

Rosette Log

CRUISE ID: 9608
STATION NAME: 0'-II-1UTC DATE y/m/d: 96/04/11
CAST NO.: 12SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC	OXY	TCO	CI3	ALK	NUT	SAL	CHL	POC	PO4	ISO	ml/l Serial # °C / dbar
1	2-1	1179	7.2	200	201.2	33.928		✓				✓	✓	✓	✓	✓	✓	2785
2	2-2			200									✓				✓	
3	2-3			200									✓				✓	
4	2-4			200									✓				✓	
5	2-5	1180	7.7	150	147.8	33.760		✓				✓	✓		✓	✓	✓	3199
6	2-6			150									✓				✓	
7	2-7			150									✓				✓	
8	2-8			150									✓				✓	
9	2-9	1181	8.0	125	125.7	33.632		✓				✓	✓		✓	✓	✓	3428
10	2-10			125									✓				✓	
11	2-11			125									✓				✓	
12	2-12			125									✓				✓	
13	2-13	1182	8.0	100	101.6	33.285		✓				✓	✓		✓	✓	✓	4525
14	2-14			100									✓				✓	
15	2-15			100									✓				✓	
16	2-16			100									✓				✓	
17	2-17	1183	8.3	75	77.7	32.537		✓				✓	✓		✓	✓	✓	6582
18	2-19			75									✓				✓	
19	2-20			75									✓				✓	
20	2-			75									✓				✓	
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down: 01
Cast # up: 02

Time	LOC	UTC
Begin:		0513
Bottom:		0520
End:		0537

START POSITION (GPS)
LAT: 49 07 96
LONG: 127 44 04BOTTOM POSITION (GPS)
LAT: 48 8 03
LONG: 127 43 92END POSITION (GPS)
LAT: 49 8 15
LONG: 127 43 55

Comments:

Rosette Log

CRUISE ID: 9608
STATION NAME: Site 0UTC DATE y/m/d: 960411
CAST NO.: 4SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	4-1			500	501	✓							✓				✓	
2	4-2			600		✓							✓				✓	
3	4-3			200	200	✓	33.923						✓				✓	
4	4-4			200		✓							✓				✓	
5	4-5			200		✓							✓				✓	
6	4-6			200		✓							✓				✓	
7	4-7			200		✓							✓				✓	
8	4-8			50	50	✓	32.468						✓				✓	
9	4-9			50		✓							✓				✓	
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 2500Cast # down: 3Cast # up: 4

Time	LOC	UTC
Begin:		0822
Bottom:		0830
End:		

START POSITION (GPS)	
LAT:	49 07.65
LONG:	127 44.03

BOTTOM POSITION (GPS)	
LAT:	49 07.67
LONG:	127 43.89

END POSITION (GPS)	
LAT:	
LONG:	

Comments:

Rosette Log

CRUISE ID:

9608

UTC DATE y/m/d:

9604/2

SHIP: Twilly

STATION NAME:

Site "0"

CAST NO.:

56

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		1179	5.9	300	302,	✓33.9629	✓				✓	✓	✓				2,139	
2		1180	5.8	300		✓	✓						✓				2,144	
3		1181	5.9	300		✓	✓						✓				2,148	
4		1182	5.9	300		✓	✓						✓				2,145	
5		1183	5.9	300		✓	✓						✓				2,128	
6		1184	6.5	250	249.6	✓33.9236	✓				✓	✓	✓				2,931	
7		1186	6.4	250		✓	✓						✓				2,944	
8		1187	6.4	250		✓	✓						✓				3,010	
9		1188	6.4	250		✓	✓						✓				2,956	
10		1189	8.4	50	49.9	✓32.4478	✓				✓	✓	✓				6,797	
11		1190	8.4	50		✓	✓						✓				6,804	
12		1191	8.5	50		✓	✓						✓				6,790	
13		1192	8.5	30	29.9	✓32.4320	✓				✓	✓	✓				6,816	
14		1193	8.6	30		✓	✓						✓				6,836	
15		1194	8.6	30		✓	✓						✓				6,829	
16		1195	8.9	20	19.7	✓32.2117	✓				✓	✓	✓				6,835	
17		1196	8.9	20		✓	✓						✓				6,863	
18		1197	8.9	20		✓	✓						✓				6,865	
19		1198	9.1	10	9.1	✓32.1616	✓				✓	✓	✓				6,781	
20		1199	9.1	10		✓	✓						✓				6,772	
21		1200	9.0	10		✓	✓						✓				6,782	
22																		
23																		

Comments:

21 bottles closed.

ENTERED BY:

CHECKED BY:

Bottom Depth: 2451.

Cast # down: 5

Cast # up: 6

Time LOC UTC

Begin: 0046

Bottom: 0053:19

End: 01:12:22

START POSITION (GPS)

LAT: 49 07.71

LONG: 127 44.26

BOTTOM POSITION (GPS)

LAT: 49 07.80

LONG: 127 44.26

END POSITION (GPS)

LAT: 49 07.46

LONG: 127 44.06

CTD & 304. db

Rosette Log

CRUISE ID:

9608

UTC DATE y/m/d:

96/04/12

SHIP:

Tully

STATION NAME:

O-I

CAST NO.:

8 and 9.

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		22		200		✓												
2		23		200		✓												
3		20		200		✓	no bottle there											
4		1		200		✓												
5		2		200		✓												
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY: BM / KLD
CHECKED BY:

Bottom Depth: 2507.

Cast # down: 7 49
Cast # up: 8Time LOC UTC
Begin:
Bottom:
End:START POSITION (GPS)
LAT:
LONG:BOTTOM POSITION (GPS)
LAT:
LONG:END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette pointer not set at null so bottles 22 & 23 on first cast (7-8)
1 & 2 on second (9)

Rosette Log

CRUISE ID:

9608

UTC DATE y/m/d:

96
240413

STATION NAME:

Sta "0"

CAST NO.:

11 and 12.

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		1179	2.2	2000	2002.1	✓ 34.6343		✓				✓	✓				1448	
2		1180	2.2	2000	2002.1	✓ 34.6343		✓				✓	✓				1445	
3		1181	2.2	1900	1899.0	✓ 34.6170		✓				✓	✓		✓	✓	1284	
4				1900		✓										✓		
5			5	1900		✓										✓		
6				1900		✓										✓		
7				1900		✓										✓		
8		1182	2.8	1500	1502.1	✓ 34.5554		✓				✓	✓		✓	✓	.683	
9				1500		✓										✓		
10				1500		✓										✓		
11			5	1500		✓										✓		
12				1500		✓										✓		
13		1183	3.9	1000	1001.0	✓ 34.4208		✓				✓	✓		✓	✓	.299	
14				1000		✓										✓		
15			5	1000		✓										✓		
16				1000		✓										✓		
17				1000		✓										✓		
18		1184	5.0	500	499.7	✓ 34.1112		✓				✓	✓		✓	✓	.825	
19			5	500		✓										✓		
20				500		✓										✓		
21				500		✓										✓		
22				500		✓										✓		
23																		

Comments: 22 bottles closed

ENTERED BY:

CHECKED BY:

Bottom Depth: 2500

Cast # down: 10

Cast # up: 11 & 12

Time LOC UTC

Begin: 0235

Bottom: 0304

End: 0344

START POSITION (GPS)

LAT: 4908.51

LONG: 12745.55

BOTTOM POSITION (GPS)

LAT: 4908.52

LONG: 12745.55

END POSITION (GPS)

LAT: 4908.33

LONG: 12745.62

CTD to 2004.

Rosette Log

CRUISE ID: 9808
STATION NAME: LBP2UTC DATE y/m/d: 96/04/13
CAST NO.: 16SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		1186	9.3	85	85.5	✓ 32.4809		✓				✓	✓				5.744	
2		1187	9.5	75	75.6	✓ 32.2750		✓				✓	✓				6.124	
3		1188	9.6	50	49.4	✓ 31.6484		✓				✓	✓				6.326	
4		1189	9.5	30	29.2	✓ 31.2480		✓				✓	✓				6.477	
5		1190	9.4	20	18.8	✓ 31.0057		✓				✓	✓	✓			6.615	
6		1191	9.4	10	9.8	✓ 30.9139		✓				✓	✓	✓			6.630	
7		1192	9.5	0	-7	✓ 29.8173		✓				✓	✓	✓	✓		6.805	
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY: KLD
CHECKED BY:Bottom Depth: 95Cast # down: 15Cast # up: 16

Time	LOC	UTC
Begin:		<u>2027</u>
Bottom:		<u>2030</u>
End:		<u>2036</u>

START POSITION (GPS)
LAT: 50°04.10
LONG: 127°54.15BOTTOM POSITION (GPS)
LAT: 50 04.10
LONG: 127 54.13END POSITION (GPS)
LAT: 50 04.15
LONG: 127 54.07

Comments:

Rosette Log

 CRUISE ID: 9608
 STATION NAME: LBP4

 UTC DATE y/m/d: 96/04/13
 CAST NO.: 19

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
X 1		1193		800		✓							✓	✓				
2		1194	6.7	600	799.8	✓	34.3045	✓					✓	✓			2.679	Bad
3		1195	5.5	500	600.7	✓	34.1887	✓					✓	✓			.602	
4		1196	5.2	400	500.5	✓	34.1128	✓					✓	✓			.894	
5		1197	5.9	300	403.7	✓	34.0543	✓					✓	✓			1.324	
6		1198	6.4	250	302.0	✓	34.0000	✓					✓	✓			1.899	
7		1199	6.6	200	252.4	✓	33.9738	✓					✓	✓			2.207	
8		1200	7.3	150	204.5	✓	33.9164	✓					✓	✓			2.392	
9		1201	8.0	125	152.0	✓	33.7655	✓					✓	✓			3.236	
10		1202	7.8	100	126.9	✓	33.5549	✓					✓	✓			3.648	
11		1203	8.5	75	101.4	✓	32.9769	✓					✓	✓			4.915	
12		1204	9.0	50	75.1	✓	32.4314	✓					✓	✓			6.230	
13		1205	9.4	30	51.0	✓	32.1022	✓					✓	✓			6.362	
14		1206	9.6	20	30.4	✓	31.7286	✓					✓	✓	✓		6.711	
15		1207	9.5	10	20.6	✓	31.7218	✓					✓	✓	✓		6.637	
16		1208	9.8	0	11.3	✓	31.6816	✓					✓	✓	✓	✓	6.636	
17		1209	9.6		.4		31.6695	✓					✓	✓	✓	✓	6.690	
18																		
19																		
20																		
21																		
22																		
23																		

 ENTERED BY: RF/AP
 CHECKED BY: KD

Bottom Depth: 800

 Cast # down: 19
 Cast # up: 19

Time	LOC	UTC
Begin:		2152
Bottom:		2210
End:		2256

 START POSITION (GPS)
 LAT: 50 01.49
 LONG: 127 57.96

 BOTTOM POSITION (GPS)
 LAT: 50 01.72
 LONG: 127 57.77

 END POSITION (GPS)
 LAT: 50 0.91
 LONG: 127 56.96

** - bottle 2 leaking badly crack by O-ring

Comments: #1 did not close

#2 → #17 closed (fired 16 bottles)

 Depth gauge was wrong
 spigot open

wind was blowing ship & it was shoaling

 16 samples were taken out of bottles
 2 → 17 as labelled
 bottle 9 spigot partly open

Rosette Log

CRUISE ID:

9608

UTC DATE y/m/d:

96/04/14

SHIP:

TULLY

STATION NAME:

LBPL6

CAST NO.:

23 24

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		1210	4.9	770	858.1	✓ 34.3689	✓				✓						1375	
2		1211	4.9	600	596.2	✓ 34.1858	✓				✓						1625	
3		1212	5.4	500	500.4	✓ 34.1227	✓				✓						1853	
4		1213	5.8	400	398.4	✓ 34.0626	✓				✓						1296	
5		1214	6.1	300	302.0	✓ 33.9674	✓				✓						2270	
6		1215	6.6	250	249.6	✓ 33.9811	✓				✓						2276	
7		1216	7.1	200	199.8	✓ 33.9329	✓				✓						2529	
8		1217	7.6	150	150.3	✓ 33.8380	✓				✓						2794	
9		1218	8.0	125	122.9	✓ 33.6771	✓				✓						3109	
10		1219	7.9	100	99.9	✓ 33.4169	✓				✓						4003	
11		1220	8.3	75	74.4	✓ 32.8500	✓				✓						5307	
12		1221	8.4	50	49.4	✓ 32.5022	✓				✓						6374	
13		1222	9.1	30	29.9	✓ 31.9525	✓				✓						6691	
14		1223	9.3	20	20.4	✓ 31.7211	✓				✓		-				6772	
15		1224	9.3	10	8.8	✓ 31.6892	✓				✓		-		✓		6784	
16		1225	9.4	0	1.3	✓ 31.6788	✓				✓		-				6770	
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY: KD

CHECKED BY:

BM

Bottom Depth:

785

Cast # down: 22

Cast # up: 23 24

Time LOC UTC

Begin: 0113

Bottom: 0127

End: 0152

START POSITION (GPS)

LAT: 49 56.18

LONG: 128 5.62

BOTTOM POSITION (GPS)

LAT: 49 56.27

LONG: 128

END POSITION (GPS)

LAT:

LONG:

Comments:

Blowing 35-40 knots

16 closed

Rosette Log

CRUISE ID:

9608

UTC DATE y/m/d:

96/04/14

SHIP:

Tully

STATION NAME:

LJ1

CAST NO.:

26

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	2	1241	10.1	68	53.7	31.685		✓				✓	✓	✓			6.493	
2		1242	9.9	50	48.7	31.587		✓				✓	✓	✓			6.475	
3		1243	10.3	30	29.3	31.092		✓				✓	✓	✓			6.559	
4		1244	10.2	20	19.1	30.340		✓				✓	✓	✓			6.701	
5		1245	10.2	10	11.7	30.168		✓				✓	✓	✓			6.721	from
6		1246	10.2	0	.5	29.736		✓				✓	✓	✓			6.767	
7																		
8																		
9																		
10																		
11																		
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14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:

JL

CHECKED BY:

KD

Bottom Depth:

63

Cast # down:

25

Cast # up:

26

Time

LOC

UTC

Begin:

1547

Bottom:

1550

End:

1558

START POSITION (GPS)

LAT:

49 44.45

LONG:

127 2.45

BOTTOM POSITION (GPS)

LAT:

49 44.46

LONG:

127 2.53

END POSITION (GPS)

LAT:

49 44.45

LONG:

127 2.49

Comments:

Samples labelled 25 but taken on #26

Rosette Log

CRUISE ID:

9608

UTC DATE y/m/d:

96 04 14

SHIP: TULLY

STATION NAME:

L 302

CAST NO.:

28

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		1247	10.0	75	78.4	✓ 31.882		✓				✓	✓	✓			6260	
2		1248	10.1	50	51.9	✓ 31.795		✓				✓	✓	✓			6324	
3		1249	9.9	30	30.6	✓ 31.697		✓				✓	✓	✓			6280	
4		1250	9.7	20	17.9	✓ 31.478		✓				✓	✓	✓	✓		6297	
5		1251	9.8	10	10.2	✓ 31.313		✓				✓	✓	✓			6366	
6		1252	10.0	0	0.00	✓ 31.230		✓				✓	✓	✓			6407	
7																		
8																		
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21																		
22																		
23																		

ENTERED BY: KD
CHECKED BY: JL

Bottom Depth: 82

Cast # down: 27

Cast # up: 28

Time	LOC	UTC
Begin:		191650
Bottom:		1654
End:		1701

START POSITION (GPS)		
LAT:	49	42.73
LONG:	127	5.19

BOTTOM POSITION (GPS)		
LAT:	49	42.77
LONG:	127	5.15

END POSITION (GPS)		
LAT:	49	42.83
LONG:	127	05.24

Comments:

Rosette Log

CRUISE ID:

STATION NAME:

9608

9806

LS04

UTC DATE y/m/d:

CAST NO.:

960415

32

SHIP:

Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure		
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC			Serial #	°C / dbar
								OXY		C13		NUT		CHL		Phylo			
1		1179	7.9	150	144.6	✓	33.804		✓				✓	✓				2574	
2		1180	8.2	125	125.6	✓	33.801		✓				✓	✓				2650	
3		1181	8.3	100	101.2	✓	33.472		✓				✓	✓				3553	
4		1182	8.9	75	74.4	✓	32.930		✓				✓	✓	✓			4964	
5		1183	9.3	50	50.7	✓	32.316		✓				✓	✓	✓			6563	
6		1184	9.8	30	29.8	✓	32.141		✓				✓	✓	✓			6727	
7		1186	9.6	20	21.3	✓	32.127		✓				✓	✓	✓			6723	
8		1187	9.9	10	11.6	✓	32.118		✓				✓	✓	✓	✓		6723	
9		1188	9.5	0	-1.0	✓	32.115		✓				✓	✓	✓			6731	
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			

ENTERED BY:

CHECKED BY:

Bottom Depth: 153

Cast # down: 31

Cast # up: 32

Time LOC UTC

Begin: 1527

Bottom: 1530

End: 1541

START POSITION (GPS)

LAT: 49 35.56

LONG: 127 16.73

BOTTOM POSITION (GPS)

LAT: 49 35.64

LONG: 127 16.63

END POSITION (GPS)

LAT: 49 35.63

LONG: 127 16.29

Comments:

Rosette Log

CRUISE ID: 9608
STATION NAME: L506UTC DATE y/m/d: 960415
CAST NO.: 36SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		1189	4.2	Bottom .20	9868	✓ 34.4219	✓				✓	✓					.316	
2		1190	4.4	1000	9868	✓ 34.4216	✓				✓	✓					.334	
3		1191	4.4	800	8002	✓ 34.3410	✓				✓	✓					.350	
4		1192	5.1	600	602.0	✓ 34.2008	✓				✓	✓					.469	
5		1193	5.5	500	504.2	✓ 34.1045	✓				✓	✓					.861	
6		1194	6.5	400	400.9	✓ 34.0673	✓				✓	✓					1.222	
7		1195	6.7	300	300.7	✓ 34.0181	✓				✓	✓					1.835	
8		1207	6.8	250	251.2	✓ 33.9804	✓				✓	✓					2.277	
9		1196	7.3	200	198.6	✓ 33.9224	✓				✓	✓					2.911	
10		1197	7.7	175	176.6	✓ 33.8977	✓				✓	✓					2.696	
11		1198	7.8	150	152.2	✓ 33.8305	✓				✓	✓					2.750	
12		1199	8.1	125	124.4	✓ 33.6189	✓				✓	✓					3.227	
13		1200	8.5	100	99.1	✓ 33.4167	✓				✓	✓					3.806	
14		1201	8.4	75	75.2	✓ 32.8768	✓				✓	✓	✓				5.525	
15		1202	6.8	50	48.8	✓ 32.5176	✓				✓	✓	✓				2.299	← ?
16		1203	8.9	30	29.6	✓ 32.4454	✓				✓	✓	✓				6.799	
17		1204	9.6	20	18.8	✓ 32.1352	✓				✓	✓	✓				6.897	
18		1205	9.8	10	10.4	✓ 32.1360	✓				✓	✓	✓				6.705	
19		1206	9.8	0	0.2	✓ 32.1353	✓				✓	✓	✓				6.715	
20																		
21																		
22																		
23																		

Comments: O2 flask 1205 run broken - flask discardedENTERED BY:
CHECKED BY:Bottom Depth: 1040Cast # down: 35Cast # up: 36

Time	LOC	UTC
Begin:		1800
Bottom:		18:16
End:		18:50

START POSITION (GPS)		
LAT:	49	27 973
LONG:	127	28 580

BOTTOM POSITION (GPS)		
LAT:	49	28 09
LONG:	127	28 17

END POSITION (GPS)		
LAT:	49	28.27
LONG:	127	27 66

Rosette Log

CRUISE ID:

9608

UTC DATE y/m/d:

96/4/15

SHIP: Tully

STATION NAME:

LJ08

CAST NO.:

40

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
								OXY		C13		NUT		CHL	phlo			
1		1210	3.1	bottom - 20	1792.8	✓ 34.588		✓				✓	✓				1.023	
2		1211	3.9	1500	1500.2	✓ 34.541		✓				✓	✓				.645	
3		1212	4.0	1200	1200.5	✓ 34.479		✓				✓	✓				.384	
4		1213	4.6	1000	1000.8	✓ 34.419		✓				✓	✓				.273	
5		1214	4.9	800	800.2	✓ 34.345		✓				✓	✓				.250	
6		1215	5.6	600	600.3	✓ 34.211		✓				✓	✓				.421	
7		1216	5.1	500	500.4	✓ 34.102		✓				✓	✓				.885	
8		1217	5.6	400	400.1	✓ 34.062		✓				✓	✓				1.145	
9		1218	6.0	300	300.8	✓ 33.940		✓				✓	✓				2.452	
10		1219	6.6	250	250.2	✓ 33.948		✓				✓	✓				2.651	
11		1220	7.0	200	199.7	✓ 33.931		✓				✓	✓				2.730	
12		1221	7.4	175	175.1	✓ 33.893		✓				✓	✓				2.835	
13		1222	7.7	150	150.4	✓ 33.834		✓				✓	✓				3.009	
14		1223	8.2	125	125.8	✓ 33.604		✓				✓	✓				3.503	
15		1224	7.8	100	100.2	✓ 33.109		✓				✓	✓				5.197	
16		1225	8.1	75	75.4	✓ 32.629		✓				✓	✓	✓			6.286	
17		1226	8.4	50	48.5	✓ 32.512		✓				✓	✓	✓			6.803	
18		1228	8.8	30	29.4	✓ 32.453		✓				✓	✓	✓			6.834	
19		1229	9.0	20	20.2	✓ 32.428		✓				✓	✓	✓			6.826	
20		1230	9.3	10	9.5	✓ 32.423		✓				✓	✓	✓	✓		6.816	
21		1231	9.0	0	-1.9	✓ 32.411		✓				✓	✓	✓			6.828	
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down: 39

Cast # up: 40

Time LOC UTC

Begin: 2143

Bottom: 2204

End: 2238

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 49 19.83

LONG: 127 40.97

END POSITION (GPS)

LAT:

LONG:

Comments:

Rosette Log

CRUISE ID:

9608

UTC DATE y/m/d:

960415

SHIP:

Tully

STATION NAME:

L509

CAST NO.:

42

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		1241	3.3	2000	2000.1	✓34.636	✓				✓	✓					1442	
2		1242	3.6	1500	1499.1	✓34.554	✓				✓	✓					1756	
3		1243	4.1	1200	1201.2	✓34.490	✓				✓	✓					464	
4		1244	4.5	1000	999.0	✓34.431	✓				✓	✓					298	
5		1245	5.3	800	799.4	✓34.329	✓				✓	✓					270	
6		1246	5.6	600	601.0	✓34.181	✓				✓	✓					532	
7		1247	5.1	500	499.4	✓34.072	✓				✓	✓					1030	
8		1248	5.7	400	399.3	✓33.970	✓				✓	✓					1730	
9		1249	6.1	300	301.5	✓33.907	✓				✓	✓					2888	
10		1250	6.3	250	248.8	✓33.982	✓				✓	✓					2457	
11		1251	7.4	200	198.0	✓33.922	✓				✓	✓					2842	
12		1252	7.8	175	172.6	✓33.855	✓				✓	✓					2899	
13		1253	8.1	150	147.3	✓33.773	✓				✓	✓					3077	
14		1254	7.7	125	124.9	✓33.428	✓				✓	✓					-	
15		1255	7.7	100	99.6	✓33.264	✓				✓	✓					3101	m/1
16		1256	8.4	75	74.9	✓32.613	✓				✓	✓	✓				6840	
17		1257	8.8	50	49.2	✓32.499	✓				✓	✓	✓	✓			-	
18		1258	9.1	30	31.9	✓32.450	✓				✓	✓	✓	✓			-	
19		1266	9.0	20	20.1	✓32.411	✓				✓	✓	✓	✓			-	
20		1267	9.6	10	9.4	✓32.337	✓				✓	✓	✓	✓			6801	
21		1268	9.6	0	9.4	✓32.337	✓				✓	✓	✓				6816	
22																		
23																		

Comments:

ENTERED BY:

KD

CHECKED BY:

LW/BM

Bottom Depth: 2488.

Cast # down: 41

Cast # up: 42

Time LOC UTC

Begin:

Bottom: 00:14:57

End: 01:00:42

04-16-1996

START POSITION (GPS)

LAT: 49 16.15N

LONG: 127 47.19W

BOTTOM POSITION (GPS)

LAT: 49 16.12

LONG: 127 46.89

END POSITION (GPS)

LAT: 49 16.12N

LONG: 127 46.92W

Rosette Log

 CRUISE ID: 9608
 STATION NAME: LJ10

 UTC DATE y/m/d: 96/04/15
 CAST NO.: 44
SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		2004	3.7	2000	1999	✓34.632		✓				✓	✓				1588	
2		2007	4.2	1500	1498	✓34.557		✓				✓	✓				739	
3		2008	3.0	1200	1196	✓34.487		✓				✓	✓				418	
* 4		2009	4.4	1000	998	✓34.430		✓				✓	✓				279	
5		2010	5.5	800	800	✓34.337		✓				✓	✓				270	
6		2012	5.0	600	599	✓34.131		✓				✓	✓				714	
7		2014	5.1	500	500	✓34.046		✓				✓	✓				1129	
8		2015	5.6	400	401	✓33.990		✓				✓	✓				1682	
9		2017	6.4	300	299	✓33.934		✓				✓	✓				2734	
10		2018	7.2	250	250	✓33.948		✓				✓	✓				2719	
11		2019	7.3	200	199	✓33.928		✓				✓	✓				2796	
12		2025	7.5	175	175	✓33.857		✓				✓	✓				3203	
13		2027	7.9	150	150	✓33.760		✓				✓	✓				3165	
14		2028	7.9	125	125	✓33.483		✓				✓	✓				4150	
15		2032		100	101	✓33.156		✓				✓	✓				Bottle not closed	
16		2033	8.5	75	75	✓32.594		✓				✓	✓	✓			6443	
17		2034	8.7	50	50	✓32.526		✓				✓	✓	✓	✓		6821	
18		2035	9.4	30	29.7	✓32.193		✓				✓	✓	✓	✓		6864	
19		2036	9.6	20	19.1	✓32.180		✓				✓	✓	✓	✓		6769	
20		2038	9.5	10	11.5	✓32.181		✓				✓	✓	✓	✓	✓	6785	
21		2040	10.3	0	0	✓32.275		✓				✓	✓	✓			6790	
22																		
23																		

 ENTERED BY:
 CHECKED BY:
Bottom Depth: 2487Cast # down: 43Cast # up: 44

Time	LOC	UTC
Begin:		0248
Bottom:		03:19:27
End:		0402

START POSITION (GPS)		
LAT:	49	11.251
LONG:	127	54.626

BOTTOM POSITION (GPS)		
LAT:	49	11.16
LONG:	127	54.29

END POSITION (GPS)		
LAT:	49	10.98
LONG:	127	53.71

Comments: * THERMOMETERS did not stop which during the trip did not receive the stop which command?

20 Bottle closed Surface? #15 bottle was bypassed did not fire

Rosette Log

CRUISE ID: 9608
STATION NAME: LI 10 (NEW)UTC DATE y/m/d: 960416
CAST NO.: 46SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC	OXY	TCO	C13	ALK	NUT	SAL	CHL	POC	Phy	Serial #	°C / dbar
1				2000	1999	✓						✓	✓					
2				1500	1499	✓						✓	✓					
3				1200	1198	✓						✓	✓					
* 4		Bottom hung open		1000	1000	✓						✓	✓				647	3.316 3.504
5				800	800	✓						✓	✓					
6				600	599	✓						✓	✓					
7				500	500	✓						✓	✓					
8				400	400	✓						✓	✓					
9				300	301	✓						✓	✓					
10				250	247	✓						✓	✓					
11				200	200	✓						✓	✓					
12				175	176	✓						✓	✓					
13				150	151	✓						✓	✓					
14				125	125	✓						✓	✓					
15				100	101	✓						✓	✓					
16				75	75	✓						✓	✓	✓				
17				50	50	✓						✓	✓	✓	✓			
18				30	30	✓						✓	✓	✓	✓			
19		Spigot open		20	20	✓						✓	✓	✓	✓			
20		no water		10	9.75	✓						✓	✓	✓				
21				0	1	✓						✓	✓	✓	✓	✓		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 2587Cast # down: 45Cast # up: 463519 = CTD

Time LOC UTC

Begin: 0543Bottom: 0614End: 07:00

START POSITION (GPS)

LAT: 49 02 394LONG: 127 55 573

BOTTOM POSITION (GPS)

LAT: 49 02 435LONG: 127 55 35

END POSITION (GPS)

LAT: 49 02 209LONG: 127 54 991

Comments: * THERMOMETER CTD Temp 3.519 SNO 647 3.316° SNO ? 3.504

Rosette Log

CRUISE ID: 9608
STATION NAME: CH10UTC DATE y/m/d: 96/4/16
CAST NO.: 48SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
								OXY		C13		NUT		CHL		Phg		
1		1210	3.9	2000	1999.7	✓ 34.638		✓				✓	✓				1484	pool.
2		1211	4.1	1500	1500.6	✓ 34.564		✓				✓	✓				1773	
3		1212	4.5	1200	1200.4	✓ 34.479		✓				✓	✓				1367	
4		1213	5.1	1000	1000.1	✓ 34.434		✓				✓	✓				1307	5:432 5:432
5		1214	5.0	800	800.0	✓ 34.341		✓				✓	✓				1284	
6		1215	5.6	600	599.8	✓ 34.201		✓				✓	✓				1459	
7		1216	5.7	500	500.7	✓ 34.140		✓				✓	✓				1704	
8		1217	5.9	400	400.3	✓ 34.071		✓				✓	✓				1117	
9		1218	6.2	300	300.1	✓ 33.968		✓				✓	✓				2123	
10		1219	6.9	250	250.0	✓ 33.992		✓				✓	✓				2070	
11		1220	7.1	200	200.2	✓ 33.975		✓				✓	✓				2346	
12		1221	7.2	175	175.4	✓ 33.938		✓				✓	✓				2509	
13		1222	7.4	150	150.5	✓ 33.851		✓				✓	✓				2853	
14		1223	7.6	125	125.2	✓ 33.731		✓				✓	✓				3419	
15		1224	7.8	100	100.9	✓ 33.532		✓				✓	✓				3939	
16		1225	8.4	75	76.0	✓ 33.007		✓				✓	✓	✓			4972	
17		1226	8.8	50	49.3	✓ 32.476		✓				✓	✓	✓	✓		6497	
18		1228	9.3	30	26.4	✓ 32.221		✓				✓	✓	✓	✓		6699	
19		1229	9.3	20	19.4	✓ 32.160		✓				✓	✓	✓	✓		6691	
20		1230	9.3	10	10.0	✓ 32.154		✓				✓	✓	✓	✓	✓	6682	
21		1232	9.5	0	1.4	✓ 32.155		✓				✓	✓	✓			6727	
22																		
23																		

ENTERED BY: 51
CHECKED BY:Bottom Depth: 2381Cast # down: 47Cast # up: 48Time LOC (UTC)
Begin: 0845
Bottom: 0908
End: 0950START POSITION (GPS)
LAT: 49 0.46
LONG: 127 36.47BOTTOM POSITION (GPS)
LAT: 49.0.44
LONG: 127 36.36END POSITION (GPS)
LAT: 49 0.40
LONG: 127 36.43Comments: VENT CAP #7 NOT TIGHT flask 1210 @ 2000 had air bubble on colorimeter

Rosette Log

CRUISE ID: 9608
 STATION NAME: LH09

UTC DATE y/m/d: 96/4/16
 CAST NO.: 50

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC	OXY	TCO	C13	ALK	NUT	SAL	CHL	POC		Serial #	°C / dbar
1				2000	2002	✓ 34.639						✓	✓					
2				1500	1499.7	✓ 34.556						✓	✓					
3				1200	1200.3	✓ 34.492						✓	✓					
4				1000	999.9	✓ 34.428						✓	✓					
5				800	797.8	✓ 34.338						✓	✓					
6				600	596.3	✓ 34.212						✓	✓					
7				500	495.4	✓ 34.153						✓	✓					
8				400	397.8	✓ 34.080						✓	✓					
9				300	298.9	✓ 33.995						✓	✓					
10				250	250.8	✓ 33.937						✓	✓					
11				200	200.8	✓ 33.918						✓	✓					
12				175	176	✓ 33.891						✓	✓					
13				150	144	✓ 33.839						✓	✓					
14				125	128	✓ 33.772						✓	✓					
15				100	96.6	✓ 33.576						✓	✓					
16				75	74.3	✓ 33.151						✓	✓	✓				
17				50	50	✓ 32.475						✓	✓	✓	✓			
18				30	28.2	✓ 32.226						✓	✓	✓	✓			
19	} Tripped at 20m			20	18.7	✓ 32.191						✓	✓	✓	✓			
20				10	20	✓ 11						✓	✓	✓	✓	✓		
21				0	10.0	✓ 32.191						✓	✓	✓				
22																		
23																		

ENTERED BY: A.P.
 CHECKED BY: KD

Bottom Depth: 2058

Cast # down: 49

Cast # up: 50

Time	LOC	UTC
Begin:		20:25
Bottom:		21:08
End:		

START POSITION (GPS)
 LAT: 49 05.49
 LONG: 127 28.74

BOTTOM POSITION (GPS)
 LAT: 49 05.25
 LONG: 127 28.81

END POSITION (GPS)
 LAT: 49 05.25
 LONG: 127 28.71

Comments: Bad cable snap n som on downcast

Pressed Bot 21 by mistake at surface instead of Alt 5.

2150 Extra bottle at 20m don't use!
* no surface sample.

Rosette Log

CRUISE ID: 9608
STATION NAME: DRIFT END

UTC DATE y/m/d: 96/04/17
CAST NO.: 52

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
							OXY		C13		NUT		CHL		PH			
1				300	295	✓	33.980					✓	✓					
2				200	202	✓	33.938					✓	✓					
3				175	175.00	✓	33.900					✓	✓					
4				150	152	✓	33.812					✓	✓					
5				100	100	✓	33.033					✓	✓					
6				75	75	✓	32.602					✓	✓	✓				
7				50	51	✓	32.478					✓	✓	✓				
8				30	29.5	✓	32.354					✓	✓	✓				
9				20	20	✓	32.348					✓	✓	✓				
10				10	11	✓	32.330					✓	✓	✓	✓			
11				0	0.65	✓	32.330					✓	✓	✓				
12				0		✓								✓	✓			
13				0		✓								✓	✓			
14				0		✓								✓	✓			
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY: KD
CHECKED BY:

Bottom Depth: 2450

Cast # down: 51
Cast # up: 52

Time	LOC	UTC
Begin:		1703
Bottom:		1708
End:		1721

START POSITION (GPS)
LAT: 49° 19.17
LONG: 127 51.32

BOTTOM POSITION (GPS)
LAT: 49 19.20
LONG: 127 51.20

END POSITION (GPS)
LAT: 49 19.29
LONG: 127 51.04

Comments: 11 12 13 14 only one bottle tag #

Rosette Log

CRUISE ID: 9608
STATION NAME: L1408UTC DATE y/m/d: 19/4/96
CAST NO.: 53SHIP: Tolly

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC	OXY	TCO	C13	ALK	NUT	SAL	CHL	POC		Serial #	°C / dbar
1		1179	6.5	300	298.6	✓ 34.001		✓				✓	✓					
2		1180	6.7	250	249.2	✓ 33.945		✓				✓	✓					
3		1181	7.6	200	200.5	✓ 33.941		✓				✓	✓					
4		1182	7.9	175	175.4	✓ 33.910		✓				✓	✓					
5		1183	7.6	150	149.8	✓ 33.782		✓				✓	✓				2.806	
6		1184	8.2	125	124.9	✓ 33.614		✓				✓	✓				3.579	
7		1186	8.4	100	100.0	✓ 33.395		✓				✓	✓				3.733	
8		1187	8.8	75	74.8	✓ 32.620		✓				✓	✓	✓			6.055	
9		1188	9.3	50	51.2	✓ 32.398		✓				✓	✓	✓			6.591	
10		1189	9.5	30	31.1	✓ 32.294		✓				✓	✓	✓			5.968	
11		1190	9.3	20	22.2	✓ 32.259		✓				✓	✓	✓			7.150	
12		1191	9.4	10	11.4	✓ 32.248		✓				✓	✓	✓	✓		6.338	
13		1192	9.3	0	-1.3	✓ 32.252		✓				✓	✓	✓			6.731	
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 1910Cast # down: 53Cast # up: 53

Time	LOC	UTC
Begin:		2121
Bottom:		2130
End:		2144

START POSITION (GPS)	
LAT:	49 09.39
LONG:	127 22.92

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	49 09.29
LONG:	127 23.18

Comments:

Rosette Log

CRUISE ID: 9608
STATION NAME: LH06UTC DATE y/m/d: 96/04/19
CAST NO.: 55SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
								OXY		CI3		NUT		CHL	Phyto			
1		1193	6.9	300	300.7	✓33.977		✓				✓	✓				2.500	
2		1194	7.1	250	247.5	✓33.951		✓				✓	✓				2.239	
3		1195	7.6	200	201.8	✓33.919		✓				✓	✓				2.287	
4		1196	7.6	175	174.6	✓33.894		✓				✓	✓				2.313	
5		1197	8.4	150	150.3	✓33.768		✓				✓	✓				2.869	
6		1198	9.2	125	124.2	✓33.274		✓				✓	✓				4.217	
7		1199	9.2	100	100.3	✓32.611		✓				✓	✓				5.981	POC
8		1200	9.5	75	75.3	✓32.449		✓				✓	✓	✓			6.463	
9		1201	9.9	50	48.9	✓32.132		✓				✓	✓	✓			6.431	
10		1202	10.0	30	29.1	✓31.770		✓				✓	✓	✓			6.490	
11		1203	10.0	20	18.4	✓31.747		✓				✓	✓	✓			6.546	
12		1204	10.3	10	10.8	✓31.742		✓				✓	✓	✓	✓		6.561	
13		1206	10.2	surf	- .4	✓31.741		✓				✓	✓	✓			6.552	
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 455 mCast # down: 54Cast # up: 55

Time	LOC	UTC
Begin:		2319
Bottom:		2324
End:		2342

START POSITION (GPS)	
LAT:	49 17.73
LONG:	127 10.41

BOTTOM POSITION (GPS)	
LAT:	49 17.70
LONG:	127 10.43

END POSITION (GPS)	
LAT:	49 17.80
LONG:	127 10.47

check end of 1199. 1.085

Comments:

Rosette Log

CRUISE ID: 9608
STATION NAME: LPO1

UTC DATE y/m/d: 960420
CAST NO.: 72

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC	OXY	TCO	C13	ALK	NUT	SAL	CHL	POC		Serial #	°C / dbar
1		1210	10.02	30	30.2	✓ 30.359		✓									6.369	
2		1211	10.3	20	19.9	✓ 30.236		✓									6.429	
3		1212	10.6	10	11.8	✓ 29.882		✓									6.456	
4		1213	10.2	0	0.4	✓ 27.864		✓									6.714	
5																		
6																		
7																		
8																		
9																		
10																		
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22																		
23																		

ENTERED BY: SL
CHECKED BY:

Bottom Depth: 33

Cast # down: 71

Cast # up: 72

Time	LOC	UTC
Begin:		1516
Bottom:		1518
End:		1522

START POSITION (GPS)		
LAT:	49	00 07
LONG:	125	43 81

BOTTOM POSITION (GPS)		
LAT:	49	00 10
LONG:	125	43 81

END POSITION (GPS)		
LAT:	49	00 14
LONG:	125	43 81

Comments:

Rosette Log

CRUISE ID: 9608
STATION NAME: L002

UTC DATE y/m/d: 96 04 20
CAST NO.: 74

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
							OXY		C13		NUT		CHL					
1		1214	10.0	40	38.0	✓ 30.787		✓									6331	
2		1215	10.0	30	30.8	✓ 30.752		✓									6335	
3		1216	10.0	20	20.3	✓ 30.559		✓									6384	
4		1217	10.2	10	10.1	✓ 28.931		✓									6525	
5		1218	10.0	0	0.0	✓ 28.155		✓									6672	
6																		
7																		
8																		
9																		
10																		
11																		
12																		
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20																		
21																		
22																		
23																		

ENTERED BY: SC
CHECKED BY:

Bottom Depth: 42

Cast # down: 73

Cast # up: 74

Time	LOC	UTC
Begin:		16:00
Bottom:		16:02
End:		16:07

START POSITION (GPS)
LAT: 48 58 46
LONG: 125 47 13

BOTTOM POSITION (GPS)
LAT: 48 58 50
LONG: 125 47 13

END POSITION (GPS)
LAT: 48 58 59
LONG: 125 47 15

Comments:

Rosette Log

CRUISE ID: 9608
STATION NAME: LD04

UTC DATE y/m/d: 960420
CAST NO.: 78

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		1219	9.2	60	53.0	✓ 31.571		✓					✓				5.270	
2		1220	9.2	50	49.8	✓ 31.572		✓									5.275	
3		1221	9.3	30	32.1	✓ 31.552		✓									5.290	
4		1222	9.7	20	19.45	✓ 31.134		✓									5.991	
5		1223	10.0	10	10.4	✓ 30.572		✓									6.147	
6		1224	10.2	0	-0.4	✓ 28.837		✓									6.610	
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 64

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		17:54
Bottom:		1756
End:		1801

START POSITION (GPS)
LAT: 48 53 19
LONG: 125 57 16

BOTTOM POSITION (GPS)
LAT: 48 53 24
LONG: 125 57 21

END POSITION (GPS)
LAT: 48 53 29
LONG: 125 57 26

Comments: Take Salts (bottom well mixed)

Rosette Log

CRUISE ID: 9608
STATION NAME: L006

UTC DATE y/m/d: 960420
CAST NO.: 82

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		1225	8.2	125	124.8	✓ 33.456		✓									3.024	
2		1226	8.1	100	100.4	✓ 33.396		✓									3.148	
3		1228	8.1	75	75	✓ 33.260		✓									3.369	
4		1229	9.0	50	51.4	✓ 32.685		✓									5.632	
5		1230	9.4	30	29.2	✓ 31.989		✓									5.912	
6		1232	9.6	20	21.5	✓ 31.896		✓									6.099	
7		1231	9.9	10	11.1	✓ 31.860		✓									6.410	
8		1233	9.7	0	0	✓ 31.853											6.402	
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 137 137

Cast # down: 81
Cast # up: 82

Time	LOC	UTC
Begin:		2016
Bottom:		2020
End:		2028

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 4846.16
LONG: 12610.18

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID:

9608

UTC DATE y/m/d:

20 Apr 96

SHIP:

Tully

STATION NAME:

LD08

CAST NO.:

86

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		1234	4.4	bottom-20	762	✓ 34.2897	✓						✓				344	
2		1235	5.9	600	597.2	✓ 34.1678	✓						✓				598	
3	1190	1236	5.4	500	501.4	✓ 34.1180	✓						✓				882	
4		1237	6.6	400	397.8	✓ 34.0566	✓						✓				1340	
5		1238	7.0	300	297.7	✓ 33.9995	✓						✓				1949	
6		1239	6.8	250	247.6	✓ 33.9940	✓						✓				2323	
7		1240	7.0	200	199.8	✓ 33.9592	✓						✓				2484	
8		1179	7.5	175		✓ 33.922	✓						✓				2524	
9		1180	7.7	150	149.85	✓ 33.8723	✓						✓				2639	
10		1181	8.1	125	124.50	✓ 33.7943	✓						✓				3046	
11		1182	8.3	100	98.45	✓ 33.5455	✓						✓				3762	
12		1183	9.1	75	73.75	✓ 32.9550	✓						✓				4969	
13		1184	9.5	50	49.65	✓ 32.5082	✓						✓				5207	
14		1186	9.3	30	27.80	✓ 31.4268	✓						✓				5877	
15		1187	6.6	20	18.40	✓ 31.2302	✓						✓				1149	←
16		1188	9.9	10	9.20	✓ 31.1697	✓						✓				6865	
17		1189	9.8	0	-0.1	✓ 31.1568	✓						✓				6941	
3 18		1190	6.2															
19																		
20																		
21																		
22																		
23																		

Comments:

flask 1236 #3 broken, sample retaken with 1190.

ENTERED BY:

Bm

CHECKED BY:

Bottom Depth:

779

Cast # down:

85

Cast # up:

86

Time

LOC

UTC

Begin:

2248

Bottom:

2301

End:

2326

START POSITION (GPS)

LAT: 48 39.17

LONG: 126 23.48

BOTTOM POSITION (GPS)

LAT: 48 39.09

LONG: 126 23.32

END POSITION (GPS)

LAT:

LONG:

Rosette Log

CRUISE ID:

9608

UTC DATE y/m/d:

960421

SHIP:

Tully

STATION NAME:

LD10

CAST NO.:

90

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
							OXY		C13		NUT		CHL					
1		1241	3.3	1481	1481.6	✓34.548	✓					✓						
2		1242	5.0	1200	1199.6	✓34.485	✓					✓				622		
3		1243	4.3	1000	999.8	✓34.419	✓					✓				309		
4		1244	5.5	800	800.6	✓34.332	✓					✓				276		
5		1245	5.0	600	600.0	✓34.172	✓					✓				626		
6		1246	5.7	500	498.8	✓34.105	✓					✓				898		
7		1247	6.0	400	401.1	✓34.019	✓					✓				1621		
8		1248	6.8	300	298.6	✓33.972	✓					✓				2294		
9		1249	7.0	250	249.9	✓33.982	✓					✓				2356		
10		1250	7.7	200	199.3	✓33.934	✓					✓				2507		
11		1251	7.9	175	174.8	✓33.894	✓					✓				2635		
12		1252	8.2	150	150.4	✓33.821	✓					✓				2893		
13		1253	8.6	125	124.7	✓33.657	✓					✓				3228		
14		1254	8.8	100	99.8	✓33.463	✓					✓				3671		
15		1255	9.0	75	75.3	✓32.702	✓					✓				5851		
16		1256	9.2	50	49.2	✓32.515	✓					✓				6288		
17		1257	9.5	30	29.7	✓32.423	✓					✓				6605		
18		1258	9.7	20	21.6	✓32.350	✓					✓				6423		
19		1259	9.8	10	10.5	✓32.236	✓					✓				6655		
20		1260	9.7	0	.4	✓32.232	✓					✓				6679		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 1482

Cast # down: 89

Cast # up: 90

Time LOC UTC

Begin: 0142

Bottom: 0201

End: 0238

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 48 32.06

LONG: 126 36.38

END POSITION (GPS)

LAT:

LONG:

Comments:

1259 flask has shaped stopper

Rosette Log

 CRUISE ID: 9608
 STATION NAME: LC11

 UTC DATE y/m/d: 960421
 CAST NO.: 96
SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC	TEMP	Serial #	°C / dbar
1		1210	3.6	Bottom - 10	1418	✓ 34.540		✓			✓						672	
2		1211	3.7	1200	1199	✓ 34.496		✓			✓						439	
3		1212	4.1	1000	1000	✓ 34.421		✓			✓						284	
4		1213	4.4	800	800	✓ 34.332		✓			✓	✓			✓		285	7.350
5		1214	4.6	600	596	✓ 34.137		✓			✓						664	
6		1215	5.0	500	499	✓ 34.078		✓			✓						958	
7		1216	5.3	400	401	✓ 33.977		✓			✓						573	
8		1217	6.4	300	299	✓ 34.014		✓			✓						921	
9		1218	6.9	250	250	✓ 33.982		✓			✓						249	
10		1219	7.2	200	200	✓ 33.930		✓			✓						488	
11		1220	7.5	175	175	✓ 33.877		✓			✓						741	
12		1221	7.9	150	149	✓ 33.787		✓			✓						951	
13		1222	8.2	125	125	✓ 33.632		✓			✓						238	
14		1223	8.9	100	98	✓ 33.279		✓			✓						997	
15		1224	9.1	75	73	✓ 32.735		✓			✓						486	
16		1225	9.4	50	49	✓ 32.483		✓			✓						100	
17		1226	9.5	30	30	✓ 32.161		✓			✓						458	
18		1228	9.6	20	20	✓ 32.105		✓			✓						547	
19		1229	9.6	10	11	✓ 32.013		✓			✓						595	
20		1230	9.5	0	0	✓ 32.011		✓			✓						598	
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 1424Cast # down: 95Cast # up: 96

Time LOC UTC

Begin: 0844Bottom: 0903End: 0933

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 4818.99LONG: 1262637

END POSITION (GPS)

LAT:

LONG:

 Comments: Take Temp on channel & also salinity from bottle 4.
Note: Left Thermometer has low battery, no reading

Rosette Log

CRUISE ID: 9608
STATION NAME: LC09UTC DATE y/m/d: 96/04/21
CAST NO.: 100SHIP: Tully

Niskin No.	Sample No.	OXY. Flask Temp	OXY. Temp. Flask	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		5.1	1232	Bottom-10	592.90	✓ 34.2092	✓				✓	✓					526	
2		6.0	1231	500	501.70	✓ 34.1229	✓				✓	✓					917	
3		6.1	1233	400	401.80	✓ 34.0553	✓				✓	✓					1407	
4		6.8	1234	300	301.40	✓ 34.0025	✓				✓	✓					2009	
5		7.1	1235	250	251.65	✓ 33.9649	✓				✓	✓					2216	
6		8.0	1237	200	198.00	✓ 33.9503	✓				✓	✓					2513	
7		7.6	1238	175	176.00	✓ 33.9249	✓				✓	✓					2577	
8		7.8	1239	150	150.80	✓ 33.8440	✓				✓	✓					2599	
9		8.2	1240	125	125.10	✓ 33.6802	✓				✓	✓					2872	
10		8.7	2004	100	101.80	✓ 33.4179	✓				✓	✓					3835	
11		8.7	2007	75	74.50	✓ 32.5379	✓				✓	✓					6472	
12		9.6	2008	50	50.45	✓ 32.4159	✓				✓	✓					6538	
13		9.7	2009	30	50.85	✓ 32.0698	✓				✓	✓					6565	
14		10.0	2010	20	20.70	✓ 32.0138	✓				✓	✓					6592	
15		9.9	2014	10	10.30	✓ 31.9970	✓				✓	✓					6571	
16		9.7	2015	0	-1.1	✓ 31.9909	✓				✓	✓					6579	
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 593Cast # down: 99Cast # up: 100

Time	LOC	UTC
Begin:		<u>1213</u>
Bottom:		<u>1224</u>
End:		<u>1324</u>

START POSITION (GPS)
LAT:
LONG:BOTTOM POSITION (GPS)
LAT: 4826.19
LONG: 12613.59END POSITION (GPS)
LAT:
LONG:T679 6.206
T647 — Don Gentry

Comments:

Rosette Log

CRUISE ID: 9608STATION NAME: 2008UTC DATE y/m/d: 960421CAST NO.: 102SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		2012	7.8	200	183	✓ 33.862	✓				✓						2.552	
2		2017	7.6	175	174.75	✓ 33.860	✓				✓						2.478	
3		2018	7.7	150	151	✓ 33.813	✓				✓						2.835	
4		2019	8.1	125	126	✓ 33.760	✓				✓						2.952	
5		2025	8.6	100	101	✓ 33.506	✓				✓						3.413	
6		2027	8.6	75	75.9	✓ 32.996	✓				✓						4.685	
7		2028	9.2	50	50	✓ 32.450	✓				✓						6.419	
8		2032	9.7	30	31	✓ 32.178	✓				✓						6.591	
9		2033	10.4	20	20	✓ 32.128	✓				✓						6.616	
10		2034	10.3	10	11	✓ 32.073	✓				✓						6.636	
11		2035	9.8	0	0	✓ 32.046	✓				✓						6.646	
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY: JC

CHECKED BY:

Bottom Depth: 186Cast # down: 101Cast # up: 102

Time	LOC	UTC
Begin:		1524
Bottom:		1530
End:		1545

START POSITION (GPS)		
LAT:	48 29	49
LONG:	126 06	92

BOTTOM POSITION (GPS)		
LAT:	48 29	49
LONG:	126 06	82

END POSITION (GPS)		
LAT:	48 29	465
LONG:	126 06	409

Comments:

Rosette Log

CRUISE ID:

9608

UTC DATE y/m/d:

960423

STATION NAME:

EFF03

CAST NO.:

166

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	1	1179	9.1	110	119	✓ 28.693	✓										0.	
2		1180	9.3	100	100.8	✓ 29.409	✓										0.	
3		1181	9.2	80	81.1	✓ 29.422	✓										0.	
4		1182	9.5	60	60.6	✓ 29.430	✓										0.	
5		1183	9.6	50	50.2	✓ 29.266	✓										2.487	
6		1184	9.8	40	40.4	✓ 29.322	✓										?	
7		1186	9.7	30	29.8	✓ 29.404	✓										5.536	
8		1187	9.8	25	24.2	✓ 29.392	✓										6.186	
9		1188	9.8	20	19.8	✓ 29.376	✓										6.658	
10		1190	9.7	15	15.1	✓ 29.325	✓										7.105	
11		1189	9.9	10	9.2	✓ 29.304	✓										7.169	
12		1191	10.1	5	5.1	✓ 29.183	✓										6.979	
13		1192	10.1	0	-0.9	✓ 28.838	✓										7.565	
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 119

Cast # down: 165

Cast # up: 166

Time LOC UTC

Begin: 0316

Bottom: 0320

End: 0331

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 49 04.25

LONG: 125 09 40

END POSITION (GPS)

LAT:

LONG:

Comments:

Rosette Log

CRUISE ID: 9608
STATION NAME: EFF05UTC DATE y/m/d: 960423
CAST NO.: 168SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure			
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC					
								OXY		C13		NUT		CHL						
1		1193	9.1	200	194.3	✓	32.755		✓					✓					.055	
2		1194	9.2	180	180	✓	32.745		✓					✓					.105	
3		1195	8.9	160	160.3	✓	32.740		✓					✓		170	1647 1639	8.715 8.702		
4		1196	9.0	140	140	✓	32.729		✓					✓					.338	
5		1197	9.0	120	121	✓	32.670		✓					✓					.350	
6		1198	9.2	100	100	✓	32.511		✓										.484	
7		1199	9.7	80	80	✓	32.131		✓										3.928	
8		1200	10.1	60	60	✓	31.759		✓										3.940	
9		1201	9.9	50	51	✓	31.087		✓										4.099	
10		1202	9.8	40	41	✓	30.501		✓										5.037	
11		1203	10.0	30	29.78	✓	30.125		✓										5.854	
12		1204	9.5	25	25.15	✓	29.919		✓										6.310	
13		1206	9.6	20	20.6	✓	29.680		✓										6.535	
14		1207	9.7	15	14.6	✓	29.136		✓										6.842	
15		1208	9.9	10	9.8	✓	28.485		✓										6.937	
16		1209	10.0	5	5.2	✓	27.970		✓										6.911	
17		1210	10.6	0	0	✓	18.832		✓										7.520	
18																				
19																				
20																				
21																				
22																				
23																				

Comments:

Thermometer calibration bottle # 4 CTD 53501 ROSETTE
CTD 58483 PROBE USED AT SAME STATION SEE CONS # 169, 170ENTERED BY: TL
CHECKED BY:Bottom Depth: 203Cast # down: 167Cast # up: 168

Time	LOC	UTC
Begin:		0416
Bottom:		0420
End:		0439

START POSITION (GPS)		
LAT:	49	02 46
LONG:	125	09 15

BOTTOM POSITION (GPS)		
LAT:	49	02 42
LONG:	125	09 15

END POSITION (GPS)		
LAT:	49	02 47
LONG:	125	09 17

CTD
8.727
32.72924
139.

Rosette Log

CRUISE ID: 9608
STATION NAME: EFF10UTC DATE y/m/d: 96 04 23
CAST NO.: 172SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		1211	9.9	100	92	✓ 31.952	✓										4.213	
2		1212	9.9	80	80.8	✓ 31.938	✓										4.220	per
3		1213	9.4	60	60.8	✓ 31.281	✓										4.313	
4		1214	9.6	50	50.5	✓ 30.662	✓								5.175		1647 1679	9.408 9.396
5		1215	10.1	40	39.6	✓ 30.233	✓										5.842	
6		1216	10.0	30	30.3	✓ 29.830	✓											
7		1217	9.8	25	25.2	✓ 29.604	✓											
8		1218	9.9	20	20.0	✓ 29.399	✓											
9		1219	10.0	15	14.7	✓ 29.154	✓											
10		1220	10.3	10	10.5	✓ 29.228	✓											
11		1221	10.1	5	5.6	✓ 28.077	✓											
12		1202	10.7	0	-2.3	22.338	✓											
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

Comments:

T 647 9.408 Bottle #4. at 50m
T 679 9.396

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down: 171Cast # up: 172

Time LOC UTC

Begin:

Bottom: 0625End: 0633

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 48 59.85LONG: 125 11 22

END POSITION (GPS)

LAT:

LONG:

Rosette Log

CRUISE ID: 9608
STATION NAME: LC07

UTC DATE y/m/d: 96/04/23
CAST NO.: 174

SHIP: Tully.

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure		
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC			Serial #	°C / dbar
								OXY		C13		NUT		CHL					
1		1179	8.5	Bottom 10	119.2	✓ 33.291		✓					✓					3.698	
2		1180	8.4	12.5	117.6	✓ 33.213		✓					✓					3.756	
3		1181	8.7	100	103.1	✓ 33.124		✓					✓					3.915	
4		1182	8.8	75	76.4	✓ 32.924		✓					✓					4.260	
5		1183	9.0	50	49.8	✓ 32.390		✓					✓					5.154	
6		1184	10.0	30	30.8	✓ 31.515		✓					✓					6.499	
7		1186	10.1	20	19.4	✓ 31.481		✓					✓					6.521	
8		1187	10.2	10	9.2	✓ 31.440		✓					✓					6.547	
9	10l water sample			10	9	✓													
10		1188	10.0	0	-1.6	✓ 31.439		✓					✓					6.580	
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			

ENTERED BY:
CHECKED BY:

Bottom Depth: 126 M

Cast # down: 173

Cast # up: 174

Time	LOC	UTC
Begin:		1846
Bottom:	1851	1851
End:	1901	1901

START POSITION (GPS)
LAT: 48 32 95
LONG: 126 00 32

BOTTOM POSITION (GPS)
LAT: 48 32 92
LONG: 126 00 29

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9608
STATION NAME: LC 05

UTC DATE y/m/d: 96/04/23
CAST NO.: 178

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		1189	9.3	12.5	54	✓ 32.310		✓			✓						4.962	
2		1190	9.3	50	50	✓ 32.310		✓			✓						4.954	
3		1191	9.3	30	31.4	✓ 31.73232		✓			✓						5.987	
4		1192	10.2	20	21	✓ 31.56370		✓			✓						6.345	
5		1193	10.3	10	10.8	✓ 31.54518		✓			✓						6.525	
6		1194	10.2	0	0	✓ 31.547		✓			✓						6.562	
7																		
8																		
9																		
10																		
11																		
12																		
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17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 65

Cast # down: 177

Cast # up: 178

Time LOC UTC
Begin:
Bottom: 2105
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 39.94
LONG: 125 47.42

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID:

9608

UTC DATE y/m/d:

2006/04/23

SHIP: Tully

STATION NAME:

LC04

CAST NO.:

180

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1		1195	8.9	Bot-10	165.7	✓ 32.808		✓				✓					3.968	
2		1196	9.0	150	150.8	✓ 32.746		✓				✓					4.174	
3		1197	9.1	125	126.4	✓ 32.575		✓				✓					4.597	
4		1198	9.1	100	98.9	✓ 32.364		✓				✓					4.824	
5		1199	9.3	75	73.6	✓ 32.169		✓				✓					5.152	
6		1200	10.0	50	50.0	✓ 31.971		✓				✓					5.972	
7		1201	9.9	30	30.2	✓ 31.871		✓				✓					5.945	
8		1202	10.1	20	19.6	✓ 31.755		✓				✓					6.057	
9		1203	10.3	10	9.0	✓ 31.610		✓				✓					6.388	
10		1204	10.4	0	-0.9	✓ 31.545		✓				✓						
11																		
12																		
13																		
14																		
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17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 167

Cast # down: 179

Cast # up: 180

Time LOC UTC

Begin:

Bottom: 2214

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 4843.37

LONG: 12541.03

END POSITION (GPS)

LAT:

LONG:

Comments: