

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LAG1

UTC DATE y/m/d: 98/07/15
CAST NUMBER: 1

SHIP: 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	84		251		✓		✓											2039	
2	2			200		✓													2006	
3	3			175		✓													2252	
4	4			150		✓													2307	
5	5			125		✓													2458	
6	6			100		✓													3.227	
7	7			75		✓													4.353	
8	8			50		✓													3.738	
9	9			30		✓													3.989	
10	10			20		✓													4.564	
11	11			10		✓													4.809	
12	12	467		0		✓		✓											4.820	
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

ENTERED BY: Susan
CHECKED BY:

Bottom Depth: 265

Cast # down: 1
Cast # up: 1

Time	LOC	UTC
Begin:		0323
Bottom:		0445
End:		

START POSITION (GPS)
LAT: 4829.15
LONG: 124 44.43

BOTTOM POSITION (GPS)
LAT: 48° 26.39'
LONG: 124° 51.29'

END POSITION (GPS)
LAT:
LONG:

Comments: Sounder was not working. Couldn't see pinger.

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LA02

UTC DATE y/m/d: 98/07/03
CAST NUMBER: 3

SHIP: 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	13	486		295		✓													1.799	
2	14	509		250		✓													1.797	
3	15			200		✓													1.749	
4	16			175		✓													1.780	
5	17			125		✓													2.679	
6	18			100		✓													3.957	
7	19			50		✓													4.562	
8	20			30		✓													4.726	
9	21			20		✓													5.917	
10	22			10		✓													6.801	
11	23	630		0		✓													6.807	
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

ENTERED BY:
CHECKED BY:

Bottom Depth: 305

Cast # down: 2
Cast # up: 3

Time	LOC	UTC
Begin:		0506
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 26.83
LONG: 124 51.22

END POSITION (GPS)
LAT:
LONG:

Comments: missed 150m, 75m.

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LA04

UTC DATE y/m/d: July 15/98
CAST NUMBER: 6

SHIP: TULLY

					ROSETTE OPERATION		Samples taken											
Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		PH7			
								OXY		CHL		Cl3		NH4				
1	24	632		175		✓		✓	✓									1.674
2	25	638		150		✓		✓	✓									1.677
3	26	641		125		✓		✓	✓									1.694
4	27	650		100		✓		✓	✓									1.834
5	28	657		75		✓		✓	✓									
6	29	695		50		✓		✓	✓	✓								4.279
7	30	697		30		✓		✓	✓	✓								5.174
8	31	707		20		✓		✓	✓	✓								6.300
9	32	708		10		✓		✓	✓	✓			✓					6.568
10	33	709		0		✓		✓	✓	✓				✓				6.715
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY: JE
CHECKED BY:

Bottom Depth: 185m

Cast # down: 6
Cast # up: 6

Time	LOC	UTC
Begin:		0746
Bottom:		0749
End:		0758

START POSITION (GPS)
LAT: 48° 19.27'
LONG: 125° 04.38'

BOTTOM POSITION (GPS)
LAT: 48° 19.19'
LONG: 125° 4.45'

END POSITION (GPS)
LAT: 48° 19.13'
LONG: 125° 4.62'

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LA06

UTC DATE y/m/d: 98/07/15
CAST NUMBER: 8

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken												Oxy
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		PHY				
								OXY		CHL		CI3		NH4		DL			
1	34	712		100	102	✓		-	✓				✓			✓			2.140
2	35	713		75	75	✓		✓	✓				✓			✓			3.161
3	36	715		50	50	✓		✓	✓	✓			✓			✓			4.630
4	37	724		30	30	✓		✓	✓	✓			✓			✓			5.430
5	38	726		20	21	✓		✓	✓	-	✓		✓			✓			5.970
6	39	727		10	10	✓		✓	✓	-	✓		✓	✓		✓			6.721
7	40	730		0	16	✓		✓	✓	✓	✓		✓		-	✓			6.837
8																			
9																			
10																			
11																			
12																			
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18																			
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22																			
23																			
24																			

Comments:

ENTERED BY: JE
CHECKED BY:

Bottom Depth: 112

Cast # down: 8
Cast # up: 8

Time	LOC	UTC
Begin:		0949
Bottom:		0951
End:		0958

START POSITION (GPS)
LAT: 48° 12.55'
LONG: 125° 17.43'

BOTTOM POSITION (GPS)
LAT: 48° 12.53'
LONG: 125° 17.51'

END POSITION (GPS)
LAT: 48° 12.51'
LONG: 125° 17.63'

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LA08

UTC DATE y/m/d: 98/07/15
CAST NUMBER: 10

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken													
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		PHY					
								OXY		CHL		C13		NH4						
1	41	732		Bo-5	136			-	-										2.307	
2	42	734		125	123			-	-										2.947	
3	43	735		100	98			-	-										4.307	
4	44	1130		75	73			-	-										5.779	
5	45	1045		50	50			-	-	-									6.094	
6	46	1052		30	30			-	-	-									6.129	
7	47	1062		20	20			-	-	-									6.174	
8	48	1090		10	10			-	-	-				11					6.429	
9	49	1103		0	1			-	-	-					1				6.474	
10																				
11																				
12																				
13																				
14																				
15																				
16																				
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19																				
20																				
21																				
22																				
23																				
24																				

ENTERED BY:
CHECKED BY:

Bottom Depth: 141

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		1148
Bottom:		
End:		

START POSITION (GPS)
LAT: 4805.71
LONG: 12530.55

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LA09

UTC DATE y/m/d: 98/7/15
CAST NUMBER: 11

SHIP: 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		DOC	TOC					
1	50	1104		350	350			✓											1.642	
2	51	1105		300	299			✓											1.776	
3	52	1106		250	249			✓											1.929	
4	53	1110		200	198			✓						✓	✓				2.121	
5	54	1113		175	176			✓											2.383	
6	55	1114		150	150			✓											2.543	
7	56	1119		125	126			✓											3.146	
8	57	1122		100	101			✓											3.761	
9	58	1126		75	75			✓						✓	✓				5.546	
10	59	1128		50	50			✓						✓	✓				6.141	
11	60	1132		30	30			✓						✓	✓				6.078	
12	61	1133		20	20			✓			✓			✓	✓				6.189	
13	62	1134		10	9			✓			✓			✓	✓				6.235	
14	63	1135		0	2			✓			✓			✓	✓				6.186	
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 360

Cast # down: 11
Cast # up: 1

Time	LOC	UTC
Begin:		1254
Bottom:		
End:		

START POSITION (GPS)
LAT: 48 02.37
LONG: 125 32.06

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LA10

UTC DATE y/m/d: 98/7/15
CAST NUMBER: 12

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										OXY
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO				
								OXY		CHL		C13		pH	TOC		
1	64	1136		920	924			✓									0.383
2	65	1137		800	801												0.306
3	66	1138		600	601												0.594
4	67	1139		500	498												0.847
5	68	1141		400	401												1.321
6	69	1142		300	302												1.902
7	70	1143		250	253												2.255
8	71	1144		200	204									✓	✓		2.669
9	72	1146		175	173												3.017
10	73	1148		150	150												2.909
11	74	1150		125	127												3.859
12	75	1152		100	100												4.876
13	76	1153		75	76									✓	✓		6.042
14	77	1154		50	51									✓	✓		6.394
15	78	1155		30	31									✓	✓		6.754
16	79	1157		20	19						✓			✓	✓		6.103
17	80	1158		10	11						✓			✓	✓		5.993
18	81	1160		0	3						✓			✓	✓		6.262
19																	
20																	
21																	
22																	
23																	
24																	

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 926

Cast # down: 12
Cast # up: 12

Time	LOC	UTC
Begin:		1414
Bottom:		
End:		

START POSITION (GPS)
LAT: 47 58.817
LONG: 125 43.911

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LB16

UTC DATE y/m/d: 98107/15
CAST NUMBER: 14

SHIP: TULLY

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

ROSETTE OPERATION		Samples taken													
Trip	Confirmed	SAL		NUT		ALK		TCO							
pressure	Salinity		OXY		CHL		C13								

1				54											
2				54											
3				38											
4				9											
5				9											
6				5											
7				2											
8				2											
9				2											
10				2											
11															
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22															
23															
24															

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down: 14
Cast # up: 14

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:

9823

UTC DATE y/m/d:

98/07/15

STATION NAME:

LB16

CAST NUMBER:

15

SHIP:

Tully

ENTERED BY:

JE

CHECKED BY:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	Trip pressure	Confirmed		SAL		NUT		ALK		TCO					
						Salinity			OXY		CHL		C13						
1	82			80.5	1802	✓		✓	✓	✓									
2	83			1500	1500	✓		✓	✓	✓									
3	84			1200	1200	✓		✓	✓	✓									
4	85			1000	999	✓		✓	✓	✓									
5	86			800	800	✓		✓	✓	✓									
6	87			600	600	✓		✓	✓	✓									
7	88	8		500	500	✓		✓	✓	✓									
8	89			400	400	✓		✓	✓	✓									
9	90			300	300	✓		✓	✓	✓									
10	91			250	250	✓		✓	✓	✓									
11	92			200	199	✓		✓	✓	✓									
12	93			175	175	✓		✓	✓	✓									
13	94			150	150	✓		✓	✓	✓									
14	95			125	124	✓		✓	✓	✓									
15	96			100	100	✓		✓	✓	✓									
16	97			75	74	✓		✓	✓	✓									
17	98	2 fired		50		?		✓	✓										
18	99	20		30	31	✓		✓	✓										
19	100			20	20	✓		✓	✓										
20	101			10	10	✓		✓	✓										
21	102			0	0	✓													
22																			
23																			
24																			

Comments:

Bottom Depth: 1790

Cast # down: 15

Cast # up: 15

Time LOC UTC

Begin: 1857

Bottom: 1937

End:

START POSITION (GPS)

LAT: 48° 00.59'

LONG: 126° 16.99'

BOTTOM POSITION (GPS)

LAT: 48° 00.49'

LONG: 126° 17.13'

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID:

STATION NAME:

9823

LB15

IMO 8320420

UTC DATE y/m/d:

CAST NUMBER:

98/07/5

16

804457

SHIP:

TULLY

ENTERED BY:

JE

CHECKED BY:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken													
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO							
1	82			1500	1631		✓													
2	83			1200			✓													
3	84			500			✓													
4																				
5																				
6																				
7																				
8																				
9																				
10																				
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21																				
22																				
23																				
24																				

Bottom Depth:

1577

Cast # down:

16

Cast # up:

16

Time

LOC

UTC

Begin:

2244

Bottom:

End:

START POSITION (GPS)

LAT:

48° 03.14'

LONG:

126° 07.27'

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

45:81 228 ✓

ROSETTE LOG

MISSION ID:

9803

UTC DATE y/m/d:

98/07/18

STATION NAME:

LC01

CAST NUMBER:

200

SHIP:

TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken												02	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO	TOX	DL					
✓ 1	82	84		88	✓			✓	✓					✓	✓				2956	
✓ 2	83	97		75	✓			✓	✓					✓	✓				3477	
✓ 3	84	255		50	✓			✓	✓	✓				✓	✓				4108	
✓ 4	85	333		30	31			✓	✓	✓				✓	✓				5235	
✓ 5	86	337		20	21			✓	✓	✓	✓			✓	✓				5253	
✓ 6	87	364		10	11			✓	✓	✓	✓			✓	✓				5682	
✓ 7	88	392		0	2			✓	✓	✓	✓			✓	✓				6519	
8																				
9																				
10																				
11																				
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22																				
23																				
24																				

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth:

94

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0550

Bottom:

End:

START POSITION (GPS)

LAT: 4850.44

LONG: 1252762

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

20

40

46

58

20

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/18

STATION NAME:

LCØ2

CAST NUMBER:

201

SHIP:

Tully

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

ROSETTE OPERATION

Samples taken

Trip
pressureConfirmed
SalinitySAL
OXYNUT
CHL

ALK

TCO
C13TON
DICTOC
TOC

✓1	89	412			99	✓		✓	✓					✓	✓	✓	2.901	
✓2	90	425		75	76	✓		✓	✓					✓	✓	✓	4.385	
✓3	91	443		50	51	✓		✓	✓	✓				✓	✓	✓	4.020	
✓4	92	463		30	31	✓		✓	✓	✓				✓	✓	✓	4.006	
✓5	93	467		20	22	✓		✓	✓	✓	✓			✓	✓	✓	4.379	
✓6	94	486		10	9	✓		✓	✓	✓	✓			✓	✓	✓	5.075	
✓7	95	509		0	2	✓		✓	✓	✓	✓			✓	✓	✓	5.723	
8																		
9																		
10																		
11																		
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22																		
23																		
24																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 110

Cast # down: 201

Cast # up: 201

Time LOC UTC

Begin: 0641

Bottom:

End:

START POSITION (GPS)

LAT: 48° 48.63

LONG: 125° 31.33

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/7/18

STATION NAME:

LC04

CAST NUMBER:

204

SHIP:

Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken													
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		DO		PER					
								OXY		CHL		C13	TIC	NH4	POC	ph	DOC			
1	96	527		160	174			✓	✓									2534		
2	97	534		150	150			✓	✓				✓				✓	2599		
3	98	535		125	125			✓	✓									2673		
4	99	572		100	101			✓	✓									2945		
5	100	578		75	75			✓	✓									3.177		
6	101	587		50	51			✓	✓									4.439		
7	102	588		40	41			✓	✓	✓			✓	✓	✓	✓	✓	4.525		
8			802	40	41															
9			902	40	41															
10	103	597		30	30			✓	✓	✓			✓				✓	4.061		
11			871	30	30															
12	104	630		15	16			✓	✓	✓			✓	✓	✓	✓	✓	4.061		
13			813	15	16															
14			814	15	16															
15	105	632		5	5			✓	✓	✓	✓		✓				✓	7.002		
16			816	5	5															
17	106	638		2	2			✓	✓	✓	✓		✓	✓	✓	✓	✓	7.134		
18			818	2	2															
19			819	2	2															
20	107	641		0	2			✓	✓	✓	✓		✓	✓	✓	✓	✓	7.135		
21			821	0	2															
22			822	0	2															
23			823																	
24																				

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 170

Cast # down: 204

Cast # up: 204

Time LOC UTC

Begin: 1128

Bottom:

End:

START POSITION (GPS)

LAT: 48 43.72

LONG: 125 41.81

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/7/18

SHIP:

Tully

STATION NAME:

LC07

CAST NUMBER:

207

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO	TBN	TCL	D _o		
								OXY		CHL		Cl3						
1	108	707		125	125			✓	✓	✓							1.728	
2	109	708		100	100			✓	✓	✓	✓			✓	✓	✓	2.631	
3	110	709		75	75			✓	✓	✓				✓	✓	✓	3.085	
4	111	712		50	49			✓	✓	✓				✓	✓	✓	3.850	
5	112	713		30	29			✓	✓	✓				✓	✓	✓	3.779	
6	113	715		20	19			✓	✓	✓	✓			✓	✓	✓	4.318	
7	114	724		10	10			✓	✓	✓	✓			✓	✓	✓	6.224	
8	115	726		0	1			✓	✓	✓	✓			✓	✓	✓	6.784	
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 128

Cast # down:

Cast # up:

Time LOC UTC

Begin: 1428

Bottom:

End:

START POSITION (GPS)

LAT: 48 32 87

LONG: 126 00.39

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/7/18

STATION NAME:

LC08

CAST NUMBER:

208

SHIP:

Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		TCO			
1	116	727		197	197												1900	
2	117			175	175												2119	
3	118			150	149										✓	✓	2683	
4	119			125	125												2941	
5	120	735		100	100												3880	
6	121			75	75										✓	✓	4921	
7	122			50	50										✓	✓	6206	
8	123			30	29										✓	✓	6376	
9	124	1062		20	20						✓				✓	✓	6304	
10	125	1090		10	10						✓				✓	✓	6370	
11	126			0	0						✓				✓	✓	6380	
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth:

200m

Cast # down:

Cast # up:

Time LOC UTC

Begin: 1541

Bottom:

End:

START POSITION (GPS)

LAT: 48 29.39

LONG: 126 06.99

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG **MISSION ID:** 9823
STATION NAME: LC09

STATION NAME:

UTC DATE y/m/d:

CAST NUMBER:

SHIP: TULLY

CHECKED BY:

Bottom Depth: 600.

Cast # down:

Cast # up:

Time	LOC	UTC
------	-----	-----

Begin: 1206

Bottom:

End:

START POSITION (GPS)

LAT: 48 25.96

LONG: 126 1348

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/18

STATION NAME:

LC10

CAST NUMBER:

212

SHIP:

Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		TOC			
								OXY		CHL		C13		NH ₄		DIC		
1	141			30-5	1246	✓	✓		✓									
2	142			1000	1000	✓	✓		✓									
3	143			800	800	✓	✓		✓									
4	144			600	600	✓	✓		✓									
5	145			500	500	✓	✓		✓									
6	146			400	400	✓	✓		✓									
7	147	6		300	299	✓	✓		✓									
8	148	6		250	249	✓	✓		✓									
9	149	6		200	200	✓	✓		✓									
10	150	4		175	175	✓	✓		✓									
11	151	8		150	149	✓	✓		✓									
12	152	6		125	125	✓	✓		✓									
13	153	7		100	100	✓	✓		✓						✓	✓		
14	154	8		75	75	✓	✓		✓						✓	✓		
15	155	9		50	50	✓	✓		✓	✓					✓	✓		
16	156	10		30	30	✓	✓		✓	✓					✓	✓		
17	157	11		20	20	✓	✓		✓	✓	✓				✓	✓		
18	158	12		10	10	✓	✓		✓	✓	✓			✓	✓	✓		
19	159	13		0	2	✓	✓		✓	✓	✓			✓	✓	✓		
20																		
21																		
22																		
23																		
24																		

Comments:

13 bottles closed

ENTERED BY:

JE

CHECKED BY:

Bottom Depth:

1239

Cast # down:

212

Cast # up:

212

Time

LOC

UTC

Begin:

1914

Bottom:

1936

End:

2014

START POSITION (GPS)

LAT:

48° 22 39'

LONG:

126° 20 19'

BOTTOM POSITION (GPS)

LAT:

48° 22 57'

LONG:

126° 20 33'

END POSITION (GPS)

LAT:

48° 22 94

LONG:

126° 20 06

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/18

SHIP:

Tully

STATION NAME:

LC10

CAST NUMBER:

212/213

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken													
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO	DIC	TOC					
								OXY		CHL		C13					NH4			
1	141	1144	801	30-5	1245	✓	✓	✓	✓									563		
2	142		802	1000	1000	✓	✓	✓	✓						0.060			1317	room	
3	143		803	800	800	✓	✓	✓	✓						0.047			235	room	
4	144		804	600	600	✓	✓	✓	✓									448		
5	145		805	500	500	✓	✓	✓	✓									754		
6	146			150	149	✓	✓	✓	✓									3.007		
7	147			125	125	✓	✓	✓	✓				✓	✓				3496		
8	148			100	100	✓	✓	✓	✓									4169		
9	149			75	75	✓	✓	✓	✓				✓	✓				5.611		
10	150			50	50	✓	✓	✓	✓				✓	✓				6.120		
11	151			30	30	✓	✓	✓	✓				✓	✓				6.194		
12	152			20	20	✓	✓	✓	✓			✓	✓	✓				6.336		
13	153			10	10	✓	✓	✓	✓			✓	✓	✓	✓			6.418		
14	154	1167		0	0	✓	✓	✓	✓			✓	✓	✓	✓			6.437		
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

ENTERED BY:

JE

CHECKED BY:

Bottom Depth:

1249

Cast # down:

212 0 → Bot → 400m

Cast # up:

213

Time

LOC

UTC

Begin:

1914

Bottom:

1936

End:

2014

START POSITION (GPS)

LAT:

48° 22 39'

LONG:

126° 20 19'

BOTTOM POSITION (GPS)

LAT:

48° 22 54'

LONG:

126° 20 33'

END POSITION (GPS)

LAT:

48° 22 94'

LONG:

126° 20 06'

Comments:

JE hit <CTRL> F1 at 400m, causing much confusion. No samples taken 400 → 175m. Cast 212 covers surface → bottom → 400m. Cast 213 covers 400m → surface.

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

1998/07/18

STATION NAME:

LC11

CAST NUMBER:

214

SHIP:

TULLY

Niskin
No.Sample
No.OXY.
FlaskOXY.
Temp.Sample
Depth

ROSETTE OPERATION

Trip
pressureConfirmed
Salinity

Samples taken

SAL

NUT

ALK

TCO

TSS

OXY

CHL

C13

DC

1	155	1160		805	1427			✓	✓	✓								672	
2	156			1200	✓			✓	✓				.072	can bubble				.392	poor
3	157			1000	✓			✓	✓									.293	
4	158			800	✓			✓	✓									.276	
5	159			600	✓			✓	✓									.395	
6	160			500	✓				✓									.749	
7	161			400	✓				✓									1.196	
8	162			300	✓				✓									2.062	
9	163			250	✓				✓									2.414	poor
10	164			200	✓				✓						✓	✓		2.645	
11	165			175	✓				✓									can	
12	166			150	✓				✓									3.055	
13	167			125	✓				✓									3.639	
14	168			100	✓				✓									4.516	
15	169			75	✓				✓							✓	✓	5.986	
16	170			50	✓				✓		✓					✓	✓	6.108	
17	171			30	✓				✓		✓	✓				✓	✓	6.355	
18	172			20	✓				✓		✓	✓	✓			✓	✓	6.344	
19	173			10	✓				✓		✓	✓	✓			✓	✓	6.368	
20	174	1193		0	✓				✓	✓	✓	✓				✓	✓	6.324	
21																			
22																			
23																			
24																			

Comments:

ENTERED BY:

BETH

CHECKED BY:

Bottom Depth: 1390

Cast # down: 214

Cast # up:

Time LOC UTC

Begin: 21:14

Bottom: ✓

End: 22:31

START POSITION (GPS)

LAT: 4819.00

LONG: 126 26.64

BOTTOM POSITION (GPS)

LAT:

LONG: ✓

END POSITION (GPS)

LAT: 4819.60

LONG: 126 26.39

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/7/19

STATION NAME:

LD10

CAST NUMBER:

216

SHIP:

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	175	1194		8-10	1479		✓	✓									0.728	
2	176			1200	1199		✓	✓									0.443	
3	177			1000	998												0.299	
4	178			800	797												0.254	
5	179			600	598												0.335	
6	180			500	502												0.644	
7	181			400	403												1.095	
8	182			300	302												1.626	
9	183			250	253												1.988	
10	184			200	202												1.916	
11	185			175	175												2.706	
12	186			150	151												3.274	
13	187			125	124												3.410	
14	188			100	100												4.170	
15	189			75	75												5.936	
16	190			50	50												6.422	
17	191			30	31												6.285	
18	192			20	19												6.221	
19	193			10	10												6.202	
20	194	1218		0	0			✓									6.145	
21																		
22																		
23																		
24																		

ENTERED BY:

CHECKED BY:

Bottom Depth:

1474

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0159

Bottom:

End:

START POSITION (GPS)

LAT: 48 32.20

LONG: 126 36.47

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments: open file in with 214. SORRY!

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/19

STATION NAME:

LD09

CAST NUMBER:

217

SHIP:

Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL ✓	NUT ✓	ALK X	TCO X	CHL X	C13 X	NH4 X					
1	195			800m	1088	✓	✓	✓									334	
2	196			800	800	✓	✓	✓									262	
3	197			600	602	✓											408	
4	198			500	501	✓											642	
5	199			400	409	✓											1054	
6	200	364		300	300	✓											1805	
7	201			250	251	✓											2176	
8	202			200	199	✓											2482	
9	203			175	175	✓											2583	
10	204			150	150	✓											2846	
11	205			125	124	✓											3596	
12	206			100	100	✓											3977	
13	207			75	75	✓											4910	
14	208			50	51	✓					✓						6046	
15	209			30	29	✓					✓						6143	
16	210			20	19	✓					✓						6400	
17	211			10	9.5	✓					✓						6476	
18	212	572		0	1.6	✓ phyto ✓					✓						6447	
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth:

1084

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0400

Bottom:

End:

START POSITION (GPS)

LAT: 4835.53

LONG: 12629.84

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/19

STATION NAME:

LD07

CAST NUMBER:

219

SHIP:

TWH

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										O ₂	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		TUC			
								OXY		CHL		C13		DIC		NH ₄		
1	213	578		305	574	✓	✓	✓	✓								.661	box 1
2	214			500		✓	✓	✓	✓								.874	
3	215			400		✓	✓	✓	✓								1.369	
4	216			300		✓	✓	✓	✓								1.848	
5	217			250		✓	✓	✓	✓								1.908	
6	218	632		200		✓		✓	✓					✓	✓		2.016	
7	219	638		175		✓		✓	✓								2.405	
8	220	641		150		✓		✓	✓								2.277	
9	221	650		125		✓		✓	✓								2.699	
10	222	657		100		✓		✓	✓								3.282	
11	223	695		75		✓		✓	✓					✓	✓		4.342	
12	224	697		50		✓		✓	✓	✓				✓	✓		5.265	box 1
13	225	707		30		✓		✓	✓	✓				✓	✓		5.474	box 2
14	226	708		20		✓		✓	✓	✓	✓			✓	✓		6.208	
15	227	709		10		✓		✓	✓	✓	✓			✓	✓	✓	6.675	
16	228	712		0		✓		✓	✓	✓	✓			✓	✓	✓	6.822	box 2.
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 590

Cast # down: 219

Cast # up: 219

Time LOC UTC

Begin: 0700

Bottom: 0717

End: 0737

START POSITION (GPS)

LAT: 48° 42.82'

LONG: 126° 17.00'

BOTTOM POSITION (GPS)

LAT: 48° 43.00'

LONG: 126° 17.27'

END POSITION (GPS)

LAT: 48° 43.19'

LONG: 126° 17.64'

new colorimeter bulb

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

1998/07/19

STATION NAME:

LD06

CAST NUMBER:

220

SHIP:

TULLY

Niskin
No.Sample
No.OXY.
FlaskOXY.
Temp.Sample
Depth

ROSETTE OPERATION

Trip
pressureConfirmed
Salinity

SAL

OXY

NUT

CHL

ALK

C13

TCO

DIC

TOC

NH₄

PHY

Samples taken

1	229	713		125	122	✓		✓	✓					✓	✓		1682
2	230			100		✓		✓	✓								2998
3	231			75		✓		✓	✓								4153
4	232			50		✓		✓	✓	✓				✓	✓		5470
5	233			30		✓		✓	✓	✓				✓	✓		6062
6	234			20		✓		✓	✓	✓	✓			✓	✓		6071
7	235			10		✓		✓	✓	✓	✓			✓	✓	✓	6417
8	236	734		0		✓		✓	✓	✓	✓			✓	✓	✓	6612
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

ENTERED BY:

JE

CHECKED BY:

Bottom Depth:

137

Cast # down:

220

Cast # up:

220

Time

LOC

UTC

Begin:

0830

Bottom:

End:

0841

START POSITION (GPS)

LAT:

48° 46 07'

LONG:

126° 10 25'

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

48° 45 97'

LONG:

126° 10 17'

Comments:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LD 04

UTC DATE y/m/d: 1998/07/19
CAST NUMBER: 223

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken													
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO	NH4						
								OXY		CHL		CI3				PHY			02	
1	237	735		30-5	55	✓		✓	✓										3481	
2	238			50		✓		✓	✓	✓									3.564	
3	239			30		✓		✓	✓	✓									5.270	
4	240			20		✓		✓	✓	✓									5.423	
5	241			10		✓		✓	✓	✓				✓✓					5.956	
6	242	1090		0		✓		✓	✓	✓					✓				6.186	
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

ENTERED BY: JE
CHECKED BY:

Bottom Depth: 62

Cast # down: 223
Cast # up: 223

Time	LOC	UTC
Begin:		1045
Bottom:		
End:		1052

START POSITION (GPS)
LAT: 48° 53' 06"
LONG: 125° 56' 96"

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48° 52' 96"
LONG: 125° 56' 92"

Comments:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/7/19

STATION NAME:

LDO2

CAST NUMBER:

225

SHIP:

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		NH ₄				
1	243	1103		40	39			✓	✓	✓							3.730	
2	244			30	30			✓	✓	✓							3.019	
3	245			20	19			✓	✓	✓							5.255	
4	246			10	11			✓	✓	✓				2			5.234	
5	247			0	1			✓	✓	✓							6.635	
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:

42

Cast # down:

Cast # up:

Time LOC UTC

Begin: 1226

Bottom:

End:

START POSITION (GPS)

LAT: 4858.22

LONG: 12546.99

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/7/19

STATION NAME:

LD01

CAST NUMBER:

227

SHIP:

Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		TOL			
1	248	1113		30	30				✓	✓	✓				✓	✓	4504	
2	249	1114		20	21				✓	✓	✓	✓			✓	✓	4.875	
3	250	1119		10	10				✓	✓	✓	✓		2	✓	✓	5.946	
4	251	1122		0	2				✓	✓	✓	✓			✓	✓	6.479	
5																		
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: 35

Cast # down:

Cast # up:

Time LOC UTC

Begin: 13:21

Bottom:

End:

START POSITION (GPS)

LAT: 49 00.13

LONG: 125 43.79

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LF01

UTC DATE y/m/d: 98/07/19
CAST NUMBER: 229

SHIP: 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	252	1132		30	30			✓									5.392	
2	253			20	20			✓						1022			6.276	Poor
3	254			10	11			✓									6.637	
4				0	—													
5																		
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: 33m

Cast # down:
Cast # up:

Time LOC UTC
Begin: 1622
Bottom:
End:

START POSITION (GPS)
LAT: 491489
LONG: 126 14.52

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LF02

UTC DATE y/m/d: 98/07/19
CAST NUMBER: 230

SHIP: 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	255	1135		bot-5	43			↑											3.629	
2	256			30	30														4.569	
3	257			20	21														6.042	
4	258			10	10														6.253	
5	259			0	1.2			↓											7.304	
6	260	1141		0	1.2			✓											7.431	
7																				
8	Took extra surface sample.																			
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

ENTERED BY:
CHECKED BY:

Bottom Depth: 48

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		1649
Bottom:		
End:		

START POSITION (GPS)
LAT: 49 13.34
LONG: 126 16.54

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID:**STATION NAME:**

UTC DATE y/m/d:

CAST NUMBER:

SHIP: Tully

[illegible]

ENTERED BY:

CHECKED BY:

Bottom Depth: 88

Cast # down:

Cast # up:

Time	LOC	UTC
------	-----	-----

Begin: 1744

Bottom:

End:

START POSITION (GPS)

LAT: 4909.75

LONG: 12.6 22.09

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID:

STATION NAME:

UTC DATE y/m/d:

CAST NUMBER:

SHIP: Tully

[illegible]

ENTERED BY:

CHECKED BY:

Bottom Depth: 128

Cast # down:	232
--------------	-----

Cast # up:

Time	LOC	UTC
------	-----	-----

Begin: 1847

Bottom:

End:

START POSITION (GPS)

LAT: 4906.02

LONG: 126 27 64

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

Scale on computer (pressure) only to 100 instead of 125m.

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/19

STATION NAME:

LF05

CAST NUMBER:

233

SHIP: Tully

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

ROSETTE OPERATION

Trip pressure	Confirmed Salinity
---------------	--------------------

Samples taken

SAL	✓	NUT	ALK	TCO	C13
-----	---	-----	-----	-----	-----

1	276	1171		bott-10	✓													2.103	box 3
2	277	1174		125	✓													2.160	
3	278	1175		100	✓													2.101	
4	279	1176		75	✓													2.675	
5	280	1177		50	✓													3.577	
6	281	1178		30	✓													4.641	
7	282	1180		20	✓													5.426	box 4.
8	283	1182		10	✓													6.867	
9	284	1183		0	✓													7.123	
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

ENTERED BY:

CHECKED BY:

Bottom Depth: 154

Cast # down:

Cast # up:

Time	LOC	UTC
------	-----	-----

Begin: 1942

Bottom:

End:

START POSITION (GPS)

LAT: 4901.96

LONG: 12633.02

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LF06UTC DATE y/m/d: 98/07/19
CAST NUMBER: 234SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	285	1187		Bot -10		✓		✓									1577	
2	286			400		✓		1									1794	
3	287			300		✓											1993	
4	288			250		✓											2247	
5	289			200		✓											2441	
6	290			175		✓											2613	
7	291			150		✓											2872	
8	292			125		✓											2932	
9	293			100		✓											3232	
10	294			75		✓											4648	
11	295			50		✓											5759	
12	296			30		✓											6072	
13	297			20		✓											6275	
14	298			10		✓		1									6235	
15	299	1203		0		✓		✓									6232	
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: BETH
CHECKED BY:Bottom Depth: 450Cast # down: 234

Cast # up:

Time	LOC	UTC
Begin:		<u>2046</u>
Bottom:		
End:		

START POSITION (GPS)	
LAT:	<u>48 58.18</u>
LONG:	<u>126 38.77</u>

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	
LONG:	

Comments:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LF7UTC DATE y/m/d: 98/07/19
CAST NUMBER: 235SHIP: 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	300			BOT-10	731	✓		✓						1.421	box 4
2	301			600		✓		✓						556	
3	302			500		✓		✓						1.762	
4	303			400		✓								1.144	
5	304			300		✓								1.824	
6	305			250		✓								2.212	
7	306			200		✓								2.244	
8	307			175		✓								2.630	
9	308			150		✓								2.886	
10	309			125		✓								3.334	
11	310			100		✓								3.875	
12	311			75		✓								5.365	
13	312			50		✓								6.471	box 1.
14	313			30		✓								6.205	
15	314			20		✓								6.231	
16	315			10		✓								6.149	
17	316			0		✓								6.162	
18															
19															
20															
21															
22															
23															
24															

ENTERED BY: BETH

CHECKED BY:

Bottom Depth: 710Cast # down: 735

Cast # up:

Time LOC UTC

Begin: 2213

Bottom:

End: 2256

START POSITION (GPS)

LAT: 48 53.86LONG: 126 44.89

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48 53.66LONG: 126 44.24

Comments:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/7/19

STATION NAME:

LF08

CAST NUMBER:

236

SHIP:

J Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										OXY	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	317			B-10	1212		✓										0.394	
2	318			1000	1000		✓										0.303	
3	319			800	802		✓										0.271	
4	320			600	600		✓										0.412	
5	321			500	500												0.795	
6	322			400	400												1.163	
7	323			300	300												2.985	
8	324			250	250												2.040	
9	325			200	198												2.461	
10	326			175	175												2.654	
11	327			150	150												3.352	
12	328			125	124												3.504	
13	329			100	98												5.507	
14	330			75	75												5.963	
15	331			50	48												6.561	
16	332			30	30												6.311	
17	333			20	20												6.190	
18	334			10	10												6.147	
19	335			0	1.8		✓										6.098	
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth:

1200

Cast # down:

Cast # up:

Time LOC UTC

Begin: 23:55

Bottom:

End: 00:53

START POSITION (GPS)

LAT: 48 49.95 N

LONG: 126 51.16 W

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48 50.116 N

LONG: 126 51.786 W

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LF09UTC DATE y/m/d: 98/7/20
CAST NUMBER: 237SHIP: J Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken												OXY	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO							
								OXY		CHL		C13								
1	336			B-10	1570		-												0.787	
2	337			1500	1500		-												0.676	
3	338			1200	1199		-												0.515	
4	339			1000	1000		-												0.328	
5	340			800	801		-												0.266	
6	341			600	604														0.431	
7	342			500	503														0.748	
8	343			400	400														1.201	
9	344			300	302														2.310	
10	345			250	250														4.175	
11	346			200	198														3.172	
12	347			175	174														2.721	
13	348			150	149														3.001	
14	349			125	123														4.086	
15	350			100	100														5.697	
16	351			75	75														6.157	
17	352			50	50														6.324	
18	353			30	31														6.361	
19	354			20	20														7.434	
20	355			10	9.9														6.1167	
21	356			0	2.5														6.118	
22																				
23																				
24																				

Comments:

ENTERED BY:
CHECKED BY:Bottom Depth: 1460

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:	18.41	01:41
Bottom:		
End:		

START POSITION (GPS)	
LAT:	48 45.85N
LONG:	126 57.01 W

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	
LONG:	

ROSETTE LOG

MISSION ID:

9823

STATION NAME:

LR01

UTC DATE y/m/d:

98/07/20

CAST NUMBER:

241/242(243)

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Transmission
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO	PON	TON		
✓1	357	did not close.			2193												0.2
✓2	358				2176												1.692
✓3	359				2151									✓	✓	✓	91.28 1.617
✓4	360				2125											✓	91.23 1.613
✓5	361				2100												91.25 1.605
✓6	362				2077												91.20 1.607
✓7	363	1138			2051												90.37 1.559
✓8	364	1139			2025									✓		✓	90.47 1.552
✓9	365				2000									✓	✓	✓	90.42 1.551
✓10	366				1975												90.72 1.504
✓11	367				1950												90.81 1.501
✓12	368				1926												90.86 1.478
✓13	369				1901												91.55 1.401
✓14	370				1875									✓		✓	91.84 1.343
✓15	371				1826											✓	91.84 1.229
✓16	372			1700	1743		✓									✓	91.84 1.116
✓17	373			1500	1500		✓										91.84 .700
✓18	374			1000	1001		✓							✓			91.79 .293
✓19	375			500	500		✓										91.79 .861
✓20	376			250	250									✓			91.45 3.267
✓21	377			100	98									✓			91.01 5.981
✓22	378			60 CM	49									✓			86 6.810
✓23	379			30	30									✓			62.52
✓24	380			0	2									✓			6.104

ENTERED BY:

CHECKED BY:

Bottom Depth: 2200

Cast # down: 241, 242

Cast # up: 243

Time LOC UTC

Begin: 1900

Bottom:

End:

START POSITION (GPS)

LAT: 47 57.49

LONG: 129 05.48

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments: Bottle didn't close

SURFACE BOTTLE #24 maybe contaminated with diesel

cleaned inside of calommeter lens, reading went from 100 to 111.

ROSETTE LOG

MISSION ID:

9823

STATION NAME:

BPO7

UTC DATE y/m/d:

98/07/21

CAST NUMBER:

246

SHIP: 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	381			^ bot	2002			✓									1413	
✓2	382			1500	1493												732	
✓3	383			1200	1206												408	
✓4	384			1000	998												298	
✓5	385			800	817												263	
✓6	386			600	697												422	
✓7	387			500	499												635	
✓8	388			400	398												989	
✓9	389			300	295												1634	
✓10	390			200	200												2270	
✓11	391			175	174												2304	
✓12	392			150	150												2556	
✓13	393	468		100	101												3533	
✓14	394			75	74												4467	
✓15	395			40	40												4673	
✓16	396	534		40	40												4691	
✓17	397			30	29												5986	
✓18	398			20	19												6315	
✓19	399			20	19												6316	
✓20	400			10	11												6331	
✓21	401			5	7.7												6344	
✓22	402			5	7.7			✓									6358	
✓23	X	NO		0	2													
✓24	X	NO		0	2													

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 2204

Cast # down:

Cast # up:

Time LOC UTC

Begin: 1503

Bottom:

End:

START POSITION (GPS)

LAT: 4952.44

LONG: 12811.13

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID:

9823

STATION NAME:

LBP6

UTC DATE y/m/d:

98/01/21

CAST NUMBER:

248

SHIP:

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	403				720		✓	✓									354	
✓2	404			600	600		✓										451	
✓3	405	638		500	503		✓										705	
✓4	406	641		400	397												1.006	
✓5	407			300	300												1.568	
✓6	408			250	253												1.989	
✓7	409			200	200												2.349	
✓8	410			175	173												2.433	
✓9	411	707		150	150												2.436	
✓10	412	708		125	126												2.677	
✓11	413			100	101												3.079	
✓12	414			75	75												3.582	
✓13	415			50	50												4.827	
✓14	416	715		30	30												5.766	
✓15	417			20	20												6.707	
✓16	418			10	9												6.801	
✓17	419			0	2		✓										6.780	
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 750

Cast # down:

Cast # up:

Time LOC UTC

Begin: 1800

Bottom:

End:

START POSITION (GPS)

LAT: 49 56.30

LONG: 128 05.51

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

1998/07/21

STATION NAME:

LBP5

CAST NUMBER:

249

SHIP:

TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		NH ₄			
								OXY		CHL		C13		PH7		CHL		
1	420			1200 r	1280	✓	✓	✓	✓								382	535
2	421			1000		✓	✓	✓	✓								387	1382
3	422			800		✓	✓	✓	✓								598	337
4	423			600		✓	✓	✓	✓								900	598
5	424			500		✓	✓	✓	✓								1248	900
6	425	1045		400		✓		✓	✓								1552	1248
7	426			300		✓		✓	✓								2040	1552
8	427			250		✓		✓	✓								2307	2040
9	428			200		✓		✓	✓								2389	2307
10	429			175		✓		✓	✓								2414	2389
11	430			150		✓		✓	✓								2649	2414
12	431			125		✓		✓	✓								3019	2649
13	432	1106		100		✓		✓	✓									3019
14	433	1110		75		✓		✓	✓								3418	
15	434	1113		50		✓		✓	✓	✓						✓	4461	
16	435			30		✓		✓	✓	✓						✓	4819	
17	436			20		✓		✓	✓	✓						✓	5000	
18	437			10		✓		✓	✓	✓					✓	✓	6564	
19	438			0		✓		✓	✓	✓				✓	✓	✓	6560	
20																		
21		box 2.																
22																		
23																		
24																		

Comments:

ENTERED BY:

JC

CHECKED BY:

Bottom Depth:

1230

Cast # down:

249

Cast # up:

249

Time

LOC

UTC

Begin:

1922

Bottom:

1944

End:

2023

START POSITION (GPS)

LAT:

50 00.04

LONG:

127 59 97

BOTTOM POSITION (GPS)

LAT:

50 00.17

LONG:

128 00 11

END POSITION (GPS)

LAT:

50 00.43

LONG:

128 00 37

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

1998/07/21

STATION NAME:

LBP04

CAST NUMBER:

251

Nonstandard depth @ 900m.

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

ROSETTE OPERATION		Samples taken													
Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		NH4					
		OXY		CHL		C13		pH7							
1028	✓	✓	✓	✓										390	
	✓	✓	✓	✓										371	
	✓	✓	✓	✓										382	
	✓	✓	✓	✓										596	
	✓	✓	✓	✓										898	
	✓		✓	✓										1225	
	✓		✓	✓										1666	
	✓		✓	✓										2001	
	✓		✓	✓										2019	
	✓		✓	✓										2052	
	✓		✓	✓										2118	
	✓		✓	✓										2543	
	✓		✓	✓										2721	
	✓		✓	✓										3353	
	✓		✓	✓	✓									4596	
	✓		✓	✓	✓									4387	
	✓		✓	✓	✓									5397	
	✓		✓	✓	✓					✓				6819	
	✓		✓	✓	✓			✓						7105	

Comments:

SHIP: TULLY

ENTERED BY: JE

CHECKED BY:

Bottom Depth: 1036

Cast # down: 251

Cast # up: 251

Time	LOC	UTC
------	-----	-----

Begin: 2127

Bottom:

End:

START POSITION (GPS)

LAT: 50° 01.46'

LONG: 127° 58.16'

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 50° 01.96'

LONG: 127° 58.40'

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

1998/07/21

SHIP:

TULLY

STATION NAME:

LBP03

CAST NUMBER:

252

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	458	1157		150	152	✓		✓					.334/.338 check				2.056	poor
2	459	1158		125	125	✓											2.048	
3	460			100	100	✓											2.262	
4	461			75	75	✓											3.004	
5	462			50	49	✓											4.361	
6	463			30	30	✓											4.287	
7	464			20	20	✓											5.396	
8	465			10	11	✓											5.959	
9	466			0	2	✓		✓									6.003	
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 172

Cast # down: 252

Cast # up: 252

Time LOC UTC

Begin: 2300

Bottom:

End:

START POSITION (GPS)

LAT: 5003.20

LONG: 12755.32

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LBP2UTC DATE y/m/d: 98/07/22
CAST NUMBER: 254SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	467	1178		75	78	✓											2.489	
2	468			50	48	✓											4.108	
3	469			30	30	✓											4.677	
4	470			20	20	✓											4.883	
5	471			10	11	✓											5.422	
6	472			0	2	✓											6.203	
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:Bottom Depth: 88.

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		0001
Bottom:		
End:		

START POSITION (GPS)	
LAT:	50 04 08
LONG:	127 54.29

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	
LONG:	

Comments:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/22

STATION NAME:

LBP01

CAST NUMBER:

255

SHIP:

Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	473	1189		50	44												4202	
2	474			30	29												4.654	
3	475			20	20												5.206	
4	476			10	8												5.962	
5	477			0	2												5.995	
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: 50m

Cast # down:

Cast # up:

Time LOC UTC

Begin: 00:42

Bottom: —

End:

START POSITION (GPS)

LAT: 50°4.85N

LONG: 127°52.96W

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID:

9823

STATION NAME:

LMØ 2

UTC DATE y/m/d:

98/07/22

CAST NUMBER:

258

SHIP:

Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL	☒	NUT	ALK	TCO							
✓ 1	478	1193		bot	154												2.054	
✓ 2	479			125	124												1.993	
✓ 3	480			100	100												2.152	
✓ 4	481			75	75												2.532	
✓ 5	482			50	50												4.696	
✓ 6	483			30	29												5.489	
✓ 7	484			20	20												6.281	
✓ 8	485			10	10												6.880	
✓ 9	486			0	2												6.880	
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:

CHECKED BY:

Bottom Depth:

160

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0321

Bottom:

End:

START POSITION (GPS)

LAT: 50 09.04

LONG: 128 03 78

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LM03UTC DATE y/m/d: 98/07/22
CAST NUMBER: 259SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL	✓	NUT	ALK	TCO							
✓1	487	1204		601	1114		✓	✓									.494	
✓2	488			1000	1000		✓	✓									.484	
✓3	489			800	799		✓	✓									.422	
✓4	490			600	600		✓	✓									.627	
✓5	491			500	501		✓	✓									.873	
✓6	492			400	401			✓									1.161	
✓7	493			300	301			X										
✓8	494			250	250			X										
✓9	495			200	202			X										
✓10	496	1216		175	174			✓									2.247	
✓11	497	1217		150	150												2.354	
✓12	498			125	126												2.573	
✓13	499	84		100	100												2.905	
✓14	500			75	74												3.549	
✓15	501	255		50	50												5.624	
✓16	502			30	30												5.438	
✓17	503			20	21												6.813	
✓18	504			10	11												6.924	
✓19	505			0													6.878	
20																		
21																		
22																		
23																		
24																		

Comments:

no oxygen samples taken from bottles 7, 8, 9ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		0426
Bottom:		
End:		

START POSITION (GPS)	
LAT:	5005.30
LONG:	128 10 17

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	
LONG:	

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/7/22

STATION NAME:

LBP2

CAST NUMBER:

262

SHIP:

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	506			B-5	88			✓	✓								2488	
2	507			75	76			✓	✓								3408	
3	508			50	51			✓	✓								4860	
4	509			30	31			✓	✓				✓	2			4815	
5	510			30	31												///	
6	511			30	31												///	
7	512			30	31												///	
8	513	467		16	16			✓	✓	✓			✓	2			5.349	
9	514	486		10	10			✓	✓	✓			✓	2			6.205	
10	515			10	10												///	
11	516			8	8			✓	✓	✓			✓	2			6.304	
12	517			4	4			✓	✓	✓			✓	2			6.275	
13	518			4	4												///	
14	519			4	4												///	
15	520			4	4												///	
16	521			0	2			✓	✓	✓			✓	2			6.286	
17	522			0	2												///	
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 92

Cast # down:

Cast # up:

Time LOC UTC

Begin: 1200

Bottom:

End:

START POSITION (GPS)

LAT: 50 04.25

LONG: 127 54.39

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LL01

UTC DATE y/m/d: 98/7/22
CAST NUMBER: 263

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	523	535		B-5	64	✓			✓								3.642	
2	524			50	49	✓			✓								4.089	
3	525			30	30	✓			✓								4.292	
4	526			20	21	✓			✓								4.691	
5	527			10	11	✓			✓								6.826	
6	528			0	2	✓			X	no sample								
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 70

Cast # down:

Cast # up:

Time LOC UTC
Begin: 1334
Bottom:
End:

START POSITION (GPS)
LAT: 50 02.21
LONG: 127 39.46

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LL02

UTC DATE y/m/d: 98/07/22
CAST NUMBER: 264

SHIP: 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	529	8.5		125	125												1826	Feb 263
2	530	12.5		100	101												2038	
3	531	15.0		75	77												2239	
4	532	22.5		50	51												4.676	
5	533	25.0		30	29												3580	
6	534	657		20	20												4650	
7	535	20		10	9.9												7113	
8	536	10		0	1.6												7255	
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 130

Cast # down:
Cast # up:

Time LOC UTC
Begin: 1424
Bottom:
End:

START POSITION (GPS)
LAT: 4959.42
LONG: 127 44.02

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/22

STATION NAME:

LLO3

CAST NUMBER:

265

SHIP: TULLY

Niskin 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	537	707		bot	554			↑										.849	
✓2	538			500	497													.869	
✓3	539			400	397													1.095	
✓4	540			300	299													1.558	
✓5	541			250	251													1.863	
✓6	542			200	200													2.098	floor.
✓7	543			175	175													2.165	
✓8	544			150	149													2.394	
✓9	545			125	124													2.342	
✓10	546	730		100	102													2.586	
✓11	547	*VENT OPEN		75	75													3.101	
✓12	548			50	49													4.124	
✓13	549			30	30													3.974	
✓14	550			20	19													5.433	
✓15	551			10	9													5.358	
✓16	552			0	2			↓										5.473	
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

ENTERED BY:

CHECKED BY:

Bottom Depth: 557

Cast # down:

Cast # up:

Time LOC UTC

Begin: 1522

Bottom:

End:

START POSITION (GPS)

LAT: 4955.76

LONG: 12750.09

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

Bottle #11 vent was left open.

ROSETTE LOG

MISSION ID: 9833
STATION NAME: LL04

UTC DATE y/m/d: 98/07/22
CAST NUMBER: 266

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Trans- mission rate		
					Trip pressure	Confirmed Salinity	SAL	✓	NUT	ALK	TCO								
✓1	553	1062			1020													377	box 2.
✓2	554			800	803													314	
✓3	555			600	600													508	
✓4	556			500	502													796	
✓5	557			400	402													1148	
✓6	558			300	301													1568	
✓7	559			250	252													2083	
✓8	560	1113		200	202													2199	
✓9	561			175	175													2505	
✓10	562			150	150													2045	88.54
✓11	563			125	126													2259	88.64
✓12	564	1126		100	99													2641	89.35
✓13	565			75	73													3785	90.20
✓14	566			50	50													5007	box 3.
✓15	567			30	31													5289	
✓16	568			20	20													6328	
✓17	569			10	10													6663	
✓18	570	1136		0	0													6689	
19																			
20																			
21																			
22																			
23																			
24																			

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 1025

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		1640
Bottom:		
End:		

START POSITION (GPS)
LAT: 4952.07
LONG: 12756.40

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

49
52
07
127
56
40
30

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/22

STATION NAME:

LL05

CAST NUMBER:

267

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL	✓	NUT	ALK	TCO							
✓ 1	571				1754	✓											1.125	
✓ 2	572			1500	1501	✓											.732	
✓ 3	573			1200	1198	✓											.467	
4	574			1000		✓											.311	
5	575			800		✓											.266	
6	576			600		✓											.398	
7	577			500		✓											.588	
8	578			400		✓											1.017	
9	579			300		✓											1.609	
10	580			250		✓											1.929	
11	581			200		✓											2.202	
12	582			175		✓											2.297	
13	583			150		✓											2.535	
14	584			125		✓											2.678	
15	585			100		✓											3.027	
16	586			75		✓											4.380	
17	587			50		✓											4.912	
18	588			30		✓											6.165	
19	589			20		✓											6.636	
20	590			10		✓											6.993	
21	591			0	2	✓											7.003	
22																		
23																		
24																		

Comments:

ENTERED BY: SA/JE
CHECKED BY:

Bottom Depth: 1720

Cast # down: 267

Cast # up: 267

Time	LOC	UTC
Begin:		1813
Bottom:		1841
End:		1926

START POSITION (GPS)	
LAT:	49° 48.36'
LONG:	128° 02.73'

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	49° 49.35'
LONG:	128° 03.41'

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/23

STATION NAME:

LJØ8

CAST NUMBER:

269

SHIP:

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	592			8-10	1700												1.000	
2	593			1500	1500												.855	
3	594			1200	1200												.421	
4	595			1000	1000												.309	
5	596			800	800												.259	
6	597			600	602												.355	
7	598			500	502												.527	
8	599			400	400												.852	
9	600			300	300												1.251	
10	601			250	250												1.607	
11	602			200	203												1.993	Roar.
12	603			175	177												2.268	
13	604			150	152												2.541	
14	605			125	126												2.796	
15	606			100	100												3.366	
16	607			75	75												4.257	
17	608			50	50												5.359	
18	609			30	30												6.232	
19	610			20	20												6.216	
20	611			10	9.3												6.194	
21	612	1208		0	2.4												6.198	
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth:

1706

Cast # down:

Cast # up:

Time LOC UTC

Begin: 00:28

Bottom:

End: ?

START POSITION (GPS)

LAT: 49° 20.22N

LONG: 127° 40.93W

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/23

STATION NAME:

LJØ7

CAST NUMBER:

270

SHIP:

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	613	1209		B-10	1793										check	.990	.189	
✓2	614			1500	1498											.751		
✓3	615			1200	1200											447		
✓4	616			1000	999											.354		
✓5	617			800	801										check	.244	.051	
✓6	618			600	599											.396		
✓7	619			500	504											.543		
✓8	620			400	401											.1788		
✓9	621			300	300										.236	1.243	poor	
✓10	622			250	250											1.648		
✓11	623			200	199											2.045		
✓12	624			175	174											2.241		
✓13	625			150	154											2.442		
✓14	626			125	125											2.834		
✓15	627			100	99											3.397		
✓16	628			75	74											4.541		
✓17	629			50	47											5.457		
✓18	630			30	30											6.237		
✓19	631			20	22											6.187		
✓20	632			10	12											6.211		
✓21	633			0	1.9											6.107		
✓22																		
23																		
24																		

Comments:

ENTERED BY:

SA

CHECKED BY:

Bottom Depth:

1805

Cast # down:

270

Cast # up:

270

Time

LOC

UTC

Begin:

0232

Bottom:

End:

0340

START POSITION (GPS)

LAT:

49° 24' 18"

LONG:

127° 34' 80"

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

49° 24' 55"

LONG:

127° 35' 42"

ROSETTE LOG

MISSION ID:

STATION NAME:

UTC DATE y/m/d:

CAST NUMBER:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time

LOC

UTC

Begin:

0458

Bottom:

End:

0547

START POSITION (GPS)

LAT:

49° 31.68'

LONG:

127° 22' 45"

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

49° 32.06'

LONG:

127° 22 92'

[illegible]

Comments:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: L504UTC DATE y/m/d: 98/07/23
CAST NUMBER: 272SHIP: 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	652			bot	135												2.065	
✓2	653			125	125												2.093	
✓3	654			100	100												2.238	
✓4	655			75	72												3.858	
✓5	656			50	50												5.281	
✓6	657			30	29												5.949	
✓7	658			20	20												5.900	
✓8	659			10	10												6.980	
✓9	660			0	2												6.964	
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY: SA
CHECKED BY:Bottom Depth: 166Cast # down: 272Cast # up: 272

Time	LOC	UTC
Begin:		<u>0630</u>
Bottom:		
End:		<u>0648</u>

START POSITION (GPS)	
LAT:	<u>49° 35' 48"</u>
LONG:	<u>127° 16.79'</u>

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	<u>49° 35' 70"</u>
LONG:	<u>127° 17' 00'</u>

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

1998/07/23

STATION NAME:

LJ03

CAST NUMBER:

273

SHIP:

TULLY

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

ROSETTE OPERATION

Trip
pressure

Confirmed
Salinity

Samples taken

SAL

NUT

ALK

TCO

OXY

CHL

C13

1	661			80-5	120	✓		✓										2.104	floor
2	662			100		✓		✓										3.093	
3	663			75		✓		✓										3.775	
4	664			50		✓		✓										5.217	
5	665			30		✓		✓										5.764	
6	666			20		✓		✓										5.399	
7	667			10		✓		✓										6.599	
8	668			0		✓		✓										6.655	
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

ENTERED BY:

JE

CHECKED BY:

Bottom Depth:

128

Cast # down:

273

Cast # up:

273

Time

LOC

UTC

Begin:

Bottom:

0734

End:

0745

START POSITION (GPS)

LAT:

49° 39.28'

LONG:

127° 11.39'

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

49° 39.43'

LONG:

127° 11.43'

Comments:

ROSETTE LOG

MISSION ID:
STATION NAME:

9823

LJ02

UTC DATE y/m/d:
CAST NUMBER:

1998/07/23

274

SHIP: TULLY

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

ROSETTE OPERATION

Trip Confirmed
pressure Salinity

Samples taken

SAL NUT ALK TCO
OXY CHL C13

1	669			80-5	77	✓			✓									3550
2	670			50		✓			✓	too high	check	846	(5.211)					←
3	671			30		✓			✓									3980
4	672	1106		20		✓			✓									4395
5	673			10		✓			✓									5395
6	674			0		✓			✓									7323
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: JE

CHECKED BY:

Bottom Depth: 86

Cast # down: 274

Cast # up: 274

Time LOC UTC

Begin: 0832

Bottom:

End: 0840

START POSITION (GPS)

LAT: 49° 42.65'

LONG: 127° 05.40'

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49° 42.73

LONG: 127° 05.54

Comments:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

1997/07/23

STATION NAME:

L501

CAST NUMBER:

275

SHIP: TULLY

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

ROSETTE OPERATION

Trip Confirmed
pressure Salinity

Samples taken

SAL OXY NUT CHL ALK TCO C13

1	675	1114		Bo-5	57	✓			✓									4.122	
2	676			50		✓			✓					am bubble				4.586	nom
3	677			30		✓			✓					check OK				3.737	
4	678			20		✓			✓									4.988	
5	679			10		✓			✓									6.557	
6	680			0		✓			✓					check 1.152				7.212	
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Comments:

ENTERED BY: JE

CHECKED BY:

Bottom Depth: 63

Cast # down: 275

Cast # up: 275

Time LOC UTC

Begin: 0909

Bottom: 0912

End: 0918

START POSITION (GPS)

LAT: 49° 44.42'

LONG: 127° 02.79'

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49° 44.52

LONG: 127° 02.88

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/23

STATION NAME:

LG03

CAST NUMBER:

276

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
✓1	681	1180		bottom	111												1374	
✓2	682			100	100												1355	
✓3	683			75	75												2394	
✓4	684			50	50												4358	
✓5	685			30	29												4318	
✓6	686			30	30												4209	
✓7	687			20	19												5276	
✓8	688			15	15												6283	
✓9	689			15	14												6390	2 acid
✓10	690			10	9.9												6705	
✓11	691			5	6.0												6803	
✓12	692			5	5.9												6804	
✓13	693			0	2.3												6893	
✓14	694			0	2.2												6806	
✓15																		
✓16																		
✓17																		
✓18																		
✓19																		
✓20																		
✓21																		
✓22																		
✓23																		
✓24																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 123

Cast # down:

Cast # up:

Time LOC UTC

Begin: 1407

Bottom:

End:

START POSITION (GPS)

LAT: 4915.01

LONG: 12643.56

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/23

STATION NAME:

LG07

CAST NUMBER:

278

SHIP:

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	695			-	1759		✓											1.142		
✓2	696	1201		1500	1496		✓											.800		
✓3	697	1202		1200	1200		✓					.097	check					.622	pool.	
✓4	698			1000	1006		✓											.295		
✓5	699			800	805		✓											.282		
✓6	700	1206		600	600													.528		
✓7	701			500	504													.801		
✓8	702			400	401													1.194		
✓9	703	1210		300	302													1.608		
✓10	704			250	251													2.234		
✓11	705			200	200													2.605		
✓12	706	1213		175	176													3.008		
✓13	707			150	151													2.919		
✓14	708			125	124													3.710		
✓15	709	1217		100	100													5.080		
✓16	710			75	74													5.993	02 high	
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 1762

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0719

Bottom:

End:

START POSITION (GPS)

LAT: 4859.48

LONG: 127 07.32

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

51
44
41
15
25
39
40
54
21
28
26
35
45
46

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LG07 (H)UTC DATE y/m/d: 98/07/23
CAST NUMBER: 279SHIP: TULLYNiskin Sample OXY. OXY. Sample
No. No. Flask Temp. Depth

ROSETTE OPERATION

Trip Confirmed
pressure Salinity

Samples taken

SAL OXY NUT CHL ALK TCO C13

✓ 1	711				50			✓										6.587	
✓ 2	712				44			✓										6.832	
✓ 3	713				44			✓										6.863	
✓ 4	714				36			✓										6.417	
✓ 5	715				14			✓										6.097	
✓ 6	716				14			✓										6.106	
✓ 7	717				6			✓										6.096	
✓ 8	718				2			✓		.984	check							6.070	pour
✓ 9	729				2			✓										6.100	
✓ 10	720	not shaken enough			2			✓										6.097	
✓ 11	721				2			✓										6.097	
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Comments:

Bottles 2 and 10 were sampled before oxygens were taken

ENTERED BY: SA

CHECKED BY:

Bottom Depth: 1762Cast # down: 279Cast # up: 279

Time LOC UTC

Begin: 1845

Bottom:

End: 0658

START POSITION (GPS)

LAT: 48° 59.37LONG: 127° 07.18

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LG46UTC DATE y/m/d: 98/07/23
CAST NUMBER: 283SHIP: 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	722			Bot 5	1052												297	
2	723			800	798												293	pool
3	724			600	600												602	
4	725			500	499			↓									819	
5	726			400	399												1211	
6	727			300	300												1797	
7	728			250	248												2355	
8	729			200	200												2423	pool
9	730			175	175												2535	
10	731			150	148												3004	
11	732			125	123												3380	
12	733			100	100												4121	
13	734			75	72												5211	
14	735			50	49												6160	
15	736			30	30												6193	
16	737			20	19												6127	
17	738	1177		10	10												6076	
18	739			0	2.2			↓	↓								6161	
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 1006Cast # down: 283

Cast # up:

Time LOC UTC

Begin: 2312

Bottom:

End:

START POSITION (GPS)

LAT: 49 03.52LONG: 127 01.49

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

→ A heap of 1 type of "critter" found in bottle #17 (10m depth)

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/24

STATION NAME:

LG95

CAST NUMBER:

284

SHIP:

Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	740			8-10	256												1.927	
2	741			250	250												1.944	
3	742	1183		200	200												1.983	
4	743			175	174												2.018	
5	744			150	149												2.363	
6	745			125	124												2.605	
7	746			100	100												3.787	
8	747			75	74												5.175	
9	748			50	49												5.928	
10	749			30	30												5.821	
11	750			20	19												6.394	
12	751			10	10												7.292	
13	752			0	1.9												7.559	
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 280

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0126

Bottom:

End:

START POSITION (GPS)

LAT: 4907.46

LONG: 126 55.45

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/24

STATION NAME:

LG04

CAST NUMBER:

286

SHIP:

Tully

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

ROSETTE OPERATION		Samples taken													
Trip pressure	Confirmed Salinity	SAL	✓	NUT	✓	ALK		TCO	TOC	✓					
			OXY	✓	CHL	✓	C13		✓	Dec					
✓1	753													1.439	
✓2	754								✓	✓				1.439	
✓3	755													2.111	
✓4	756								✓	✓				3.690	
✓5	757								✓	✓				4.905	
✓6	758								✓	✓				5.869	
✓7	759								✓	✓				5.414	
✓8	760								✓	✓				7.490	
✓9	761								✓	✓				7.975	
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

ENTERED BY:

CHECKED BY:

Bottom Depth: 146

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0254

Bottom:

End:

START POSITION (GPS)

LAT: 4911.40

LONG: 12649.53

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LG63

UTC DATE y/m/d: 98/07/24
CAST NUMBER: 287

SHIP: Tully

ENTERED BY:

CHECKED BY:

Niskin 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	762				117				↑						1.475
✓ 2	763			100	100										1.570
✓ 3	764			75	77										3.264
✓ 4	765			50	50										4.943
✓ 5	766			30	30										4.324
✓ 6	767			20	20										5.156
✓ 7	768			10	10										6.946
✓ 8	769			0	2				↓						8.065
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Bottom Depth: 120

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		0349
Bottom:		
End:		

START POSITION (GPS)

LAT: 4915.03

LONG: 126 43.67

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

40
30
20
10
0
57

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LG02

UTC DATE y/m/d: 98/07/24
CAST NUMBER: 289

SHIP: Tully

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

ROSETTE OPERATION		Samples taken											
Trip pressure	Confirmed Salinity	SAL	✓	NUT	✓	ALK		TCO	✓				
			OXY	✓	CHL		C13		NH ₄				

ENTERED BY:
CHECKED BY:

Bottom Depth: 103

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0506
Bottom:		
End:		

START POSITION (GPS)
LAT: 4918.69
LONG: 12638.00

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

✓1	770	84.		bott-2	95				↑	↑								2358	
✓2	771			75	75													3225	
✓3	772			50	51					✓								3291	
→ ✓4	773	333		30	31					✓	wrong flask							4045	
✓5	774			20	20					✓								5085	pour
✓6	775			10	10					✓								6963	
✓7	776			0	2					✓								7077	
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Comments:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: LG01

UTC DATE y/m/d: 98/07/24
CAST NUMBER: 291

SHIP: Tully

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

ROSETTE OPERATION		Samples taken													
Trip pressure	Confirmed Salinity	SAL	✓	NUT		ALK		TCO	TOC	DIC	NH ₄				
			OXY		CHL		C13						Rep		

1	777	4/2			48			✓	✓	✓				✓	✓	3387
2	778				30			✓	✓	✓				✓	✓	4229
3	779				20			✓	✓	✓	✓			✓	✓	4882
4	780				10			✓	✓	✓	✓			✓	✓	6527
5	781				2						✓			✓	✓	6898
6																
7																
8																
9																
10																
11																
12																
13																
14																
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17																
18																
19																
20																
21																
22																
23																
24																

ENTERED BY:
CHECKED BY:

Bottom Depth: 56

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0612
Bottom:		
End:		

START POSITION (GPS)
LAT: 4920.51
LONG: 12634.88

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

1-4
25-32
33-36
43-49
40
43
47

ROSETTE LOG

MISSION ID: 9823
STATION NAME: B501UTC DATE y/m/d: 98/07/24
CAST NUMBER: 292SHIP: 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		CI3						
1	782				48												3.792	
2	783				48												3.729	
3	784				44												3.778	
4	785				44												3.788	
5	786				37												3.750	
6	787				37												3.748	
7	788				32												3.837	
8	789				32												3.819	
9	790				26												3.709	
10	791				26												3.689	
11	792				22												3.900	
12	793				22												3.894	
13	794				22												3.883	
14	795				16												3.852	
15	796				16												3.854	
16	797				16												3.864	
17	798				12												4.432	
18	799				12												4.378	
19	800				12												4.477	
20	801				5												5.048	
21	802				5												5.030	
22	803				5												5.002	
23	804				2												6.443	
24	805				2												6.496	

Comments:

ENTERED BY:
CHECKED BY:Bottom Depth: 57

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		1750
Bottom:		
End:		

START POSITION (GPS)	
LAT:	48 54.27
LONG:	125 23.64

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	
LONG:	

ROSETTE LOG

MISSION ID: 9823
STATION NAME: NBC1

UTC DATE y/m/d: 98/07/25
CAST NUMBER: 299

SHIP: 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	806			130	130												2.240	
✓2	807			125	124												2.135	
✓3	808			160	98												3.160	
✓4	809			75	74												3.988	
✓5	810			50	50												3.867	
✓6	811			30	31												4.604	
✓7	812			20	21												4.607	
✓8	813			10	10												5.774	
✓9	814			0	2.2												9.010	
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 138

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0131
Bottom:		
End:		

START POSITION (GPS)
LAT: 48 26.11
LONG: 125 50.19

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/25

STATION NAME:

NBC2

CAST NUMBER:

307

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL	✓	NUT	ALK	TCO							
✓1	815				164												02	
✓2	816				148												2.506	
✓3	817			125	125												2.565	
✓4	818			100	99												2.875	
✓5	819			75	75												3.204	←
✓6	820			50	49												4.067	
✓7	821			40	30												5.414	
✓8	822			20	19												5.628	
✓9	823			10	9												6.062	
✓10	824			0	2												6.526	
11																	7.949	
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: 0302

Bottom:

End:

START POSITION (GPS)

LAT: 4824.35

LONG: 12553.40

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

5-40543024

ROSETTE LOG

MISSION ID: 9823
STATION NAME: NBB 3

UTC DATE y/m/d: 98/07/25
CAST NUMBER: 321

SHIP: Tully

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

ROSETTE OPERATION		Samples taken											
Trip pressure	Confirmed Salinity	SAL	☒ OXY	NUT	☒ CHL	ALK	C13	TCO					

✓1	825				296												1.769	
✓2	826			250	249												1.842	
✓3	827			200	201												1.922	
✓4	828			175	175												2.133	
✓5	829			150	149												2.673	
✓6	830			125	124												2.965	
✓7	831			100	100												3.447	
✓8	832			75	75												5.011	
✓9	833			50	50												6.152	
✓10	834			30	31												5.975	
✓11	835			20	20												6.133	
✓12	836			10	11												6.518	
✓13	837			0	2												7.281	
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 298

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0527
Bottom:		
End:		

START POSITION (GPS)
LAT: 48 24.24
LONG: 125 58.12

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

55-
27
43
57

30
40
45

ROSETTE LOG

MISSION ID:

9823

STATION NAME:

NBC3

UTC DATE y/m/d:

97/07/25

CAST NUMBER:

325

SHIP:

TCTV

41

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL	✓	NUT	ALK	TCO							
1	838			Bo-5	552	✓ 5mAB											1.753	
2	839			500	499	✓											1.962	
3	840			400	400	✓											1.372	
4	841			300	300	✓											1.656	
5	842			250	250	✓											2.071	
6	843			200	200	✓											2.315	
7	844			175	175	✓											2.376	
8	845			150	151	✓											2.673	
9	846			125	125	✓											2.904	
10	847			100	100	✓											3.544	
11	848			75	75	✓											5.294	
12	849			50	50	✓											6.215	
13	850			30	30	✓											6.067	
14	851			20	19	✓												
15	852			10	10	✓											6.693	
16	853			0	2	✓											7.145	
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

#14 bottle did not close.

ENTERED BY:

RT

CHECKED BY:

Bottom Depth:

515

Cast # down:

325

Cast # up:

325

Time

LOC

UTC

Begin:

0620

Bottom:

End:

START POSITION (GPS)

LAT:

48° 22' 74"

LONG:

125° 56.01'

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

1998/07/25

STATION NAME:

NBD3

CAST NUMBER:

328

SHIP:

TULLY

Niskin 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	854			B-5	304	✓		-	-					1718	box 2.
2	855			250		✓		-	-					1850	
3	856			200		✓		-	-					2.022	
4	857			175		✓		-	-					2.076	
5	858			150		✓		-	-					2.750	
6	859			125		✓		-	-					2796	
7	860			100		✓		-	-					3.248	
8	861			75		✓		-	-					4.969	
9	862			50		✓		-	-					6.112	
10	863			30		✓		-	-					6.104	
11	864	1133		20		✓		-	-					6.387	
12	865	1134		10		✓		-	-					6.443	rain
13	866	1135		0		✓		-	-					7.200	
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

ENTERED BY:

JE

CHECKED BY:

Bottom Depth:

305

Cast # down:

328

Cast # up:

328

Time

LOC

UTC

Begin:

0744

Bottom:

0750

End:

0806

START POSITION (GPS)

LAT:

48° 20.59'

LONG:

125° 53.31'

BOTTOM POSITION (GPS)

LAT:

48° 20.53'

LONG:

125° 53.36'

END POSITION (GPS)

LAT:

48° 20.47'

LONG:

125° 53.37'

Comments:

ROSETTE LOG

MISSION ID: 9823
STATION NAME: NBC4

UTC DATE y/m/d: 1998/07/25
CAST NUMBER: 341

SHIP: 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	867			Bo-5	715												421	
✓2	868			600	599												587	
✓3	869			500	502												820	
✓4	870			400	400												1.297	
✓5	871			300	300												1751	
✓6	872			250	251												2.039	
✓7	873			200	200												2.866	
✓8	874			175	17.5												3.001	
✓9	875			150	150												2.809	
✓10	876			125	124												3.042	
✓11	877			100	100												3.503	
✓12	878			75	75												5.215	
✓13	879			50	50												6.129	
✓14	880			30	30												6.438	
✓15	881			20	20												6.335	
✓16	882			10	10												6.570	
17	883			0	216												6.564	
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: JM
CHECKED BY:

Bottom Depth: 720

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		12:00
Bottom:		1
End:		12:36

START POSITION (GPS)
LAT: 48° 21.21
LONG: 125° 58.83

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48° 21.25
LONG: 125° 58.47

Comments:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/25

SHIP:

TULLY

STATION NAME:

NBC5

CAST NUMBER:

370

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

ROSETTE OPERATION		Samples taken													
Trip pressure	Confirmed Salinity	SAL	✓	NUT		ALK		TCO							
			OXY		CHL		C13								
992	✓	✓											.307	boa 3	
	✓	✓											.305		
	✓	✓											.549		
	✓	✓											.784		
	✓	✓											1.248		
	✓	✓											2.012		
	✓	✓											2.307		
	✓												2.985		
	✓												2.900		
	✓												2.939		
	✓												3.327		
	✓												4.155	boa 4.	
	✓												5.920		
	✓												6.323		
	✓												6.542		
	✓												6.265		
	✓												6.078		
	✓												6.051		

ENTERED BY:

SA/jc

CHECKED BY:

Bottom Depth:

1012

Cast # down:

370

Cast # up:

370

Time

LOC

UTC

Begin:

Bottom:

1850

End:

1921

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 48 18 59

LONG: 126 03 35

END POSITION (GPS)

LAT: 48° 18 86

LONG: 126° 03 23

Comments:

ROSETTE LOG

MISSION ID:

9823

UTC DATE y/m/d:

98/07/26

SHIP:

Tully

STATION NAME:

C1

CAST NUMBER:

395

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	902			150	148												1.699	
2	903			125	125												1.779	
3	904			100	100												2.176	
4	905			75	75												2.512	
5	906			50	50												2.919	
6	907			30	29												4.184	
7	908			30	29												4.204	
8	909			20	20												5.683	poor
9	910			15	15												5.726	
10	911			15	14												5.730	
11	912			10	9												5.798	
12	913			10	9												5.787	
13	914			5	4.5												6.077	
14	915			0.5	4.2												6.114	
15	916			0	1.9												6.275	
16	917			0	1.9												6.233	
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

DJS

CHECKED BY:

Bottom Depth:

154

Cast # down:

Cast # up:

Time

LOC

UTC

Begin:

1156

Bottom:

End:

START POSITION (GPS)

LAT: 48 28.93

LONG: 125 03.64

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG: