

ROSETTE LOG

MISSION ID:

9910

UTC DATE y/m/d:

99/06/2

STATION NAME:

SI 3

CAST NUMBER:

2

SHIP: TULLY

NISKIN ID

Niskin No. Sample No. OXY. Flask

OXY. Temp.

Sample Depth

ROSETTE OPERATION

Trip pressure

Confirmed Salinity

Samples taken

SAL OXY NUT CHL ALK C13 TCO CFC

1	1		1264	213		✓	✓	✓	✓					✓					
2	2		1037	213		✓	✓	✓	✓					✓					
3	3		1301	213		✓	✓	✓	✓					✓					
4	4	✓	1005	200		✓	✓	✓	✓					✓					
5	5	✓	1254	180		✓	✓	✓	✓					✓					
6	6	✓	1008	160		✓	✓	✓	✓					✓					
7	7	✓	1245	140		✓	✓	✓	✓					✓					
8	8	✓	1262	120		✓	✓	✓	✓					✓					
9	9	✓	1256	100		✓	✓	✓	✓					✓					
10	10	✓	1015	80		✓	✓	✓	✓					✓					
11	11	✓	1299	60		✓	✓	✓	✓					✓					
12	12		1242	60		✓	✓	✓	✓					✓					
13	13			60		✓	✓	✓	✓					✓					
14	14	✓		50		✓	✓	✓	✓					✓					
15	15	✓	1025	40		✓	✓	✓	✓					✓					
16	16	✓		30		✓	✓	✓	✓					✓					
17	17	✓	1248	20		✓	✓	✓	✓					✓					
18	18	✓	1250	10		✓	✓	✓	✓					✓					
19	19	✓	1258	0		✓	✓	✓	✓					✓					
20	20			0		✓	✓	✓	✓					✓					
21	21			0		✓	✓	✓	✓					✓					
22																			
23																			
24																			

ENTERED BY:

CHECKED BY: MR

Bottom Depth: 228

Cast # down: 2

Cast # up: 2

Time LOC UTC

Begin: 0153

Bottom: 0159

End: 0223

START POSITION (GPS)

LAT: 48° 35' 67

LONG: 123° 30' 00

BOTTOM POSITION (GPS)

LAT: 48° 35' 72

LONG: 123° 29' 98

END POSITION (GPS)

LAT: 48° 35' 86

LONG: 123° 29' 88

no PAR

Comments:

X - 4 liter jar samples
H₂S noted samples 1-7

ROSETTE LOG

MISSION ID:

9910

UTC DATE y/m/d:

99/6/3

STATION NAME:

PIE 115

CAST NUMBER:

04

SHIP: JP

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO	FR				
							✓	OXY		CHL		C13						
1	22	712	0.390	3-10	799	✓												
2	23	84	0.510	600		✓												
3	24	572	0.887	400		✓												
4	25	255	1.235	300		✓												
5	26	333	1.875	200		✓												
6	27	337	2.289	150		✓												
7	28	364	3.192	100		✓												
8	29	392	5.697	75		✓												
9	30	425	6.338	50		✓												
10	31	443	6.929	25		✓												
11	32	467	8.215	10		✓												
12	33	486	8.165	0		✓												
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY: TS
CHECKED BY: MR

Bottom Depth: 777

Cast # down: 4

Cast # up: 4

Time	LOC	UTC
Begin:		0142
Bottom:		0157
End:		0223

START POSITION (GPS)	
LAT:	46°54.08
LONG:	124°59.62

BOTTOM POSITION (GPS)	
LAT:	46°53.99
LONG:	124°59.81

END POSITION (GPS)	
LAT:	46°54.05
LONG:	124°59.99

no PAR

ROSETTE LOG

MISSION ID: 9910
STATION NAME: PIE114

UTC DATE y/m/d: 99/06/02⁵
CAST NUMBER: 05

SHIP: J.P. TULLY

[illegible]

Comments:

ENTERED BY: _____

CHECKED BY: _____

Bottom Depth: 822

Cast # down: 5

Cast # up: 5

Time	LOC	UTC
Begin:	D	0430
Bottom:		
End:		

START POSITION (GPS)
LAT: 47 00 17
LONG: 125 03 49

BOTTOM POSITION (GPS)	
LAT:	47° 00' 36"
LONG:	125° 03' 50"

END POSITION (GPS)	
LAT:	47° 00.70
LONG:	125° 03 58

Kenne

ROSETTE LOG

MISSION ID: 9910
STATION NAME: PIE 112UTC DATE y/m/d: 99/6/3
CAST NUMBER: 7SHIP: J.P. TULLYNiskin Sample OXY. OXY. Sample
No. No. Flask Temp. Depth

ROSETTE OPERATION		Samples taken													
Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO	FRE						
		OXY		CHL		C13									
1	63	1103	1.825	B-10.	2566	✓									
2	64	1104	1.847	2500		✓									
3	65	1105	1.759	2250		✓									
4	66	1106	1.500	2000		✓									
5	67	1110	1.213	1750		✓									
6	68	1114	0.792	1500		✓									
7	69	1113	0.479	1250		✓									
8	70	1119	0.254	1000		✓									
9	71	1126	0.244	800		✓									
10	72	1128	0.416	600		✓									
11	73	1130	1.139	400		✓									
12	74	1132	1.872	300		✓									
13	75	1133	2.603	200		✓									
14	76	1134	2.913	150		✓									
15	77	1135	4.089	100		✓									
16	78	1136	6.582	75		✓									
17	79	1137	6.982	50		✓									
18	80	1138	6.988	25		✓									
19	81	1139	6.544	10		✓									
20	82	1141	6.528	0		✓									
21															
22															
23															
24															

ENTERED BY: TS
CHECKED BY: MRBottom Depth: 2565Cast # down: 7Cast # up: 7

Time	LOC	UTC
Begin:		1136
Bottom:		1241
End:		1350

START POSITION (GPS)
LAT: 46°59' 93
LONG: 126°00' 07BOTTOM POSITION (GPS)
LAT: 46°59' 99
LONG: 126°00' 13END POSITION (GPS)
LAT: 46°59' 99
LONG: 126°00' 79

Comments:

ROSETTE LOG

MISSION ID: 9910
STATION NAME: PIE 111UTC DATE y/m/d: 99/6/3
CAST NUMBER: 8SHIP: J P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO	Fr				
1	83	1142	1.817	B-10	2570	✓	/											
2	84	1144	1.804	2500	2499	✓	/											
3	85	1146	1.722	2250	2250	✓	/											
4	86	1148	1.426	2000	1999	✓	/											
5	87	1150	1.097	1750	1748	✓	/											
6	88	1153	0.742	1500	1499	✓	/											
7	89	1154	0.463	1250	1250	✓	/											
8	90	1158	0.258	1000	1001	✓	/											
9	91	1168	0.237	800	798	✓	/											
10	92	1171	0.379	600	600	✓	/											
11	93	1174	1.101	400	402	✓	/											
12	94	1175	1.745	300	298	✓	/											
13	95	1176	2.378	200	200	✓	/											
14	96	1177	2.758	150	149	✓	/											
15	97	1178	4.547	100	100	✓	/											
16	98	1180	6.614	75	74	✓	/											
17	99	1182	6.915	50	49	✓	/											
18	100	1188	6.560	25	25	✓	/											
19	101	1189	6.519	10	10	✓	/											
20	102	1190	6.517	0	2	✓	/											
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:
CHECKED BY:Bottom Depth: 2563Cast # down: 8Cast # up: 8

Time	LOC	UTC
Begin:		<u>1618</u>
Bottom:		<u>17.11</u>
End:		<u>18:17</u>

START POSITION (GPS)	
LAT:	<u>47 02 12</u>
LONG:	<u>126 28 18</u>

BOTTOM POSITION (GPS)	
LAT:	<u>47 0.46</u>
LONG:	<u>126.28.45</u>

END POSITION (GPS)	
LAT:	<u>47 0.62</u>
LONG:	<u>126 29.40</u>

Done

ROSETTE LOG

MISSION ID: 9910
STATION NAME: PIE110UTC DATE y/m/d: 99/6/3
CAST NUMBER: 009SHIP: JPTULLYNiskin Sample OXY. OXY. Sample
No. No. Flask Temp. Depth

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

ENTERED BY: MQ
CHECKED BY: MA/MR

1	1028	1201	1.931	13-10	2655	✓													
2	103	1202	1.797	2500	2499	✓													
3	104	1203	1.745	2250	2248	✓													
4	105	1204	1.494	2000	2000	✓													
5	106	1206	1.131	1750	1749	✓													
6	107	1209	0.779	1500	1500	✓													
7	108	1210	0.433	1250	1248	✓													
8	109	1198	0.269	1000	999	✓													
9	110	1212	0.238	800	799	✓													
10	111	1215	0.442	600		✓													
11	112	1216	1.103	400		✓													
12	113	1218	1.736	300		✓													
13	114	1219	2.654	200		✓													
14	115	1222	3.104	150		✓													
15	116	1223	5.234	100		✓													
16	117	1224	6.832	75		✓													
17	118	1225	6.953	50		✓													
18	119	1228	6.633	25		✓													
19	120	1230	6.567	10		✓													
20	121	1231	6.574	0		✓													
21																			
22																			
23																			
24																			

Bottom Depth: 2699Cast # down: 9Cast # up: 9

Time	LOC	UTC
Begin:		2128
Bottom:		2219
End:		2317

START POSITION (GPS)	
LAT:	46 59.97
LONG:	127 12.05

BOTTOM POSITION (GPS)	
LAT:	46 59.89
LONG:	127 12.27

END POSITION (GPS)	
LAT:	47 00.07
LONG:	127 12.59

Comments:

HAVE TO WAIT 2 HRS BEFORE SAMPLING: NOT ENOUGH FREON SPRINGS

Labels have 2 #110's and no #111 →
so change label to 111 for bottle 10

Done

ROSETTE LOG

MISSION ID: 9910
STATION NAME: PIE 109

UTC DATE y/m/d: 99/06/04
CAST NUMBER: 010

SHIP: SPITULLA

Niskin Sample OXY. ml/l
No. No. Flask OXY. Temp.

Sample
Depth

ROSETTE OPERATION		Samples taken													
Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO							
			OXY		CHL		C13								
1	122	1233	1.913	301-10	2705	✓									
2	123	1234	1.868	2500	2499	✓									
3	124	1235	1.742	2250	2249	✓									
4	125	1237	1.534	2000	2000	✓									
5	126	1238	1.159	1750	1748	✓									
6	127	1240	0.746	1500	1498	✓									
7	128	1241	0.447	1250	1250	✓									
8	129	1139	0.250	1000	999	✓									
9	130	1141	0.256	800	799	✓									
10	131	1142	0.424	600	597	✓									
11	132	1144	1.414	400	400	✓									
12	133	1146	2.228	300	299	✓									
13	134	1148	3.013	200	199	✓									
14	135	1150	3.223	150	149	✓									
15	136	1153	6.609	100	99	✓									
16	137	1154	6.841	75	75	✓									
17	138	1158	7.002	50	49	✓									
18	139	1168	6.748	25	24	✓									
19	140	1171	6.742	10	9	✓									
20	141	1174	6.744	0	1.5	✓									
21															
22															
23															
24															

ENTERED BY: MR
CHECKED BY:

Bottom Depth: 2712

Cast # down: 10
Cast # up: 10

Time	LOC	UTC
Begin:		0237
Bottom:		0320
End:		0427

START POSITION (GPS)
LAT: 47°00.05
LONG: 127°55.40

BOTTOM POSITION (GPS)
LAT: 46 59.92
LONG: 127 55.62

END POSITION (GPS)
LAT: 46 59.71
LONG: 127 55.92

Comments:

done

ROSETTE LOG

MISSION ID: 9910
STATION NAME: PIE 107

UTC DATE y/m/d: 4 June 99
CAST NUMBER: 011

SHIP: J.P. TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken													
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO							
								OXY		CHL		C13		FRC						
1	142	11		BOT - 20	2711	✓		✓	11											
2	143			2500	2500	✓														
3	144			2250	2250	✓														
4	145			2000	2000	✓														
5	146			1750	1750	✓														
6	147			1500	1500	✓														
7	148			1250	1251	✓														
8	149			1000	999	✓														
9	150			800	801	✓														
10	151			600	600	✓														
11	152			400	399	✓														
12	153			300	300	✓														
13	154			200	199	✓														
14	155			150	150	✓														
15	156			100	100	✓														
16	157			75	74	✓														
17	158			50	50	✓														
18	159			25	25	✓														
19	160			10	10	✓														
20	161			0	2.7	✓		✓	✓						✓					
21																				
22																				
23																				
24																				

ENTERED BY: MR/MO.
CHECKED BY:

Bottom Depth: 2712

Cast # down: 11
Cast # up: 11

Time	LOC	UTC
Begin:		0620
Bottom:	0015	0712
End:		0810

START POSITION (GPS)
LAT: 47 0.07
LONG: 127 55.32

BOTTOM POSITION (GPS)
LAT: 47 0.39
LONG: 127 55.11

END POSITION (GPS)
LAT: 47 0.62
LONG: 127 55.23

Comments:

Sal & Feon Only

ROSETTE LOG

MISSION ID: 9910
STATION NAME: RVE108

UTC DATE y/m/d: 99/06/04
CAST NUMBER: 012

SHIP: JPTULLY

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

Sample
Depth

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

1	162	713	2.043	8-10	2747	✓													
2	163	715	1.834	2500		✓													
3	164	724	1.706	2250		✓													
4	165	726	1.470	2000		✓													
5	166	727	1.074	1750		✓													
6	167	730	0.739	1500		✓													
7	168	732	0.436	1250		✓													
8	169	734	0.262	1000		✓													
9	170	735	0.294	800		✓													
10	171	1045	0.614	600		✓													
11	172	1062	1.508	400		✓													
12	173	1090	2.411	300		✓													
13	174	1103	3.395	200		✓													
14	175	1104	3.874	150		✓													
15	176	1105	6.141	100		✓													
16	177	1106	6.859	75		✓													
17	178	1110	7.069	50		✓													
18	179	1114	6.810	25		✓													
19	180	1113	6.735	10		✓													
20	181	1119	6.726	0		✓													
21																			
22																			
23																			
24																			

ENTERED BY:
CHECKED BY: MR

Bottom Depth: 2741

Cast # down: 12
Cast # up: 12

Time	LOC	UTC
Begin:		1311
Bottom:		1402
End:		

START POSITION (GPS)
LAT: 46° 59' 99"
LONG: 128° 38' 76"

BOTTOM POSITION (GPS)
LAT: 46° 59' 63"
LONG: 128° 38' 96"

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID: 9910
STATION NAME: PLE107

UTC DATE y/m/d: June 4/99
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		Fl				
1	182	1126	1.892	2573	B-10	✓ 73												
2	183	1128	1.896	2499	2500	✓												
3	184	1130	1.771	2249	2250	✓												
4	185	1132	1.524	1998	2000	✓												
5	186	1133	1.108	1750	1750	✓												
6	187	1134	0.774	1499	1500	✓												
7	188	1135	0.428	1248	1250	✓												
8	189	1136	0.273	1000	1000	✓												
9	190	1137	0.263	800	800	✓												
10	191	1138	0.534	600	600	✓												
11	192	712	1.523	398	400	✓												
12	193	84	2.385	300	300	✓												
13	194	572	3.121	200	200	✓												
14	195	255	4.095	150	150	✓												
15	196	333	5.847	98	100	✓												
16	197	337	6.793	74	75	✓												
17	198	364	7.100	48	50	✓												
18	199	392	6.762	25	25	✓												
19	200	425	6.725	10	10	✓												
20	201	443	6.730	3.1	0	✓												
21																		
22																		
23																		
24																		

Comments:

ENTERED BY: MB
CHECKED BY:

Bottom Depth: 2573

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	1226	1926
Bottom:		
End:		

START POSITION (GPS)
LAT: 46°59.83
LONG: 129°23.08

BOTTOM POSITION (GPS)
LAT: 46 59.56
LONG: 129 23.43

END POSITION (GPS)
LAT: 46 59.46
LONG: 129 24.09

done

ROSETTE LOG

MISSION ID:

9910

UTC DATE y/m/d:

99/6/5

STATION NAME:

PIE106

CAST NUMBER:

14

SHIP: JPTULLY

Niskin
No.Sample
No.OXY.
FlaskOXY.
Temp.Sample
DepthROSETTE OPERATION
Trip
pressureConfirmed
Salinity

SAL

OXY

NUT

CHL

ALK

C13

TCO

Fre

Samples taken

1	202	712	2.125	B-10	2654	✓													
2	203	84	2.025	2500	2499	✓													
3	204	572	1.753	2250	2249	✓													
4	205	255	1.423	2000	2000	✓													
5	206	333	1.144	1750	1750	✓													
6	207	337	0.845	1500	1501	✓													
7	208	364	0.396	1250	1252	✓													
8	209	392	0.260	1000	1000	✓													
9	210	425	0.324	800	801	✓													
10	211	443	0.533	600	598	✓													
11	212	467	1.655	400	402	✓													
12	213	486	2.550	300	304	✓													
13	214	509	3.570	200	200	✓													
14	215	534	4.316	150	149	✓													
15	216	535	6.587	100	99	✓													
16	217	578	6.878	75	78	✓													
17	218	588	7.103	50	51	✓													
18	219	597	6.819	25	25	✓													
19	220	632	6.928	10	10	✓													
20	221	638	6.803	0	4.6	✓													
21																			
22																			
23																			
24																			

Comments:

ENTERED BY: MR

CHECKED BY:

Bottom Depth: 2708

Cast # down: 14

Cast # up: 14

Time LOC UTC

Begin: 0444

Bottom: 0534

End: 0654

START POSITION (GPS)

LAT: 47 004

LONG: 130 113

BOTTOM POSITION (GPS)

LAT: 47 0.21

LONG: 130 0.80

END POSITION (GPS)

LAT: 46 59.96

LONG: 130 01.68

ROSETTE LOG

MISSION ID: 9910
STATION NAME: PIE105

UTC DATE y/m/d: 99/06/05
CAST NUMBER: 15

SHIP: J P TULLY

Niskin Sample OXY. m/s
No. No. Flask OXY. Temp.

Sample
Depth

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

1	222	713	2.117	B-10	2504	✓							
2	223	715	2.031	2500	2504	✓							
3	224	724	1.652	2250	2247	✓							
4	225	726	1.417	2000	2000	✓							
5	226	727	1.057	1750	1732	✓							
6	227	730	0.739	1500	1503	✓							
7	228	732	0.406	1250	1261	✓							
8	229	734	0.391	1000	996	✓							
9	230	735	0.305	800	800	✓							
10	231	1045	0.721	600	600	✓							
11	232	1062	1.857	400	363	✓							
12	233	1090	2.375	300	300	✓							
13	234	1103	3.594	200	200	✓							
14	235	1104	4.302	150	150	✓							
15	236	1105	6.381	100	78	✓							
16	237	1106	6.847	75	75	✓							
17	238	1110	7.094	50	50	✓							
18	239	1114	6.835	25	25	✓							
19	240	1113	6.834	15	15	✓							
20	241	1119	6.844	0	5	✓							
21													
22													
23													
24													

ENTERED BY:
CHECKED BY:

Bottom Depth: 2870 m

Cast # down: 15
Cast # up: 15

Time	LOC	UTC
Begin:		15:34
Bottom:		16:42
End:		18:11

START POSITION (GPS)
LAT: 47 00.01
LONG: 131 13.89

BOTTOM POSITION (GPS)
LAT: 47 0.03
LONG: 131 15.64

END POSITION (GPS)
LAT: 46 59.97
LONG: 131 16.69

Comments:

Heave compensator malfunction @ 600m. Abort Rest of cast.
No water samples above 400m
All water samples above 600m is on the fly. ~17:59

ROSETTE LOG

MISSION ID:

9910

UTC DATE y/m/d:

SHIP: J. P. TULLY

STATION NAME:

P10104

CAST NUMBER:

14-

[illegible]

ENTERED BY:

CHECKED BY:

Bottom Depth: 3320 m

Cast # down: 16

Cast # up: 16

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

Begin: 04:03

Bottom: 5:17

End: 07.09

START POSITION (GPS)

LAT: 46 59.91

LONG: 132 22 42

BOTTOM POSITION (GPS)

LAT: 47 0.01

LONG: 132 23 25

END POSITION (GPS)

LAT: 47 022

LONG: 132 24. 28

Comments:

Tripped # 22 on the fly

ROSETTE LOG

MISSION ID:

9910

UTC DATE y/m/d:

99/6/6

STATION NAME:

PIE 103

CAST NUMBER:

17

SHIP: J. P. TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13		FRE				
1	264	1139	2.836	13-10	3590	✓												
2	265	1141	2.797	3500		✓												
3	266	1142	2.373	3000		✓												
4	267	1144	2.031	2750		✓												
5	268	1146	1.918	2500		✓												
6	269	1148	1.668	2250		✓												
7	270	1150	1.379	2000		✓												
8	271	1153	0.987	1750		✓												
9	272	1154	0.639	1500		✓												
10	273	1158	0.350	1250		✓												
11	274	1168	0.248	1000		✓												
12	275	1171	0.414	800		✓												
13	276	1174	0.477	700		✓												
14	277	1175	1.869	400		✓												
15	278	1176	2.843	300		✓												
16	279	1177	4.090	200		✓												
17	280	1178	4.547	150		✓												
18	281	*1180	6.805	*100	LID Loose	✓												
19	282	1182	6.809	75		✓												
20	283	1188	7.035	50		✓												
21	284	*1199	7.201	*25	LID Loose	✓												
22	285	1190	6.846	10		✓												
23	286	1191	6.852	0		✓												
24																		

Comments:

ENTERED BY: M12
CHECKED BY:

Bottom Depth: 3649?

Cast # down: 17

Cast # up: 17

Time	LOC	UTC
Begin:		1420
Bottom:		1526
End:		

START POSITION (GPS)	
LAT:	46° 59' 99"
LONG:	133° 27.77'

BOTTOM POSITION (GPS)	
LAT:	46° 59' 91"
LONG:	133° 28' 64"

END POSITION (GPS)	
LAT:	
LONG:	

bme

ROSETTE LOG

MISSION ID:

9910

UTC DATE y/m/d:

11/06/06 07

STATION NAME:

P1E102

CAST NUMBER:

18

SHIP: J. P. TULLY

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

ROSETTE OPERATION		Samples taken													
Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO	FRE						
			OXY		CHL		C13								
1	287	1201	3.131	B-10	4043	✓									
2	288	1202	2.876	3500		✓									
3	289	1203	2.490	3000		✓									
4	290	1204	2.252	2750		✓									
5	291	1206	1.988	2500		✓									
6	292	1209	NO SAMPLE	2250		✓								NO SAL	WATER SHORT
7	293	1210	1.600	2000		✓									
8	294	1198	1.029	1750		✓									
9	295	1212	0.595	1500		✓									
10	296	1215	0.342	1250		✓									
11	297	1216	0.270	1000		✓									
12	298	1218	0.333	800		✓									
13	299	1219	0.629	600		✓									
14	300	1222	1.727	400		✓									
15	301	1223	2.336	300		✓									
16	302	1224	3.371	200		✓									
17	303	1225	3.927	150		✓									
18	304	1228	6.790	100		✓									
19	305	1230	6.940	75		✓									
20	306	1231	7.107	50		✓									
21	307	1233	6.909	25		✓									
22	308	1234	6.895	10		✓									
23	309	1235	6.911	0		✓									
24															

ENTERED BY: MR

CHECKED BY: MR

Bottom Depth: 39.82

Cast # down: 18

Cast # up: 18

Time LOC UTC

Begin: 2323

Bottom: 0035

End: 0205

START POSITION (GPS)

LAT: 46° 59.90

LONG: 134° 36.71

BOTTOM POSITION (GPS)

LAT: 46° 59.93

LONG: 134° 36.51

END POSITION (GPS)

LAT: 47° 00.32

LONG: 134° 37.80

Comments:

NO SAMPLE # 6 = 2250m FRESH SAMPLING USED UP WATER

ROSETTE LOG

MISSION ID:

STATION NAME:

UTC DATE y/m/d:

CAST NUMBER:

SHIP: JP TULLY

ENTERED BY: MO

CHECKED BY:

Bottom Depth: 4137

Cast # down:

Cast # up:

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

Begin: 0816

Bottom: 0931

End:

START POSITION (GPS)

LAT: 47 0 06

LONG: 126 43, 92

BOTTOM POSITION (GPS)

LAT: 47 0.31

LONG: 135 43.91

END POSITION (GPS)

LAT:

LONG:

[illegible]

Comments:

ROSETTE LOG

MISSION ID:

9910

UTC DATE y/m/d:

99/6/7

SHIP: J P. TULLY

STATION NAME:

PIE 100

CAST NUMBER:

20

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		FRE				
1	334	1193	3.175	B-10	4152	✓												
2	335	1194	3.024	4000	3999	✓												
3	336	1195	2.890	3500	3500	✓												
4	337	1196	2.961	3000	3000	✓												
5	338	1197	2.225	2750	2750	✓												
6	339	1238	2.113	2500	2500	✓												
7	340	712	1.798	2250	2250	✓												
8	341	333	1.353	2000	2000	✓												
9	342	337	1.014	1750	1749	✓												
10	343	255	0.563	1500	1500	✓												
11	344	572	0.369	1250	1249	✓												
12	345	364	0.243	1000	1000	✓												
13	346	392	0.349	800	800	✓												
14	347	425	0.677	600	600	✓												
15	348	443	1.701	400	400	✓												
16	349	467	2.585	300	300	✓												
17	350	486	3.421	200	200	✓												
18	351	509	3.823	150	150	✓												
19	352	534	7.012	100	100	✓												
20	353	535	6.990	75	77	✓												
21	354	578	6.933	50	50	✓												
22	355	588	7.081	25	25	✓												
23	356	597	6.993	10	10	✓												
24	357	632	6.983	0	2	✓												

Comments:

ENTERED BY: MR

CHECKED BY:

Bottom Depth: 4154

Cast # down: 20

Cast # up: 20

Time LOC UTC

Begin: 16:10

Bottom: 17:20

End: 18:33

START POSITION (GPS)

LAT: 46 59.83

LONG: 136 50.44

BOTTOM POSITION (GPS)

LAT: 46 59.55

LONG: 136 51.05

END POSITION (GPS)

LAT: 46 59.72

LONG: 136 51.40

ROSETTE LOG

MISSION ID: 9910
STATION NAME: ED2

UTC DATE y/m/d: 99/06/08
CAST NUMBER: 22

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		PP				
1	Ed01			75	75	✓	✓			✓				✓				
2	Ed02			50	50	✓	✓			✓				✓				
3	Ed03			25	10	✓	✓			✓				✓				
4	Ed04			10	10	✓	✓			✓				✓				
5	Ed05			0	1.3	✓	✓			✓				✓				
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: 22
Cast # up: 22

Time	LOC	UTC
Begin:	00 34	
Bottom:	00 39	
End:	00 47	

START POSITION (GPS)
LAT: 47 31 56
LONG: 137 27 60

BOTTOM POSITION (GPS)
LAT: 47 31 47
LONG: 137 27 56

END POSITION (GPS)
LAT: 47 31 45
LONG: 137 27 55

F8.0, F7.1, F9.4, F9.4, F7.2, F5.0, F9.4

Comments:

ROSETTE LOG

MISSION ID:

9910

UTC DATE y/m/d:

99/6/8

STATION NAME:

Ed2

CAST NUMBER:

23

SHIP: J. P. TULLY

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

ROSETTE OPERATION		Samples taken											
Trip	Confirmed	SAL		NUT		ALK		TCO	FRE				
pressure	Salinity		OXY		CHL		C13						
1	358	1198	3.138	8-10	✓								
2	359	1201	3.036	4000	✓								
3	360	1202	2.876	3500	✓								
4	361	1203	2.508	3000	✓								
5	362	1204	2.269	2750	✓								
6	363	1206	1.909	2500	✓								
7	364	1209	1.603	2250	✓								
8	365	1210	1.261	2000	✓								
9	366	1241	0.966	1750	✓								
10	367	1212	0.567	1500	✓								
11	368	1215	0.381	1250	✓								
12	369	1216	0.450	1000	✓								
13	370	1218	0.514	800	✓								
14	371	1219	0.955	600	✓								
15	372	1222	2.112	400	✓								
16	373	1223	2.482	300	✓								
17	374	1224	3.177	200	✓								
18	375	1225	4.622	150	✓								
19	376	1228	6.818	100	✓								
20	377	1230	6.912	75	✓								
21	378	1231	6.940	50	✓								
22	379	1233	6.981	25	✓								
23	380	1234	6.984	10	✓								
24	381	1235	6.435	* 0	✓								

ENTERED BY: ML

CHECKED BY:

Bottom Depth: 4092

Cast # down: 23

Cast # up: 23

Time LOC UTC

Begin: 0124

Bottom: 0239

End: 0409

START POSITION (GPS)

LAT: 47 31.90

LONG: 137 27 60

BOTTOM POSITION (GPS)

LAT: 47 32 49

LONG: 137 26 76

END POSITION (GPS)

LAT: 47 32.36

LONG: 137 24.45

Comments:

* NO MAGNET - READING WRONG

ROSETTE LOG

MISSION ID:

9910

UTC DATE y/m/d:

June 8, 1999

STATION NAME:

PIE99

CAST NUMBER:

24

SHIP: JPTULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken													
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO							
								OXY		CHL		C13								
1	382	84	3.142	B-	4224	✓														
2	383	712	3.170	4000	4002	✓														
3	384	333	2.923	3500	3502	✓														
4	385	337	2.520	3000	3000	✓														
5	386	255	2.380	2750	2749	✓														
6	387	572	No	2500	2499	✓														
7	388	364	SAMPLE	2250	2251	✓														
8	389	392	X3	2000	2000	✓														
9	390	425	1.030	1750	1750	✓														
10	391	443	0.638	1500	1500	✓														
11	392	467	0.365	1250	1248	✓														
12	393	486	0.451	1000	1002	✓														
13	394	509	0.417	800		✓														
14	395	534	0.834	600		✓														
15	396	535	2.132	400		✓														
16	397	578	2.693	300		✓														
17	398	580	3.405	200		✓														
18	399	597	4.444	150		✓														
19	400	632	6.944	100		✓														
20	401	638	7.021	75		✓														
21	402	641	6.997	50		✓														
22	403	650	7.004	25		✓														
23	404	657	6.986	10		✓														
24	405	695	No Sample	0		✓														

ENTERED BY: MR

CHECKED BY:

Bottom Depth: 41106

Cast # down: 24

Cast # up: 24

Time LOC UTC

Begin: 08:08 0817

Bottom: 0935

End: 1122

START POSITION (GPS)

LAT: 46° 57.89

LONG: 137° 57.89

BOTTOM POSITION (GPS)

LAT: 46° 59.18

LONG: 137° 58.08

END POSITION (GPS)

LAT: 46 58 64

LONG: 137 58.22

Comments:

Computer slow by 15 min

END time good

Bottle 24: spigot pushed in, no samples

done

ROSETTE LOG

MISSION ID: 9910
STATION NAME: PIE98

UTC DATE y/m/d: 99/06/28
CAST NUMBER: 25

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	9801			75		✓	✓											
2	9802			50		✓	✓											
3	9803			25		✓	✓											
4	9804			10		✓	✓											
5	9805			0		✓	✓											
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: 3527

Cast # down: 25
Cast # up: 25

Time	LOC	UTC
Begin:		1552
Bottom:		1556
End:		1559

START POSITION (GPS)
LAT: 47 0 10
LONG: 139 04 02

BOTTOM POSITION (GPS)
LAT: 47 0 10
LONG: 139 4 02

END POSITION (GPS)
LAT: 47 0 14
LONG: 139 04 00

Comments:

primary productivity

ROSETTE LOG

MISSION ID: 9910
STATION NAME: PIE 98UTC DATE y/m/d: 9/6/8
CAST NUMBER: 26SHIP: J.P. TULLYNiskin Sample OXY. OXY. Sample
No. No. Flask Temp. Depth

ROSETTE OPERATION		Samples taken													
Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO							
		OXY		CHL		C13		FRC							
1	406	1139	3.118	B-10		✓									
2	407	1141	3.148	4000		✓									
3	408	1142	2.998	3500		✓									
4	409	1197	2.659	3000		✓									
5	410	1146	2.600	3000		✓									
6	411	1148	2.363	2750		✓									
7	412	1150	1.705	2250		✓									
8	413	1153	1.384	2000		✓									
9	414	1154	1.178	1750		✓									
10	415	1158	0.665	1500		✓									
11	416	1168	0.391	1250		✓									
12	417	1171	0.356	1000		✓									
13	418	1174	0.438	800		✓									
14	419	1175	0.763	600		✓									
15	420	1176	1.807	400		✓									
16	421	1177	2.596	300		✓									
17	422	1178	3.689	200		✓									
18	423	1180	4.059	150		✓									
19	424	1182	6.726	100		✓									
20	425	1188	6.974	75		✓									
21	426	1189	6.690	50		✓									
22	427	1190	6.491	25		✓									
23	428	1191	6.975	10		✓									
24	429	1192	6.965	0		✓									

ENTERED BY: cr

CHECKED BY:

Bottom Depth: 4285 mCast # down: 26Cast # up: 26

Time	LOC	UTC
Begin:		<u>1630</u>
Bottom:		<u>17:50</u>
End:		

START POSITION (GPS)		
LAT:	<u>46</u>	<u>59</u> <u>99</u>
LONG:	<u>139</u>	<u>04</u> <u>15</u>

BOTTOM POSITION (GPS)		
LAT:	<u>47</u>	<u>00</u> <u>15</u>
LONG:	<u>139</u>	<u>04</u> <u>83</u>

END POSITION (GPS)		
LAT:	<u>47°</u>	<u>0.05</u>
LONG:	<u>139</u>	<u>5.45</u>

Comments: Bottle 4 did not show that it tripped so I tripped it again before it showed up on screen (tripped 415 at 3000m) ended up skipping 2500 m bottle to compensate for the mistake

ROSETTE LOG

MISSION ID:

9910

UTC DATE y/m/d:

99/6/9

SHIP: JP TULLY

STATION NAME:

PIE97

CAST NUMBER:

27

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO	FRE				
							OXY		CHL	X2	Cl3							
1	430	1198	3.279	13-10	4392	✓												
2	431	1201	3.187	4000		✓												
3	432	1202	2.992	3500		✓												
4	433	1203	2.598	3000		✓												
5	434	1204	2.353	2750		✓												
6	435	1206	2.038	2500		✓												
7	436	1209	1.708	2250		✓												
8	437	1210	1.339	2000		✓												
9	438	1211	1.000	1750		✓												
10	439	1212	0.639	1500		✓												
11	440	1215	0.503	1250		✓												
12	441	1216	0.444	1000		✓												
13	442	1218	0.624	800		✓												
14	443	1219	0.976	600		✓												
15	444	1222	1.721	400		✓												
16	445	1223	2.443	300		✓												
17	446	1224	3.582	200		✓												
18	447	1225	4.314	150		✓												
19	448	1228	6.824	100		✓												
20	449	1230	6.996	75		✓												
21	450	1231	7.007	50		✓												
22	451	1233	7.042	25		✓												
23	452	1234	7.000	10		✓												
24	453	1235	7.000	0		✓												

Comments:

ENTERED BY:

W

CHECKED BY:

Bottom Depth: 4325

Cast # down: 27

Cast # up: 27

Time LOC UTC

Begin: 0019

Bottom: 0138

End: 0320

START POSITION (GPS)

LAT: 46 59.92

LONG: 140 13.45

BOTTOM POSITION (GPS)

LAT: 46 59.24

LONG: 140 14.17

END POSITION (GPS)

LAT: 46 59.19

LONG: 140 16.89

done

ROSETTE LOG

MISSION ID:

STATION NAME:

UTC DATE y/m/d:

CAST NUMBER:

SHIP: JP TULLY

ENTERED BY: MO

CHECKED BY:

Cast # down:

Cast # up:

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

Begin: 09:54

Bottom: 09.16

End:

START POSITION (GPS)

LAT: 47 0.07

LONG: 141 2.16

BOTTOM POSITION (GPS)

LAT: 47 0.26

LONG: 141 21 59

END POSITION (GPS)

LAT: 47 0.05

LONG: 141 27.79

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		<i>FRE</i>			
B-10	✓										
4000	✓										
3500	✓										
3000	✓										
2750	✓										
2500	✓										
2250	✓										
2000	✓										
1750	✓										
1500	✓										
1250	✓										
1000	✓										
800	✓										
600	✓										
400	✓										
300	✓										
200	✓										
150	✓										
100	✓										
75	✓										
50	✓										
25	✓										
10	✓										
0	✓	↓	↓	↓				↓			

Comments:

Done

ROSETTE LOG

MISSION ID:

STATION NAME:

UTC DATE y/m/d:

CAST NUMBER:

SHIP: J. P. TULLY

ENTERED BY:

CHECKED BY:

Bottom Depth: 4494

Cast # down: 29

Cast # up: 29

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

Begin: 0820 1520

Bottom: 0946 1646

End:	1814
------	------

START POSITION (GPS)

LAT: 47 00 07

LONG: 142 26 36

BOTTOM POSITION (GPS)

LAT: 47 0 61

LONG: 142 216 46

END POSITION (GPS)

LAT: 47 01 38

LONG: 147 26 48

[illegible]

Comments:

ROSETTE LOG

MISSION ID: 9910
STATION NAME: PIE94

UTC DATE y/m/d: 99/6/20
CAST NUMBER: 30

SHIP: SP 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		FRE				

1	502	1198	3.352	13-10	4659	✓							
2	503	1201	3.237	4000	4000	✓							
3	504	1202	3.014	3500		✓							
4	505	1203	2.649	3000		✓							
5	506	1204	2.336	2750		✓							
6	507	1206	2.016	2500		✓							
7	508	1209	1.658	2250		✓							
8	509	1210	1.322	2000		✓							
9	510	1237	0.918	1750		✓							
10	511	1212	0.522	1500		✓							
11	512	1215	0.436	1250		✓							
12	513	1216	0.568	1000		✓							
13	514	1218	0.542	800		✓							
14	515	1219	0.835	600		✓							
15	516	1222	1.861	400		✓							
16	517	1223	2.460	300		✓							
17	518	1224	3.571	200		✓							
18	519	1225	4.123	150		✓							
19	520	1228	7.138	100		✓							
20	521	1230	7.229	75		✓							
21	522	1231	7.229	50		✓							
22	523	1233	7.202	25		✓							
23	524	1234	7.151	10		✓							
24	525	1235	7.094	0		✓							

ENTERED BY:
CHECKED BY:

Bottom Depth: 4577

Cast # down: 30
Cast # up: 30

Time	LOC	UTC
Begin:		2250
Bottom:		0011
End:		

START POSITION (GPS)
LAT: 46 59 83
LONG: 143 29.66

BOTTOM POSITION (GPS)
LAT: 46 59 75
LONG: 143 28 35

END POSITION (GPS)
LAT:
LONG:

Comments:

ROSETTE LOG

MISSION ID:

9910

UTC DATE y/m/d:

99 06 10

STATION NAME:

PIE93

CAST NUMBER:

31

SHIP: JPTVCLY

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

ROSETTE OPERATION
Trip Confirmed
pressure Salinity

Samples taken
SAL OXY NUT CHL ALK C13 TCO
FRED

1	526	255	3.309	8-10	4753	✓		✓	✓	✓									
2	527	333	3.257	4000	3991	✓													
3	528	337	3.039	3500	3500	✓													
4	529	364	NO SAMPLE	3000	2997	✓													
5	530	392	2.352	2750	2747	✓													
6	531	425	1.994	2500	2499	✓													
7	532	443	1.641	2250	2248	✓													
8	533	467	1.322	2000	2000	✓													
9	534	486	0.969	1750	1750	✓													
10	535	509	0.665	1500	1501	✓													
11	536	534	0.479	1250	1250	✓													
12	537	535	0.541	1000	1000	✓													
13	538	572	0.440	800	800	✓													
14	539	578	0.781	600	601	✓													
15	540	580	1.716	400	400	✓													
16	541	597	2.413	300	300	✓													
17	542	632	3.652	200	201	✓													
18	543	638	4.370	150	151	✓													
19	544	641	6.975	100	100	✓													
20	545	650	7.138	75	75	✓													
21	546	657	7.151	50	50	✓													
22	547	695	7.172	25	25	✓													
23	548	697	7.190	10	10	✓													
24	549	707	7.031	0	2	✓													

Comments: Bot/E #41 (529) - bottom cap on Niskin did not seal, so no sample.

ENTERED BY: M2

CHECKED BY:

Bottom Depth: 4674

Cast # down: 31

Cast # up: 31

Time LOC UTC

Begin: 2358L 0658

Bottom:

End: 0257 0955

START POSITION (GPS)

LAT: 46° 59.93 N

LONG: 144° 40.11 W

BOTTOM POSITION (GPS)

LAT: 46° 59.62 N

LONG: 144° 39.47 W

END POSITION (GPS)

LAT: 46 59.38

LONG: 144 39.83

ROSETTE LOG

MISSION ID:

9910

UTC DATE y/m/d:

99/06/10

STATION NAME:

P1E92

CAST NUMBER:

32

SHIP: J. P. TULLY

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

ROSETTE OPERATION

Trip
pressureConfirmed
Salinity

SAL

✓

✓

OXY

NUT

✓

✓

CHL

ALK

✓

✓

C13

TCO

✓

✓

Fre

✓

Samples taken

1	550	1139	3.281	15-20	✓														
2	551	1141	3.210	4000	✓														
3	552	1142	3.654	3500	✓														
4	553	1197	NO SAMPLE	3000	✓														
5	554	1146	2.347	2750	✓														
6	555	1148	2.019	2500	✓														
7	556	1150	1.636	2250	✓														
8	557	1153	1.327	2000	✓														
9	558	1154	0.915	1750	✓														
10	559	1158	0.529	1500	✓														
11	560	1168	0.385	1250	✓														
12	561	1171	0.408	1000	✓														
13	562	1174	0.511	800	✓														
14	563	1175	0.864	600	✓														
15	564	1176	1.891	400	✓														
16	565	1177	2.753	300	✓														
17	566	1178	3.884	200	✓														
18	567	1180	5.963	150	✓														
19	568	1188	7.097	100	✓														
20	569	1193	7.162	75	✓														
21	570	1189	7.173	50	✓														
22	571	1190	7.136	25	✓														
23	572	1191	7.080	10	✓														
24	573	1192	6.981	0	✓														

ENTERED BY:

CHECKED BY:

Bottom Depth: 4782

Cast # down: 32

Cast # up: 32

Time LOC UTC

Begin: 1455

Bottom: 16:28

End: 18:04

START POSITION (GPS)

LAT: 46 59.77

LONG: 145 48.53

BOTTOM POSITION (GPS)

LAT: 46.58.76

LONG: 145 48.32

END POSITION (GPS)

LAT: 46 58.97

LONG: 145.49.46

Comments:

Bottle #4 caught on cable. No water left @ surface

ROSETTE LOG

MISSION ID: 9910
STATION NAME: P26UTC DATE y/m/d: 99/06/13
CAST NUMBER: 34SHIP: TULLYNiskin Sample OXY. OXY. Sample
No. No. Flask Temp. Depth

ROSETTE OPERATION			Samples taken												T	
Trip	Confirmed	Salinity	SAL		NUT		ALK		TCO	FR	DMG	NH ₄				
pressure			OXY		CHL		C13					X2				
4281	✓	34.661	✓	✓	✓		✓	✓	✓	✓				1.51		
3997	✓	34.658	✓	✓	✓		✓	✓	✓	✓						
3498	✓	34.649	✓	✓	✓		✓	✓	✓	✓						
3000	✓	34.633	✓	✓	✓		✓	✓	✓	✓				1.57		
2750	✓	34.623	✓	✓	✓		✓	✓	✓	✓				1.62		
2500	✓	34.607	✓	✓	✓		✓	✓	✓	✓				1.70		
2250	✓	34.586	✓	✓	✓		✓	✓	✓	✓				1.81		
2000	✓	34.563	✓	✓	✓		✓	✓	✓	✓				1.92		
1750	✓	34.527	✓	✓	✓		✓	✓	✓	✓				2.10		
1500	✓	34.481	✓	✓	✓		✓	✓	✓	✓				2.32		
1237	✓	34.423	✓	✓	✓		✓	✓	✓	✓				2.60		
1001	✓	34.340	✓	✓	✓		✓	✓	✓	✓				2.97		
800	✓	34.264	✓	✓	✓		✓	✓	✓	✓				3.31		
600	✓	34.150	✓	✓	✓		✓	✓	✓	✓				3.76		
401	✓	34.009	✓	✓	✓		✓	✓	✓	✓	✓	✓		4.32		
301	✓	33.876	✓	✓	✓		✓	✓	✓	✓	✓	✓		4.28		
200	✓	33.814	✓	✓	✓		✓	✓	✓	✓	✓	✓		5.10		
150	✓	33.826	✓	✓	✓		✓	✓	✓	✓	✓	✓		6.03		
101	✓	32.947	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		5.22		
74	✓	32.903	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		5.53		
49	✓	32.844	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		6.35		
23	✓	32.832	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		6.97		
15	✓	32.831	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		6.47	not close	
1.9	✓	32.822	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		6.97	not close	

ENTERED BY: R.P.

CHECKED BY:

Bottom Depth: 4247

Cast # down:

Cast # up:

Time ~~LOC~~ UTCBegin: 1536Bottom: 1656End: 1820

START POSITION (GPS)

LAT: 49 59.90LONG: 145 00.33

BOTTOM POSITION (GPS)

LAT: 49 59.78LONG: 145 01.78

END POSITION (GPS)

LAT: 49 59.121LONG: 145 01.59

Comments:

2 Bottles not closed! Finger trouble I'm sure.

ROSETTE LOG

MISSION ID: 9910
STATION NAME: P-20

UTC DATE y/m/d: 99 06 17
CAST NUMBER: 35

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken													
					Trip pressure	Confirmed Salinity	SAL		NUT	ALK	TCO	CH2	DMS							
								OXY		C13				NH4						
1	621			400	400	✓	✓						✓	✓						
2	622			300	300	✓	✓						✓	✓						
3	623			250	250	✓	✓						✓	✓						
4	624			200	200	✓	✓						✓	✓						
5	625			175	175	✓	✓						✓	✓						
6	626			150	150	✓	✓						✓	✓						
7	627			125	125	✓	✓						✓	✓						
8	628			100	100	✓	✓				✓		✓	✓						
9	629			80	80	✓	✓				✓		✓	✓						
10	630			60	60	✓	✓				✓		✓	✓						
11	631			50	50	✓	✓		✓				✓	✓						
12	632			40	40	✓	✓						✓	✓						
13	633			30	30	✓	✓						✓	✓						
14	634			20	20	✓	✓		✓				✓	✓						
15	635			15	15	✓	✓						✓	✓						
16	636			10	10	✓	✓						✓	✓						
17	637			5	5	✓	✓		✓				✓	✓						
18	638			2	0	✓	✓						✓	✓						
19																				
20																				
21																				
22																				
23																				
24																				

ENTERED BY:
CHECKED BY:

Bottom Depth: 3890

Cast # down: 35
Cast # up: 35

Time	LOC	UTC
Begin:		1941
Bottom:		20:07
End:		20:32

19:58

START POSITION (GPS)
LAT: 49 34.00
LONG: 138 39.65

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

PAR

Comments:

F5.0, F7.1, F9.4, F9.4, F9.4, F9.4, F8.2, F11.4, F5.0, F8.3
F8.3

ROSETTE LOG

MISSION ID: 9910
STATION NAME: P20

UTC DATE y/m/d: 99 06 17
CAST NUMBER: 36

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		HAA				

1	639	1195	3.614	8-10	4015	✓		✓	✓	✓	✓	✓	✓	✓	✓		
2	640	1141	3.221	3500		✓		✓	✓	✓	✓	✓	✓	✓	✓		
3	641	1142	2.971	3000		✓		✓	✓	✓	✓	✓	✓	✓	✓		
4	642	1146	2.502	2750		✓		✓	✓	✓	✓	✓	✓	✓	✓		
5	643	1148	3.617	2500		✓		✓	✓	✓	✓	✓	✓	✓	✓		
6	644	1150	1.858	2250		✓		✓	✓	✓	✓	✓	✓	✓	✓		
7	645	1153	1.720	2000		✓		✓	✓	✓	✓	✓	✓	✓	✓		
8	646	1154	1.374	1750		✓		✓	✓	✓	✓	✓	✓	✓	✓		
9	647	1158	1.166	1500		✓		✓	✓	✓	✓	✓	✓	✓	✓		
10	648	1168	0.998	1250		✓		✓	✓	✓	✓	✓	✓	✓	✓		
11	649	1171	0.893	1000		✓		✓	✓	✓	✓	✓	✓	✓	✓		
12	650	1174	1.024	800		✓		✓	✓	✓	✓	✓	✓	✓	✓		
13	651	1175	0.764	600		✓		✓	✓	✓	✓	✓	✓	✓	✓		
14	652	1176	1.406	400		✓		✓	✓	✓	✓	✓	✓	✓	✓		
15	653	1177	2.155	300		✓		✓	✓	✓	✓	✓	✓	✓	✓		
16	654	1178	3.108	200		✓		✓	✓	✓	✓	✓	✓	✓	✓		
17	655	1180	3.750	150		✓		✓	✓	✓	✓	✓	✓	✓	✓		
18	656	1188	7.645	100	CUPS	✓		✓	✓	✓	✓	✓	✓	✓	✓		
19	657	1189	7.156	75		✓		✓	✓	✓	✓	✓	✓	✓	✓		
20	658	1190	7.056	50		✓		✓	✓	✓	✓	✓	✓	✓	✓		
21	659	1191	6.979	25		✓		✓	✓	✓	✓	✓	✓	✓	✓		
22	660	1192	6.969	10		✓		✓	✓	✓	✓	✓	✓	✓	✓		
23	661	1193	6.966	0		✓		✓	✓	✓	✓	✓	✓	✓	✓		
24																	

ENTERED BY:
CHECKED BY:

Bottom Depth: 4015?

Cast # down: 36
Cast # up: 36

Time	LOC	UTC
Begin:		2249
Bottom:		2249
End:		

START POSITION (GPS)
LAT: 49 34.10
LONG: 138 39.96

BOTTOM POSITION (GPS)
LAT: 49 34 04
LONG: 138 40 03

END POSITION (GPS)
LAT:
LONG:

Comments:

done

ROSETTE LOG

MISSION ID: 9910
STATION NAME: P18

UTC DATE y/m/d: JUNE 19/99
CAST NUMBER: 39

SHIP: J.P. TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13		DOC				
1	686			2000										✓				
2	687			2000										✓				
3	688			2000										✓				
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: H.M.
CHECKED BY:

Bottom Depth: 3842

Cast # down: 39
Cast # up: 39

Time	LOC	UTC
Begin:		0112
Bottom:		0142
End:		0211

START POSITION (GPS)
LAT: 49 25 83
LONG: 136 40 12

BOTTOM POSITION (GPS)
LAT: 49 25 51
LONG: 136 40 24

END POSITION (GPS)
LAT: 49 25 28
LONG: 136 40 63

Comments:

ROSETTE LOG

MISSION ID:**STATION NAME:**

UTC DATE y/m/d:

CAST NUMBER:

SHIP: I A TULLY

ENTERED BY: 14. 11

CHECKED BY:

Bottom Depth: 3645

Cast # down: 42

Cast # up: 4.2

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

Begin: 1409

Bottom: 1417

End: 0741 1441

START POSITION (GPS)

LAT: 49 16 25

LONG: 134 39 22

BOTTOM POSITION (GPS)

LAT: 49 16 10

LONG: 134 39 20

END POSITION (GPS)

LAT: 49 15 53

LONG: 134 39 07

PAK

done

[illegible]

Comments:

ROSETTE LOG

MISSION ID:

9910

UTC DATE y/m/d:

99/06/19

STATION NAME:

P16

CAST NUMBER:

43

SHIP: TULCY

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

ROSETTE OPERATION

Trip
pressureConfirmed
Salinity

SAL

OXY

NUT

CHL

ALK

CI3

TCO

FRE

UN

Samples taken

1	707	255	3.325	807-20	3679			x	x	x		x		x	x				
2	708	333	3.614	3500	3500														
3	709	337	2.936	3000	3000														
4	710	364	2.696	2750	2750														
5	711	392	2.533	2500	2500														
6	712	425	2.098	2250	2250														
7	713	443	2.057	2000	2000														
8	714	467	1.441	1750	1749														
9	715	486	1.230	1500	1500														
10	716	509	1.382	1250	1250														
11	717	534	1.376	1000	1000														
12	718	535	0.885	800	800														
13	719	572	0.944	600	600														
14	720	578	1.492	400	400														
15	721	588	1.939	300	300														
16	722	597	3.273	200	200														
17	723	632	3.496	150	151														
18	724	638	4.974	100	100														
19	725	641	7.007	75	75														
20	726	650	?	50	50														
21	727	657		25	25														
22	728	695	6.891	10	10														
23	729	697	6.857	0	1			x	x	x		x		x	x				
24																			

Comments:

ENTERED BY:

Tim Soutar

CHECKED BY:

Tim Soutar

Bottom Depth:

3642

Cast # down:

43

Cast # up:

43

Time

LOC

UTC

Begin:

1616

Bottom:

1722

End:

START POSITION (GPS)

LAT: 49 16.40 N

LONG: 134 41.53 W

BOTTOM POSITION (GPS)

LAT: 49 16 11

LONG: 134 41 15

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 9910
STATION NAME: P12

UTC DATE y/m/d: 99/06/19/20
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								

ENTERED BY:
CHECKED BY:

Bottom Depth: 3027

Cast # down: 47
Cast # up: 47

Time	LOC	UTC
Begin:		2356
Bottom:		0003
End:		

START POSITION (GPS)
LAT: 48 58 23
LONG: 130 40 17

BOTTOM POSITION (GPS)
LAT: 48 58 24
LONG: 130 40 20

END POSITION (GPS)
LAT:
LONG:

PAR

1	730	✓	1.454	400	401	✓													
2	731		2.479	300		✓													
3	732		2.783	250		✓													
4	733		3.242	200		✓													
5	734		3.383	175		✓													
6	735		3.804	150		✓													
7	736		4.235	125		✓													
8	737	467	5.327	100		✓													
9	738		6.422	80		✓													
10	739		6.892	60		✓													
11	740		6.091	50		✓								X					
12	741		6.917	40		✓													
13	742		6.831	30		✓													
14	743		6.766	20		✓								X					
15	744		6.777	15		✓													
16	745		6.817	10		✓													
17	746		6.710	5		✓								X					
18	747			0															
19																			
20																			
21																			
22																			
23																			
24																			

Did not trip.

Comments:

major bubbles in tubes
tried to clean out.

done

ROSETTE LOG

MISSION ID:

9910

UTC DATE y/m/d:

99/06/21

STATION NAME:

P12

CAST NUMBER:

49

SHIP: J.P. TULLY

ENTERED BY:

DARREN ZIE Hush

CHECKED BY:

Hush

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL	✓	NUT		ALK		TCO	FRE				
							✓	OXY	✓	CHL	✓	C13	✓	✓				
1	748	1195	2.486	13-10	3278	✓												
2	749	1141	2.256	3000		✓												
3	750	1142	2.095	2750		✓												
4	751	1146	1.864	2500		✓												
5	752	1148	1.696	2250		✓												
6	753	1150	1.544	2000		✓												
7	754	1153	1.121	1750		✓												
8	755	1154	0.709	1500		✓												
9	756	1158	0.444	1250		✓												
10	757	1168	0.326	1000		✓												
11	758	1171	0.328	800		✓												
12	759	1174	0.393	680		✓												
13	760	1175	1.281	400		✓												
14	761	1176	2.151	300		✓												
15	762	1177	3.111	200		✓												
16	763	1178	3.816	150		✓												
17	764	1180	5.527	100		✓												
18	765	1188	6.849	75		✓												
19	766	1189	7.000	50		✓												
20	767	1190	6.906	25		✓												
21	768	1191	6.717	10		✓												
22	769	1193	6.722	0		✓												
23																		
24																		

Comments:

Bottom Depth:

3251

Cast # down:

49

Cast # up:

49

Time LOC UTC

Begin:

1334

Bottom:

1423

End:

0833

1533

START POSITION (GPS)

LAT:

48 58 36

LONG:

130 40 12

BOTTOM POSITION (GPS)

LAT:

48 58 45

LONG:

130 40 43

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 9910
STATION NAME: P04

UTC DATE y/m/d: 1999/06/22
CAST NUMBER: 57

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		COC	DMS			
1	770			400	401	✓		X	X	X					X			
2	771			300	300	✓												
3	772		3.314	250	250	✓												
4	773		2.351	200	200	✓												
5	774		2.455	175	176	✓												
6	775		2.744	150	149	✓												
7	776		2.691	125	125	✓												
8	777		3.420	100	99	✓					X							
9	778		4.926	80	80	✓												
10	779		6.011	60	60	✓												
11				24.5 30	24.9	✓												
12				" 30	24.8	✓												
13				" 30	25.4	✓												
14				" 30	24.5	✓												
15				" 30	24.6	✓												
16				" 30	25.2	✓												
17	780		5.783	50	51	✓								X				
18	781		5.804	40	39	✓												
19	782		5.759	30	29	✓									X			
20	783		6.394	20	20	✓								X				
21	784		6.762	15	15	✓												
22	785		6.794	10	9.5	✓												
23	786		6.744	5	5	✓								X				
24	787		6.725	0	1.4			X	X	X	X				X			

ENTERED BY: DT
CHECKED BY:

Bottom Depth: 1329

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		1954
Bottom:		2002
End:		

June 22, 1999

START POSITION (GPS)
LAT: 48 38.97
LONG: 126 35.282

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

250m curve dropped off?

done

ROSETTE LOG

MISSION ID: 9910
STATION NAME: P4

UTC DATE y/m/d: 1999/06/22
CAST NUMBER: 58

SHIP: TULLY

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

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

1	744	1195	0.948	B-10	1335	✓		✓	✓	✓		✓	✓						
2	789	1141	1.052	1250	1250	✓		✓	✓	✓		✓	✓						
3	790	1142	0.888	1000	1000	✓		✓	✓	✓		✓	✓						
4	791	1146	0.966	800	800	✓		✓	✓	✓		✓	✓						
5	792	1148	1.116	600	600	✓		✓	✓	✓		✓	✓						
6	793	1150	1.450	400	400	✓		✓	✓	✓		✓	✓						
7	794	1153	1.808	300	300	✓		✓	✓	✓		✓	✓						
8	795	1154	2.943	200	200	✓		✓	✓	✓		✓	✓						
9	796	1158	2.944	150	149	✓		✓	✓	✓		✓	✓						
10	797	1168	3.601	100	100	✓		✓	✓	✓		✓	✓						
11	798	1171	5.390	75	75	✓		✓	✓	✓		✓	✓						
12	799	1174	5.954	50	50	✓		✓	✓	✓		✓	✓						
13	800	1175	5.941	25	25	✓		✓	✓	✓		✓	✓						
14	801	1176	6.776	10	10	✓		✓	✓	✓		✓	✓						
15	802	1177	6.747	0	0	✓		✓	✓	✓		✓	✓						
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 1329

Cast # down: 58
Cast # up: 58

Time	LOC	UTC
Begin:		2138
Bottom:		2158
End:		2228

START POSITION (GPS)
LAT: 48 38 96
LONG: 126 40 24

BOTTOM POSITION (GPS)
LAT: 48 38 96
LONG: 126 40 55

END POSITION (GPS)
LAT: 48 38 98
LONG: 126 40 92

Done