

ROSETTE LOG

MISSION ID: 9835
STATION NAME: EFF01

UTC DATE y/m/d: 98/09/23
CAST NUMBER: 001

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	1	84		Bot - 5	30	✓												1.593
2	2	97		20		✓											30.31	0.644
3	3	255		10		✓											62.58	1.434
4	4	333		0		✓											262.30	6.009
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
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18																		
19																		
20																		
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22																		
23																		
24																		

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 35

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		18:25
Bottom:		18:26
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

cont
6/11/03
Remish

ROSETTE LOG

MISSION ID: 9835
STATION NAME: EFF02

UTC DATE y/m/d: 98/04/23
CAST NUMBER: 002

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ M	O ₂ M/L
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	5	337		Bottom-5		/												0.0
2	6	364		100		/												0.0
3	7	392		75		/											2.87	0.066
4	8	412		50		/											45.53	1.043
5	9	425		30		/											91.57	2.098
6	10	443		20		/											102.04	2.338
7	11	463		10		/											163.73	3.751
8	12	467		0		/											315.01	7.216
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
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23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 121

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		19/2
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: EFF05

UTC DATE y/m/d: 98 09 23
CAST NUMBER: 003

SHIP: J P Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂	O ₂
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	13	486		Bottle		/											0	0
2	14	509		175		/											0	0
3	15	534		150		/											48.89	1.120
4	16	535		125		/											38.99	.893
5	17	572		100		/											55.80	1.278
6	18	578		75		/											59.63	1.366
7	19	588		50		/											78.40	1.796
8	20	597		30		/											112.80	2.584
9	21	622		20		/											132.15	3.027
10	22	630		10		/											169.29	3.878
11	23	641		0													307.32	7.040
12																		
13																		
14																		
15																		
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17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 207

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		1948
Bottom:		1952
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments: #13 O₂ copepod in sample.

ROSETTE LOG

MISSION ID: 9835
STATION NAME: EFF07

UTC DATE y/m/d: 98 09 23
CAST NUMBER: 004

SHIP: JP Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂	O ₂
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	24	150		Bot - 5		107											60.39	1.383
2	25	657		100		100											59.95	1.373
3	26	695		75		75											61.10	1.400
4	27	699		50		50											84.86	1.944
5	28	707		30		30.2											129.62	2.969
6	29	708		20		20.1											147.01	3.368
7	30	909		10		10.7											179.47	4.111
8	31			0		0											288.65	6.612
9																		
10																		
11																		
12																		
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ENTERED BY:
CHECKED BY:

Bottom Depth: 120

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		2024
Bottom:		2026
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: EFF 8

UTC DATE y/m/d: 99 09 23
CAST NUMBER: 055

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ μM	O ₂ μM
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	32	1135		Bottoms	79.8												62.38	1.429
2	33	1136		75	75												61.58	1.411
3	34	1137		50	49.66												98.83	2.264
4	35	1138		30	29.94												130.83	2.997
5	36	1139		20	20.6												152.08	3.484
6	37	1141		10	10.1												165.10	3.782
7	38	1142		0	0												285.36	6.537
8																		
9																		
10																		
11																		
12																		
13																		
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23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 88

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		2053
Bottom:		2055
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments: 1137 - stopper is chipped, bottle may need recalibration.
#35 copied in sample.

ROSETTE LOG

MISSION ID: 9835
STATION NAME: EFF10

UTC DATE y/m/d: 980923
CAST NUMBER: 006

SHIP: S 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					0 m/s	0 m/s
1	39	1143		Bottom 5	92.8												54.53	1.249
2	40	1144		75	75.4												62.79	1.438
3	41	1146		50	50.5	127.54											116.94	2.679
4	42	1148*		30	30.2	126.48											141.71*	3.274
5	43	1150		20	20.1												151.44	3.469
6	44	1152		10	9.58												211.97	4.947
7	45	1153		0													303.17	6.945
8																		
9																		
10																		
11																		
12																		
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24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 100

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		2122
Bottom:		2124
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments: * ops! forgot to enter flask #

126.48

ROSETTE LOG

MISSION ID:
STATION NAME: EFF11

UTC DATE y/m/d: 98 09 23
CAST NUMBER: 007

SHIP: J P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ μM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	46	1154		75	Bottom 5												67.22	1540
2	47	1155		50	50.2												99.43	2.278
3	48	1157		30	30.1												143.54	3.282
4	49	1158		20	20												157.36	3.605
5	50	1160		10	9.97												246.47*	5.646
6	54	1167		0	0												302.03	6.919
7																		
8																		
9																		
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24																		

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		2150
Bottom:		
End:		

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments: #50 irregular titration curve - possible in sample (?)

ROSETTE LOG

MISSION ID: 9835
STATION NAME: EFF13

UTC DATE y/m/d: 980923
CAST NUMBER: 008

SHIP: J P Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ mM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	52	1168		Bottle 5	100												68.53	1.570
2	53	1171		75	74.9												73.25	1.678
3	54	1174		50	50												143.59	3.289
4	55	1175		30	30												182.80	4.188
5	56	1176		20	20.3												206.45	4.729
6	57	1177		10	10												225.88	5.174
7	58	1178		0	0												343.01	7.858
8																		
9																		
10																		
11																		
12																		
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23																		
24																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 106 m

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		2232
Bottom:		
End:		

START POSITION (GPS)

LAT: 48 56 46

LONG: 125 10 69

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LBPI

UTC DATE y/m/d: 98 09 24
CAST NUMBER: 009

SHIP: JPTULLY

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					O ₂	O ₂
1	59	1134		30	30.8			X									199.15	4.569
2	60	1135		20	20			X									212.79	4.875
3	61	1136		10	10.1			X									240.72	5.514
4	62	1137		0				X									270.54	6.197
5	63			Loop			X										Loop	
6																		
7																		
8																		
9																		
10																		
11																		
12																		
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21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		2218
Bottom:		2223
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LBP2UTC DATE y/m/d: 98 09 24
CAST NUMBER: 010SHIP: J P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ rM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	64	1138		92				X									112.18	2.570
2	65	1139		75	75			X									124.50	2.894
3	66	1141		50	50			X									179.84	4.120
4	67	1142		30	29.2			X									198.22	4.541
5	68	1143		20	19.5			X									220.13	5.043
6	69	1144		10	10			X									261.43	5.989
7	70	1146		0	0			X									269.14	6.165
8	71			Loop			X										Loop	
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:Bottom Depth: 100

Cast # down:

Cast # up:

Time LOC UTC

Begin:

Bottom:

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments: # 65 had pulled air into stopper

ROSETTE LOG

MISSION ID:

9835

UTC DATE y/m/d:

1998/09/24

STATION NAME:

LBPO4

CAST NUMBER:

012

SHIP: J P Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ FM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	72	1148		Bottom	1098			X									16.61	0.381
2	73	1150		1000	998			X									15.95	0.356
3	74	1152		800	800			X									13.70	0.314
4	75	1153		500	499			X									95.19	1.035
5	76	1154		400	399			X									61.48	1.408
6	77	1157		300	300			X									80.02	1.833
7	78	1155		250	249			X									85.14	1.950
8	79	1158		200	200			X									92.63	2.122
9	80	1160		175	175			X									96.02	2.200
10	81	1167		150	149.9			X									110.27	2.526
11	82	1168		125	125			X									118.99	2.726
12	83	1171		100	100			X									128.21	2.937
13	84	1174		75	75			X									144.32	3.306
14	85	1175		50	50			X									189.90	4.350
15	86	1176		30	30			X									194.00	4.444
16	87	1177		20	19.7			X									201.65	4.619
17	88	1178		10	10			X									244.71	5.606
18	89	-		0	0			X	X								257.12	5.890
19	90							X										
20																		
21																		
22																		
23																		
24																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 1106

Cast # down:

Cast # up:

Time LOC UTC

Begin: 23:56

Bottom: 00:10

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LBPO6UTC DATE y/m/d: 98/09/25
CAST NUMBER: 014

SHIP: JPTully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ M	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	91	84		Bottom-10		✓												380
2	92	97		800		✓											12.20	-280
3	93	255		500		✓											33.26	0.762
4	94			400		✓											51.84	1.187
5	95			350		✓											67.05	1.536
6	96			300		✓											91.13	2.088
7	97			250		✓											94.78	2.171
8	98			200		✓											106.44	2.438
9	99			175		✓											112.58	2.579
10	100			150		✓											115.73	2.651
11	101			125		✓											131.46	3.011
12	102			100		✓											168.58	3.862
13	103			75		✓											178.94	4.099
14	104			50		✓											206.13	4.722
15	105			30		✓											224.20	5.136
16	106			20													251.71	5.766
17	107			10													267.57	6.129
18	108	578		0													267.84	6.136
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 890

Cast # down: 14

Cast # up: 14

Time	LOC	UTC
Begin:		0324
Bottom:		
End:		

START POSITION (GPS)		
LAT:		
LONG:		

BOTTOM POSITION (GPS)		
LAT:		
LONG:		

END POSITION (GPS)		
LAT:		
LONG:		

Comments: #91. no data - problems with filtration.

ROSETTE LOG

MISSION ID: 9835
STATION NAME: 1-BPC8

UTC DATE y/m/d: 98/09/25
CAST NUMBER: 016

SHIP: JPTULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ % M	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	109	588		304-10	2085			X									73.36	1.681
2	110	597		2000	2000		X	X									68.89	1.578
3	111			1500	1500			X									32.53	0.745
4	112			1200	1200			X									18.21	0.417
5	113			1000	1000		X	X									13.21	0.303
6	114			800	798			X									12.58	0.288
7	115			500	500			X									29.72	0.681
8	116			400	400			X									51.90	1.189
9	117			300	300			X									86.60	1.984
10	118			250	250		X	X									107.67	2.466
11	119			200	200			X									123.97	2.840
12	120			175	175			X									129.71	2.971
13	121			150	150			X									134.41	3.079
14	122			125	125			X									149.81	3.432
15	123			100	100			X									178.48	4.088
16	124			75	75			X										
17	125			50	50			X									273.82	6.273
18	126			30	29			X									256.10	5.867
19	127			20	20			X									255.44	5.851
20	128			10	10			X									255.80	5.860
21	129	734		0				X									255.30	5.848
22	130	LOOP					X	LOOP										
23																		
24																		

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 2075

Cast # down: 16
Cast # up: 16

Time	LOC	UTC
Begin:		0705
Bottom:		0742
End:		

START POSITION (GPS)
LAT: 49 48 58
LONG: 128 16 72

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: HUC1

UTC DATE y/m/d: 98/09/25
CAST NUMBER: 17

SHIP: JP Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ M	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	131	1183		Bot-10		✓		X					144.04				25.93	1.877
2	132	1187		100		✓		X					142.04				80.73	1.849
3	133	1188		75		✓		X					143.74				67.00	1.535
4	134	1189		50		✓		X									85.98	1.511
5	135			30		✓		X									52.94	1.213
6	136			20		✓		X									38.26	0.876
7	137			10		✓		X									130.97	3.000
8	138	1193		0		✓		X									222.45	5.096
9	139			Loop				X										
10																		
11																		
12																		
13																		
14																		
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21																		
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23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 130

Cast # down: 17

Cast # up: 17

Time	LOC	UTC
Begin:		
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments: * #131 is mislabelled as #129. Should be 1 loop at 1183.

ROSETTE LOG

MISSION ID: 9835
STATION NAME: MSKM

UTC DATE y/m/d: 98 09 25
CAST NUMBER: 18

SHIP: J P Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ MM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	140	1194		80M-10	161	✓		X									113.36	2.597
2	141	1195		150	150			X									115.10	2.637
3	142			125	125			X									120.58	2.762
4	143			100	100			X									132.60	3.038
5	144			75	75			X									120.38	2.758
6	145			50	50			X									94.63	2.168
7	146			30	30			X									85.34	1.955
8	147			20	20			X									56.99	1.305
9	148			10	10			X									91.66	2.100
10	149	1206		0	0			X									196.95	4.502
11	150			Loop			X											
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 171

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		
Bottom:	2004	
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments: * entered 100m depth, should be 75m

ROSETTE LOG

MISSION ID: 1935
STATION NAME: MC42

UTC DATE y/m/d: 98 09 25
CAST NUMBER: 19

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO				MM	ml/l
1	151	1180		Bottom 5	366			X									2.17	0.050
2	152	1209		300	300			X									4.30	.099
3	153			250	250			X									10.13	0.232
4	154			200	200			X									15.71	0.360
5	155			175	175			X									82.73	1.895
6	156			150	150			X									114.88	2.632
7	157			125	124.8			X									132.87	3.044
8	158			100	100			X									143.53	3.288
9	159			75	75			X									133.20	3.081
10	160			50	49.5			X									114.56	2.624
11	161			30	29.46			X									91.05	2.086
12	162			20	20.6			X									96.20	2.204
13	163			10	10			X									175.31	4.016
14	164	1137		0	0			X									249.45	5.714
15	165			LOOP			X											
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down: 19
Cast # up: 19.

Time	LOC	UTC
Begin:		
Bottom:	2051	
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments: #157 black particulate in sample.

ROSETTE LOG

MISSION ID: 9835
STATION NAME: MUC3

UTC DATE y/m/d: 980925
CAST NUMBER: 20

SHIP: TOLLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ MM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	166	1138		Bot-5	343			X									2.70	.062
2	167			300	300			X									4.60	.105
3	168			250	250			X									6.24	.143
4	169			200	199.7			X									20.97	.480
5	170			175	174.8			X									89.56	2.052
6	171			150	150			X									112.18	2.570
7	172			125	125			X									118.59	2.717
8	173			100	100			X									129.59	2.969
9	174			75	75			X									138.32	3.168
10	175			50	50			X									116.76	2.675
11	176			30	30			X									110.17	2.524
12	177			20	19.5			X									102.22	2.342
13	178			10	9.8			X									171.14	3.920
14	179	1157		0				X									249.85	5.723
15	180			Loop				X										
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down: 20

Cast # up: 20

Time	LOC	UTC
Begin:		
Bottom:	21:45	
End:		

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID: 1935
STATION NAME: MUC4

UTC DATE y/m/d: 980925
CAST NUMBER: 21

SHIP: J P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ μM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	181	1158		Bot-5	279			X									3.45	.079
2	182	1160		200	200			X									18.93	.434
3	183			175	175			X									93.06	2.132
4	184			150	1499			X									96.99	2.222
5	185			125	125			X									97.84	2.241
6	186			100	100			X									100.21	2.296
7	187			75	74.8			X									100.56	2.304
8	188			50	50			X									104.67	2.398
9	189			30	29.8			X									117.21	2.685
10	190			20	20			X									132.30	3.031
11	191	1178		10	9.5			X									199.06	4.560
12	192	712		0	0			X									215.63	4.940
13	192A	—		Loop			X											
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 293

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		
Bottom:	22'46	
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments: * in file 9835020 (#181 only)

ROSETTE LOG

MISSION ID: 9835
STATION NAME: MUC5

UTC DATE y/m/d: 98 09 25
CAST NUMBER: 22

SHIP: J P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken												O ₂ MM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO							
1	193	713		Bot-5	218			X											179.58	4.114
2	194	715		200	200			X											178.70	4.094
3	195			175	175			X											177.11	4.057
4	196			150	150			X											158.44	3.629
5	197			125	125			X											155.57	3.564
6	198			100	100			X											113.73	2.605
7	199			75	75			X											110.62	2.534
8	200			50	50			X											117.45	2.690
9	201			30	30			X											123.97	2.840
10	202			20	20			X												
11	203	1062		10	10			X											150.76	3.453
12	204	1090		0	0			X											235.13	5.386
13	205			Loop			X													
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up: 2359

Time	LOC	UTC
Begin:		
Bottom:		
End:		

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: MUC6UTC DATE y/m/d: 98 09 26
CAST NUMBER: 23SHIP: J P Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ MM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	206	84		Bottom	114			X									191.55	4.388
2	207	97		100	100			X									176.68	4.047
3	208			75	75			X									170.67	3.910
4	209			50	50			X									198.31	4.543
5	210			30	29.5			X									184.27	4.221
6	211			20	20			X									178.35	4.086
7	212			10	10			X									*160.09	3.667
8	213	412		0	0			X									*219.11	5.019
9	214			LOOP			X	X										
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: #212 air drawn in stopper. #213 air drawn in.

ENTERED BY:
CHECKED BY:Bottom Depth: 116Cast # down: 23Cast # up: 23

Time	LOC	UTC
Begin:	<u>0148</u>	
Bottom:		
End:		

START POSITION (GPS)		
LAT:		
LONG:		

BOTTOM POSITION (GPS)		
LAT:		
LONG:		

END POSITION (GPS)		
LAT:		
LONG:		

ROSETTE LOG

MISSION ID: 9835
STATION NAME: TLU1UTC DATE y/m/d: 98 09 26
CAST NUMBER: 024SHIP: SP TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ mM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	215	425		254	254			X									136.52	3.157
2	216	443		200	200			X									148.16	3.394
3	217			175	175			X									145.05	3.323
4	218			150	150			X									132.88	3.044
5	219			125	125			X									*102.31	2.344
6	220			100	100			X									*88.29	2.022
7	221			75	75			X									*113.52	2.600
8	222			50	50			X									*100.42	2.300
9	223			30	30			X									103.21	2.364
10	224			20	20			X									*111.32	2.550
11	225			10	10.4			X									*138.13	3.164
12	226	597		0	0			X									*198.64	4.550
13	227	227		LOOP			X											
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: * air drawn in stopper

ENTERED BY:
CHECKED BY:Bottom Depth: 263Cast # down: 24Cast # up: 24

Time	LOC	UTC
Begin:		0300
Bottom:		
End:		

START POSITION (GPS)	
LAT:	
LONG:	

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	
LONG:	

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LG01UTC DATE y/m/d: 98 09 27
CAST NUMBER: 27SHIP: JPTully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ mm	O ₂ ml/l		
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO							
1	278	713		Bottom - 10		/		X											140.63	3.221
2	279			30		/		X											147.65	3.382
3	280			20		/		X											159.08	3.644
4	281			10		/		X											204.85	4.693
5	282	727		0				X											216.56	6.793
6	283			LOOP				X												
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Comments: #279 Small air bubble after #1ENTERED BY:
CHECKED BY:Bottom Depth: 53Cast # down: 27Cast # up: 27Time LOC UTC
Begin:
Bottom: 0113
End:START POSITION (GPS)
LAT:
LONG:BOTTOM POSITION (GPS)
LAT:
LONG:END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LG04

UTC DATE y/m/d: 98/09/27
CAST NUMBER: 32

SHIP:

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

ROSETTE OPERATION		Samples taken												On	O ₂
Trip	Confirmed	SAL		NUT		ALK		TCO							
pressure	Salinity		OXY		CHL		C13							MM	ml/l

1	284	730		Bot-10	/		X								94.03	2.154
2	285	734		125	/		X								110.67	2.535
3	286	732		100	/		X								136.77	3.133
4	287	1045		75	/		X								217.31	4.978
5	288	1062		50	/		X								256.88	5.884
6	289	1090		30	/		X								270.81	6.204
7	290	1103		20	/		X								285.60	6.542
8	291	1104		10	/		X								303.83	6.960
9	292	1105		0	/		X								304.59	6.977
10	293			LOOP	/		X									/
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 145

Cast # down: 32
Cast # up: 32

Time	LOC	UTC
Begin:		
Bottom:	0401	
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID:

9835

UTC DATE y/m/d:

98 09 27

STATION NAME:

LG06

CAST NUMBER:

034

SHIP:

J.P. Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ µM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	294	84		Pott-10	965												11.95	0.274
2	295	97		800	799												12.45	0.285
3	296	255		500	500												30.77	0.705
4	297			400	399												54.31	1.244
5	298			300	300												84.25	1.930
6	299			250	248												102.99	2.359
7	300			200	201												105.18	2.410
8	301			175	175												121.05	2.773
9	302			150	150												120.64	2.764
10	303			125	125												128.76	2.943
11	304			100	100												148.44	3.401
12	305			75	75												205.97	4.718
13	306			50	51.0												246.69	5.651
14	307			30	30												260.61	5.970
15	308			20	20												265.27	6.577
16	309	535		10	10												267.13	6.119
17	310	572		0	0												267.33	6.124
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:

CHECKED BY:

Bottom Depth:

960'

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0554

Bottom:

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LG08UTC DATE y/m/d: 98/09/27
CAST NUMBER: 36SHIP: J.P. TULLYNiskin Sample OXY. OXY. Sample
No. No. Flask Temp. Depth

ROSETTE OPERATION		Samples taken													
Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO							
			OXY		CHL		C13								
1	312			2000	2000			X							
2	313			1500	1500			X							
3	314			1000	1000			X							
4	315			500	500			X							
5	316			400	400			X							
6	317			200	200			X							
7	318			10	10			X							
8	319			0				X							
8	320			LOOP				X							
10															
11															
12															
13															
14															
15															
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19															
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21															
22															
23															
24															

ENTERED BY:
CHECKED BY:Bottom Depth: 2074

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		0914
Bottom:		0952
End:		

START POSITION (GPS)
LAT:
LONG:BOTTOM POSITION (GPS)
LAT:
LONG:END POSITION (GPS)
LAT:
LONG:

Comments:

Calibration Samples for Salinity
200 m sample is in Thermocline

ROSETTE LOG

MISSION ID: 9835
STATION NAME: L304UTC DATE y/m/d: 98 09 28
CAST NUMBER: 39SHIP: Niskin Sample OXY. OXY. Sample
No. No. Flask Temp. Depth

ROSETTE OPERATION		Samples taken												O ₂ μM	O ₂ ml/l
Trip pressure	Confirmed Salinity	SAL	OXY	NUT	CHL	ALK	C13	TCO							
1	151		X											91.23	2.090
2	125		X											125.53	2.876
3	100		X											139.86	3.204
4	75		X											*178.07	4.079
5	50		X											*236.61	5.420
6	29.6		X											243.83	5.585
7	20		X											*273.29	6.261
8	9.6		X											*273.59	6.267
9	0		X											*274.05	6.278
10	Loop														
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

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

Time LOC UTC

Begin: Bottom: 1041End:

START POSITION (GPS)

LAT: LONG:

BOTTOM POSITION (GPS)

LAT: LONG:

END POSITION (GPS)

LAT: LONG:

Comments: * air drawn in under stopper during storage

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LEO1UTC DATE y/m/d: 98/09/29
CAST NUMBER: 40

SHIP:

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

ROSETTE OPERATION		Samples taken										O ₂	O ₂
Trip	Confirmed	SAL		NUT		ALK		TCO					
pressure	Salinity		OXY		CHL		C13					μM	ml/l

1	332	713		Bottom-10		✓							142.86	3.273
2	333	715		30		✓							147.65	3.382
3	334			20		✓							167.70	3.842
4	335			10		✓							*234.37	5.369
5	336	727		0		✓							305.84	7.006
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														

ENTERED BY:

CHECKED BY:

Bottom Depth: 45

Cast # down: 40

Cast # up: 40

Time LOC UTC

Begin:

Bottom: 02 37

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments: * corrected in sample.
† # 336 poor curve - dust on probe

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LEO2

UTC DATE y/m/d: 98/09/29
CAST NUMBER: 41

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken												O ₂ MM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO							
1	337	730		Bott-10		/			✓										135.90	3.113
2	338	1090		30		/			✓										151.27	3.465
3	339			20		/			✓										168.73	3.865
4	340			10		/			✓										310.59	7.115
5	341	1105		0		/			✓										367.55	8.420
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

ENTERED BY:
CHECKED BY:

Bottom Depth: 58

Cast # down: 41
Cast # up: 41

Time LOC UTC
Begin:
Bottom: 0318
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LEO5UTC DATE y/m/d: 98/09/29
CAST NUMBER: 44

SHIP: S P Tully

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

ROSETTE OPERATION		Samples taken												O ₂ µM	O ₂ mg/l
Trip pressure	Confirmed Salinity	SAL	OXY	NUT	CHL	ALK	TCO								
1	342	735		Bot - 10	/									86.38	1.979
2	343	732		125	/									94.63	2.168
3	344	1045		100	/									104.64	2.397
4	345	1062		75	/									134.23	3.075
5	346	1106		50	/									142.54	3.265
6	347	1110		30	/									148.26	3.396
7	348	1113		20	/									200.39	4.590
8	349	1114		10	/									236.85	5.426
9	350	1119		0	/									239.46	5.486
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

ENTERED BY:
CHECKED BY:

Bottom Depth: 158

Cast # down: 44

Cast # up: 44

Time	LOC	UTC
Begin:		
Bottom:	0556	
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LEP 7UTC DATE y/m/d: 98 09 29
CAST NUMBER: 4546SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ MM	O ₃ ml
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	351	84		500	501		x	x									38.38	0.879
2	352	97		400	400		x	x									53.08	1.216
3	353	255		300	300		x	x									83.20	1.906
4	354			250	250		x	x									94.57	2.166
5	355			200	200		x	x									98.75	2.262
6	356			175	175		x	x									102.01	2.337
7	357			150	150		x	x									107.60	2.465
8	358			125	125		x	x									116.84	2.677
9	359			100	100		x	x									123.33	2.825
10	360			75	75		x	x									168.82	3.867
11	361			50	50		x	x									219.53	5.029
12	362			30	30		x	x									225.75	5.171
13	363			20	20		x	x									281.76	6.454
14	364	509		10	10.4		x	x									284.13	6.509
15	365	534		0			x	x									283.85	6.502
16	366			LOOP			x											
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down: 45Cast # up: 45

Time LOC UTC

Begin:

Bottom:

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LE09UTC DATE y/m/d: 98 09 28
CAST NUMBER: 47 48SHIP: J P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ PM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	367	1134		Bott - 10	1442			X									31.59	0.724
2	368	1135		1200	1200		X	X									17.83	0.409
3	369			1000	1000			X									11.36	0.260
4	370			800	801		X	X									10.37	0.237
5	371			500	500			X									30.41	0.697
6	372			400	400		X	X									*46.93	1.075
7	373			300	300			X									73.66	1.687
8	374			250	250		X	X									91.90	2.105
9	375			200	200			X									95.82	2.195
10	376			175	175			X									92.82	2.117
11	377			150	150			X									102.07	2.338
12	378			125	125			X									124.04	2.841
13	379			100	100			X									173.32	3.970
14	380			75	75			X									218.17	4.998
15	381			50	50			X									251.90	5.770
16	382			30	30			X									275.58	6.313
17	383			20	20			X									279.77	6.409
18	384	1157		10	10		X	X									286.86	6.571
19	385	1158		0	0			X									286.30	6.558
20	386			Loop			X											
21																		
22																		
23																		
24																		

Comments: #372 should be 400m

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time LOC UTC

Begin:

Bottom:

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LB14UTC DATE y/m/d: 98/03/30
CAST NUMBER: 49SHIP: J.P. TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ mM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	387	1134		BOTT. - 5m		/	x	x									19.42	0.445
2	388			1000		/	x	x									13.16	0.301
3	389			800		/	x	x									10.92	0.248
4	390			500		/	x	x									32.28	6.739
5	391			400		/	x	x									55.11	1.262
6	392			300		/	x	x									82.17	1.882
7	393			250		/	x	x									95.49	2.188
8	394			200		/	x	x									*164.47	3.768
9	395			175		/	x	x									122.78	2.813
10	396			150		/	x	x									129.29	2.962
11	397			125		/	x	x									129.08	2.957
12	398			100		/	x	x									195.66	4.482
13	399			75		/	x	x									138.32	3.168
14	400			50		/	x	x									179.97	4.123
15	401	1142		30			x	x									226.54	5.189
16	402			20			x	x									DNF	
17	403	1146		10			x	x									267.77	6.134
18	404	1157		0			x	x									267.70	6.132
19				LOOP			x											
20																		
21																		
22																		
23																		
24																		

Comments: * add curve

ENTERED BY:
CHECKED BY:Bottom Depth: 1180Cast # down: 49Cast # up: 49

Time	LOC	UTC
Begin:		
Bottom:		0518
End:		

START POSITION (GPS)	
LAT:	
LONG:	

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	
LONG:	

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LB13UTC DATE y/m/d: 980930
CAST NUMBER: 50SHIP: J P TullyNiskin Sample OXY. OXY. Sample
No. No. Flask Temp. DepthROSETTE OPERATION
Trip Confirmed
pressure SalinitySamples taken
SAL OXY NUT CHL ALK TCO C13

1	405			800	800			X											
2	406			500	500			X											
3	407			400	400			X											
4	408			300	300			X											
5	409			250	250			X											
6	410			10	10			X											
7	411			Loop				X											
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 910

Cast # down:

Cast # up:

Time LOC UTC

Begin:

Bottom: 0640

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LB12UTC DATE y/m/d: 98 09 30
CAST NUMBER: 51SHIP: J.P. Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ MM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	412	1178		Botl-10	492			X									39.06	0.895
2	413	97		400	400			X									68.25	1.564
3	414			300	300			X									85.69	1.963
4	415			250	250			X									*138.05	3.162
5	416			200	200			X									91.87	2.105
6	417			175	175			X									89.90	2.059
7	418			150	149			X									91.64	2.099
8	419			125	124			X									106.19	2.433
9	420			100	100			X									138.28	3.166
10	421			75	75			X									133.63	3.047
11	422			50	50			X									126.37	2.895
12	423			30	30			X									126.61	2.900
13	424			20	20			X									240.68	5.513
14	425			10	10			X									270.93	6.206
15	426	534		0	0			X									272.08	6.233
16	427			LOOP				X										
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: * ODD CURVE

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		0732
Bottom:		
End:		0758

START POSITION (GPS)	
LAT:	
LONG:	

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	
LONG:	

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LB11UTC DATE y/m/d: 98 09 30
CAST NUMBER: 52SHIP: J.P. Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ MM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	428	1158		Bot-5	200			X									78.87	2.036
2	429	1160		175	174.6			X									75.36	1.731
3	430			150	150			X									87.50	2.004
4	431			125	125			X									109.93	2.918
5	432			100	100			X									143.27	3.282
6	433			75	75			X									169.57	3.884
7	434			50	50			X									166.89	3.823
8	435			30	30			X									214.50	4.914
9	436			20	19.5			X									262.35	6.010
10	437			10	10			X									264.15	6.651
11	438	1178		0				X									264.86	6.067
12								X										
13	439			LOOP				X										
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		0835
Bottom:		0837
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments: * titration did not complete properly (operator error) 1st Dosage = 326 titrated twice 2nd dosage = .062 2nd MM = 9.94 / 0.228 ml/l

326 04.5 326 371

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LB09UTC DATE y/m/d: 98 09 30
CAST NUMBER: 54SHIP: SP Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ M	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	440	535		143	143												90.30	2.069
2	441	572		125	125												87.80	2.011
3	442			100	100												126.05	2.858
4	443			75	75												149.16	3.417
5	444			50	50												178.04	4.078
6	445			30	30												150.00	3.436
7	446	638		20	20												194.83	4.463
8	447	641		10	10													
9	448	650		0													267.40	6.126
10	449			LOOP														
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		1105
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments: undissolved particulate in sample #447: odd curve; not completed. titrated around time 2014 to end point

ROSETTE LOG

MISSION ID:

9835

UTC DATE y/m/d:

98/10/1

SHIP: J.P. TULLY

STATION NAME:

LB08

CAST NUMBER:

56

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ μM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	450	84		BOTT - 5m		✓		X									83.37	1.910
2	451	97		120		✓		X									80.19	1.887
3	452	255		100		✓		X									78.15	1.790
4	453			75		✓		X									100.36	2.299
5	454			50		✓		X									115.45	2.645
6	455			30		✓		X									124.80	2.859
7	456			20		✓		X									146.57	3.358
8	457			10		✓		X									258.67	5.926
9	458	425		0				X									*	6.054
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 137

Cast # down: 56

Cast # up: 56

Time LOC UTC

Begin:

Bottom: 0253

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments: Note: recalibrated machine before start of this day's work. New thiosulfate reagent (Sept 15/98). Blanks OK, stds too low (.712/.712/.713).
* colorimeter malfunction - seems to be unstable after re zeroing. titrated sample twice. First time dispersed - 323 ml (abort).
Second trial endpoint dosage was .754 so total dosage was .707 ml.

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LB06

UTC DATE y/m/d: 98/10/1
CAST NUMBER: 58

SHIP: J.F. TOLLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth
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[illegible]

ENTERED BY:	
CHECKED BY:	

Bottom Depth: 116

Cast # down: 38

Cast # up: 58

Time	LOC	UTC
Begin:		
Bottom:		0444
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)
LAT:
LONG:

[illegible]

Comments:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LB 04

UTC DATE y/m/d: 98/10/1
CAST NUMBER: 60

SHIP: J.P. TULLY

[illegible]

Comments:

ENTERED BY:	
CHECKED BY:	

Bottom Depth: 113

Cast # down: _____

Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		0555
End:		

START POSITION (GPS)	
LAT:	
LONG:	

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LB02UTC DATE y/m/d: 98/10/01
CAST NUMBER: 62SHIP: SP TullyNiskin Sample OXY. OXY. Sample
No. No. Flask Temp. Depth

ROSETTE OPERATION		Samples taken												O ₂	O ₂
Trip	Confirmed	SAL		NUT		ALK		TCO						MM	ml/l.
pressure	Salinity		OXY		CHL		C13								

1	475	1134		Bott. -5	55				X						155.56	3.564
2	476	1135		30					X						152.69	3.498
3	477			20					X						147.16	3.371
4	478			10					X						179.73	4.117
5	479	1138		0					X						225.27	5.159
6	480			LOOP					X							
7																
8																
9																
10																
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23																
24																

Comments:

ENTERED BY:
CHECKED BY:Bottom Depth: 57

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		0715
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: LT301UTC DATE y/m/d: 98/10/1
CAST NUMBER: 63SHIP: J.P. Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ MM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	481	1139		Botl. - 5m	28				X								173.44	3.973
2	482	1141		20	20				X								177.21	4.059
3	483	1143		10	10				X								215.97	4.947
4	484	1153		0					X								229.75	5.263
5	485			LOOP					X									
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0744

Bottom: 0746

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: JFW4UTC DATE y/m/d: 98/10/2
CAST NUMBER: 67SHIP: J.P. TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ MM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	486	1134		Bot. - 5 m		✓		x									84.04	1.925
2	487	1135		200		✓		x									84.10	1.927
3	488			175		✓		x									79.18	1.814
4	489			150		✓		x									80.17	1.836
5	490			125		✓		x									98.05	2.246
6	491			100		✓		x									123.80	2.836
7	492			75				x									153.23	3.510
8	493			50				x									166.93	3.824
9	494			30				x									145.31	3.329
10	495			20				x									162.60	3.725
11	496	1155		10				x									170.65	3.909
12	497	1148		0				x									208.80	4.783
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: * dust on probe - endpoint may be discarded

Station

ID

is labelled as FSW4 on computer file

ENTERED BY:

CHECKED BY:

Bottom Depth: 234Cast # down: 67Cast # up: 67

Time LOC UTC

Begin:

Bottom: 02:34

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: JFC 7

UTC DATE y/m/d: 98/10/2
CAST NUMBER: 71

SHIP: JPTolly

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ μM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	498	1150		Bottom-5	50			X									132.51	3035
2	499	1152		30	30			X									143.17	3.280
3	500	1142		20	20			X									168.28	3.855
4	501	1144		10	10			X									200.01	4.982
5	502	1146		0	0			X									217.32	4.978
6	503	—————→		LOOP			X											
7																		
8																		
9																		
10																		
11																		
12																		
13																		
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23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 54.

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0627
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments: → appended onto file 9835067.

ROSETTE LOG

MISSION ID: 9835
STATION NAME: JFC6UTC DATE y/m/d: 98 10 02
CAST NUMBER: 72SHIP: J P Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ M	O ₂ ml/l					
					Trip pressure	Confirmed Salinity	SAL	OXY	NUT	CHL	ALK	C13	TCO										
1	504	1158		101	101				X										111.18	2.547			
2	505	1160		75	75				X										122.42	2.804			
3	506			50	50				X										128.95	3.183			
4	507			30	30				X										135.84	3.112			
5	508			20	20				X										148.99	3.413			
6	509			10	10				X										199.46	4.569			
7	510	1175		0	0				X										219.96	5.039			
8	511			LOOP				X															
9																							
10																							
11																							
12																							
13																							
14																							
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Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		0655
Bottom:		0658
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID:

9835

UTC DATE y/m/d:

98 10 02

STATION NAME:

JFCS

CAST NUMBER:

73

SHIP:

S P Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										μMol kg	$\frac{\text{ml}}{\text{L}}$
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	512	84		194	194			X									89.17	2.093
2	513	97		175	172			X									89.45	2.049
3	514	255		150	150			X									91.31	2.092
4	515	333		125	125			X									* 2.416	
5	516	337		100	101			X									115.61	2.648
6	517	364		75	75			X									138.20	3.166
7	518	392		50	50			X									133.83	3.066
8	519	412		30	30			X									138.00	3.161
9	520	425		20	20			X									155.88	3.571
10	521	534		10	10			X									173.83	3.982
11	522	443		0				X									214.87	4.922
12	523			LOOP			X											
13																		
14																		
15																		
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ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time LOC UTC

Begin:

Bottom:

0734

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments: * titrated twice - after rezeroing, colorimeter set to about 440. Dispensed .030 ml. Searched
titration dispensed .416, end point is .999. DO 98.5 / 2.256

ROSETTE LOG

MISSION ID:

STATION NAME:

JFC4

UTC DATE y/m/d:

98 10 02

CAST NUMBER:

74

SHIP:

S P Tully

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

ROSETTE OPERATION		Samples taken												O ₂	
Trip	Confirmed	SAL		NUT		ALK		TCO						O ₂	O ₂
pressure	Salinity		OXY		CHL		C13							MM	ml/l
1	524	463		224										75.92	1.739
2	525	467		175										75.97	1.740
3	526			150										79.30	1.817
4	527			125										97.16	2.226
5	528			100										121.37	2.780
6	529			75										141.41	3.238
7	530			50										151.69	3.475
8	531			30										160.09	3.667
9	532			20										167.66	3.841
10	533	632		10										202.63	4.642
11	534	638		0										212.48	4.867
12	535			LOOP											
13															
14															
15															
16															
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ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0806

Bottom:

End: 0824

START POSITION (GPS)

LAT:

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BOTTOM POSITION (GPS)

LAT:

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END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID:

9835

UTC DATE y/m/d:

98 10 02

STATION NAME:

JFC3

CAST NUMBER:

75

SHIP:

S P Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ MM	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	537	650		Bot	181				X								79.13	1.813
2	538	657		175	175				X								78.97	1.809
3	539			150	150				X								79.16	1.813
4	540			125	125				X								85.78	1.965
5	541			100	100				X								128.48	2.943
6	542			75	75				X								132.27	3.030
7	543			50	50.6				X								182.61	4.123
8	544			30	30				X								201.88	4.625
9	545			20	20				X								211.05	4.835
10	546	724		10	10				X									
11	547	726		0	0				X								212.74	4.874
12	548			LOOP					X									
13																		
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Comments: * undissolved ppt in flask

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time LOC UTC

Begin:

Bottom: 0859

End:

START POSITION (GPS)

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BOTTOM POSITION (GPS)

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END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: 3FC2UTC DATE y/m/d: 98 10 02
CAST NUMBER: 76SHIP: J P Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ M/M	O ₂ ml/l
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	549	727		100	95			X									78.04	1.788
2	550	730		75	75			X									93.18	2.135
3	551	1090		50	50			X									146.98	3.367
4	552	1103		30	29			X									190.16	4.356
5	553	1104		20	20			X									193.53	4.433
6	554	1105		10	10			X									201.26	4.610
7	555	735		0				X										4.828
8	556			Loop			X											
9																		
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CHECKED BY:Bottom Depth: 100

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments: #555: note large air bubble when stopped before H+. Recal chip in sample. Forgot to enter number, etc. Flask # 735

ROSETTE LOG

MISSION ID: 9835
STATION NAME: JFC1UTC DATE y/m/d: 98 10 02
CAST NUMBER: 77SHIP: J P Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂ M	O ₂ well				
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO									
1	557	732		Bot	Bottom																190.92	4.373
2	558	1045		30	30																192.38	4.407
3	559	1106		20	20																196.80	4.508
4	560	1062		10	10																203.62	4.664
5	561	1110		0	0																204.29	4.680
6	562			Loop																		
7																						
8																						
9																						
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ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments: test standardized machine after end of run 0.714/0.714/0.714 Valves are low.