

ROSETTE LOG

MISSION ID: 9935
STATION NAME: EFF13UTC DATE y/m/d: 99 09 22
CAST NUMBER: 1SHIP: 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			Bottom 5	95.7			✓										1.832	
2	2			100	95.7			✓										1.796	
3	3			75	75.9			✓										1.793	
4	4			50	50.8			✓										3.156	
5	5			30	30.1			✓										3.998	
6	6			20	19.5			✓										4.383	
7	7			10	10			✓										5.624	
8	8			0	0			✓										8.721	
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Comments:

ENTERED BY: SLove
CHECKED BY:Bottom Depth: 107

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		
End:	<u>0617</u>	

START POSITION (GPS)
LAT: <u>48 56.48</u>
LONG: <u>125 10.79</u>

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: EFF12

UTC DATE y/m/d: 99/09/02
CAST NUMBER: 2

SHIP: T-1-17

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	9			501-5	81.9			✓	✓											1.763
2	10			75	74.4			✓	✓											1.842
3	11			50	49.3				✓											3.126
4	12			30	29.7				✓											4.078
5	13			20	19.7				✓											4.357
6	14			10	9.7				✓											4.985
7	15			0	2.1				✓											7.307
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 95

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0647
Bottom:		
End:		

START POSITION (GPS)
LAT: 48 58.00
LONG: 125 10 52

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: EFF11

UTC DATE y/m/d: 99/09/22
CAST NUMBER: 3

SHIP: Tully

[illegible]

ENTERED BY:
CHECKED BY:

Bottom Depth: 87

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		0727
Bottom:		
End:	0729	0739

START POSITION (GPS)	
LAT:	48 59 10
LONG:	125 11 04

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: EFF10

UTC DATE y/m/d: 99/09/22
CAST NUMBER: 4

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	23			Bot-5	97	✓	✓	✓									1.743	
2	24			75		✓	✓	✓									1.849	
3	25			50		✓		✓									2.836	
4	26			30		✓		✓									3.947	
5	27			20		✓		✓									4.283	
6	28			10		✓		✓									4.609	
7	29			0		✓		✓									9.471	
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 97

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0800
Bottom:	48 0804	
End:	125 0812	

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 4859.86
LONG: 125 11.21

END POSITION (GPS)
LAT: 48 59 86
LONG: 125 11.22

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: EFO9

UTC DATE y/m/d: 99/09/22
CAST NUMBER: 5

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	30			60	52	✓		✓									3.024	
2	31			50		✓		1									3.109	
3	32			30		✓											3.905	
4	33			20		✓											4.185	
5	34			10		✓											6.564	
6	35	1134		0		✓		✓									9.753	
7																		
8																		
9																		
10																		
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20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 61

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0827
Bottom:		
End:		0835

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49 00.12
LONG: 125 10 83

Comments:

ROSETTE LOG

MISSION ID: 99-35
STATION NAME: EFF08UTC DATE y/m/d: 79/09/22
CAST NUMBER: 6SHIP: 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	36	1135		87	83	✓		✓	✓					1.794	
2	37			75		✓		✓	✓					1.771	
3	38			50		✓								2.789	
4	39			30		✓								3.931	
5	40			20		✓								4.162	
6	41			10		✓								4.718	
7	42			0		✓		✓						7.085	
8															
9															
10															
11															
12															
13															
14															
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16															
17															
18															
19															
20															
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22															
23															
24															

ENTERED BY: CHECKED BY: Bottom Depth: 87Cast # down: Cast # up:

Time	LOC	UTC
Begin:		0853
Bottom:		
End:		0905

START POSITION (GPS)	
LAT:	490069
LONG:	1251021

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	490069
LONG:	1251023

Comments:

ROSETTE LOG

MISSION ID: 99-35
STATION NAME: ERF07

UTC DATE y/m/d: 99/09/22
CAST NUMBER: 7.

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	43			115	114.	✓	✓	✓									1703	
2	44			100		✓	✓										1701	
3	45			75		✓											1821	
4	46			50		✓											2.895	
5	47			30		✓											4.024	
6	48			20		✓											4.160	
7	49	1171		10		✓											5529	
8	50			0	2.2	✓		✓									9.001	
9																		
10																		
11																		
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22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 120

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0927
Bottom:		0933
End:		0944

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49 01.26
LONG: 125 09.37

Comments:

ROSETTE LOG

MISSION ID: 79-35
STATION NAME: EFF06

UTC DATE y/m/d: 79/09/22
CAST NUMBER: 8

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	51			150	149	✓		✓									1793	
2	52			125		✓											1.755	
3	53			100		✓											1.816	
4	54			75		✓											1.880	
5	55			50		✓											2.778	
6	56	1190		30		✓											4.050	
7	57			20		✓											4.228	
8	58			10		✓											4.902	
9	59			0	21	✓		✓									7.929	
10																		
11																		
12																		
13																		
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18																		
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20																		
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22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 155

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		1006
End:		1018

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49 0180
LONG: 125 09.18

Comments:

ROSETTE LOG

MISSION ID: 99-35
STATION NAME: EFF05

UTC DATE y/m/d: 99/09/22
CAST NUMBER: 9

SHIP: _____

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	60			200	195	✓	✓	✓									1.517	
2	61			175		✓	✓										1.808	
3	62			150		✓	✓										1.800	
4	63			125		✓	✓										1.813	
5	64			100		✓	✓										1.855	
6	65			75		✓											1.867	
7	66			50		✓											2.771	
8	67			30		✓											4.229	
9	68			20		✓											4.289	
10	69			10		✓											6.273	
11	70			0		✓		✓									8.112	
12																		
13																		
14																		
15																		
16																		
17																		
18																		
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21																		
22																		
23																		
24																		

ENTERED BY: _____

CHECKED BY: _____

Bottom Depth: 206

Cast # down: _____

Cast # up: _____

Time	LOC	UTC
Begin:		1033
Bottom:		1038
End:		1055

START POSITION (GPS)
LAT: _____
LONG: _____

BOTTOM POSITION (GPS)
LAT: _____
LONG: _____

END POSITION (GPS)
LAT: 49 02.54
LONG: 125 09.15

Comments: _____

ROSETTE LOG

MISSION ID: 9935
STATION NAME: EFF01UTC DATE y/m/d: 99/09/22
CAST NUMBER: 11SHIP: 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	71			30	30	✓		✓									5.058		
2	72			20	19.9	✓		✓									5.541		
3	73			10	9.9	✓		✓									6.525		
4	74			0	2.3	✓		✓									7.850		
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
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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:	0418	1618
Bottom:	0423	1623
End:	0427	1627

START POSITION (GPS)
LAT:
LONG:BOTTOM POSITION (GPS)
LAT: 49 05.55
LONG: 125 11.68END POSITION (GPS)
LAT: 49 05.54
LONG: 125 11.69

ROSETTE LOG

MISSION ID: 9935
STATION NAME: EFF02UTC DATE y/m/d: 99/09/22
CAST NUMBER: 12SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	75			65	65.3	✓			✓								1.485	
2	76			50	49.9	✓			✓								1.326	
3	77			30	29.5	✓			✓								4.271	
4	78			20	19.8	✓			✓								5.135	
5	79			10	10.1	✓			✓								7.181	
6	80			0	2.1	✓			✓								7.562	
7																		
8																		
9																		
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17																		
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22																		
23																		
24																		

Comments: ENTERED BY: CHECKED BY: Bottom Depth: 70Cast # down: Cast # up:

Time LOC UTC

Begin: 1654Bottom: End: 1703

START POSITION (GPS)

LAT: 49 05.02LONG: 125 10.33

BOTTOM POSITION (GPS)

LAT: 49 05.00LONG: 125 10.32

END POSITION (GPS)

LAT: 49 05.00LONG: 125 10.31

ROSETTE LOG

MISSION ID: 9935
STATION NAME: EFF03

UTC DATE y/m/d: 99/09/22
CAST NUMBER: 13

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	81			117	117.8	✓		✓										0.571	
2	82			100	100.1	✓		✓										0.553	
3	83			75	74.7	✓		✓										1.625	
4	84			50	49.8	✓		✓										2.303	
5	85			30	29.8	✓		✓										4.413	
6	86			20	19.7	✓		✓										4.856	
7	87			10	9.8	✓		✓										5.754	
8	88			0	1.9	✓		✓										7.086	
9																			
10																			
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22																			
23																			
24																			

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 122

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:	1722	
Bottom:	1726	
End:	1732	

START POSITION (GPS)
LAT: 49 04.28
LONG: 125 09.50

BOTTOM POSITION (GPS)	
LAT:	49 04.26
LONG:	125 09.51

END POSITION (GPS)
LAT: 49 04.26
LONG: 125 09.47

Comments:

ROSETTE LOG

MISSION ID:

9935

UTC DATE y/m/d:

99/09/22

STATION NAME:

EFF04

CAST NUMBER:

14

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	89			50	50.4	✓		✓									3.233	
2	90			30	29.2	✓		✓									4.204	
3	91			20	20.0	✓		✓									4.354	
4	92			10	10.4	✓		✓									4.508	
5	93			0	2.0	✓		✓									8.429	
6																		
7																		
8																		
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24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth:

55 m

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0554

Bottom: 0555

End: 0559

START POSITION (GPS)

LAT: 49 03.08

LONG: 125 08.48

BOTTOM POSITION (GPS)

LAT: 49 03.08

LONG: 125 08.50

END POSITION (GPS)

LAT: 49 03.06

LONG: 125 08.60

ROSETTE LOG

MISSION ID: 9935
STATION NAME: PAI

UTC DATE y/m/d: 99/09/23
CAST NUMBER: 15

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	94				14.6			✓											2074	
2	95			10	10.0			✓											2133	
3	96			5	5.3			✓											5356	
4	97			0	0			✓											6229	
5																				
6																				
7																				
8																				
9																				
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ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0639
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: 40

UTC DATE y/m/d: 99 09 23
CAST NUMBER: 16

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	99			Bot near	55	✓		✓										1840		
2	100			50		✓		✓										1877		
3	101			40		✓		✓										1767		
4	102			30		✓		✓										1914		
5	103			25		✓		✓										2533		
6	104			20		✓		✓										2532		
7	105			15		✓		✓										2669		
8	106			10		✓		✓										2983		
9	107			5		✓		✓										5357		
10	108			0		✓		✓										5612		
11																				
12																				
13																				
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24																				

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 58

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0715
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 99-35
STATION NAME: A1

UTC DATE y/m/d: 99/09/23
CAST NUMBER: 17

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	109			8-5	107	✓		✓	✓											2.093	
2	110			100		✓		✓												1.967	
3	111			75		✓														2.184	
4	112	650		50		✓														2.314	
5	113			40		✓														2.497	
6	114			30		✓														2.969	
7	115			25		✓														3.237	
8	116			20		✓														3.369	
9	117			15		✓														3.331	
10	118			10		✓														3.477	Poor
11	119			5		✓														5.760	
12	120			0	2.1	✓		✓												6.336	
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					
21																					
22																					
23																					
24																					

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 112

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		0751
Bottom:		
End:		

START POSITION (GPS)	
LAT:	
LONG:	

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 99-35
STATION NAME: PA13

UTC DATE y/m/d: 99/09/23
CAST NUMBER: 18

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	121			125	133	✓		✓	✓										1.997	
2	122	1110		100	125	✓		✓											2.064	
3	123	1126		75	100	✓													2.116	
4	124	1128		50	75	✓													2.355	
5	125			30	50	✓													2.698	
6	126			20	30	✓													3.141	
7	127			10	20	✓													3.406	
8	128			0	10	✓													4.141	
9	129				0	✓	2.2		✓										6.246	
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 134

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0832
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 99-35
STATION NAME: A4UTC DATE y/m/d: 99/09/23
CAST NUMBER: 19SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	130	1138		290	237	✓			✓								1.946	
2	131			250	200	✓											1.936	
3	132			200	175	✓											1.927	
4	133			175	150	✓											2.168	
5	134			150	125	✓											1.984	
6	135			125	100	✓											2.067	
7	136			100	75	✓											2.480	
8	137			75	50	✓											3.111	
9	138			50	30	✓											3.929	
10	139			30	20	✓											4.073	
11	140			20	10	✓											4.947	
12	141			10	0	✓	2.2		✓								7.014	
13	142			0														
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:
CHECKED BY:Bottom Depth: 292Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0930
Bottom:		
End:		1000

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

Oxygen samples not shaken
enough, precipitate difficult to
dissolve

ROSETTE LOG

MISSION ID:

99-35

UTC DATE y/m/d:

99/09/23

STATION NAME:

A5

CAST NUMBER:

20

SHIP:

TOLUY

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	142			356	351	✓	✓	✓									1.906	
2	143			300		✓	✓										1.935	
3	144			250		✓	✓										1.933	
4	145			200		✓	✓										1.943	
5	146			175		✓											1.956	
6	147			150		✓											2.022	
7	148			125		✓											1.978	
8	149			100		✓											2.007	
9	150			75		✓											2.395	
10	151			50		✓											3.161	
11	152			30		✓											3.791	
12	153			20		✓											4.163	
13	154			10		✓											4.687	
14	155			0	2.1	✓	✓										6.099	
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 354

Cast # down:

Cast # up:

Time LOC UTC

Begin: 1028

Bottom: 1035

End: 1053

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 4859.55

LONG: 12453.56

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 99-35
STATION NAME: 4001

UTC DATE y/m/d: 99/09/23
CAST NUMBER: 21

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	156			30	30.4	✓		✓	✓	✓								3642	
2	157			20	21.3	✓		✓	✓	✓								5140	
3	158			10	10.7	✓		✓	✓	✓								2224	
4	159			0	3.1	✓		✓	✓	✓								2336	
5																			
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: 34

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0951
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 99-35
STATION NAME: LD02

UTC DATE y/m/d: 99/09/23
CAST NUMBER: 22

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	160			42	38.1				✓	✓	✓								2.987	
2	161			30	29.7				✓	✓	✓								3.511	
3	162			20	14.7				✓	✓	✓								4.198	
4	163			10	9.6				✓	✓	✓								6.746	
5	164			0	2.6				✓	✓	✓								7.080	
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: 40.

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		22:33
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: L004UTC DATE y/m/d: 99/09/24
CAST NUMBER: 025SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken														
					Trip pressure	Confirmed Salinity	SAL	OXY	NUT	CHL	ALK	C13	TCO								
1	165			55	55.1	✓	55.2		✓											2836	
2	166			50	49.9	✓	49.6		✓	✓	✓									3000	
3	167			30	29.5	✓	27.1		✓	✓	✓									3.475	
4	168			20	20.3	✓	21.0		✓	✓	✓									3.777	
5	169			10	9.9	✓	9.6		✓	✓	✓									4.085	poor.
6	170			0	1.8	✓	2.0		✓	✓	✓									6.535	
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					
21																					
22																					
23																					
24																					

Comments: Sample #169 had to be heated to remove stopper.ENTERED BY:
CHECKED BY:Bottom Depth: 59

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0040

Bottom:

End: 0051

START POSITION (GPS)

LAT: 48° 53.23'LONG: 125° 56.95'

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48° 53.19'LONG: 125° 56.86'

ROSETTE LOG

MISSION ID: 9935
STATION NAME: LD06UTC DATE y/m/d: 99/09/24
CAST NUMBER: 28SHIP: 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	171							✓									058	
2	172			125				✓									818	
3	173			100	100			✓									2408	
4	174			75	75			✓									4516	
5	175			50	51.7			✓									5629	
6	176			30	30			✓									5697	
7	177			20	20.6			✓									5856	
8	178			10	9.9			✓									5276	
9	179			0	0			✓									5695	
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:
CHECKED BY:Bottom Depth: 134Cast # down:
Cast # up:

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: 9935
STATION NAME: LD 08UTC DATE y/m/d: 99 09 24
CAST NUMBER: 30SHIP: 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	180			21-5	782		✓	✓	✓								281	
2	181			600	600		✓										379	
3	182			500	500												799	
4	183			400	399												1082	
5	184			300	300		✓										1594	
6	185			250	252												1669	
7	186			200	200												1655	
8	187			175	175												1914	
9	188			150	150												2343	
10	189			125	124												2652	
11	190			100	99.7												2946	
12	191			75	75.7												3823	
13	192			50	50.8												6.183 ← ?	
14	193			30	30.6												4371	
15	194			20	20.6												6.304	
16	195			10	9.6												6.456	
17	196			0	2.4												6.963	
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY: JL 000
CHECKED BY:Bottom Depth: 785Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0543
Bottom:		
End:		0632

START POSITION (GPS)
LAT: 48 39 19
LONG: 126 23 58BOTTOM POSITION (GPS)
LAT:
LONG:END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: LD10UTC DATE y/m/d: 99/09/24
CAST NUMBER: 32SHIP:

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	197			1475	1482	✓	✓	✓	✓								.744	
2	198			1200		✓	✓										.374	
3	199			1000		✓	✓										.328	
4	200			800		✓	✓										.241	
5	201			600		✓	✓										.385	
6	202			500		✓	✓										.664	
7	203			400		✓											1.079	
8	204			300		✓											1.630	
9	205			250		✓											1.839	
10	206			200		✓											1.860	
11	207			175		✓											2.015	
12	208			150		✓											2.318	
13	209			125		✓											2.659	
14	210			100	999	✓											3.357	
15	211			75	77.0	✓											5.702	
16	212			50	49.9	✓				✓							6.127	
17	213			30	298	✓				✓							5.520	
18	214			20	202	✓				✓							5.848	
19	215			10	11.1	✓				✓							6.876	
20	216			0	2.6	✓		✓	✓	✓							6.857	
21																		
22																		
23																		
24																		

Comments: ENTERED BY: CHECKED BY: Bottom Depth: 1469Cast # down: Cast # up:

Time	LOC	UTC
Begin:		0856
Bottom:		0924
End:		1011

START POSITION (GPS)	
LAT:	
LONG:	

BOTTOM POSITION (GPS)	
LAT: 48	32.17
LONG: 126	36.80

END POSITION (GPS)	
LAT: 48	32.17
LONG: 126	30.07

ROSETTE LOG

MISSION ID: 9935
STATION NAME: MUC1UTC DATE y/m/d: 99/09/25
CAST NUMBER: 34SHIP: 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	217			119	119.3	✓		✓									2.089	
2	218			100	100.0	✓		✓									1.737	
3	219			75	74.9	✓		✓									.584	
4	220			50	49.9	✓		✓									1.318	
5	221			30	29.8	✓		✓									3.851	
6	222			20	19.9	✓		✓									4.803	
7	223			10	9.8	✓		✓									7.088	
8	224			0	1.9	✓		✓									7.562	
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:
CHECKED BY:Bottom Depth: 124Cast # down:
Cast # up:Time LOC UTC
Begin: 0219
Bottom:
End: 0231START POSITION (GPS)
LAT: 49°37.51'
LONG: 126°03.56'BOTTOM POSITION (GPS)
LAT:
LONG:END POSITION (GPS)
LAT: 49°37.56'
LONG: 126°03.61'

ROSETTE LOG

MISSION ID: 9935
STATION NAME: MSKMUTC DATE y/m/d: 99/09/25
CAST NUMBER: 35SHIP: 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	225			166	163			✓									2148	
2	226			150	150.4		✓	✓									2452	
3	227			125	125			✓									2199	
4	228			100	100		✓	✓									1521	
5	229			75	74.8			✓									1063	
6	230			50	50			✓									1054	
7	231			30	30.2			✓									3413	
8	232			20	20			✓									4230	
9	233			10	10			✓									6285	
10	234			0	0			✓									7274	
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY: Score
CHECKED BY:Bottom Depth: 166Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0308
Bottom:		
End:		

START POSITION (GPS)
LAT: 49 39 03
LONG: 126 05 60BOTTOM POSITION (GPS)
LAT:
LONG:END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: MVC2UTC DATE y/m/d: 99 09 25
CAST NUMBER: 36SHIP: 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	235			Botl - 5	362		✓						1.997
2	236			300	300		✓						2.355
3	237			250	250		✓						2.406
4	238			200	199.5		✓	✓					1.867
5	239			175	174.4		✓						1.668
6	240			150	150		✓						2.507
7	241			125	125		✓						2.508
8	242			100	100		✓	✓					2.026
9	243			75	74.6		✓						1.772
10	244			50	49.6		✓						1.114
11	245			30	30.6		✓						3.416
12	246			20	19.8		✓						4.636
13	247			10	10.2		✓						5.095
14	248			0	0		✓						6.769
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													

ENTERED BY: J Love
CHECKED BY:Bottom Depth: 366Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0403
Bottom:		
End:		0428

START POSITION (GPS)
LAT: 49 40 20
LONG: 126 09 50BOTTOM POSITION (GPS)
LAT:
LONG:END POSITION (GPS)
LAT: 49 40 11
LONG: 126 09 61

Comments:

ROSETTE LOG

MISSION ID: 9835
STATION NAME: CS1B

UTC DATE y/m/d: 99 09 25
CAST NUMBER: 37

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	249			Bottom	65			✓									3726	
2	250			50	50			✓									4067	
3	251			30	30			✓									5356	
4	252			20	20			✓									5325	
5	253			10	10			✓									5288	
6	254			0	0			✓									5328	
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 69

Cast # down:
Cast # up:

Time 100 UTC
Begin: 1022
Bottom:
End: 1028

START POSITION (GPS)
LAT: 50 52.89
LONG: 128 40.16

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 50 52 81
LONG: 128 40 26

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: CSØ7UTC DATE y/m/d: 99/09/06
CAST NUMBER: 42SHIP: 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		Phy				
1	255			201-5	59.7	✓		✓	✓								3.249	
2	256			50	50.5	✓		✓	✓	✓							3.271	
3	257			30	28.9	✓		✓	✓	✓							4.651	
4	258			20	18.9	✓		✓	✓	✓							5.192	
5	259			10	9.9	✓		✓	✓	✓							5.345	
6	260			0	2.7	✓		✓	✓	✓				✓			4.970	
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:Bottom Depth: 65

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:	<u>0227</u>	
Bottom:		
End:	<u>0235</u>	

START POSITION (GPS)
LAT: <u>51°04.53'</u>
LONG: <u>128°44.06</u>

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: <u>51°04.54'</u>
LONG: <u>128°44.15'</u>

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: CS45

UTC DATE y/m/d: 99/09/26
CAST NUMBER: 47

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	261			56.7	56.7			✓									3.451	
2	262			50	49.2			✓									3.730	
3	263			30	30			✓									4.882	
4	264			20	20.2			✓									5.570	
5	265			10	10			✓									5.946	
6	266			0	0			✓					1.068				5.900	check
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 59 m

Cast # down: 45
Cast # up: 45

Time	LOC	UTC
Begin:		0520
Bottom:		
End:		0536

START POSITION (GPS)
LAT: 50 56 08
LONG: 129 00 04

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

BONGO TO BOTTOM #

ROSETTE LOG

MISSION ID: 9935
STATION NAME: CS3B

UTC DATE y/m/d: 99/09/26
CAST NUMBER: 49

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	267			Bot-5	210	✓	✓	✓	✓								1670	
2	268			200		✓	✓	✓	✓								1678	
3	269			175		✓		✓	✓								1733	
4	270			150		✓		✓	✓								2005	
5	271			125		✓		✓	✓								2203	
6	272			100	100.7	✓		✓	✓								3010	
7	273			75	762	✓		✓	✓								3456	
8	274			50	506	✓		✓	✓	✓							4399	
9	275			30	290	✓		✓	✓	✓							5745	
10	276			20	193	✓		✓	✓	✓							6260	
11	277			10	105	✓		✓	✓	✓							6229	
12	278			0	3.1	✓		✓	✓	✓				✓			6221	
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 216

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0816
Bottom:		0821
End:		0838

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 5100.10
LONG: 12726.93

Comments:

ROSETTE LOG

MISSION ID: 99-35
STATION NAME: JI22UTC DATE y/m/d: 99/09/26
CAST NUMBER: 055SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	279			500	501.5	✓		✓									438	
2	280			400	399.9	✓											1380	
3	281			300	300.4	✓											1372	
4	282			250	250.1	✓											1886	
5	283			200	199.8	✓											1854	
6	284			175	174.9	✓											2725	
7	285			150	149.9	✓											2072	
8	286			125	125.0	✓											3031	
9	287			100	99.1	✓											5240	
10	288			75	75.1	✓											6395	
11	289			50	49.9	✓											6156	
12	290			30	30.2	✓											6176	
13	291			20	20.1	✓											6151	
14	292			10	10.8	✓											6177	
15	293			0	1.6	✓		✓									6159	
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:Bottom Depth: 1498Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	<u>1335</u>	
Bottom:	<u>1345</u>	
End:	<u>1403</u>	

START POSITION (GPS)	
LAT:	<u>50°39.53'</u>
LONG:	<u>129°16.95'</u>

BOTTOM POSITION (GPS)	
LAT:	<u>50°39.53'</u>
LONG:	<u>129°16.72'</u>

END POSITION (GPS)	
LAT:	<u>50°39.45'</u>
LONG:	<u>129°16.62'</u>

Comments:

ROSETTE LOG

MISSION ID:

9935

UTC DATE y/m/d:

99/09/26

STATION NAME:

CS3

CAST NUMBER:

58

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
1	294			229.7	229.7	✓		✓										1.689	
2	295			200	199.9	✓		✓										1.703	
3	296			175	174.7	✓		✓										1.729	
4	297			150	150.5	✓		✓										1.827	
5	298			125	124.8	✓		✓										2.600	
6	299			100	99.7	✓		✓										3.486	
7	300			75	75.3	✓		✓										6.337	
8	301			50	50.0	✓		✓										6.023	
9	302			30	29.9	✓		✓										6.151	
10	303			20	19.7	✓		✓										6.012	
11	304			10	10.0	✓		✓										5.964	
12	305			0	2.0	✓		✓										5.971	
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth:

225

Cast # down:

Cast # up:

Time ~~LOC~~ UTC

Begin: 1541

Bottom: 0346 1546

End: 1558

START POSITION (GPS)

LAT: 50 45.62

LONG: 129 20.01

BOTTOM POSITION (GPS)

LAT: 5046.66

LONG: 129 20.08

END POSITION (GPS)

LAT: 50° 45.72'

LONG: 129° 20.15'

ROSETTE LOG

MISSION ID: 9935
STATION NAME: LQ03

UTC DATE y/m/d: 99 09 26
CAST NUMBER: 63

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		ph						
1	294			500	501		✓	✓	✓										767	
2	295			400	399			✓	✓										1120	
3	296			300	299		✓	✓	✓										1.428	
4	297			250	250			✓	✓										2.002	
5	298			200	200			✓	✓										2.070	
6	299			175	175			✓	✓										2.063	
7	300			150	150			✓	✓										2.234	
8	301			125	125			✓	✓										2.991	
9	302			100	98	98.7		✓	✓										2.790	
10	303			75	73.8	73.6		✓	✓										4.085	
11	304			50	50.3	50.2		✓	✓	✓		✓		✓					5.746	
12	305			48	48.1	48.2		✓	✓	✓		✓							5.836	
13	306			45	44.7	44.8		✓	✓	✓		✓							6.023	
14	307			35	35.4	35.2		✓	✓	✓		✓							6.281	
15	308			25	25.3	25.2		✓	✓	✓		✓							6.192	25.0
16	309			10	9.7	9.9		✓											6.053	
17	310			0	0	3.1		✓	✓	✓		✓		✓					6.247	
18																				
19																				
20																				
21																				
22																				
23																				
24																				

ENTERED BY: TL
CHECKED BY:

Bottom Depth: 430

Cast # down:
Cast # up: 500

Time	LOC	UTC
Begin:		19 58
Bottom:		20:09
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 50 40 05
LONG: 129 00 14

END POSITION (GPS)
LAT: 50 40 20
LONG: 129 00 99

flushed oxygen lines prior to analysis of this cast.

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: CPE 2

UTC DATE y/m/d: 99 09 26
CAST NUMBER: 66

SHIP: TULLY

on file
63

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		PH				
1	311			121	121	122.1		/	/								*	1842
2	312			100	101	102.9		/	/								2.673	
3	313			100	101	102.3		/	/								2.567	
4	314			75	75.4	75.5		/	/								3.736	
5	315			50	50.3	50.5		/	/	/							4.263	
6	316			30	28.9	28.7		/	/	/							5.051	
7	317			20	20.4	20.2		/	/	/							5.363	
8	318			10	9.1	9.3		/	/	/							6.227	
9	319			0	0	3.0		/	/	/							6.325	
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: SC
CHECKED BY:

Bottom Depth: 122

Cast # down: 66
Cast # up: 66

Time	LOC	UTC
Begin:		22 31
Bottom:		
End:		22 43

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 50 42 89
LONG: 128 40 30

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: BP1

UTC DATE y/m/d: 99/09/27
CAST NUMBER: 69

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	320			30	56	✓		✓									2.318	
2	321			20	51	✓		✓									2.404	
3	322	333.		10	30	✓		✓									Blank taken	
4	323			0	9.7	✓		✓									5.558	
5	324				3.6	✓											5.942	
6	325																	
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 50.

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0719
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 99-35
STATION NAME: LBP2UTC DATE y/m/d: 99/09/27
CAST NUMBER: 20SHIP:

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	325			100	93.5	✓		✓	✓								2.135	
2	326			75	74.9	✓											2.500	
3	327			50	51.0	✓							✓				3.037	
4	328			40	40.7	✓					✓		✓				3.619	
5	329			30	29.5	✓											4.369	
6	330			25	25.1	✓				✓	✓						4.472	
7	331			20	20.6	✓											5.202	
8	332			15	14.8	✓				✓	✓						5.363	
9	333			10	9.9	✓											5.546	
10	334			5	5.4	✓			✓	✓		✓					5.931	
11	335			2	3.3	✓		✓	✓	✓	✓						5.975	
12	336			0	2.2	✓		✓	✓	✓	✓		✓				5.958	
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: ENTERED BY:
CHECKED BY: Bottom Depth: 105Cast # down: Cast # up:

Time	LOC	UTC
Begin:		0751
Bottom:		
End:		0805

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

ROSETTE LOG

MISSION ID: 99-35
STATION NAME: LBPS

UTC DATE y/m/d: 99/09/27
CAST NUMBER: 75

SHIP:

[illegible]

ENTERED BY: *Sm*

CHECKED BY:

Bottom Depth: 1280

Cast # down:

Cast # up:

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

Begin:

Bottom: 1122

End:

START POSITION (GPS)

LAT: _____

LONG:

BOTTOM POSITION (GPS)

LAT: 49 59.97

LONG: 128 00.35

END POSITION (GPS)

LAT:

LONG:

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: LB07UTC DATE y/m/d: 99/09/27
CAST NUMBER: 78SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										SAL	CTD
					Trip pressure	Confirmed Salinity	SAL	OXY	NUT	CHL	ALK	TCO	pH					
1	357			2000	2000		✓	✓	✓									1603
2	358			1500	1498		✓	✓									34.4880	742
3	359			1200	1199		✓	✓									34.4190	395
4	360			1000	999		✓	✓									34.3595	282
5	361			800	800		✓	✓									34.2625	299
6	362			600	599		✓	✓									34.1446	498
7	363			500	500		✓	✓									34.0860	705
8	364			400	400		✓	✓									34.0100	1142
9	365			300	302		✓	✓									33.9797	1480
10	366			250	249			✓										1786
11	367			200	200			✓										2009
12	368			175	175			✓										2171
13	369			150	150	150.0		✓										2919
14	370			125	125	124.9		✓										3200
15	371			100	100	99.9		✓	✓									3262
16	372			75	74.8	74.6		✓	✓									3800
17	373			40	40.1	40.0		✓	✓	✓	✓	✓	✓					3926
18	374			25	25	25.3		✓	✓	✓	✓	✓	✓					4066
19	375			15	15	14.9		✓	✓	✓	✓	✓	✓					4837
20	376			5	5	5.1		✓	✓	✓	✓	✓	✓					6609
21	377	1273	upcore flask	2	2	3.9		✓	✓	✓	✓	✓	✓					6771
22	378			0	0	2.4		✓	✓	✓	✓	✓	✓					6577
23																		
24																		

Comments:

Stop @ 2000 m

Note modified depth from 75-0 are
for UBC light extinction values.ENTERED BY: SL
CHECKED BY:Bottom Depth: 2200Cast # down: 78Cast # up: 78

Time	LOC	UTC
Begin:		19:44
Bottom:		
End:		21:18

START POSITION (GPS)		
LAT:	49	52 50
LONG:	128	11 08

BOTTOM POSITION (GPS)		
LAT:		
LONG:		

END POSITION (GPS)		
LAT:	49	52 35
LONG:	128	09 90

ROSETTE LOG

MISSION ID: 9935
STATION NAME: LJ09

UTC DATE y/m/d: 99/09/28
CAST NUMBER: 80

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	379			2500	2501.9	✓	✓											
2	380			2000	2000.1	✓	✓											
3	381			1500	1498.2	✓	✓											
4																		
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: 2478

drifted into deep 2500+

Cast # down:
Cast # up:

Time LOC UTC
Begin: 0140
Bottom: 0229
End:

START POSITION (GPS)
LAT: 49 16.17
LONG: 127 47.44

BOTTOM POSITION (GPS)
LAT: 49 16.39
LONG: 127 47.24

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: L308

UTC DATE y/m/d: 99-09-28
CAST NUMBER: 81

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										PRIM	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13		photo			SAL/CTD	
1	382			1500	1500		✓	✓	✓								34.4960	787
2	383			1200	1197.3		✓	✓									34.420	0.376
3	384			1000	1006		✓	✓									34.3623	0.265
4	385			800	806		✓	✓									34.2786	0.284
5	386			600	604		✓	✓					.087	pow2			34.1310	0.439
6	387			500	500		✓	✓									34.104	
7	388			400	398		✓	✓									33.9796	1.292
8	389			300	299.8		✓	✓									33.916	1.992
9	390			250	250			✓										2.424
10	391			200	200			✓										2.756
11	392			175	174.6			✓										2.947
12	393			150	150			✓										3.311
13	394			125	124.6			✓										3.879
14	395			100	100			✓										4.049
15	396			75	74.6			✓										5.132
16	397			50	50			✓		✓								6.063
17	398			30	30			✓		✓								6.185
18	399			20	20			✓		✓								6.354
19	400			10	10			✓		✓								5.527
20	401			0				✓	✓	✓				✓				6.425
21																		
22																		
23																		
24																		

Comments:

ENTERED BY: JL
CHECKED BY:

Bottom Depth: 1676

Cast # down: 81
Cast # up: 81

Time	LOC	UTC
Begin:		0348
Bottom:		
End:		0504

START POSITION (GPS)
LAT: 49 20 26
LONG: 127 40 81

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49 20 92
LONG: 127 41 21

ROSETTE LOG

MISSION ID: 9935
STATION NAME: L506

UTC DATE y/m/d: 99 09 28
CAST NUMBER: 84

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	402			1099	1099	✓	/	✓									.350	
2	403	1110		800	1000	✓	/	✓									.240	
3	404			600	800	✓	/	✓									.283	
4	405			500	600	✓	/	✓									.468	
5	406			400	500	✓		✓									.713	
6	407			300	400	✓		✓									1.005	
7	408			250	300	✓		✓									1.636	
8	409			200	250	✓		✓									1.958	
9	410			175	200	✓		✓									2.343	
10	411			150	175	✓		✓									3.187	
11	412			125	150	✓		✓									3.284	
12	413			100	125	✓		✓									3.347	
13	414			75	100	✓		✓	✓								3.673	
14	415			50	75	✓		✓	✓								6.081	
15	416			30	50	✓		✓	✓	✓							6.632	
16	417			20	30	✓		✓	✓	✓							6.155	
17	418			10	20	✓		✓	✓	✓							6.383	
18	419			0	10	✓		✓	✓	✓							6.515	
19	420			0	0	✓	2.7	✓	✓	✓							6.652	
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 1010

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0806
Bottom:		0826
End:		0902

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49 28 00
LONG: 127 27 87

391 575
1

ROSETTE LOG

MISSION ID: 9935
STATION NAME: LG Ø1

UTC DATE y/m/d: 99 09 28
CAST NUMBER: 88

SHIP: JULY

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	421			Bot-5	54.2			✓	/	/							3.242	
2	422	1244		50	50		x	✓	/	✓							3.216	
3	423			30	30			✓	/	/							3.259	
4	424			20	20.4			✓	/	/							4.547	
5	425			10	9.7		x	✓	/	/							5.666	
6	426			0				✓	/	/							5.670	
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: JL
CHECKED BY:

Bottom Depth: 56

Cast # down: 88
Cast # up: 88

Time	LOC	UTC
Begin:		21:17
Bottom:		
End:		2128'

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49 20 44
LONG: 126 34 99

Comments:

NOTE GOOD SAL CALIBRATION SAMPLES VERY MIXED

ROSETTE LOG

MISSION ID: 9935
STATION NAME: LGØ3

UTC DATE y/m/d: 99/09/28
CAST NUMBER: 92

SHIP: TULLY

on card
88

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		Cl3		At.				
1	427				123.7	✓		✓	✓								1099	
2	428			100	100.8	✓		✓	✓								1090	
3	429			75	75.1	✓		✓	✓								1.338	
4	430			50	49.8	✓		✓	✓								2.735	
5	431			40	40.0	✓		✓	✓	✓		✓		✓			4.356	
6	432			30	29.6	✓		✓	✓								4.553	
7	433			25	24.7	✓		✓	✓	✓		✓					4.731	
8	434			20	20.2	✓		✓	✓								4.770	
9	435			15	15.2	✓		✓	✓	✓		✓					5.435	
10	436	1268		10	9.9	✓		✓	✓								6.051	
11	437			5	5.0	✓		✓	✓	✓		✓					6.268	
12	438			2	3.2	✓		✓	✓	✓		✓					6.268	
13	439			0	1.9	✓		✓	✓	✓		✓		✓			6.264	
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 126

Cast # down:
Cast # up:

Time 100 UTC
Begin: 2338
Bottom:
End: 2351

START POSITION (GPS)
LAT: 49°14.95'
LONG: 126°43.62'

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49°14.87'
LONG: 126°43.47'

Comments:

ROSETTE LOG

MISSION ID:

9935

UTC DATE y/m/d:

99/09/29

STATION NAME:

LG07

CAST NUMBER:

98

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	440			Bot - 10	1798			✓									1.292	
2	441			1500	1499		✓		✓								.718	
3	442			1200	1198				✓								.400	
4	443			1000	1000		✓		✓								.266	
5	444			800	800				✓								.260	
6	445			600	600		✓		✓								.479	
7	446			500	500				✓								.764	
8	447			400	400				✓								1.059	
9	448			300	299				✓								1.641	
10	449			250	249				✓								1.815	
11	450			200	199				✓								1.921	
12	451			175	175				✓								2.109	
13	452			150	150				✓								2.198	
14	453			100	100				✓								3.430	
15	454			75	75				✓								5.531	
16	455			50	50												6.480	
17	456			40	39.2				✓	✓		✓		✓			6.206	
18	457			30	30												6.309	
19	458			25	25				✓	✓		✓					6.378	
20	459			20	20												6.419	
21	460			15	15				✓	✓		✓					6.398	
22	461			10	10												6.366	
23	462			5	5				✓	✓		✓					6.392	
24	463			0	0			✓	✓	✓		✓		✓			6.417	

ENTERED BY:

CHECKED BY:

Bottom Depth: 1808

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0444

Bottom:

End:

START POSITION (GPS)

LAT: 48 59 25

LONG: 127 07 20

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48 59 09

LONG: 127 06.79

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: LC12

UTC DATE y/m/d: 99/9/29
CAST NUMBER: 102

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	464			Bot - 10	2570'	✓	✓						ca 106				904	
2	465			1500	1500	✓	✓											
3	466			800	800.3	✓	✓											
4	467			600	599.6	✓	✓											
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: 2060

Cast # down:
Cast # up:

Time LOC UTC
Begin: 0904
Bottom:
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: LC11

UTC DATE y/m/d: 99/9/29 30
CAST NUMBER: 104

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		photo			

1	468			B-5	1540	✓		↑	✓			on file 106	.904	
2	469			1200	1200.1	✓							.342	
3	470			1000	1000.6	✓							.259	
4	471			800	800.5	✓							.243	
5	472			600	600.3	✓							.416	
6	473			500	500.8	✓							.617	
7	474			400	399.9	✓							1.019	
8	475			300	300.2	✓							1.605	
9	476			250	249.8	✓							1.881	
10	477			200	199.1	✓							2.462	
11	478			175	175.0	✓							2.468	
12	479			150	149.6	✓							2.803	
13	480			125	125.6	✓							2.694	
14	481			100	100.3	✓							3.242	
15	482			75	75.0	✓							4.956	
16	483			50	49.9	✓				✓			6.335	
17	484			30	30.2	✓				✓			6.200	
18	485			20	20.1	✓				✓			6.164	
19	486			10	10.2	✓				✓			6.721	
20	487			0	2.0	✓		↓	✓	✓		✓	6.722	
21														
22														
23														
24														

ENTERED BY:
CHECKED BY:

Bottom Depth: 1455

Cast # down:
Cast # up:

Time LOC UTC
Begin: 0054
Bottom:
End: 0200

START POSITION (GPS)
LAT: 48°18.92'
LONG: 126°26.73'

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48°19.17'
LONG: 126°27.73'

Comments:

ROSETTE LOG

MISSION ID:

9935

UTC DATE y/m/d:

99/09/30

STATION NAME:

LC09

CAST NUMBER:

106

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	488				613			✓	✓								.400	
2	489			600	601			✓									.455	
3	490			500	499			✓									.742	
4	491			400	400			✓									1.164	
5	492			300	300			✓									1.526	
6	493			250	250			✓									1.787	
7	494			200	200			✓									1.832	
8	495			175	175			✓									1.814	
9	496			150	150			✓									1.909	
10	497			125	124.7			✓									2.331	
11	498			100	100			✓									3.071	
12	499			75	74.9			✓									4.605	
13	500			50	50			✓									5.841	
14	501			40	39.9			✓		✓		✓		✓			6.064	
15	502			30	30			✓									6.117	
16	503			25	25.1			✓		✓		✓					6.394	
17	504			20	19.7			✓									6.112	
18	505			15	14.8			✓		✓		✓						
19	506			10	9.9			✓										
20	507			5	5.0					✓		✓						
21	508			2	2.7					✓		✓		✓				
22	509			0	2.7			✓	✓	✓		✓						
23																		
24																		

ENTERED BY:

JL

CHECKED BY:

Bottom Depth:

610

Cast # down:

106

Cast # up:

106

Time

LOC

UTC

Begin:

0407

Bottom:

End:

0444

START POSITION (GPS)

LAT:

48 26 03

LONG:

126 13 81

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

48 26 28

LONG:

126 13 99

Comments:

OXY OSAP

Incubation Cast UBC.

ROSETTE LOG

MISSION ID: 9935
STATION NAME: LC08

UTC DATE y/m/d: 99 09 30
CAST NUMBER: 108

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		ph					

ENTERED BY: JL
CHECKED BY:

1	510			21-5	188			✓		✓			on file 106	1.639	
2	511			175	175			✓		✓				1.689	
3	512			150	150			✓		✓				1.677	
4	513			125	124			✓		✓				2.129	
5	514			100	100			✓		✓				2.555	
6	515			75	75			✓		✓				3.582	
7	516			50	49.6			✓		✓				5.385	
8	517			30	30.2			✓		✓				6.140	
9	518			20	19.9			✓		✓				5.294	
10	519			10	10			✓		✓				5.754	
11	520			0	0			✓		✓			✓	5.093	
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

Bottom Depth: 198

Cast # down: 108

Cast # up: 108

Time	LOC	UTC
Begin:		0549
Bottom:		
End:		0604

START POSITION (GPS)	
LAT:	48 29 54
LONG:	126 07 16

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	48 29 71
LONG:	126 07 23

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: LC07

UTC DATE y/m/d: 99 09 30
CAST NUMBER: 110

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	521			BOT	121	✓		✓	✓						1.139
2	522			125	121	✓		✓	✓						1.131
3	523			100		✓		✓	✓						1.298
4	524			75		✓		✓	✓						3.478
5	525			50		✓		✓	✓	✓					3.555
6	526			30		✓		✓	✓	✓					5.246
7	527			20		✓		✓	✓	✓					5.577
8	528			10		✓		✓	✓	✓					6.378
9	529			0	3.1	✓		✓	✓	✓		✓			6.442
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															

ENTERED BY:
CHECKED BY:

Bottom Depth: 135

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0719
Bottom:		
End:		0732

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48 33.15
LONG: 126 00.44

Comments:

ROSETTE LOG

MISSION ID: 99-35
STATION NAME: LC04

UTC DATE y/m/d: 99/09/30
CAST NUMBER: 115

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		Phy						
1	530			167	161	✓	✓	✓	✓									1.661		
2	531			150		✓	✓											1.659		
3	532			125		✓												1.683		
4	533			100		✓												1.943		
5	534			75		✓												2.107		
6	535			50		✓				✓			✓					2.454		
7	536			30		✓				✓								3.872		
8	537			20		✓				✓								3.719		
9	538			10		✓												5.525		
10	539			5		✓		✓	✓	✓								6.273		
11	540			2		✓		✓	✓	✓			✓					6.285		
12	541			0	2.2	✓		✓	✓	✓			✓					6.298		
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

ENTERED BY: Bm
CHECKED BY:

Bottom Depth: 167

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		1034
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: C1

UTC DATE y/m/d: 99/09/30
CAST NUMBER: 119

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		140				
1	542				149.3	✓		✓									1.229	
2	543			125	125.6	✓		✓	✓								1.218	
3	544	1218		100	99.3	✓		✓	✓								1.316	
4	545			75	74.8	✓		✓	✓								1.288	
5	546			50	49.8	✓		✓	✓								1.892	
6	547	1223		40	39.4	✓		✓	✓	✓		✓		✓			2.306	
7	548			30	29.9	✓		✓									3.299	
8	549			25	25.4	✓		✓	✓	✓		✓					3.922	
9	550	1228		20	20.2	✓		✓									4.383	
10	551			15	15.1	✓		✓	✓	✓		✓					5.401	
11	552			10	9.9	✓		✓									5.856	
12	553			5	5.0	✓		✓	✓	✓		✓					6.000	
13	554			2	2.6	✓		✓	✓	✓		✓		✓			6.064	
14	555			0	1.9	✓		✓	✓	✓		✓					6.068	
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 151

Cast # down:
Cast # up:

Time 1000 UTC
Begin: 1640
Bottom:
End: 1654

START POSITION (GPS)
LAT: 48°23.94'
LONG: 125°15.21'

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48°28.92'
LONG: 125°15.27'

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: LB08

UTC DATE y/m/d: 99 09 30
CAST NUMBER: 123

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken													
					Trip pressure	Confirmed Salinity	SAL	OXY	NUT	CHL	ALK	C13	TCO							
1	556			Bot-5	140			✓												acid added trace 979 *
2	557			125	124.4			✓												1.118
3	558			100	100			✓												1.158
4	559			75	75			✓												1.473
5	560			50	50.8			✓												2.200
6	561			30	29.8			✓												3.756
7	562			20	20.4			✓												5.632
8	563			10	9.7			✓												6.580
9	564			0	0			✓												7.360
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

ENTERED BY:
CHECKED BY:

Bottom Depth: 150

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	2100	
Bottom:		
End:		

START POSITION (GPS)
LAT: 48 25.16
LONG: 125 28 85

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: LB12UTC DATE y/m/d: 99 09 30
CAST NUMBER: 125

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	565			512	512	✓		✓									575	
2	566			400	400.1	✓		✓									1.093	
3	567			300	300.1	✓		✓					not shaken properly				1.666	*
4	568			250	250.0	✓		✓									1.759	
5	569			200	200.1	✓		✓									1.646	
6	570			175	175.1	✓		✓									1.937	
7	571			150	149.5	✓		✓									2.492	
8	572			125	125.0	✓		✓									2.572	
9	573			100	100.1	✓		✓									2.958	
10	574			75	75.0	✓		✓									4.094	
11	575			50	50.2	✓		✓									6.481	
12	576			30	30.5	✓		✓									6.226	
13	577			20	20.2	✓		✓									5.959	
14	578			10	10.0	✓		✓									6.366	
15	579			0	1.8	✓		✓					not shaken properly				6.929	*
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 513

Cast # down:
Cast # up:Time ~~LOC~~ UTC
Begin: 2347
Bottom:
End: 0016 Oct. 1/99START POSITION (GPS)
LAT: 48° 12.91'
LONG: 125° 51.97'BOTTOM POSITION (GPS)
LAT:
LONG:END POSITION (GPS)
LAT: 48° 13.18'
LONG: 125° 52.17'

ROSETTE LOG

MISSION ID: 9935
STATION NAME: L306

UTC DATE y/m/d: 79/10/1
CAST NUMBER: 130

SHIP: Tolly

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		data				
1	580			B-5	110			✓	/								1.450	
2	581			100	100			/	/								1.654	
3	582			75	75.3			/	/					ana bubble			2.100	*
4	583			50	50			/	/					ana bubble			2.584	
5	584			30	30			/	/					"			3.517	
6	585			20	20.1			/	/								4.854	
7	586			10	9.7			/	/								5.816	
8	587			0	0			✓	/	/			✓				5.943	
9																		
10																		
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:		0500
Bottom:		
End:		0512

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48 32 18
LONG: 125 15 30

* extra acid required

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: LB04

UTC DATE y/m/d: 99-10-01
CAST NUMBER: 132

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		1.6				
1	588		Bot-5		105			✓	✓								1.755	
2	589		75		74			✓	✓								2.069	
3	590		50		50			✓	✓	✓							2.816	
4	591		30		28.6			✓	✓	✓							3.569	
5	592		20		20			✓	✓	✓							3.851	
6	593		10		10			✓	✓	✓							4.234	
7	594		0		0			✓	✓	✓				✓			5.266	
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: TL
CHECKED BY:

Bottom Depth: 100

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0636
Bottom:		
End:		0644

START POSITION (GPS)
LAT: 48 35 68
LONG: 125 08 71

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48 35 66
LONG: 125 08 65

Comments:

ROSETTE LOG

MISSION ID: 99-35
STATION NAME: L802

UTC DATE y/m/d: 99/10/01
CAST NUMBER: 1341

SHIP: TULSA

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	595		50	50	52	✓		✓									2.570	
2	596		20	30	/	✓		/									3.871	
3	597		10	20		✓		/									4.356	
4	598		0	10		✓		/									5.142	
5	599			0		✓		✓									/	
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: Bm
CHECKED BY:

Bottom Depth: 56

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0755
Bottom:		
End:		

START POSITION (GPS)
LAT: 48 38.97
LONG: 124 02.43

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

missing firing bottle at 30 m

ROSETTE LOG

MISSION ID: 99-35
STATION NAME: L801UTC DATE y/m/d: 99/10/01
CAST NUMBER: 135SHIP: 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	600	708		30		✓		✓									3.176	
2	601	709		20		✓		✓									3.360	
3	602	712		10		✓		✓					PARTICLES				3.678	
4	603	715		0	3.1			✓					PARTICLES				4.029	
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17	604			100		✓				Stn E01.							Est 136	
18	605			95		✓												
19	606			89		✓												
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:
CHECKED BY:Bottom Depth: 536

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		0831
Bottom:		
End:		

START POSITION (GPS)
LAT: <u>48 40.34</u>
LONG: <u>124 59.48</u>

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 99-35
STATION NAME: JFE4

UTC DATE y/m/d: 99/10/03
CAST NUMBER: 148

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	607			223		✓	✓													
2	608			200		✓	✓													
3	609			175		✓	✓													
4	610			150		✓	✓													
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:

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0843
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9935(2)
STATION NAME: JFE4

UTC DATE: 1999/10/05
CAST NUMBER: 158

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	611			200		✓	✓											
2	612			190		✓	✓											
3	613			180		✓	✓											
4																		
5																		
6																		
7																		
8																		
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21																		
22																		
23																		
24																		

ENTERED BY: SE
CHECKED BY:

Bottom Depth: 224

Cast # down: 158
Cast # up: 158

Time	LOC	UTC
Begin:		1155
Bottom:		1159
End:		1207

START POSITION (GPS)
LAT: 48° 21.28'
LONG: 124° 15.05'

BOTTOM POSITION (GPS)
LAT: 48° 21.29'
LONG: 124° 15.11'

END POSITION (GPS)
LAT: 48° 21.32'
LONG: 124° 15.11'

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: JFGGUTC DATE y/m/d: 5/10/99
CAST NUMBER: 162SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	614			0m	Surf	✓											✓	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
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17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: DJS
CHECKED BY:Bottom Depth: 85Cast # down: 162Cast # up: 162

Time	LOC	UTC
Begin:		<u>0812</u> ^{PM}
Bottom:		
End:		<u>0818</u> ^{PM}

2012

2013

START POSITION (GPS)		
LAT:	<u>48°</u>	<u>24.39</u>
LONG:	<u>124°</u>	<u>40.21</u>

BOTTOM POSITION (GPS)		
LAT:		
LONG:		

END POSITION (GPS)		
LAT:	<u>48°</u>	<u>24.40</u>
LONG:	<u>124°</u>	<u>40.28</u>

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: JFS4

UTC DATE y/m/d: 5/10/99
CAST NUMBER: 164

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	615			Surf	2.2	✓												
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
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19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: DJS
CHECKED BY:

Bottom Depth: 254

Cast # down: 164
Cast # up: 164

Time	LOC	UTC
Begin:		<u>2130</u>
Bottom:		<u>2142</u>
End:		<u>2148</u>

START POSITION (GPS)
LAT: 48° 28.52
LONG: 124° 40.20

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48 28.76
LONG: 124 40.46

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: JFG 3

UTC DATE y/m/d: 5/10/99
CAST NUMBER: 165

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	616			Surf	2.8	✓											✓	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
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23																		
24																		

ENTERED BY: DJS
CHECKED BY:

Bottom Depth: 236

Cast # down: 165
Cast # up: 165

Time	LOC	UTC
Begin:		2212
Bottom:		2217
End:		2221

START POSITION (GPS)
LAT: 48° 30.40
LONG: 124° 40.00

BOTTOM POSITION (GPS)
LAT: 30.40
LONG: 39.96

END POSITION (GPS)
LAT: 30.41
LONG: 39.94

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: JFG2

UTC DATE y/m/d: 5/10/99
CAST NUMBER: 166

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	617			Surf	2.1	✓											✓	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
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16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: DJS
CHECKED BY:

Bottom Depth: 146

Cast # down: 166
Cast # up: 166

Time	LOC	UTC
Begin:		<u>2248</u>
Bottom:		<u>2253</u>
End:		<u>2255</u>

START POSITION (GPS)
LAT: 48° 32.36
LONG: 124° 39.95

BOTTOM POSITION (GPS)
LAT: 48° 32.33
LONG: 124° 39.92

END POSITION (GPS)
LAT: 48° 32.31
LONG: 124° 39.90

Comments:

ROSETTE LOG

MISSION ID:

9935(2)

UTC DATE y/m/d:

1999/10/05

STATION NAME:

JFG1

CAST NUMBER:

167

SHIP:

TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	618			surf	2.1	/												
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
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15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:

JE

CHECKED BY:

Bottom Depth:

45

Cast # down:

167

Cast # up:

167

Time

LOC

UTC

Begin:

2320

Bottom:

2321

End:

2323

START POSITION (GPS)

LAT:

48° 34.08'

LONG:

124° 39.97'

BOTTOM POSITION (GPS)

LAT:

48° 34.07'

LONG:

124° 39.97'

END POSITION (GPS)

LAT:

48° 34.06'

LONG:

124° 39.96'

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: JFEI

UTC DATE y/m/d: 1999/0/06
CAST NUMBER: 168

SHIP: TOLLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	619			Surf														✓
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
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17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: JE
CHECKED BY:

Bottom Depth: 60

Cast # down: 168
Cast # up: 168

Time	LOC	UTC
Begin:		0020
Bottom:		0022
End:		0024

START POSITION (GPS)
LAT: 48° 31.77'
LONG: 124° 29.80'

BOTTOM POSITION (GPS)
LAT: 48° 31.74'
LONG: 124° 29.76'

END POSITION (GPS)
LAT: 48° 31.73'
LONG: 124° 29.73'

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: JFF2

UTC DATE y/m/d: 1999/10/06
CAST NUMBER: 169

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	620			Surf	2.5	✓											✓	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
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19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: SE
CHECKED BY:

Bottom Depth: 141

Cast # down: 169

Cast # up: 169

Time	LOC	UTC
Begin:		00 47
Bottom:		00 51
End:		00 56

START POSITION (GPS)
LAT: 48° 30.49'
LONG: 124° 30.03'

BOTTOM POSITION (GPS)
LAT: 48° 30.49'
LONG: 124° 29.99'

END POSITION (GPS)
LAT: 48° 30.49'
LONG: 124° 29.96'

Comments:

ROSETTE LOG

MISSION ID:

9935

UTC DATE y/m/d:

1999/10/06

STATION NAME:

JFF3

CAST NUMBER:

170

SHIP:

TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	621			195		✓	✓											
2	622			185		✓	✓											
3	623			175		✓	✓											
4	624			50ft		✓											✓	
5																		
6																		
7																		
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10																		
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21																		
22																		
23																		
24																		

ENTERED BY:

je

CHECKED BY:

Bottom Depth:

Cast # down:

170

Cast # up:

170

Time LOC UTC

Begin: 0122

Bottom: 0125

End: 0132

START POSITION (GPS)

LAT: 48° 28.49'

LONG: 124° 30.03'

BOTTOM POSITION (GPS)

LAT: 48° 28.46'

LONG: 124° 29.93'

END POSITION (GPS)

LAT: 48° 28.45'

LONG: 124° 29.91'

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: JPF4

UTC DATE y/m/d: 1999/10/06
CAST NUMBER: 171

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	625			surf	17	✓											✓	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
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16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY: JE
CHECKED BY:

Bottom Depth: 232

Cast # down: 171
Cast # up: 171

Time	LOC	UTC
Begin:		0200
Bottom:		0205
End:		0210

START POSITION (GPS)
LAT: 48° 26.50'
LONG: 124° 29.98'

BOTTOM POSITION (GPS)
LAT: 48° 26.48'
LONG: 124° 29.91'

END POSITION (GPS)
LAT: 48° 26.47'
LONG: 124° 29.86'

ROSETTE LOG

MISSION ID: 9935
STATION NAME: JFF5

UTC DATE y/m/d: 1999/10/06
CAST NUMBER: 172

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	626			surf													✓	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
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22																		
23																		
24																		

Comments:

ENTERED BY: JE
CHECKED BY:

Bottom Depth: 214

Cast # down: 172
Cast # up: 172

Time	LOC	UTC
Begin:		0241
Bottom:		0246
End:		0249

START POSITION (GPS)
LAT: 48° 24.54'
LONG: 124° 29.98'

BOTTOM POSITION (GPS)
LAT: 48° 24.53'
LONG: 124° 29.94'

END POSITION (GPS)
LAT: 48° 24.53'
LONG: 124° 29.93'

ROSETTE LOG

MISSION ID: 9935
STATION NAME: JFF6

UTC DATE y/m/d: 99/10/6
CAST NUMBER: 173

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	627	—	—	0	2.9	✓	—	—	—	—	—	—	✓	—	—	—		
2																		
3																		
4																		
5																		
6																		
7																		
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21																		
22																		
23																		
24																		

ENTERED BY: dy
CHECKED BY:

Bottom Depth: 110

Cast # down: 173
Cast # up: 173

Time	LOC	UTC
Begin:	2022	0322
Bottom:	2027	0327
End:	2030	0330

START POSITION (GPS)
LAT: 48 22.50
LONG: 124 29.91

BOTTOM POSITION (GPS)
LAT: 48 22.49
LONG: 124 29.89

END POSITION (GPS)
LAT: 48 22.48
LONG: 124 29.87

Comments: NO COMMENT

ROSETTE LOG

MISSION ID: 9935
STATION NAME: TFF7

UTC DATE y/m/d: 99/10/6
CAST NUMBER: 174

SHIP: Tolly

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		DMS				
1	628			0										✓				
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
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18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: 187
CHECKED BY:

Bottom Depth: 20 m

Cast # down: 174
Cast # up: 174

Time	LOC	UTC
Begin:	2100	0400
Bottom:	2102	0402
End:	2103	0403

START POSITION (GPS)
LAT: 48 22.02
LONG: 124 29.81

BOTTOM POSITION (GPS)
LAT: 48 21.97
LONG: 124 29.81

END POSITION (GPS)
LAT: 48 21.95
LONG: 124 29.79

Comments:

Rosette Log, 24 bottle

CRUISE NO:
STATION NO:

UTC DATE:
HYDRO No.:

VESSEL: TUG-7

NISK.	SAMPLE	OXY.	OXY.
No.	No.	Flask	TEMP

Sample
Depth
db

ROSETTE OPERATION		
Trip	Trip	Trip
Depth (db)	Temp.	Confirmed

Temperature or Pressure
Sensor 1
SERIAL # oC or dbar

Temperature or Pressure Sensor 2	
SERIAL #	oC or dbar

ENTERED BY: JE
CHECKED BY:

[illegible]

Bottom Depth: 23
Cast No: 183

Time	LOC	UTC
Begin:		0135
Bottom:		0136
End:		0138

BEGIN POSITION (GPS)	
LAT:	48° 26' 44"
LONG:	121° 14' 90"

BOTTOM POSITION (GPS)	
LAT:	48° 26 44'
LONG:	124° 14.87'

END POSITION (GPS)	
LAT:	48° 26 44'
LONG:	124° 14.87'

Comments

DMS.

VESSEL: TULLY

ENTERED BY: JE
CHECKED BY:

Bottom Depth:

Cast No: 184

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

Begin: 0158

Bottom: 0200

End: 0202

BEGIN POSITION (GPS)

LAT: 48° 27' 21"

LONG: 124° 15.00'

BOTTOM POSITION (GPS)

LAT: 48° 27.21'

LONG: 124° 14.98'

END POSITION (GPS)

LAT: 48° 27' 21"

LONG: 124° 14.98'

Comments

ROSETTE LOG

MISSION ID: 9935
STATION NAME: JFE18

UTC DATE y/m/d: 1999/10/07
CAST NUMBER: 185

SHIP: T-267/

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					

ENTERED BY:	JE
CHECKED BY:	

Bottom Depth: 130

Cast # down: 185

Cast # up: 185

Time	LOC	UTC
Begin:		0224
Bottom:		0227
End:		0230

START POSITION (GPS)	
LAT:	48° 25' 88"
LONG:	124° 14' 88"

BOTTOM POSITION (GPS)	
LAT:	48° 25' 88"
LONG:	124° 14.84'

END POSITION (GPS)	
LAT:	48° 25' 87"
LONG:	124° 14' 81"

Comments:

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:

0250

Bottom:

0252

End:

0257

START POSITION (GPS)

LAT:

48° - 35.20'

LONG:

124° 14.97'

BOTTOM POSITION (GPS)

LAT:

48° 25.19'

LONG:

124° 14.93

END POSITION (GPS)

LAT:

48° 25' 18"

LONG:

124° 14.92

Comments:

ROSETTE LOG

MISSION ID:

9935

UTC DATE y/m/d:

1999/10/07

STATION NAME:

JFE3

CAST NUMBER:

187

SHIP:

TULLY

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

ROSETTE OPERATION		Samples taken												DMS	
Trip	Confirmed	SAL		NUT		ALK		TCO							
pressure	Salinity		OXY		CHL		C13								
1	633				surf	2.2									
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
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21															
22															
23															
24															

ENTERED BY:

CHECKED BY:

Bottom Depth:

184

Cast # down:

187

Cast # up:

187

Time LOC UTC

Begin:

0322

Bottom:

End:

START POSITION (GPS)

LAT:

48-23.30

LONG:

124 15.00

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

48 23.29

LONG:

124 14.87

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: JFE4

UTC DATE y/m/d: 99/10/7
CAST NUMBER: 188

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	6341			Surf	12													
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
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23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 224

Cast # down: 188
Cast # up:

Time	LOC	UTC
Begin:		0400
Bottom:		
End:		0408

START POSITION (GPS)
LAT: 48 21 29
LONG: 124 14.94

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48 21 27
LONG: 124 14.73

Comments:

ROSETTE LOG

MISSION ID:
STATION NAME:

9935
JFES

UTC DATE y/m/d:
CAST NUMBER:

99/10/7
189

SHIP:

TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	635			Surf														✓
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
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22																		
23																		
24																		

ENTERED BY:

CHECKED BY:

Bottom Depth:

212

Cast # down:

189

Cast # up:

Time

LOC

UTC

Begin:

0432

Bottom:

End:

0443

START POSITION (GPS)

LAT:

48 19 26

LONG:

124 15 06

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

48 19 25

LONG:

124 14 54

Comments:

ROSETTE LOG

MISSION ID:

9935

UTC DATE y/m/d:

99/10/7

STATION NAME:

JFJ-6

CAST NUMBER:

190

SHIP:

TOLBY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	636			Surf													DMS	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
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21																		
22																		
23																		
24																		

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down:

190

Cast # up:

Time LOC UTC

Begin:

Bottom:

End:

0520

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

48 17 76

LONG:

124 14,85

Comments:

ROSETTE LOG

MISSION ID:

9935

UTC DATE y/m/d:

99/10/7

STATION NAME:

JFET

CAST NUMBER:

191

SHIP:

TOLLEY

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

ROSETTE OPERATION		Samples taken											
Trip	Confirmed	SAL		NUT		ALK		TCO				DMS	
pressure	Salinity		OXY		CHL		C13						
1	637				Surf							✓	
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
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21													
22													
23													
24													

ENTERED BY:

CHECKED BY:

Bottom Depth: 10.3

Cast # down: 191

Cast # up:

Time LOC UTC

Begin:

Bottom:

End: 0554

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48 16.38

LONG: 124 14.52

Comments:

ROSETTE LOG

MISSION ID: 6935
STATION NAME: JFC 4

UTC DATE y/m/d: 7-10-99
CAST NUMBER: 194

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	638			160	163	✓	✓											
2	639			150	149	✓	✓											
3	640			140	138	✓	✓											
4																		
5																		
6																		
7																		
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24																		

Comments:

ENTERED BY: DJJ
CHECKED BY:

Bottom Depth: 168

Cast # down: 194
Cast # up:

Time	LOC	UTC
Begin:		0914
Bottom:		
End:		0925

START POSITION (GPS)
LAT: 48° ~ 14.42
LONG: 123° 45.01

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48° 14.38
LONG: 123° 45.15

ROSETTE LOG

MISSION ID:
STATION NAME:

9935

JFC 3

UTC DATE y/m/d:
CAST NUMBER:

7-10-99

195

SHIP:

TOLLEY

Niskin Sample OXY. OXY.
No. No. Flask Temp.Sample
DepthROSETTE OPERATION
Trip Confirmed
pressure Salinity

Samples taken

SAL NUT ALK TCO
OXY CHL C13

DMC

1	641			175	176	✓	✓												
2	642			165	168	✓	✓												
3	643			150	153	✓	✓												
4																			
5																			
6																			
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24																			

Comments:

ENTERED BY:

DJJ

CHECKED BY:

Bottom Depth:

18.4

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0955

Bottom: 1

End: 10:07

START POSITION (GPS)

LAT: 48° 16.63

LONG: 123° 45.06

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48° 16.67

LONG: 123° 45.18

ROSETTE LOG

MISSION ID: 9935
STATION NAME: JFBI

UTC DATE y/m/d: 1999/10/07
CAST NUMBER: 199

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	644			surf														✓
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
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23																		
24																		

Comments:

ENTERED BY: JE
CHECKED BY:

Bottom Depth: 165

Cast # down: 199
Cast # up: 199

Time	LOC	UTC
Begin:		1200
Bottom:		1203
End:		1206

START POSITION (GPS)
LAT: 48° 17.60'
LONG: 123° 35.45'

BOTTOM POSITION (GPS)
LAT: 48° 17.60'
LONG: 123° 35.47'

END POSITION (GPS)
LAT: 48° 17.61'
LONG: 123° 35.46'

ROSETTE LOG

MISSION ID:

9935

UTC DATE y/m/d:

1999/10/07

STATION NAME:

JFB2

CAST NUMBER:

200

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	645				Surf								
2													
3													
4													
5													
6													
7													
8													
9													
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22													
23													
24													

ENTERED BY:

JE

CHECKED BY:

Bottom Depth:

193

Cast # down:

200

Cast # up:

200

Time LOC UTC

Begin: 1228

Bottom: 1231

End: 1235

START POSITION (GPS)

LAT: 48° 15.85'

LONG: 123° 35.32'

BOTTOM POSITION (GPS)

LAT: 48° 15.87'

LONG: 123° 35.30'

END POSITION (GPS)

LAT: 48° 15.90'

LONG: 123° 35.31'

Comments:

ROSETTE LOG

MISSION ID: 9935
STATION NAME: JF83

UTC DATE y/m/d: 1999/10/07
CAST NUMBER: 201

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	646			surf														
2																		
3																		
4																		
5																		
6																		
7																		
8																		
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23																		
24																		

ENTERED BY: JE
CHECKED BY:

Bottom Depth: 157

Cast # down: 201
Cast # up: 201

Time	LOC	UTC
Begin:		1258
Bottom:		1301
End:		1304

START POSITION (GPS)
LAT: 48° 13.82'
LONG: 123° 35.37'

BOTTOM POSITION (GPS)
LAT: 48° 13.81'
LONG: 123° 35.38'

END POSITION (GPS)
LAT: 48° 13.79'
LONG: 123° 35.37'

Comments:

ROSETTE LOG

MISSION ID:

9935

UTC DATE y/m/d:

1999/10/07

STATION NAME:

JFB4

CAST NUMBER:

202

SHIP:

Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	647			surf														✓
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
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23																		
24																		

Comments:

ENTERED BY:

SE

CHECKED BY:

Bottom Depth:

136

Cast # down:

202

Cast # up:

202

Time

LOC

UTC

Begin:

13 33

Bottom:

13 36

End:

13 39

START POSITION (GPS)

LAT:

48° 11.71'

LONG:

123° 35.41'

BOTTOM POSITION (GPS)

LAT:

48° 11.67'

LONG:

123° 35.48'

END POSITION (GPS)

LAT:

48° 11.64'

LONG:

123° 35.58'

ROSETTE LOG

MISSION ID:

9935

UTC DATE y/m/d:

1999/10/07

STATION NAME:

JFB5

CAST NUMBER:

203

SHIP: TOLLY

Niskin Sample
No. No.OXY.
FlaskOXY.
Temp.Sample
DepthROSETTE OPERATION
Trip Confirmed
pressure SalinitySamples taken
SAL NUT ALK TCO
OXY CHL C13

DMS

ENTERED BY:

JC

CHECKED BY:

Bottom Depth:

52

Cast # down:

203

Cast # up:

203

Time LOC UTC

Begin:

1400

Bottom:

1401

End:

1403

START POSITION (GPS)

LAT:

-48° 09.80'

LONG:

123° 35.33'

BOTTOM POSITION (GPS)

LAT:

48° 09.80'

LONG:

123° 35.31'

END POSITION (GPS)

LAT:

48° 09.80'

LONG:

123° 35.29'

Comments: