin: 0615

Bottom: 0623

End: 0643

BEGIN POSITION (GPS)

LAT: 49 04 48

LONG: 125 69 . 72

BOTTOM POSITION (GPS)

LAT: 79 04 . 49

LONG: 125 09.72

END POSITION (GPS)

LAT:

LONG:

Comments

Rosette Log, 24 bottle

CRUISE NO:
STATION NO:

9940
EF3A

UTC DATE:
HYDRO No.:

99/10/24
7

VESSEL: Tully

ENTERED BY: DA
CHECKED BY:

Bottom Depth: 85

Cast No: 7

Time	LOC	UTC
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Begin:	0731
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Bottom: 0743

End: 0752

BEGIN POSITION (GPS)	
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LAT: 49 03 . 79

LONG: 125 09 . 05

BOTTOM POSITION (GPS)	
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LAT: 49 03 78

LONG: 125 09 . 06

END POSITION (GPS)

LAT: 49 03 . 79

LONG: 125 OR .58

Comments	

[illegible]

CRUISE NO:
STATION NO:

FF04

UTC DATE: 99/10/24
HYDRO No.: 8

VESSEL: Tully

ENTERED BY: DA

CHECKED BY:

Bottom Depth: 62

Cast No: 8

Time	LOC	UTC
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Begin: 0819

Bottom:

End: 0827

BEGIN POSITION (GPS)

LAT: 49 03.08

LONG: 125 08. 58

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49 03 . 06

LONG: 125 08 : 56

Comments

[illegible]

CRUISE NO: 9940
STATION NO: EF04A

UTC DATE: 99/10/24
HYDRO No.: 9

VESSEL: Tully

ENTERED BY: DA
CHECKED BY:

Bottom Depth: 193 ft

Cast No: 9

Time	LOC	UTC
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Begin: 

Bottom: 0905

End: 0923

BEGIN POSITION (GPS)

LAT: 49 02.91

LONG: 125 09.20

BOTTOM POSITION (GPS)

LAT: 49 02 . 90

LONG: 125 09. 19

END POSITION (GPS)

LAT: 49 02 . 89

LONG: 125 09.18

Comments

[illegible]

ROSETTE LOG

MISSION ID: 9940
STATION NAME: EF05UTC DATE y/m/d: 99/10/24
CAST NUMBER: 10

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										80 ml/L	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	54			Bot-5		✓											1.531	
2	55			180		✓											1.645	
3	56			170		✓											1.669	
4	57			160		✓											1.625	
5	58			150		✓											1.666	
6	59			125		✓											1.600	
7	60			100		✓											1.597	
8	61			75		✓											1.594	
9	62			50		✓											2.051	
10	63			30		✓											3.063	
11	64			20		✓											3.277	
12	65			10		✓											3.863	
13	66			0		✓											6.039	
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY: DA
CHECKED BY:

Bottom Depth: 198

Cast # down: 10

Cast # up: 10

Time	LOC	UTC
Begin:		0951
Bottom:		1001
End:		1031

START POSITION (GPS)	
LAT:	49 02.79
LONG:	125 09.17

BOTTOM POSITION (GPS)	
LAT:	49 02.79
LONG:	125 09.17

END POSITION (GPS)	
LAT:	49 02.79
LONG:	125 09.17

ROSETTE LOG

MISSION ID: 9940
STATION NAME: EF05AUTC DATE y/m/d: 99/10/24
CAST NUMBER: 11SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DO ml/h	Conductivity
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	67			80H-5		/											1.278	
2	68			190		/											1.339	
3	69			180		/											1.452	
4	70			170		/											1.629	
5	71			160		/											1.689	
6	72			125		/											1.589	
7	73			100		/											1.612	
8	74			75		/											1.598	
9	75			50		/											2.241	
10	76			30		/											2.988	
11	77			20		/											3.213	
12	78			10		/											3.786	
13	79			0		/											6.490	
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY: DA
CHECKED BY:Bottom Depth: 204Cast # down: 11Cast # up: 11

Time	LOC	UTC
Begin:		10:45
Bottom:		10:53
End:		11:06

START POSITION (GPS)
LAT: 49 02.55
LONG: 125 09.14BOTTOM POSITION (GPS)
LAT: 49 02.55
LONG: 125 09.13END POSITION (GPS)
LAT: 49 02.52
LONG: 125 09.13

ROSETTE LOG

MISSION ID:

9940

UTC DATE y/m/d:

99/10/25

STATION NAME:

FF06

CAST NUMBER:

12

SHIP:

Niskin Sample OXY. OXY. Sample
No. No. Flask Temp. Depth

ROSETTE OPERATION		Samples taken												Do ml/L	Comments
Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO							
		OXY		CHL		C13									
1	80			145	✓									1.590	
2	81			125	✓									1.498	
3	82			100	✓									1.524	
4	83			75	✓									1.618	
5	84			50	✓									2.217	
6	85			30	✓									3.163	
7	86			20	✓									3.408	
8	87			10	✓									3.994	
9	88			0	DID NOT FIRE									—	
10															
11															
12															
13															
14															
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16															
17															
18															
19															
20															
21															
22															
23															
24															

ENTERED BY:

CHECKED BY:

Bottom Depth: 148 m

Cast # down: 12

Cast # up:

Time LOC UTC

Begin: 0250

Bottom: 0806

End: 0806

START POSITION (GPS)

LAT: 49 1.78

LONG: 125 9.18

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49 1.79

LONG: 125 9.15

Comments:

TOP BOTTLE DID NOT FIRE, NO SURFACE OXYGEN.

ROSETTE LOG

MISSION ID: 9940
STATION NAME: EF07

UTC DATE y/m/d: 99/10/25
CAST NUMBER: 13

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DG m/L	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	89			115	✓												1.509	
2	90			100	✓												1.506	
3	91			75	✓												1.438	
4	92			50	✓												2.233	
5	93			30	✓												3.188	
6	94			20	✓												3.418	
7	95			10	✓												4.003	
8	96			0	✓												6.803	
9																		
10																		
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21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 118

Cast # down: 13
Cast # up: "

Time	LOC	UTC
Begin:		0335
Bottom:		
End:		0350

START POSITION (GPS)
LAT: 491.24
LONG: 1259.42

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 491.23
LONG: 1259.41

Comments:

ROSETTE LOG

MISSION ID:

9940

UTC DATE y/m/d:

99/10/25

STATION NAME:

EF7A

CAST NUMBER:

14

SHIP: Tolly

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Do m/l/L	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	97			132	✓												1.453	
2	98			125	✓												1.407	
3	99			100	✓												1.531	
4	100			75	✓												7.633	
5	101			50	✓												2.301	
6	102			30	✓												3.343	
7	103			20	✓												3.505	
8	104			10	✓												3.953	
9	105			0	✓												7.428	
10																		
11																		
12																		
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22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth:

136

Cast # down:

14

Cast # up:

Time LOC

UTC

Begin:

0420

Bottom:

End:

START POSITION (GPS)

LAT: 49 1.23

LONG: 125 9.41

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49 0.89

LONG: 125 9.83

ROSETTE LOG

MISSION ID: 9940
STATION NAME: EF08

UTC DATE y/m/d: 99/10/25
CAST NUMBER: 15

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										D ₀ m/L	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	106			182	✓												1.629	
2	107			75	✓												1.529	
3	108			50	✓												2.410	
4	109			30	✓												3.418	
5	110			20	✓												3.628	
6	111			10	✓												4.206	
7	112			0	✓												6.766	
8																		
9																		
10																		
11																		
12																		
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22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 86

Cast # down: 15
Cast # up:

Time	LOC	UTC
Begin:		0500
Bottom:		
End:		

START POSITION (GPS)
LAT: 49 0.64
LONG: 125 10.27

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49 0.64
LONG: 125 10.28

Comments:

ROSETTE LOG

MISSION ID: 9940
STATION NAME: EF09

UTC DATE y/m/d: 99/10/25
CAST NUMBER: 16

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Do ml/L	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	113			54	✓												3.115	
2	114			50	✓												3.088	
3	115			30	✓												3.365	
4	116			20	✓												3.914	
5	117			10	✓												4.585	
6	118			0	✓												6.282	
7																		
8																		
9																		
10																		
11																		
12																		
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21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 59

Cast # down: 16
Cast # up:

Time	LOC	UTC
Begin:		0540
Bottom:		
End:		

START POSITION (GPS)
LAT: 49 0.10
LONG: 125 10.87

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49 0.09
LONG: 125 10.87

Comments:

ROSETTE LOG

MISSION ID:

9940

UTC DATE y/m/d:

99/10/25

STATION NAME:

EF10

CAST NUMBER:

17

SHIP:

TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										00 m/L	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	119			92	✓												1.783	
2	120			85	✓												1.745	
3	121			75	✓												1.770	
4	122			50	✓												3.026	
5	123			30	✓												3.791	
6	124			20	✓												3.990	
7	125			10	✓												4.337	
8	126			0	✓												5.810	
9																		
10																		
11																		
12																		
13																		
14																		
15																		
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20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth:

98

Cast # down:

17

Cast # up:

Time LOC UTC

Begin:

0615

Bottom:

End:

0633

START POSITION (GPS)

LAT:

48 59.84

LONG:

125 11.25

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

48 59.83

LONG:

125 11.23

ROSETTE LOG

MISSION ID: 9940
STATION NAME: EF11

UTC DATE y/m/d: 99/10/25
CAST NUMBER: 18

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Do ml/L	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	127			BOT-1		/											1.775	
2	128			75		/											1.833	
3	129			50		/											2.710	
4	130			30		/											3.911	
5	131			20		/											4.273	
6	132			10		/											4.433	
7	133			0		/											5.455	
8																		
9																		
10																		
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23																		
24																		

ENTERED BY: DA
CHECKED BY:

Bottom Depth: 85

Cast # down: 18
Cast # up: 18

Time	LOC	UTC
Begin:		0706
Bottom:		
End:		

START POSITION (GPS)
LAT: 48 59 . 11
LONG: 125 11 . 01

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49 59 . 10
LONG: 125 11 . 02

Comments:

ROSETTE LOG

MISSION ID: 9940
STATION NAME: EF12

UTC DATE y/m/d: 99/10/25
CAST NUMBER: 19

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Do ml / l	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	134			Bot-5		/											1.590	
2	135			75		/											1.660	
3	136			50		/											3.317	
4	137			30		/											3.950	
5	138			20		/											4.684	
6	139			10		/											5.713	
7	140			0		/											6.141	
8																		
9																		
10																		
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23																		
24																		

ENTERED BY: DA
CHECKED BY:

Bottom Depth: 94

Cast # down: 19
Cast # up: 19

Time	LOC	UTC
Begin:		0752
Bottom:		0759
End:		0809

START POSITION (GPS)
LAT: 48 57 99
LONG: 125 10 .50

BOTTOM POSITION (GPS)
LAT: 48 57 99
LONG: 125 10 .51

END POSITION (GPS)
LAT: 48 58 .00
LONG: 125 10 .50

Comments:

ROSETTE LOG

MISSION ID: 9940
STATION NAME: EF13

UTC DATE y/m/d: 99/10/25
CAST NUMBER: 20

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Do ml/L	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	141			80+5													1.963	
2	142			75													1.747	
3	143			50													3.134	
4	144			30													4.696	
5	145			20													4.748	
6	146			10													5.810	
7	147			0													6.140	
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
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21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 108

Cast # down: 20
Cast # up: 20

Time	LOC	UTC
Begin:		0845
Bottom:		0850
End:		0857

START POSITION (GPS)
LAT: 48 56.49
LONG: 125 10.70

BOTTOM POSITION (GPS)
LAT: 48 56.51
LONG: 125 10.73

END POSITION (GPS)
LAT: 48 56.52
LONG: 125 10.77

Comments:

ROSETTE LOG

MISSION ID:

STATION NAME:

UTC DATE y/m/d:

CAST NUMBER:

SHIP:

ENTERED BY:

CHECKED BY:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Do m' PL	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	148			195	✓												1.342	
2	149			190	✓												1.362	
3	150			185	✓												1.411	
4	151			180	✓												1.499	
5	152			175	✓												1.517	
6	153			170	✓												1.644	
7	154			160	✓												1.711	
8	155			150	✓												1.735	
9	156			140	✓												1.732	
10	157			130	✓												1.647	
11	158			120	✓												1.632	
12	159			110	✓												1.640	
13	160			100	✓												1.636	
14	161			90	✓												1.607	
15	162			75	✓												1.604	
16	163			50	✓												2.216	
17	164			30	✓												3.082	
18	165			20	✓												3.359	
19	166			10	9 ✓												3.834	
20	167			0													6.383	
21																		
22																		
23																		
24																		

Comments: Hit BOTTOM. Cloud of sediment followed us upward!

Bottom Depth: 201

Cast # down: 21

Cast # up:

Time LOC UTC

Begin: 0206

Bottom:

End:

START POSITION (GPS)

LAT: 49 02.54

LONG: 125 09.15

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 9940
STATION NAME: EFO4CUTC DATE y/m/d: 99
CAST NUMBER: 22SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	168	1128	1.556	180	5mab													
2	169	1126	1.453	175	✓													
3	170	1130	1.591	170	✓													
4	171	1134	1.675	165	✓													
5	172	1136	1.646	160	✓													
6	173	1135	1.629	150	✓													
7	174	1137	1.652	140	✓													
8	175	*1138	1.612	120	✓	**											128.26	
9	176	1142	1.557	100	✓												127.92	
10	177	1141	1.629	90	✓													
11	178	1148	1.613	75	✓													
12	179	1146	2.106	50	✓													
13	180	1153	3.049	30	✓													
14	181	1158	3.370	20	✓													
15	182	1171	4.033	10	✓													
16	183	1174	6.694	0	✓													
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY: Bottom Depth: 186Cast # down: 22Cast # up:

Time	LOC	UTC
Begin:		0255
Bottom:		
End:		

START POSITION (GPS)
LAT: <u>49 02.72</u>
LONG: <u>125 09.45</u>

BOTTOM POSITION (GPS)
LAT: <u></u>
LONG: <u></u>

END POSITION (GPS)
LAT: <u></u>
LONG: <u></u>

Comments: * TYPED IN FLASH # 1137 IN COMPUTER
1. SAMPLE 174 & 175 SHOW FLASH # 1137

ROSETTE LOG

MISSION ID: 9940
STATION NAME: EFO4A

UTC DATE y/m/d: 99/6/25
CAST NUMBER: 23

SHIP: J.P. Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Do ml/L	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	184			187	✓												1.373	
2	185			183	✓												1.329	
3	186			175	✓												1.545	
4	187			170	✓												1.636	
5	188			160	✓												1.621	
6	189			150	✓												1.644	
7	190			130	✓												1.627	
8	191			110	✓												1.530	
9	192			90	✓												1.568	
10	193			75	✓												1.617	
11	194			50	✓												1.872	
12	195			30	✓												3.029	
13	196			20	✓												3.316	
14	197			10	✓												3.931	
15	198			0	✓												6.672	
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 194

Cast # down: 23
Cast # up:

Time	LOC	UTC
Begin:		0342
Bottom:		
End:		

START POSITION (GPS)
LAT: 49 2.91
LONG: 125 9.18

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9940
STATION NAME: EF4B

UTC DATE y/m/d: 99/10/26
CAST NUMBER: 24

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	m/l OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		CI3						
1	199	1249	1.669	181	✓													
2	200	1251	1.572	175	✓													
3	201	1252	1.616	170	✓													
4	202	1254	1.687	165	✓													
5	203	1256	1.675	160	✓													
6	204	1257	1.700	140	✓													
7	205	1258	1.603	120	✓													
8	206	1260	1.604	100	✓													
9	207	1261	1.597	90	✓													
10	208	1264	1.595	80	✓													
11	209	1267	1.637	70	✓													
12	210	1268	1.850	60	✓													
13	211	1269	2.162	50	✓													
14	212	1270	3.106	30	✓													
15	213	1271	3.411	20	✓													
16	214	1272	7.421	0	✓													
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 181

Cast # down: 24
Cast # up: 24

Time	LOC	UTC
Begin:		0429
Bottom:		
End:		

START POSITION (GPS)
LAT: 49 2.74
LONG: 125 8.91

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49 2.74
LONG: 125 8.94

ROSETTE LOG

MISSION ID: 9940

STATION NAME: EF03

UTC DATE y/m/d: 99/10/26

CAST NUMBER: 36

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Do m/L	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	215			113	118	/											0.656	
2	216			110	112	/											0.578	
3	217			105		/											0.981	
4	218			100		/											0.952	
5	219			95		/											1.069	
6	220			90		/											1.261	
7	221			80		/											1.413	
8	222			60		/											1.622	
9	223			50		/											1.692	
10	224			30		/											2.924	
11	225			20		/											3.355	
12	226			10		/											3.877	
13	227			0		/											4.917	
14	228																	
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 120

Cast # down: 36

Cast # up: 36

Time	LOC	UTC
Begin:		0729
Bottom:		0736
End:		0749

START POSITION (GPS)

LAT: 49 04.25

LONG: 125 09.40

BOTTOM POSITION (GPS)

LAT: 49 04.25

LONG: 125 09.40

END POSITION (GPS)

LAT: 49 04.25

LONG: 125 09.40

ROSETTE LOG

MISSION ID: 9940
STATION NAME: JFE1

UTC DATE y/m/d: 99/10/27
CAST NUMBER: 37

SHIP: Twily

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		CI3						
1	228			Bot-10	23	✓												
2	229			20	20	✓												
3	230			10														
4	231			0														
5																		
6																		
7																		
8																		
9																		
10																		
11																		
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13																		
14																		
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18																		
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21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 30

Cast # down: 37
Cast # up: 37

Time LOC UTC
Begin:
Bottom: 1138
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 27.22
LONG: 124 14.97

END POSITION (GPS)
LAT:
LONG:

Comments: