

Rosette Log

CRUISE ID: 9613
STATION NAME: STUART IS.

PDT

UTC DATE y/m/d: 96/6/5

CAST NO.: 1-2

SHIP: TXL 4

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	DON		D.O. mmol/kg Serial #	°C / dbar
1		2010	9.8	310	296	✓ 31.720		✓	✓			✓	✓			✓		207.79	
2		2012	10.2	200	99	✓ 31.641		✓	✓			✓	✓			✓		188.29	
3		2014	9.4	150	148	✓ 31.481		✓	✓			✓	✓			✓		178.84	
4		2015	10.1	100	99	✓ 31.248		✓	✓			✓	✓			✓		172.58	
5		2017	10.7	75	78	✓ 30.20		✓	✓			✓	✓			✓		168.52	
6		2018	10.5	50	50	✓ 30.475		✓	✓			✓	✓			✓		162.27	
7																			
8																			
9																			
10																			
11		2009	10.6	30	30.67	✓ 30.084		✓	✓			✓	✓	✓		✓		210.22	
12		2008	10.1	20	20.20	✓ 29.629		✓	✓			✓	✓	✓		✓		215.14	
13		2007	10.1	10	10.20	✓ 29.521		✓	✓			✓	✓	✓		✓		215.70	
14		2004	10.6	0	0.68	✓ 29.581		✓	✓			✓	✓	✓		✓		218.05	
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			

ENTERED BY: DY

CHECKED BY: DM

Bottom Depth: 320 m.

Cast # down: 1 + 2

Cast # up: #1

Time LOC UTC

Begin: 1055/

Bottom: 1103/

End:

START POSITION (GPS)

LAT: 48 40.77 48 40.828

LONG: 123 15.19 123 15.376

BOTTOM POSITION (GPS)

LAT: 48 40.64

LONG: 123 15.9

END POSITION (GPS)

LAT: 48 40.493

LONG: 123 15.636

Comments:

STUART ISLAND EAST 2 #2 NA ALT T.

CAST 2 CHANGE IN TEMP / SAL AT 30M PROBABLY FROM SHIP SWIMMING AROUND. WATER

VERY MESSY.

Rosette Log

CRUISE ID: 9613
STATION NAME: HARO

UTC DATE y/m/d: 96/6/5
CAST NO.: 3/4

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	Dox	Serial #	°C / dbar
1		2019	8.8	290	269.4	✓		✓	✓			✓	✓			✓		159.39
2		2025	9.7	200	199.6	✓	31.723		✓	✓			✓	✓		✓		165.29
3		2027	9.5	150	149.8	✓	31.346		✓	✓			✓	✓		✓		174.48
4		2028	9.6	100	100.6	✓	31.238		✓	✓			✓	✓		✓		179.61
5		2032	9.3	75	75.0	✓	31.162		✓	✓			✓	✓		✓		180.14
6		2033	9.9	50	50.6	✓	30.799		✓	✓			✓	✓		✓		192.31
7		2034	10.0	30	30.1	✓	30.465		✓	✓			✓	✓	✓	✓		199.18
8				30	30.6	✓	30.469											
9				20	20	✓	30.432											
10				20	20	✓	30.426											
11		2035	10.3	20	20.4	✓	30.108		✓	✓			✓	✓	✓	✓		230.67
12		2036	11.5	10	9.9	✓	29.723		✓	✓			✓	✓	✓	✓		233.29
13		2038	11.1	0	1.4	✓	29.658		✓	✓			✓	✓	✓	✓		239.90
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY: JRF
CHECKED BY: DFM

Bottom Depth: 299 - 271

Cast # down: 3 AND 4

Cast # up:

#1 #2

Time	LOC	UTC
Begin:	1322	1427
Bottom:	1327	1429
End:		1433

START POSITION (GPS)
LAT: 48 33 671 48 33.824
LONG: 123 13.75 123 13.251

BOTTOM POSITION (GPS)
LAT: 48 33 727
LONG: 123 13.133

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: SH11

LDL UTC-DATE y/m/d: 96/6/5
CAST NO.: 5

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		1180	8.8	275	234.7	✓	32.213	✓				✓✓					153.86	
2		1181	9.4	200	199.6	✓	31.903	✓				✓✓					164.02	
3		1182	10.0	150	148.4	✓	31.323	✓				✓✓					179.53	
4		1183	9.7	100	100.1	✓	31.231	✓				✓✓					185.59	
5		1184	9.6	75	77.5	✓	31.129	✓				✓✓					186.13	
6		1186	9.9	50	50.8	✓	30.731	✓				✓✓					197.58	
7		1187	9.9	30	30.4	✓	30.749	✓				✓✓	✓				200.61	
8		1188	10.2	20	20.1	✓	30.503	✓				✓✓	✓				205.26	
9		1189	10.7	10	10.1	✓	30.178	✓				✓✓	✓				214.13	
10		1190	11.3	0	0.7	✓	30.109	✓				✓✓	✓				219.15	
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY: JRT
CHECKED BY: DFM

Bottom Depth: 255 - 245 - 206

Cast # down:
Cast # up:

Time LOC UTC
Begin: 1519
Bottom:
End: 1540

START POSITION (GPS)
LAT: 48 28.392
LONG: 123 08.711

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48 27.903
LONG: 123 08.577

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: HEINUTC DATE y/m/d: 96/6/5
CAST NO.: 6/7SHIP: 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	DUC	DON	O ₂ [μmol/kg] Serial # °C / dbar
1		2040	8.6	145	139.7	✓ 32.577		✓	✓			✓	✓			✓		136.36
2		2043	9.9	100	166.5	✓ 31.342		✓	✓			✓	✓			✓		179.42
3	2045	2044		75	76.8	✓ 31.207		✓	✓			✓	✓			✓		184.22
4		12011	10.0	50	50.0	✓ 30.729		✓	✓			✓	✓			✓		207.79
5		1212	10.3	30	30.4	✓ 30.532		✓	✓			✓	✓			✓		262.91
6		1213	10.6	20	20.5	✓ 30.532		✓	✓			✓	✓	✓		✓		208.96
7		1213	10.7	10	10.3	✓ 30.475		✓	✓			✓	✓	✓		✓		DID NOT CLOSE
8		1213		10	10.9	✓ 30.474		✓										
9		1215	11.6	10	0.98	✓ 30.32		✓	✓			✓	✓	✓		✓		215.28
10				10	0.82	✓ 30.30												
11																		
12																		
13		1215		0				✓	✓			✓	✓	✓		✓		
14																		
15		2043	8.7	125	126.9	✓												147.07
16		1214	9.6	10	10.2													226.59
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY: JR7

CHECKED BY:

Bottom Depth: 148Cast # down: 6+7

Cast # up:

#6

#7

Time LOC UTC

Begin: 1627 / 1732Bottom: 1632End: 1645

#6 17

START POSITION (GPS)

LAT: 48 22.783LONG: 123 02.705

BOTTOM POSITION (GPS)

LAT: 48 22.872LONG: 123 02.772

END POSITION (GPS)

LAT:

LONG:

Comments:

Rosette Log

CRUISE ID:

9613

UTC DATE y/m/d:

97/6/5

SHIP: Tully

STATION NAME:

S111

CAST NO.:

8

Niskin No.	TAG Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC	DOC	Serial #	°C / dbar
1		1216	8.1	125	127	✓ 32.615		✓	✓				✓	✓			✓	143.72
2	1	1217	8.5	100	100.0	✓ 32.277			✓	✓			✓	✓			✓	152.11
3	2	1218	8.8	75	75.5	✓ 31.678			✓	✓			✓	✓			✓	164.93
4	3	1219	8.9	50	49.9	✓ 31.509			✓	✓			✓	✓			✓	174.30
5	4	1220	8.9	30	31.5	✓ 31.370			✓	✓			✓	✓	✓		✓	177.96
6	5	1221	9.6	20	20.6	✓ 30.419			✓	✓			✓	✓	✓		✓	208.39
7	6	1222	10.1	10	9.9	✓ 30.116			✓	✓			✓	✓	✓		✓	226.08
8	-	-		10	9.9	✓												
9	7	1223	10.3	0	1.0	✓ 30.037			✓	✓			✓	✓	✓		✓	230.24
10	8	-		0	1.2	✓ 30.060												
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 131 m

Cast # down: 8

Cast # up:

Time LOC UTC

Begin: 1916

Bottom:

End: 1927

START POSITION (GPS)

LAT: 48 15.78

LONG: 123 10.25

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48 15.74

LONG: 123 9.97

Comments:

Rosette Log

CRUISE ID:

9613

LOCAL

UTC DATE y/m/d:

96/6/5

STATION NAME:

Juan de Fuca

CAST NO.:

9-10

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	DOL	Serial #	°C / dbar
								OXY		C13		NUT		CHL		DON		
1		1191	7.8	150	147.8	✓ 33.542		✓	✓		✓				✓		113.36	
2		1192	7.8	125	125.0	✓ 33.575		✓	✓		✓				✓		110.49	
3		1193	8.1	100	101.1	✓ 33.543		✓	✓		✓				✓		2 ALT T's 111.31	
4		1194	8.8	75	75.6	✓ 32.503		✓	✓		✓				✓		154.14	
5		1195	9.1	50	51.0	✓ 32.100		✓	✓		✓				✓		170.19	
6		1196	9.5	30	30.6	✓ 31.527		✓	✓		✓		✓		✓		156.16	
7		1197	9.4	20	20.7	✓ 31.495		✓	✓		✓		✓		✓		195.83	
8					20.9	✓ 31.492												
9		1198	9.7	10	10.6	✓ 31.475		✓	✓		✓		✓		✓		194.76	
10					10.8	✓ 31.481												
11																		
12																		
13		1199	10.2	0	2.1	✓ 31.000		✓	✓		✓		✓		✓		219.07	
14					2.2	✓ 31.129												
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:

JCV

CHECKED BY:

Bottom Depth:

153 m.

Cast # down:

Cast # up:

#9

#10

Time

LOC

UTC

Begin: 2101

2158

Bottom: 2107

End: 2119

2159

START POSITION (GPS)

LAT: 48 15 989

48 15 903

LONG: 123 24 967

123 25 099

BOTTOM POSITION (GPS)

LAT: 48 16.032

LONG: 123 24.867

END POSITION (GPS)

LAT: 48 16.110

LONG: 123 24.699

Comments:

CAST 9 BOTTLE 4 HAS 2 ALT T'S SFLONDS IS ACTUAL BOTTLE TRIP

Rosette Log

CRUISE ID: 9613
STATION NAME: E1

UTC DATE y/m/d: 96/6/6
CAST NO.: 11

SHIP: Tully

				ROSETTE OPERATION		Samples taken										Temperature or Pressure	
Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	Trip pressure	Confirmed Salinity	CFC	OXY	TCO	C13	ALK	NUT	SAL	CHL	POC	Serial #	°C / dbar
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
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19																	
20																	
21																	
22																	
23																	

ENTERED BY:
CHECKED BY:

Bottom Depth: 117 m

Cast # down: 11
Cast # up:

Time LOC UTC
Begin: 0752
Bottom:
End: 0800

START POSITION (GPS)
LAT: 48 31.67
LONG: 125 03.85

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48 31.66
LONG: 125 03.91

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LB02

UTC DATE y/m/d: 96/6/6
CAST NO.: 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		1224	8.5	50	50.8	✓ 32.585											163.28	
2		1225	8.6	30	30.3	✓ 31.639											176.85	
3		1226	9.1	20	20.4	✓ 31.028											204.25	
4		1228	9.9	10	10.4	✓ 30.502											252.09	
5		1229	10.7	0	1.5	✓ 30.446											335.15	
6																		
7																		
8																		
9																		
10																		
11																		
12																		
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19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 55

Cast # down:
Cast # up:

Time LOC UTC
Begin: 0925
Bottom:
End: 0931

START POSITION (GPS)
LAT: 48 39 06
LONG: 125 02.49

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48 39 08
LONG: 125 2.41

Comments:

Rosette Log

CRUISE ID:

9613

UTC DATE y/m/d:

96/6/6

SHIP:

Tully

STATION NAME:

L304

CAST NO.:

13

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		1230	7.5	100	100.3	✓ 33.606		✓				✓					108.52	
2		1231	7.7	75	75.8	✓ 33.371		✓				✓					129.07	
3		1232	8.4	50	51.0	✓ 32.719		✓				✓		✓			150.39	
4		1233	9.5	30	30.8	✓ 31.253		✓				✓		✓			229.98	
5		1234	10.0	20	20.5	✓ 30.949		✓				✓		✓			275.96	
6		1235	10.4	10	10.5	✓ 30.591		✓				✓		✓			312.3	
7		1237	11.3	0	11.8	✓ 30.521		✓				✓		✓			353.8	
8																		
9																		
10																		
11																		
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19																		
20																		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 111

Cast # down: 13

Cast # up:

Time LOC UTC

Begin: 1014

Bottom:

End: 1025

START POSITION (GPS)

LAT: 48 35.60

LONG: 125 09.01

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48 35.60

LONG: 125 09.41

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LB06UTC DATE y/m/d: 96/6/6
CAST NO.: 14SHIP: 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	7.7	100	100.1	✓ 33.598		✓				✓					104.76	
2		2007	8.0	75	74.9	✓ 33.435		✓				✓					127.34	
3		2008	8.3	50	51.5	✓ 33.031		✓				✓					154.46	
4		2009	9.3	30	30.9	✓ 32.004		✓				✓		✓			225.87	
5		2010	9.7	20	20.2	✓ 31.554		✓				✓		✓			250.24	
6		2012	9.9	10	10.5	✓ 31.318		✓				✓		✓			269.05	
7		2014	11.7	0	20	✓ 30.504		✓				✓		✓			376.10	
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 113Cast # down: 14

Cast # up:

Time LOC UTC
Begin: 1112
Bottom:
End:START POSITION (GPS)
LAT: 48 32.21
LONG: 125 15.64BOTTOM POSITION (GPS)
LAT:
LONG:END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LB07

UTC DATE y/m/d: 96/6/6
CAST NO.: 15

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																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
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15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY: JRV
CHECKED BY:

Bottom Depth: 155

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	1206	
Bottom:	1210	
End:	1214	

START POSITION (GPS)
LAT: 48 28.600
LONG: 125 22.349

BOTTOM POSITION (GPS)
LAT: 48 28.536
LONG: 125 22.433

END POSITION (GPS)
LAT: 48 28.476
LONG: 125 22.514

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: C3 = LBA3

UTC DATE y/m/d: 96/6/6
CAST NO.: 16

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																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
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14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			

ENTERED BY: JR
CHECKED BY:

Bottom Depth: 122

Cast # down:

Cast # up:

Time LOC UTC
Begin: 1307
Bottom: 1310
End: 1314

START POSITION (GPS)
LAT: 42 23.268
LONG: 125 20.447

BOTTOM POSITION (GPS)
LAT: 42 23.199
LONG: 125 20.977

END POSITION (GPS)
LAT: 42 23.118
LONG: 125 21.017

Comments: FIRST OF 24 HOUR REPEATING CTD / BONGOS AT C3

Rosette Log

CRUISE ID: 9613
STATION NAME: LR08UTC DATE y/m/d: 96/6/6
CAST NO.: 17SHIP: 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		DO ₂ (μ mol/Kg) Serial #	°C / dbar
1		2015	7.0	140	147.1	✓ ~30	✓				✓						75.51	
2		2017	8.4	125	124.4	✓ 33.841	✓				✓						85.18	
3		2018	8.0	100	99.2	✓ 32.629	✓				✓						97.65	
4		2019	8.7	75	74.7	✓ 33.458	✓				✓						111.02	
5		2025	9.2	50	50.5	✓ 32.981	✓				✓						151.97	
6		2027	9.4	30	30.6	✓ 32.207	✓				✓		✓				189.93	
7		2034	10.3	20	20.1	✓ 31.442	✓				✓		✓				235.75	
8		2032	11.4	10	9.0	✓ 30.749	✓				✓		✓				331.28	
9		2033	11.8	0	1.5	✓ 30.567	✓				✓		✓				378.76	
10																		
11																		
12																		
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21																		
22																		
23																		

ENTERED BY: JRF
CHECKED BY:Bottom Depth: 154 - 149

Cast # down:

Cast # up:

Time LOC UTC

Begin:

Bottom: 1426End: 1446

START POSITION (GPS)

LAT: 48 25.790LONG: 125 28.789

BOTTOM POSITION (GPS)

LAT: 48 25.247LONG: 125 28.780

END POSITION (GPS)

LAT: 48 25.134LONG: 125 28.850

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: 23 = LAB3

UTC DATE y/m/d: 96/6/6
CAST NO.: 18

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																		
2																		
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23																		

ENTERED BY: JEF
CHECKED BY:

Bottom Depth: 122

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	1529	
Bottom:	1532	
End:	1535	

START POSITION (GPS)
LAT: 48 23.753
LONG: 125 20.914

BOTTOM POSITION (GPS)
LAT: 48 23.422
LONG: 125 20.822

END POSITION (GPS)
LAT: 48 23.431
LONG: 125 20.789

Comments: SECOND OF 24 HOUR TIME SERIES

Rosette Log

CRUISE ID: 9613
STATION NAME: C3

UTC DATE y/m/d: 96/6/6
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
1																		
2																		
3																		
4																		
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23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 124

Cast # down: 19

Cast # up:

Time PDT LOC UTC

Begin: 1741

Bottom:

End: 1758

START POSITION (GPS)
LAT: 48 23.32
LONG: 125 20.96

BOTTOM POSITION (GPS)
LAT: 48 23.26
LONG: 125 20 79

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID:

STATION NAME:

9613
C3 (LBA3)

PDT

UTC DATE y/m/d:

CAST NO.:

96/6/6
20

SHIP:

Tully

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

ROSETTE OPERATION

Trip
pressureConfirmed
Salinity

CFC

OXY

TCO

C13

Samples taken

ALK

NUT

SAL

CHL

POC

Temperature or Pressure

Serial # °C / dbar

1				9	9	✓									✓				
2				9	9	✓									✓				
3				9	9	✓									✓				
4				9	9	✓									✓				
5				9	9	✓									✓				
6																			
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22																			
23																			

ENTERED BY:

DY / RD

CHECKED BY:

Bottom Depth:

124

Cast # down:

20

Cast # up:

Time

PDT
LOC

UTC

Begin:

1943

Bottom:

1947

End:

START POSITION (GPS)

LAT:

48 23.25

LONG:

125 20.16

BOTTOM POSITION (GPS)

LAT:

48 23.164

LONG:

125 20.099

END POSITION (GPS)

LAT:

48 23.128

LONG:

125 19.944

Comments:

CHLOROPHYLL CALIBRATION STUFF. 8 L. COLLECTED TO FILTER MULTIPLE
SAMPLES FOR LONG-TERM STORAGE / INSTRUMENT STABILITY TESTING.

Rosette Log

CRUISE ID: 9613
STATION NAME: C1

UTC DATE y/m/d: 96/6/6
CAST NO.: 21

SHIP: TVLLT

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
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ENTERED BY: JEV
CHECKED BY:

Bottom Depth: 156

Cast # down:
Cast # up:

Time LOC UTC
Begin: 2053
Bottom: 2059
End: 2101

START POSITION (GPS)
LAT: 48 28.780
LONG: 125 15.460

BOTTOM POSITION (GPS)
LAT: 48 28.705
LONG: 125 15.475

END POSITION (GPS)
LAT: 48 28.604
LONG: 125 15.531

Comments: CTD - BONGO (VERTICAL)

Rosette Log

CRUISE ID: 9613
STATION NAME: C3 : LBR3UTC DATE y/m/d: 96 / 6 / 8
CAST NO.: 22SHIP: 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
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ENTERED BY: JRP
CHECKED BY:Bottom Depth: 123

Cast # down:

Cast # up:

Time LOC UTC
Begin: 2200
Bottom: 2205
End: 2209START POSITION (GPS)
LAT: 48 23.437
LONG: 125 20.287BOTTOM POSITION (GPS)
LAT: 48 23.417
LONG: 125 20.657END POSITION (GPS)
LAT: 48 23.318
LONG: 125 20.572

Comments:

CTD + OBLIQUE ROUSE

Rosette Log

CRUISE ID: 9613
STATION NAME: C2 - LBAZ

UTC DATE y/m/d: 96/6/6
CAST NO.: 23

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																			
2																			
3																			
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ENTERED BY:
CHECKED BY:

Bottom Depth: 140-1

Cast # down:

Cast # up:

Time LOC UTC
Begin: 2328
Bottom: 2332
End: 2336

START POSITION (GPS)
LAT: 48 25.370
LONG: 125 07.859

BOTTOM POSITION (GPS)
LAT: 48 25.389
LONG: 125 07.836

END POSITION (GPS)
LAT: 48 25.326
LONG: 125 07.853

Comments: CTD + VERTICAL BONGO.

Rosette Log

CRUISE ID: 9613
STATION NAME: C3: LBA3

UTC DATE y/m/d: 96/6/7
CAST NO.: 24

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																		
2																		
3																		
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ENTERED BY: JST
CHECKED BY:

Bottom Depth: 123

Cast # down:

Cast # up:

Time LOC UTC
Begin: 0057
Bottom: 0100
End: 0104

START POSITION (GPS)
LAT: 48 23.374
LONG: 125 21.021

BOTTOM POSITION (GPS)
LAT: 48 23.365
LONG: 125 21.136

END POSITION (GPS)
LAT: 48 23.338
LONG: 125 21.210

Comments: CTD + VERTICAL AND OBLIQUE BONGOS

Rosette Log

CRUISE ID:**STATION NAME:**

UTC DATE y/m/d:

CAST NO.:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

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

Begin: 0258

Bottom: 0301

End: 0304

START POSITION (GPS)

LAT: 48 23.424

LONG: 125 20.8 37

BOTTOM POSITION (GPS)

LAT: 48 23 37.3

LONG: 125 20 924

END POSITION (GPS)

LAT: 43 23 370

LONG: 125 20923

[illegible]

Comments:

CTD & VERTICAL/OBLIQUE BONZOS

Rosette Log

CRUISE ID: 9613
STATION NAME: C3 - LBA3

UTC DATE y/m/d: 96/6/7 (PDT)
CAST NO.: 26

SHIP: 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																		
2																		
3																		
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ENTERED BY:
CHECKED BY:

Bottom Depth: 123

Cast # down: 26

Cast # up:

PDT
Time LOC UTC
Begin: 0522
Bottom:
End:

START POSITION (GPS)
LAT: 48 23.50
LONG: 125 21.01

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LC3 = LBA3

UTC DATE y/m/d: 96/6/7 ^{PDT}
CAST NO.: 27

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																		
2																		
3																		
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23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 123

Cast # down: 27

Cast # up:

Time ^{PDT} ~~100~~ UTC
Begin: 0727
Bottom:
End: 0735

START POSITION (GPS)
LAT: 48 23.46
LONG: 125 20.79

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48 23.48
LONG: 125 20.72

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: C3 (=LBA3)

UTC DATE y/m/d: 96/6/7
CAST NO.: 28

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																		
2																		
3																		
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23																		

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down: 28
Cast # up:

Time Loc UTC
Begin: 0935
Bottom:
End:

START POSITION (GPS)
LAT: 48 23.47
LONG: 125 20.78

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9813
STATION NAME: C3 = LBA3

UTC DATE y/m/d: 9/6/7
CAST NO.: 29

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																		
2																		
3																		
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23																		

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down: 29
Cast # up:

PDT
Time LOC UTC
Begin: 1134
Bottom:
End:

START POSITION (GPS)
LAT: 48 23.44
LONG: 125 21.0

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9613
 STATION NAME: LA04

UTC DATE y/m/d: 96/6/7
 CAST NO.: 30

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		1180	7.5	175	186.2	✓ 33.906	✓				✓						83.72	-
2		1181	7.2	150	149.4	✓ 33.483	✓				✓						80.76	
3		1182	7.4	125	126.7	✓ 33.877	✓				✓						83.24	
4		1183	-	100	102.7	✓ 33.437	✓	DIA	NOT	2.035								
5		1184	7.6	75	75.1	✓ 33.785	✓				✓						88.63	
6		1186	8.7	50	51.8	✓ 33.246	✓				✓						124.88	
7		1187	9.7	30	29.6	✓ 32.399	✓				✓		✓				203.61	
8		1188	10.1	20	18.0	✓ 32.042	✓				✓		✓				243.75	
9		1189	10.4	10	10.4	✓ 31.763	✓				✓		✓				279.94	
10		1190	12.0*	0	102	✓ 31.585	✓				✓		✓		- HALF AIR		432.32	
11																		
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20																		
21																		
22																		
23																		

ENTERED BY: JRF
 CHECKED BY: DFM

Bottom Depth: 193

Cast # down:

Cast # up:

Time LOC UTC
 Begin: 1314
 Bottom: 1320
 End:

START POSITION (GPS)
 LAT: 48 19.271
 LONG: 125 04.161

BOTTOM POSITION (GPS)
 LAT: 48 19.201
 LONG: 125 04 262

END POSITION (GPS)
 LAT:
 LONG:

Comments:

2 TAGS FOR BOTTLE # 1. (ONE AT 13 19.07, OTHER AT 13.19. - HELD FINGER DOWN?)
 BOTTLE 4 DID NOT CLOSE. #10 BOTTLE PARTLY ABOVE SURFACE WHEN CLOSED - EFFECT O₂ ⊕

Rosette Log

CRUISE ID: 9613
STATION NAME: LA5

UTC DATE y/m/d: 96/06/07
CAST NO.: 31

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																		
2																		
3																		
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23																		

ENTERED BY: JRF
CHECKED BY:

Bottom Depth: 122

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	1430	
Bottom:	1433	
End:	1436	

START POSITION (GPS)
LAT: 48 16.067
LONG: 125 10.694

BOTTOM POSITION (GPS)
LAT: 48 16.084
LONG: 125 10.605

END POSITION (GPS)
LAT: 48 16.115
LONG: 125 10.604

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LA6UTC DATE y/m/d: 96/06/07
CAST NO.: 32SHIP: 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		1198	8.1	100	100.9	✓	33.784	✓			✓						102.73	
2		1197	7.9	100	106.0	✓	33.782	✓			✓						102.29	
3		1196	8.2	75	75.0	✓	33.344	✓			✓						(156.33) m ⁰ stirring (mixing)	
4		1195	9.3	50	50.2	✓	32.459	✓			✓						233.73	
5		1194	10.3	30	29.3	✓	31.969	✓			✓		✓				283.46	
6		1193	11.5	20	19.8	✓	31.510	✓			✓		✓				310.71	
7		1192	12.6	10	8.7	✓	30.947	✓			✓		✓				427.99	
8		1191	13.5	0	1.7	✓	30.909	✓			✓		✓				413.03	
9																		
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23																		

ENTERED BY: JRF

CHECKED BY:

Bottom Depth: 112

Cast # down:

Cast # up:

Time LOC UTC

Begin: 1546Bottom: 1550

End:

START POSITION (GPS)

LAT: 48 12.652LONG: 125 17.178

BOTTOM POSITION (GPS)

LAT: 48 12.681LONG: 125 17.143

END POSITION (GPS)

LAT:

LONG:

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LA07

UTC DATE y/m/d: 96/6/7 PDT
CAST NO.: 33

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																		
2																		
3																		
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23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 114

Cast # down: 33
Cast # up:

PDT
Time LOC UTC
Begin: 1650
Bottom:
End:

START POSITION (GPS)
LAT: 49 07 07
LONG: 125 23 84

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LA08UTC DATE y/m/d: 96/6/7 PDT
CAST NO.: 34SHIP: 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		1199	7.6	125	135.2	✓ 33.789	✓				✓						116.11	
2		1200	8.0	100	129.9	✓ 33.570	✓				✓						142.13	
3		1201	8.6	75	74.7	✓ 33.166	✓				✓						174.70	
4		1202	9.0	50	51.5	✓ 32.568	✓				✓						246.75	
5		1203	9.2	30	32.1	✓ 32.270	✓				✓			✓			256.06	
6		1204	9.6	20	20.5	✓ 32.020	✓				✓			✓			257.20	
7		1206	11.8	10	12.1	✓ 31.729	✓				✓			✓			309.46	
8		1207	13.6	0	1.6	✓ 31.600	✓				✓			✓			300.74	
9																		
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11																		
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20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 141 mCast # down: 34

Cast # up:

PDT

Time	LOC	UTC
Begin:	1742	
Bottom:		
End:	1756	

START POSITION (GPS)

LAT:	48 05 85
LONG:	125 30.57

BOTTOM POSITION (GPS)

LAT:	48 05.70
LONG:	125 30.30

END POSITION (GPS) ↙

LAT:	
LONG:	

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LB14UTC DATE y/m/d: 96/0/7
CAST NO.: 35SHIP: 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		Serial #	°C / dbar
1		1211	6.4	500	499.8	✓	34.097	✓				✓	✓					36.83
2		1212	7.1	300	300.6	✓	33.977	✓				✓						84.46
3		1213	7.7	200	201.4	✓	33.909	✓				✓						106.55
4		1214	8.2	150	151.0	✓	33.817	✓				✓						106.53
5		1215	8.6	100	100.1	✓	33.536	✓				✓						146.93
6		1216	9.1	75	76.4	✓	33.102	✓				✓						196.97
7		1217	9.7	50	51.3	✓	32.348	✓				✓						263.11
8		1218	11.0	25	26.6	✓	31.821	✓				✓		✓				273.49
9		1219	12.8	10	10.9	✓	31.189	✓				✓		✓				287.25
10		1220	13.4	0	1.6	✓	31.175	✓				✓		✓				278.6
11																		
12																		
13																		
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16																		
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21																		
22																		
23																		

ENTERED BY: JRJ
CHECKED BY: DFMBottom Depth: 1180Cast # down: Cast # up:

Time	LOC	UTC
Begin:	2023	
Bottom:	2033	
End:	2053	

START POSITION (GPS)	
LAT:	48 08.935
LONG:	126 00.118

BOTTOM POSITION (GPS)	
LAT:	48 08.324
LONG:	126 00.109

END POSITION (GPS)	
LAT:	48 07.998
LONG:	126 00.054

Comments: CAST TO 500M

Rosette Log

CRUISE ID: 9613
STATION NAME: LB12UTC DATE y/m/d: 96/06/07
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	OXY	TCO	CI3	ALK	NUT	SAL	CHL	POC		Serial #	°C / dbar
1		1221	6.0	500	491.7	✓ 34.100	✓	✓				✓	✓				36.74	
2		1222	—	300	299.9	✓ 34.021	✓					✓					no sample	
3		1223	7.8	200	200.6	✓ 33.953	✓					✓					96.24	
4		1224	8.0	150	150.3	✓ 33.909	✓					✓					107.68	
5		1225	8.4	100	101.3	✓ 33.675	✓					✓					121.27	
6		1226	8.6	75	75.1	✓ 33.196	✓					✓					176.42	
7		1228	9.4	50	51.2	✓ 32.532	✓					✓			✓		268.51	
8		1229	10.4	25	25.5	✓ 31.869	✓					✓			✓		271.96	
9		1230	11.9	10	19.0	✓ 31.309	✓					✓			✓		293.97	
10		1231	12.7	0	2.0	✓ 31.284	✓					✓			✓		287.54	
11																		
12																		
13																		
14																		
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16																		
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18																		
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23																		

ENTERED BY: DFM
CHECKED BY:Bottom Depth: 507Cast # down: 936

Cast # up:

Time	LOC	UTC
Begin:	<u>2152</u>	
Bottom:	<u>2205</u>	
End:	<u>2229</u>	

START POSITION (GPS)
LAT: <u>48 12.897</u>
LONG: <u>125 51.875</u>

BOTTOM POSITION (GPS)
LAT: <u>48 12.840</u>
LONG: <u>125 51.750</u>

END POSITION (GPS)
LAT: <u>48 12.771</u>
LONG: <u>125 51.613</u>

Comments: Seal spotted at stern: 5' long, grey with whitish belly 2205
Bottle #2 did not close

Rosette Log

CRUISE ID:

9613

UTC DATE y/m/d:

96/06/07

SHIP: TULLY

STATION NAME:

LB11

CAST NO.:

37

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		Serial #	°C / dbar
1		1232	7.1	200	179.5	✓ 33.927	✓				✓	✓						102.64
2		1233	7.4	150	150.1	✓ 33.894	✓				✓							108.70
3		1234	7.7	125	126.5	✓ 33.888	✓				✓							107.23
4		1235	8.1	100	101.0	✓ 33.799	✓				✓							145.14
5		1237	8.5	75	75.2	✓ 33.361	✓				✓							170.85
6		1238	8.9	50	51.2	✓ 32.554	✓				✓							253.10
7		1240	9.7	30	30.0	✓ 32.084	✓				✓		✓					257.21
8		2004	10.3	20	20.8	✓ 31.887	✓				✓		✓					276.20
9		2007	12.1	10	10.6	✓ 31.336	✓				✓		✓					292.18
10		2008	12.8	0	0.9	✓ 31.542	✓				✓		✓					285.08
11																		
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18																		
19																		
20																		
21																		
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23																		

Comments: Bottle 10 closed at surface - maybe some air

ENTERED BY: DFM/JRF

CHECKED BY:

Bottom Depth: 206

Cast # down:

Cast # up:

Time LOC UTC

Begin: 2311

Bottom: 2317

End: 2331

START POSITION (GPS)

LAT: 48 15.140

LONG: 125 47.664

BOTTOM POSITION (GPS)

LAT: 48 15.109

LONG: 125 47.625

END POSITION (GPS)

LAT: 48 15.055

LONG: 125 47.550

Rosette Log

CRUISE ID: 9613
STATION NAME: LB9UTC DATE y/m/d: 96/06/08
CAST NO.: 38SHIP: 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		<i>O₂ [μmol/kg]</i> Serial #	°C / dbar
1		2009	6.6	140	141.2	✓ 33.941		✓				✓	✓					86.58
2		2010	7.6	100	100.0	✓ 33.625		✓				✓						105.17
3		2012	8.0	75	74.8	✓ 33.299		✓				✓						135.23
4		2014	8.9	50	50.7	✓ 32.679		✓				✓						230.37
5		2015	9.4	30	30.1	✓ 32.284		✓				✓		✓				246.77
6		2017	9.8	20	19.7	✓ 31.969		✓				✓		✓				250.73
7		2018	9.9	10	8.8	✓ 31.204		✓				✓		✓				254.54
8		2019	11.9	0	1.6	30.615		✓				✓		✓				415.45
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10																		
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23																		

ENTERED BY: DFM/JRF
CHECKED BY:Bottom Depth: 149

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0050Bottom: 0053End: 0101

START POSITION (GPS)

LAT: 42 22.018LONG: 125 34.896

BOTTOM POSITION (GPS)

LAT: 42 22.028LONG: 125 34.938

END POSITION (GPS)

LAT: 42 22.017LONG: 125 34.912

Comments:

Rosette Log

CRUISE ID:

9613

UTC DATE y/m/d:

96/06/08

SHIP: TULLY

STATION NAME:

B7 - LCB4

CAST NO.:

39

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																		
3																		
4																		
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22																		
23																		

ENTERED BY: DFM/JRF

CHECKED BY:

Bottom Depth: 78

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0212

Bottom: 0215

End: 0218

START POSITION (GPS)

LAT: 48 32.006

LONG: 125 35 552

BOTTOM POSITION (GPS)

LAT: 48 32.046

LONG: 125 35.623

END POSITION (GPS)

LAT: 48 32.048

LONG: 125 35.612

Comments: CTD ONLY w/o ROSETTE
VERTICAL BONGO.

Rosette Log

CRUISE ID: 9613
STATION NAME: B-8

UTC DATE y/m/d: 96/06/08
CAST NO.: 70

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																		
2																		
3																		
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23																		

ENTERED BY: DFM
CHECKED BY:

Bottom Depth: 196

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:	<u>0312</u>	
Bottom:	<u>0315</u>	
End:	<u>0317</u>	

START POSITION (GPS)
LAT: 42 34.528
LONG: 125 30.035

BOTTOM POSITION (GPS)
LAT: 42 34.535
LONG: 125 30.072

END POSITION (GPS)
LAT: 42 34.566
LONG: 125 30.079

Comments: CTD / VERTICAL BONGO (B8 < LCR3)

Rosette Log

CRUISE ID: 9613
STATION NAME: LC2

UTC DATE y/m/d: 96/06/08
CAST NO.: 41

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		2025	8.2	100	100.1	✓ 33.144		✓				✓	✓				126.37	
2		2027	8.7	75	75.6	✓ 32.854		✓				✓					153.51	
3		2032	9.3	50	51.7	✓ 32.107		✓				✓					189.15	
4		2033		30	30.2	✓ 31.883		✓				✓						
5		2034	9.8	20	19.9	✓ 31.579		✓				✓					219.67	
6		2035	10.9	10	10.9	✓ 31.180		✓				✓			✓		309.07	
7		2036	13.0	0	2.7	✓ 30.635		✓				✓			✓		327.45	
8																		
9																		
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11																		
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23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 110 m

Cast # down: 41

Cast # up:

PDT
Time LOC UTC
Begin: 0459
Bottom:
End: 0509

START POSITION (GPS)
LAT: 48 48.81
LONG: 125 31.38

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48 48.84
LONG: 125 31.41

Comments:

Chlorophylls not taken (blame me!)

Rosette Log

CRUISE ID:

9613

STATION NAME:

LC04

UTC DATE y/m/d:

9/6/8

CAST NO.:

42

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	Pha		O ₂ [μmol/kg] Serial #	°C / dbar
1		2038	8.3	150	150.5	✓ 33.134	✓					✓	✓				132.78	
2		2040	8.6	125	125.9	✓ 33.035	✓					✓					140.92	
3		2043	8.5	100	101.2	✓ 32.918	✓					✓					148.00	
4		2044	8.5	75	74.1	✓ 32.721	✓					✓					158.77	
5		2045	8.8	50	50.9	✓ 32.196	✓					✓					190.3	
6		1180	9.0	30	30.2	✓ 31.755	✓					✓		✓			191.44	
7		1181	9.4	20	21.7	✓ 31.500	✓					✓		✓			215.06	
8		1182	10.3	10	11.1	✓ 31.095	✓					✓		✓			200.01	
9		1183	12.2	0	2.7	✓ 30.576	✓					✓		✓	✓		452.68	
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22																		
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ENTERED BY:

dy

CHECKED BY:

Bottom Depth: 166

Cast # down: 42

Cast # up:

Time LOC UTC

Begin: 0634

Bottom:

End: 0647

START POSITION (GPS)

LAT: 48 43.36

LONG: 125 40.88

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48 43.41

LONG: 125 40.87

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LC 045

^{PDT} UTC DATE y/m/d: 96/6/8
CAST NO.: 43

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																		
2																		
3																		
4																		
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22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 65

Cast # down: 43

Cast # up:

^{PDT}
Time LOC UTC
Begin: 0739
Bottom:
End:

START POSITION (GPS)
LAT: 48 38.45
LONG: 125 47.52

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

4 Bongo

Rosette Log

CRUISE ID: 9613
STATION NAME: LC06

UTC DATE y/m/d: 96/6/8
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																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
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23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 93

Cast # down: 44
Cast # up:

Time LOC UTC
Begin: 0847
Bottom:
End: 0854

START POSITION (GPS)
LAT: 48 36.46
LONG: 125 53.97

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48 36.42
LONG: 125 53.89

Comments:

+bongo

Rosette Log

CRUISE ID:

9613

STATION NAME:

LC07

PDT
UTC DATE y/m/d:

96/6/8

CAST NO.:

45

SHIP:

Tully

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

ROSETTE OPERATION

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

Samples taken

CFC	TCO	ALK	SAL	POC
OXY	C13	NUT	CHL	

Temperature or Pressure

D02 (mmol/kg)
Serial # °C / dbar

1		2009	7.1	125	123.2	✓	33.846	✓				✓	✓				90.70
2		2010	7.6	100	100.5	✓	33.648	✓				✓					116.67
3		2012	8.2	75	74.6	✓	33.062	✓				✓					153.41
4		2014	9.1	50	49.2	✓	32.442	✓				✓					236.18
5		2015	9.5	30	31.3	✓	32.100	✓				✓		✓			262.32
6		2017	10.2	20	21.8	✓	31.918	✓				✓		✓	✓		283.80
7		2018	11.7	10	10.5	✓	31.429	✓				✓		✓			293.69
8		2019	12.3	0	2.6	✓	31.304	✓				✓		✓	✓		284.39
9																	
10																	
11																	
12																	
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22																	
23																	

ENTERED BY:

dy

CHECKED BY:

Bottom Depth: 127

Cast # down:

45

Cast # up:

PDT
Time LOC UTC

Begin: 1001

Bottom:

End: 1013

START POSITION (GPS)

LAT: 48 33.00

LONG: 126 00.51

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48 32.80

LONG: 126 00.46

Comments:

Rosette Log

CRUISE ID:

9613

UTC DATE y/m/d:

96/6/8

SHIP:

Tully

STATION NAME:

LC08 = A1

CAST NO.:

46

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		DO2 (μ mol/kg)	Serial # °C / dbar
1		1184	7.3	190	191.8	✓ 33.957	✓	✓				✓	✓				89.91	
2		1186	7.6	150	151.0	✓ 33.863	✓	✓				✓					119.71	
3		1187	8.1	125	126.1	✓ 33.703	✓	✓				✓					123.51	
4		1188	8.4	100	98.8	✓ 33.419	✓	✓				✓					156.21	
5		1189	9.0	75	96.2	✓ 32.657	✓	✓				✓					243.55	
6		1190	9.7	50	49.4	✓ 32.251	✓	✓				✓					259.20	
7		1198	11.1	30	30.7	✓ 31.548	✓	✓				✓		✓			296.45	
8		1197	12.0	20	21.4	✓ 31.306	✓	✓				✓		✓			288.36	
9		1196	12.5	10	9.3	✓ 31.204	✓	✓				✓		✓			284.02	
10		1195	12.7	0	0.2	✓ 29.633	✓	✓				✓		✓			281.34	
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
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22																		
23																		

small
air
sample

ENTERED BY:

CHECKED BY:

Bottom Depth: 198

Cast # down: 46

Cast # up:

PDT

Time LOC UTC

Begin: 1100

Bottom:

End: 1118

START POSITION (GPS)

LAT: 48 29.44

LONG: 126 07.18

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48 29.22

LONG: 126 07.11

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: AZUTC DATE y/m/d: 96/6/8
CAST NO.: 47SHIP: TULL

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																		
3																		
4																		
5																		
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7																		
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22																		
23																		

ENTERED BY: JR7
CHECKED BY:Bottom Depth: 253

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:	1240	
Bottom:	1247	
End:	1253	

START POSITION (GPS)
LAT: <u>48 22.613</u>
LONG: <u>126 03.847</u>

BOTTOM POSITION (GPS)
LAT: <u>48 22.636</u>
LONG: <u>126 03.777</u>

END POSITION (GPS)
LAT: <u>48 22.608</u>
LONG: <u>126 03.562</u>

Comments: AZ (NO "PHYSICS" AVMDFR) CTD + BONGU.

Rosette Log

CRUISE ID: 9617
STATION NAME: A3/LC9UTC DATE y/m/d: 96/06/08
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
1		1191	5.9	500	4960	✓ 34.096		✓				✓	✓				3637	
2		1192	6.9	200	300.2	✓ 33.996		✓				✓					129.82	
3		1193	7.5	200	201.3	✓ 33.939		✓				✓					102.25	
4		1194	7.9	150	151.5	✓ 33.851		✓				✓					115.70	
5		1199	8.4	100	92.2	✓ 33.319		✓				✓					172.36	
6		1200	9.1	75	74.7	✓ 32.571		✓				✓					267.38	
7		1201	10.5	50	51.6	✓ 32.442		✓				✓		✓			288.61	
8		1202	11.0	25	26.2	✓		✓				✓		✓			298.29	
9		1203	13.0	10	10.1	✓		✓				✓		✓			291.87	
10		1204	12.7	0	1.7	✓ 31.331		✓				✓		✓			282.23	
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 613 - 593

Cast # down:

Cast # up:

Time LOC UTC
Begin: 1419
Bottom: 1434
End:START POSITION (GPS)
LAT: 48 25.877
LONG: 126 13.652BOTTOM POSITION (GPS)
LAT: 48 25.749
LONG: 126 13.283END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LC 11UTC DATE y/m/d: 96/6/8
CAST NO.: 49SHIP: 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	PAR	Serial #	°C / dbar
1		2009	5.9	500	501.4	✓ 34.117	✓				✓	✓					30.44	
2		2010	6.4	300	300.4	✓ 33.961	✓				✓						83.36	
3		2012	7.3	200	201.3	✓ 33.893	✓				✓						118.95	
4		2014	8.0	150	151.9	✓ 33.733	✓				✓						133.44	
5		2015	8.7	100	100.5	✓ 32.932	✓				✓						212.92	
6		2017	9.2	75	74.7	✓ 32.471	✓				✓						260.74	
7		2018		50	51.0	✓	✓				✓	✓						
8		2019	11.4	25	25.2	✓ 31.294	✓				✓		✓		✓		277.83	
9		2025	12.3	10	10.2	✓ 31.154	✓				✓		✓					
10		2027	13.2	0	1.4	✓ 31.180	✓				✓	✓	✓		✓			
11																		
12																		
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16																		
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20																		
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23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 1493Cast # down: 49

Cast # up:

PDT

Time LOC UTC

Begin: 1642

Bottom:

End: 1710

START POSITION (GPS)

LAT: 49 19 00LONG: 126 26.72

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48 18.76LONG: 126 27.08

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LC12

UTC DATE y/m/d: 96/6/8
CAST NO.: 50

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
								OXY		C13		NUT		CHL				
1																		
2																		
3																		
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ENTERED BY:
CHECKED BY:

Bottom Depth: 2500

Cast # down: 50

Cast # up:

Time 001 LOC UTC

Begin: 1822

Bottom:

End:

START POSITION (GPS)

LAT: 48 14.98

LONG: 126 40.27

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

Rosette Log

CRUISE ID:

9613

UTC DATE y/m/d:

96/6/8

SHIP:

TULLY

STATION NAME:

LD10

CAST NO.:

51

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure D.O. (μmol/kg) Serial # °C / dbar
					Trip pressure	Confirmed Salinity	CFC	OXY	TCO	CI3	ALK	NUT	SAL	CHL	POC		
1		2032	5.8	500	497.9	✓ 34.092	✓	✓				✓	1				35.66
2		2033	6.8	300	300.7	✓ 33.488	✓	✓				✓					79.63
3		2034	7.4	200	201.8	✓ 33.889	✓	✓				✓					120.25
4		2035	8.3	150	152.0	✓ 33.675	✓	✓				✓					137.72
5		2036	9.1	100	100.2	✓ 32.754	✓	✓				✓					217.71
6		2038	9.7	75	74.8	✓ 32.424	✓	✓				✓					282.41
7		2040	10.3	50	51.8	✓ 32.028	✓	✓				✓		✓			273.19
8		2043	11.0	25	27.9	✓ 31.661	✓	✓				✓		✓			300.38
9		2044	12.6	10	10.7	✓ 31.167	✓	✓				✓		✓			281.35
10		2045	12.4	0	1.3	31.165	✓	✓				✓	✓	✓			281.25
11																	
12																	
13																	
14																	
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23																	

ENTERED BY:

VZJ

CHECKED BY:

Bottom Depth: 1480

Cast # down:

Cast # up:

Time LOC UTC

Begin: 2118

Bottom: 2129

End: 2150

START POSITION (GPS)

LAT: 48 32.204

LONG: 126 36.717

BOTTOM POSITION (GPS)

LAT: 48 32.098

LONG: 126 36.564

END POSITION (GPS)

LAT: 48 31.748

LONG: 126 36.485

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: P4

UTC DATE y/m/d: 96/06/08
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
1																		
2																		
3																		
4																		
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ENTERED BY: DFM
CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: P4UTC DATE y/m/d: 96/6/9
CAST NO.: 53SHIP: 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				20	20	✓								✓				
2				20	20	✓								✓				
3				20	20	✓								✓				
4				20	20	✓								✓				
5																		
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23																		

ENTERED BY: JRJ
CHECKED BY:Bottom Depth: 1315

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:	<u>0036</u>	
Bottom:	<u>0045</u>	
End:	<u>0055</u>	

START POSITION (GPS)
LAT: <u>42 38.91</u>
LONG: <u>126 39.84</u>

BOTTOM POSITION (GPS)
LAT: <u>48 38.781</u>
LONG: <u>126 39.677</u>

END POSITION (GPS)
LAT: <u>48 38.736</u>
LONG: <u>126 39.498</u>

Comments: SITE OF P4 BIONESS COLLECTED BULK SAMPLE (A) 20 m FOR CHLOROPHYLL CALIBRATION WORK.

Rosette Log

CRUISE ID: 9613
 STATION NAME: LD8

UTC DATE y/m/d: 96/06/09
 CAST NO.: 54

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			
								OXY		C13		NUT		CHL				D02 (m mds 1K5) Serial # °C / dbar
1		1211	7.1	500	497.2	✓	34.120	✓				✓	✓					84.79
2		1212	6.3	300	301.5	✓	33.996	✓				✓						70.21
3		1213	6.9	200	202.9	✓	33.916	✓				✓						104.13
4		1214	7.6	150	150.2	✓	33.749	✓				✓						121.10 * NOTE ↓
5		1215	8.4	100	101.4	✓	33.301	✓				✓						176.25
6		1216	8.8	75	75.7	✓	32.602	✓				✓						243.74
7		1217	9.7	50	49.8	✓	32.241	✓				✓		✓				268.46
8		1218	11.6	25	25.8	✓	31.387	✓				✓		✓				288.19
9		1219	12.4	10	10.4	✓	31.250	✓				✓						279.33
10		1220	12.5	0	2.2	✓	31.253	✓				✓	✓	✓				279.27
11																		
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Comments: * BOTTLE 4 → spigot open at surface.

ENTERED BY: DFM

CHECKED BY:

Bottom Depth: 767.755

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0210Bottom: 0230End: 0249

START POSITION (GPS)

LAT: 48 39.155LONG: 126 23.406

BOTTOM POSITION (GPS)

LAT: 48 38.983LONG: 126 23.202

END POSITION (GPS)

LAT: 48 38.826LONG: 126 23.083

Rosette Log

CRUISE ID: 9613
STATION NAME: L26

UTC DATE y/m/d: 96/06/09
CAST NO.: 55

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		DO2 (µmol/kg)	Serial # °C / dbar
1		1221	6.8	130	131.8	✓ 33.914	✓	✓				✓	✓				84.99	
2		1222	7.4	100	100.7	✓ 33.757	✓	✓				✓					709.26	
3		1223	8.1	75	75.6	✓ 33.299	✓	✓				✓					147.62	
4		1224	8.7	50	51.1	✓ 32.746	✓	✓				✓					211.75	
5		1225	10.0	30	30.6	✓ 32.067	✓	✓				✓		✓			280.68	
6		1226	10.6	20	21.3	✓ 31.791	✓	✓				✓		✓			298.32	
7		1228	11.4	10	12.3	✓ 31.650	✓	✓				✓		✓			313.10	
8		1229	12.1	0	1.7	✓ 31.237	✓	✓				✓		✓			286.11	
9																		
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22																		
23																		

ENTERED BY: DFM
CHECKED BY:

Bottom Depth: 137

Cast # down: 55

Cast # up:

Time LOC UTC
Begin: 0412
Bottom:
End:

START POSITION (GPS)
LAT: 48 46.25
LONG: 176 10.31

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID:

9613

STATION NAME:

LD04

PDT
UTC DATE y/m/d:

96/6/9

CAST NO.:

56

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	CI3	ALK	NUT	SAL	CHL	POC		Serial #	°C / dbar
1		1230	9.4	50	50.9	✓ 32.831	✓					✓					153.93	
2		1231	10.2	30	31.6	✓ 32.236	✓					✓			✓		169.75	obviously not the end point!
3		1232	10.6	20	21.5	✓ 31.937	✓					✓			✓		248.80	
4		1233	11.9	10	11.4	✓ 31.434	✓					✓			✓		314.16	
5		1234	13	0	2.0	✓ 30.797	✓					✓			✓		311.68	
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ENTERED BY:

CHECKED BY:

Bottom Depth: 63

Cast # down: 56

Cast # up:

PDT
Time LOC UTC

Begin: 0539

Bottom:

End:

START POSITION (GPS)

LAT: 48 53.23

LONG: 125 57.09

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

Rosette Log

CRUISE ID:

9613

STATION NAME:

CD02

PDT UTC DATE y/m/d:

9616/89

CAST NO.:

57

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		DO 2 (mmol/kg) Serial #	CT dbar
1		1237	9.7	40	40.5	✓ 32.114	✓					✓					205.36	
2		1235	9.7	30	31.2	✓ 31.937	✓					✓			✓		203.78	
3		1238	(17.3)	20	20.2	✓ 31.342	✓					✓			✓		257.11	(*)
4		1240	12.6	10	10.7	✓ 30.999	✓					✓			✓		307.12	
5		2004	13.3	0	3.1	✓ 30.996	✓					✓			✓		299.30	
6																		
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23																		

ENTERED BY:

DJ

CHECKED BY:

Bottom Depth: 44

Cast # down: 57

Cast # up:

Time LOC UTC

Begin: 0702

Bottom:

End: 0708

START POSITION (GPS)

LAT: 48 58.47

LONG: 125 47.34

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48 58.43

LONG: 125 47.32

Comments: (*) Check + recalculate - wrong temperature entered.

Rosette Log

CRUISE ID: 9613
STATION NAME: P4

UTC DATE y/m/d: 96/06/09
CAST NO.: 58

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	CI3	ALK	NUT	SAL	CHL	POC	Serial #	°C / dbar	
1																		
2																		
3																		
4																		
5																		
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23																		

ENTERED BY: DFM
CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time LOC UTC
Begin:
Bottom:
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

BLOWESS

Rosette Log

CRUISE ID:

9613

STATION NAME:

LG02

PDT

UTC DATE y/m/d:

96/6/9

CAST NO.:

59

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		2009	7.3	100	96.9	✓	33.842	✓				✓	✓				DO2 Cinnol/Kg	95.30
2		2010	8.2	15	76.3	✓	33.247	✓				✓						141.19
3		2012	9.0	50	50.1	✓	32.454	✓				✓						180.63
4		2014	9.3	30	30.9	✓	32.263	✓				✓			✓			183.83
5		2015	9.6	20	20.7	✓	31.860	✓				✓			✓			205.28
6		2017	12.0	10	11.1	✓	31.228	✓				✓			✓			300.93
7		2018	12.8	0	1.4	✓	31.884	✓				✓			✓			303.19
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23																		

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down: 59

Cast # up:

Time LOC UTC

Begin: 1701

Bottom:

End: 1710

START POSITION (GPS)

LAT: 49 18.75

LONG: 126 38.34

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49 18.73

LONG: 126 38.40

+ bongo

Comments:

Rosette Log

CRUISE ID:**STATION NAME:**

UTC DATE y/m/d:

CAST NO.:

SHIP:

[illegible]

ENTERED BY:

CHECKED BY:

Bottom Depth: 120

Cast # down:

Cast # up:

Time	LOC	UTC
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Begin: 1810

Bottom:

End: 1814

START POSITION (GPS)

LAT: 49 14.99

LONG: 126 43.72

BOTTOM POSITION (GPS)

LAT: 49-14-57

LONG:

END POSITION (GPS)

LAT: 49 14.97

LONG: 126 43.78

Comments:

Rosette Log

CRUISE ID:

9613

UTC DATE y/m/d:

96/6/9

SHIP:

Tully

STATION NAME:

LG04

CAST NO.:

61

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		DO = ($\mu\text{mol/l}$)	Serial # °C / dbar
1		2019	6.9	140	139.6	✓ 33.903		✓				✓	✓				97.72	
2		2025	7.1	125	127.0	✓ 33.880		✓				✓					112.43	
3		2027	7.5	100	101.5	✓ 33.733		✓				✓					120.45	
4		2032	8.2	75	76.8	✓ 33.164		✓				✓					183.97	
5		2033	9.0	50	51.0	✓ 32.518		✓				✓					214.34	
6		2034	9.7	30	30.6	✓ 32.140		✓				✓		✓			245.80	
7		2035	10.3	20	20.2	✓ 31.799		✓				✓		✓			251.23	
8		2036	11.9	10	10.3	✓ 31.211		✓				✓		✓	✓		282.56	
9		2038	12.0	0	1.0	✓ 31.195		✓				✓		✓	✓	✓	283.50	
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 145

Cast # down: 61

Cast # up:

Time LOC UTC

Begin: 1857

Bottom:

End: 1908

START POSITION (GPS)

LAT: 49 11.8529

LONG: 126 49.49

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49 11.26

LONG: 126 49.13

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: 1605

^{PDT} UTC DATE y/m/d: 06/06/09
CAST NO.: 62

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																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
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17																		
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19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 279-273

Cast # down: 62
Cast # up:

Time LOC UTC
Begin: 2020
Bottom: 2026
End: 2033

START POSITION (GPS)
LAT: 49 07.87
LONG: 126 55.34

BOTTOM POSITION (GPS)
LAT: 49 07.272
LONG: 126 55.139

END POSITION (GPS)
LAT: 49 07.206
LONG: 126 54.916

Comments:

Rosette Log

CRUISE ID:

9613

STATION NAME:

LG06

UTC DATE y/m/d:

96/6/9

CAST NO.:

63

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		DO2 ($\mu\text{mol/kg}$) Serial #	$^{\circ}\text{C}$ / dbar
1		2040	5.7	500	501.8	✓ 34.116		✓				✓	✓				35.34	
2		2043	5.9	300	301.6	✓ 33.984		✓				✓					70.57	
3		2044	6.7	200	201.1	✓ 33.934		✓				✓					103.75	
4		2045	7.5	150	150.5	✓ 33.821		✓				✓					108.33	
5		1180	8.3	100	99.2	✓ 33.345		✓				✓					167.83	
6		1181	8.8	75	73.9	✓ 32.601		✓				✓					250.60	
7		1182	9.3	50	51.2	✓ 32.227		✓				✓		✓			263.28	
8		1183	10.7	35	30.4	✓ 31.542		✓				✓			✓		281.66	
9		1184	12.2	15	16.2	✓ 31.254		✓				✓					280.21	
10	(*)	1186	12.3	5	40	✓ 31.245		✓				✓	✓	✓	✓		279.99	
11																		
12																		
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14																		
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21																		
22																		
23																		

ENTERED BY: DFM/SRF
CHECKED BY:

Bottom Depth: 963 - 957

Cast # down: 63

Cast # up:

Time LOC UTC

Begin: 2126

Bottom: 2137

End: 2156

START POSITION (GPS)

LAT: 49 03.468

LONG: 127 01.236

BOTTOM POSITION (GPS)

LAT: 49 03.474

LONG: 127 01.064

END POSITION (GPS)

LAT: 49 03.374

LONG: 127 01.300

Comments: NOTE: FILE 96130063 FOR LAST BOTTLE IS 6310 (W/O DASH: 63-10) - CHECK BOTTLE 10 FOR OTHER STNS $\Rightarrow$ PROGRAM1 DOES NOT ACCEPT 5 FIGURES FOR "NUMBER".

Rosette Log

CRUISE ID:**STATION NAME:**

PDT

~~UTC~~ DATE y/m/d:

CAST NO.:

SHIP: Tully

ENTERED BY: DFM

CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

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

Begin: 2320

Bottom: 2333

End: 2343

START POSITION (GPS)

LAT: 48 59.432

LONG: 127 07.255

BOTTOM POSITION (GPS)

LAT: 48 54.351

LONG: 127 07.178

END POSITION (GPS)

LAT: 48 59.425

LONG: 127 07.282

[illegible]

Comments: CTD ONLY.

Rosette Log

CRUISE ID: 9613
STATION NAME: 0UTC DATE y/m/d: 96/6/10
CAST NO.: 65SHIP: 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		Serial #	°C / dbar
1				700	6978	✓	34.250								✓		14.72	
2		2009	5.0	700	6987	✓	34.250	✓				✓	✓				↓	
3				500	500.8	✓	34.039								✓			
4		2010	5.1	500	501.2	✓	34.039	✓				✓					87.52	
5				300	301.7	✓	33.926								✓			
6		2012	6.2	300	300.4	✓	33.927	✓				✓					93.35	
7				200	199.0	✓	33.881								✓			
8				200	200.6	✓	33.881								✓			
9		2014	7.4	200	200.5	✓	33.883	✓				✓	✓				124.21	
10		2015	10.7	30	32.3	✓	31.719	✓				✓	✓				297.12	
11																		
12																		
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20																		
21																		
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23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 2520

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:	0303	
Bottom:	0318	
End:	0340	

START POSITION (GPS)
LAT: <u>49 07.508</u>
LONG: <u>127 45.034</u>

BOTTOM POSITION (GPS)
LAT: <u>49 07.588</u>
LONG: <u>127 44.893</u>

END POSITION (GPS)
LAT: <u>49 07.580</u>
LONG: <u>127 44.879</u>

Comments: SEDIMENT TRAP SITE '0' 2 CTD / R: (65 + 66) + BIONESS.

Rosette Log

CRUISE ID: 9613
STATION NAME: 0UTC DATE y/m/d: 96/6/10
CAST NO.: 66SHIP: 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	PH470	Serial #	C / dbar
1				150	150.7	✓									✓		141.04	
2		2017	8.1	150	152.2	✓	33.689	✓				✓					↓	
3		2018	8.9	100	101.2	✓	32.963	✓				✓			✓		273.19	
4		2019		75	75.4	✓		✓				✓		✓	✓			
5		2015	10.2	50	50.8	✓	32.116	✓				✓			✓	✓	272.90	
6				30	31.0	✓									✓	✓		
7				10	10.2	✓									✓	✓		
8				10	10.0	✓						✓		✓				
9				5	4.3	✓									✓	✓		
10				5	5.9	✓						✓		✓				
11																		
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23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 2498Cast # down: 66

Cast # up:

Time LOC UTC
Begin: 0410
Bottom:
End: 0424START POSITION (GPS)
LAT: 49 7.49
LONG: 127 44.72BOTTOM POSITION (GPS)
LAT:
LONG:END POSITION (GPS)
LAT: 49 7.55
LONG: 127 44.54

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: L510UTC DATE y/m/d: 10 June 96
CAST NO.: 67SHIP: 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		2027	5.7	500	502.5	✓ 34.108	✓				✓	✓					31.90	
2		2032	6.3	300	301.1	✓ 33.967	✓				✓						83.27	
3		2033	7.3	200	203.6	✓ 33.886	✓				✓						103.85	
4		2034	7.9	150	148.7	✓ 33.750	✓				✓						113.24	
5		2035	8.1	100	100.2	✓ 32.908	✓				✓						233.73	
6		2036	9.1	75	76.1	✓ 32.505	✓				✓						278.53	
7		2038	10.6	50	49.9	✓ 32.377	✓				✓			✓			289.17	
8		2040	12.0	25	25.5	✓ 31.537	✓				✓			✓	✓		282.12	
9		2043	11.9	10	9.9	✓ 31.478	✓				✓			✓			281.72	
10		2044	12.0	0	2.1	✓ 31.476	✓				✓	✓	✓	✓	✓		282.50	
11																		
12																		
13																		
14																		
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16																		
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19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 2482Cast # down: 67

Cast # up:

Time	LOC	UTC
Begin:	<u>0612</u>	
Bottom:		
End:	<u>0641</u>	

START POSITION (GPS)
LAT: <u>49 11.38</u>
LONG: <u>127 54.81</u>

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: <u>49 11.37</u>
LONG: <u>127 54.62</u>

Comments: NOTE: SHALLOW BOTTLE = NUMBER 60710 (w/o HYPHEN) IN FILE.

OTHER STATIONS: BOTTLES #1 AND #10 ARE BOTH STN # -1 (NO STN # -10)

Rosette Log

CRUISE ID: 9613
STATION NAME: LJ09

UTC DATE y/m/d: 96/6/10
CAST NO.: 68

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																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
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11																			
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19																			
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21																			
22																			
23																			

ENTERED BY:
CHECKED BY:

Bottom Depth: 2475

Cast # down: 68

Cast # up:

Time LOC UTC
Begin:
Bottom:
End:

START POSITION (GPS)
LAT: 49 16.11
LONG: 127 47.26

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49 16.02
LONG: 127 46.99

Comments:

Rosette Log

CRUISE ID:

9613

UTC DATE y/m/d:

96/6/10

SHIP:

Tolly

STATION NAME:

LJ08

CAST NO.:

69

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		Serial #	°C / dbar
1		1180	5.6	500	4998	✓ 34.093	✓					✓	✓					35.45
2		1181	6.3	300	3011	✓ 33.948	✓					✓						89.90
3		1182	7.5	200	1995	✓ 33.876	✓					✓						104.07
4		1183	8.1	150	1487	✓ 33.715	✓					✓						119.09
5		1184	8.7	100	1001	✓ 33.120	✓					✓						194.07
6		1186	8.9	75	741	✓ 32.606	✓					✓						250.42
7		1187	9.8	50	494	✓ 32.451	✓					✓		✓				287.95
8		1188	12.0	25	242	✓ 31.403	✓					✓		✓				281.29
9		1189	12.2	10	118	✓ 31.313	✓					✓		✓				278.68
10		1190	12.2	0	39	✓ 31.303	✓					✓	✓	✓				277.93
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY: JRF

CHECKED BY: DFM

Bottom Depth: 1750

Cast # down: 69

Cast # up:

Time LOC UTC

Begin: 0834

Bottom:

End: 0904

START POSITION (GPS)

LAT: 49 20.13

LONG: 127 40.98

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49 20.42

LONG: 127 41.58

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LJ07

SDT
UTC DATE y/m/d: 96/6/10
CAST NO.: 70

SHIP: Tolly

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 #
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
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21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down: 70

Cast # up:

Time LOC UTC
Begin: 1021
Bottom:
End: 1047

START POSITION (GPS)
LAT: 49 24.09
LONG: 127 34.57

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49 23.92
LONG: 127 34.77

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LJ06UTC DATE y/m/d: 96/6/10
CAST NO.: 71SHIP: 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		DO ₂ (mmol/Kg)	Serial # °C/dbar
1		1191	5.4	580	5050	✓ 34.108	✓					✓	✓				37.68	
2		1192	6.9	300	3000	✓ 33.967	✓					✓					87.67	
3		1193	7.2	200	2024	✓ 33.916	✓					✓					107.36	
4		1194	7.9	150	1500	✓ 33.817	✓					✓					123.99	
5		1195	9.0	100	991	✓ 33.860	✓					✓					175.53	
6		1196	9.0	75	718	✓ 32.629	✓					✓					249.25	
7		1197	10.2	50	495	✓ 32.264	✓					✓		✓			267.06	
8		1198	11.5	25	262	✓ 31.724	✓					✓		✓	✓		289.66	
9		1200	12.4	10	111	✓ 31.393	✓					✓		✓			280.67	
10		1200	12.7	0	14	✓ 31.390	✓					✓	✓	✓	✓		280.26	
11																		
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13																		
14																		
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16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY: DRY/DFM
CHECKED BY: DFMBottom Depth: 1802Cast # down: 71

Cast # up:

Time	LOC	UTC
Begin:	<u>1131</u>	
Bottom:		
End:	<u>1202</u>	

START POSITION (GPS)	
LAT:	<u>49 27.94</u>
LONG:	<u>127 28.53</u>

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	<u>49 27.74</u>
LONG:	<u>127 28.23</u>

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LJ5

DDT.
~~HTC~~ DATE y/m/d: 96/06/10
CAST NO.: 72

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																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
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23																		

ENTERED BY: DFM
CHECKED BY:

Bottom Depth: 1059

Cast # down:

Cast # up:

Time LOC UTC

Begin: 1303

Bottom: 1312

End:

START POSITION (GPS)

LAT: 49 31.702

LONG: 129 22.659

BOTTOM POSITION (GPS)

LAT: 49 31.640

LONG: 127 22.624

END POSITION (GPS)

LAT: 49 31.613

LONG: 129 22.594

Comments: CTD ONLY

Rosette Log

CRUISE ID: 9613
STATION NAME: LT 04PJT
DATE y/m/d: 96/6/10
CAST NO.: 73

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	CI3	ALK	NUT	SAL	CHL	POC		DO ₂ (mmol/kg)	Serial # °C / dbar
1		1211	7.3	154	151.6	✓ 33.895		✓				✓					706.56	
2		1212	7.5	125	123.4	✓ 33.809		✓				✓					712.60	
3		1213	8.9	75	73.2	✓ 32.529		✓				✓					239.58	
4		1214	9.9	50	48.2	✓ 31.861		✓				✓					266.66	
5		1215	11.8	30	38.0	✓ 31.36		✓				✓		✓			283.29	
6		1216	12.1	20	19.9	✓ 31.265		✓				✓		✓			281.83	
7		1217	12.1	10	10.4	✓ 31.257		✓				✓		✓			289.72	
8		1218	12.3	5	2.0	✓ 31.252		✓				✓		✓			281.18	
9																		
10																		
11																		
12																		
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14																		
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16																		
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20																		
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22																		
23																		

ENTERED BY: JTR
CHECKED BY:

Bottom Depth: 161

Cast # down:

Cast # up:

Time LOC UTC
Begin: 1406
Bottom: 1413
End: 1428START POSITION (GPS)
LAT: 49 35.524
LONG: 127 16.954BOTTOM POSITION (GPS)
LAT: 49 35.564
LONG: 127 16.897END POSITION (GPS)
LAT: 49 35.549
LONG: 127 17.139

Comments: TAG 2 IS A DUP. USE TAG 3 FOR BOTTLE 2 AND LIKEWISE UP THE CHAIN.

Rosette Log

CRUISE ID: 3613
STATION NAME: LJ3

PDT
DATE y/m/d: 96/06/10
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
1																		
2																		
3																		
4																		
5																		
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21																		
22																		
23																		

ENTERED BY: JAM
CHECKED BY:

Bottom Depth: 124

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	1525	
Bottom:	1528	
End:	1531	

START POSITION (GPS)
LAT: 49 34.048
LONG: 127 11.116

BOTTOM POSITION (GPS)
LAT: 49 34.016
LONG: 127 11.095

END POSITION (GPS)
LAT: 49 34.083
LONG: 127 11.145

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LJ 2

UTC DATE y/m/d: 96/6/10
CAST NO.: 75

SHIP: TULLY

[illegible]

ENTERED BY: JEG.

CHECKED BY:

Bottom Depth: 82

Cast # down: 75

Cast # up:

Time	LOC	UTC
Begin:	1623	
Bottom:		
End:	1631	

START POSITION (GPS)	
LAT:	49 42.68
LONG:	127 05.44

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	49 42 69
LONG:	127 05.63

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: LBPB

PDT
DATE y/m/d: 96/06/10
CAST NO.: 76

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	CI3	ALK	NUT	SAL	CHL	POC	PM	Serial #	°C / dbar
1		1225	5.8	500	498.3	✓ 34.121		✓				✓	✓				31.63	
2		1226	6.4	300	298.8	✓ 33.983		✓				✓					31.66	
3		1228	6.8	200	204.6	✓ 33.941		✓				✓					35.70	
* 4		1229	7.4	150	149.1	✓ 33.895		✓				✓					106.11	±106.11
5		1230	7.9	100	99.0	✓ 33.740		✓				✓					128.84	
6		1231	8.4	75	75.5	✓ 33.287		✓				✓					168.83	
7		1232	9.5	50	49.9	✓ 32.476		✓				✓		✓			268.60	
8		1233	11.7	25	25.6	✓ 31.965		✓				✓		✓	✓		280.28	
9		1234	12.0	10	9.3	✓ 31.975		✓				✓		✓			280.24	
10		1237	12.1	5	12.6	✓ 31.971		✓				✓	✓	✓	✓		280.51	
11																		
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ENTERED BY: DFM/JRT
CHECKED BY:

Bottom Depth: 2867

Cast # down:

Cast # up:

Time LOC UTC

Begin: 2214Bottom: 2226End: 2250

START POSITION (GPS)

LAT: 49 48.434LONG: 128 16.966

BOTTOM POSITION (GPS)

LAT: 49 48.264LONG: 128 17.059

END POSITION (GPS)

LAT: 49 47.839LONG: 128 17.646

Comments: NUTRIENTS - STARTED USING GLASS + PLASTIC TUBES AT THIS STATION - NO FILTERING.

* 2 TAGS FOR #4 USE TAG 5 THEN UP THE LINE.

Rosette Log

CRUISE ID: 9613
STATION NAME: LRP7UTC DATE y/m/d: 96/6/10
CAST NO.: 77SHIP: 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																				
2																				
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ENTERED BY: JPS
CHECKED BY:Bottom Depth: 2212

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:	<u>2343</u>	
Bottom:	<u>2359.30</u>	
End:	<u>0015</u>	

START POSITION (GPS)
LAT: <u>49 52.264</u>
LONG: <u>128 11.323</u>

BOTTOM POSITION (GPS)
LAT: <u>49 51.906</u>
LONG: <u>128 11.433</u>

END POSITION (GPS)
LAT: <u>49 51.631</u>
LONG: <u>128 11.678</u>

Comments:

CTA + BONJOSA BIT OF A NEAR SURFACE TOW TRYING TO GET THE BLOCK LOCKED UP!

Rosette Log

CRUISE ID: 9613
 STATION NAME: 28P6

UTC DATE y/m/d: 9/6/11
 CAST NO.: 78

SHIP: JULIA

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		DO2 (mmol/kg)	Serial # °C/dbar
1		2009	5.9	500	502.4	✓ 34.111	✓					✓	✓				35.38	
2		2010	6.0	300	301.2	✓ 34.003	✓					✓					62.50	
3		2012	6.3	200	202.9	✓ 33.954	✓					✓					91.62	
4		2014	6.8	150	148.7	✓ 33.925	✓					✓					104.38	
5		2015	7.7	100	99.6	✓ 33.753	✓					✓					122.36	
6		2017	7.8	75	74.2	✓ 33.536	✓					✓					140.96	
7		2018	8.3	50	47.6	✓ 33.096	✓					✓		✓			180.84	
8		2019	9.1	25	25.1	✓ 32.461	✓					✓		✓			225.55	
9		2025	11.2	10	10.9	✓ 31.847	✓					✓					286.48	
10		2027	11.3	5	4.9	✓ 31.847	✓					✓	✓	✓			286.47	
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ENTERED BY: JR7

CHECKED BY:

Bottom Depth: 760

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0134Bottom: 0144End: 0203

START POSITION (GPS)

LAT: 49 56.259LONG: 128 05.642

BOTTOM POSITION (GPS)

LAT: 49 56.191LONG: 128 05.860

END POSITION (GPS)

LAT: 49 56.097LONG: 128 06.019

Comments: 7 DOUBLE TAG AT 4 AGAIN! OOPS. BOTH TOGETHER

Rosette Log

CRUISE ID: 9813
STATION NAME: LBP 5

UTC DATE y/m/d: 98/6/11
CAST NO.: 79

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	CI3	ALK	NUT	SAL	CHL	POC		Serial #	°C / dbar
1																		
2																		
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23																		

ENTERED BY: JRF.
CHECKED BY:

Bottom Depth: 1278

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	0249	
Bottom:	0258	
End:	0307	

START POSITION (GPS)
LAT: 50.00.079
LONG: 128 00.223

BOTTOM POSITION (GPS)
LAT: 50 00.086
LONG: 128 00.350

END POSITION (GPS)
LAT: 50 00.087
LONG: 128 00.421

Comments: CTD + BONGO.

Rosette Log

CRUISE ID: 9613
STATION NAME: LBP4UTC DATE y/m/d: 96/6/11
CAST NO.: 80SHIP: 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		Serial #	°C / dbar
1		2032	6.1	500	500.6	✓ 34.105	✓				✓	✓					02 [and 18]	36.25
2		2033	6.3	300	300.5	✓ 33.982	✓				✓							73.30
3		2034	7.0	200	200.7	✓ 33.933	✓				✓							94.56
4		2035	7.3	150	147.9	✓ 33.902	✓				✓							93.23
5		2036	8.0	100	98.8	✓ 33.592	✓				✓							133.82
6		2038	8.4	75	72.5	✓ 33.155	✓				✓							175.46
7		2040	9.0	50	50	✓ 33.155	✓				✓		✓					210.65
8		2043	10.9	25	25.6	✓ 32.010	✓				✓		✓					272.89
9		2044	11.6	10	10.3	✓ 31.592	✓				✓							283.49
10		2045	13.6	3	5.5	✓ 31.563	✓				✓	✓	✓					282.74
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ENTERED BY: JRV
CHECKED BY:Bottom Depth: 1047

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:	0355	
Bottom:	0404	
End:		

START POSITION (GPS)
LAT: 50 01.523
LONG: 127 58.235BOTTOM POSITION (GPS)
LAT: 50 01.654
LONG: 127 58.380END POSITION (GPS)
LAT:
LONG:Comments: error @ ~55m

Rosette Log

CRUISE ID: 9613
STATION NAME: LBPJ

UTC DATE y/m/d: 96/6/11
CAST NO.: 81

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																		
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ENTERED BY:
CHECKED BY:

Bottom Depth: 167

Cast # down: 81
Cast # up:

Time LOC UTC
Begin: 0451
Bottom:
End: 0501

START POSITION (GPS)
LAT: 50 322
LONG: 127 55 48

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 50 323
LONG: 127 55 59

+ Bongos

Comments:

Rosette Log

CRUISE ID:

9613

UTC DATE y/m/d:

96/6/11

SHIP:

Tully

STATION NAME:

LDP2

CAST NO.:

82

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	8.0	100	1005	✓ 33.586											134.94	
2		1242	8.5	75	75.3	✓ 32.926											195.21	
3		1243	9.5	50	51.3	✓ 32.329											247.53	
4		1244	10.5	30	32.6	✓ 32.034											268.03	
5		1245	11.5	20	20.3	✓ 31.665											287.87	
6		1246	11.7	10	10.6	✓ 31.472											314.34	
7		1247	11.8	0	3.7	✓ 31.371											285.44	
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ENTERED BY:

CHECKED BY:

Bottom Depth: 105

Cast # down: 82

Cast # up:

Time PDT LOC UTC

Begin: 0546

Bottom:

End: 0556

START POSITION (GPS)

LAT: 50 03.92

LONG: 127 54.43

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 50 391

LONG: 127 54.64

Comments:

Rosette Log

CRUISE ID:

9613

UTC DATE y/m/d:

96/6/11

SHIP:

Tully

STATION NAME:

CPE2

CAST NO.:

83

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		1180	7.7	125	1210	✓ 33.790	✓					✓	✓				117.26	
2		1181	7.9	100	991	✓ 33.428	✓					✓					147.55	
3		1182	8.7	75	76.4	✓ 32.754	✓					✓					234.48	
4		1183	9.7	50	498	✓ 32.027	✓					✓					253.11	
5		1184	11.4	30	300	✓ 31.476	✓					✓		✓			278.92	
6		1186	11.8	20	20.2	✓ 31.399	✓					✓		✓			281.69	
7		1187	11.9	10	11.2	✓ 31.399	✓					✓		✓			280.98	
8		1188	12.1	0	2.7	✓ 31.408	✓					✓	✓	✓			280.36	
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ENTERED BY:

CHECKED BY:

Bottom Depth: 124

Cast # down: 83

Cast # up:

Time LOC UTC

Begin: 1133

Bottom:

End: 1145

START POSITION (GPS)

LAT: 50 42.96

LONG: 128 40.41

BOTTOM POSITION (GPS)

LAT: >

LONG:

END POSITION (GPS)

LAT: 50 43.02

LONG: 128 40.68

+ Bongo

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: 6903UTC DATE y/m/d: 95/6/11
CAST NO.: 84SHIP: 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		DO2 (μmole/Kg) Serial #	°C / dbar
1		1184	5.5	500	498.7	✓	34.115	✓				✓	✓					34.70
2		1190	6.6	300	300.7	✓	33.967	✓				✓						84.61
3		1191	6.8	200	202.4	✓	33.941	✓				✓						108.31
4		1192	7.5	150	151.3	✓	33.869	✓				✓						118.79
5		1193	8.0	100	100.7	✓	33.645	✓				✓						133.95
6		1194	8.4	75	74.0	✓	33.106	✓				✓						176.71
7		1195	8.6	60	59.0	✓	33.849	✓				✓		✓				202.75
* 8		1196	10.5	20	21.1	✓	31.874	✓				✓		✓				273.29
9		1197	10.7	10	12.1	✓	31.748	✓				✓		✓				286.34
10		1198	12.9	2	2.5	✓	31.707	✓				✓	✓	✓				287.28
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23																		

ENTERED BY: JRT

CHECKED BY:

Bottom Depth: 1170.2

Cast # down:

Cast # up:

Time LOC UTC

Begin: 1343Bottom: 1351End: 1409

START POSITION (GPS)

LAT: 50 39.8.2LONG: 129 02.026

BOTTOM POSITION (GPS)

LAT: 50 39.678LONG: 129 02.150

END POSITION (GPS)

LAT: 50 39.479LONG: 129 02.212Comments: * #8 BOTTLE VENT OPEN CHECK O2

Rosette Log

CRUISE ID: 9613
STATION NAME: JI23

UTC DATE y/m/d: 96/6/11
CAST NO.: 85

SHIP: Tolly

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					

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STD only

ENTERED BY:
CHECKED BY:

Bottom Depth: 8 1212

Cast # down: 85

Cast # up:

Time LOC UTC

Begin: 1630

Bottom:

End:

START POSITION (GPS)

LAT: 50 46.92

LONG: 129 27.23

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

+ Bouge

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: C53B

UTC DATE y/m/d: 96/6/11
CAST NO.: 86

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
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ENTERED BY:
CHECKED BY:

Bottom Depth: 220

Cast # down: 86
Cast # up:

Time LOC UTC
Begin: 1841
Bottom:
End:

START POSITION (GPS)
LAT: 51 0.04
LONG: 129 27.15

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

+ Long 0

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: C52B

UTC DATE y/m/d: 96/6/11
CAST NO.: 87

SHIP: TULLY

					ROSETTE OPERATION		Samples taken										Temperature or Pressure	
Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1																		
2																		
3																		
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ENTERED BY: JRF
CHECKED BY:

Bottom Depth: 64

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	2059	
Bottom:	2101	
End:	2104	

START POSITION (GPS)
LAT: 50 55.949
LONG: 128 59.918

BOTTOM POSITION (GPS)
LAT: 50 55.905
LONG: 128 59.910

END POSITION (GPS)
LAT: 50 55.870
LONG: 128 59.919

Comments: CTD + BOUNDO

Rosette Log

CRUISE ID: 9613
STATION NAME: CS1BUTC DATE y/m/d: 96/6/11
CAST NO.: 88SHIP: 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																				
2																				
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ENTERED BY: JKY

CHECKED BY:

Bottom Depth: 73

Cast # down:

Cast # up:

Time LOC UTC

Begin: 2237Bottom: 2640End: 2243

START POSITION (GPS)

LAT: 50 53.000LONG: 128 39.976

BOTTOM POSITION (GPS)

LAT: 50 52.935LONG: 128 39.979

END POSITION (GPS)

LAT: 50 52.944LONG: 128 39.934

Comments:

CTD + BONGO.

Rosette Log

CRUISE ID: 9613
STATION NAME: CPE1UTC DATE y/m/d: 96/6/12
CAST NO.: 89SHIP: 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		Serial #	°C / dbar
1		1241	6.9	140	140	✓ 33.804	✓				✓							102.25
2		1242	7.0	125	125	✓ 33.674	✓				✓							99.10
3		1243	7.6	100	99	✓ 33.100	✓				✓							136.77
4		1244	8.1	75	75	✓ 32.691	✓				✓							171.81
5		1245	9.7	50	50	✓ 31.799	✓				✓							256.72
6		1246	10.2	30	30	✓ 31.759	✓				✓		✓					271.96
7		1248	10.3	20	20	✓ 31.731	✓				✓		✓					275.51
8		1249	10.5	10	10	✓ 31.645	✓				✓		✓					290.50
9		1251	10.7	0	2	✓ 31.430	✓				✓		✓					298.13
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ENTERED BY: JRY
CHECKED BY:Bottom Depth: 143 -147

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:	<u>0226</u>	
Bottom:	<u>0230</u>	
End:	<u>0238</u>	

START POSITION (GPS)	
LAT:	<u>50 59.998</u>
LONG:	<u>127 50.011</u>

BOTTOM POSITION (GPS)	
LAT:	<u>50 59.988</u>
LONG:	<u>127 50.062</u>

END POSITION (GPS)	
LAT:	<u>50 59.999</u>
LONG:	<u>127 50.216</u>

Comments: CTD / R + BOWSCO

Rosette Log

CRUISE ID:

9613

STATION NAME:

HOTHAM

PTA UTC DATE y/m/d:

96/6/12

CAST NO.:

90

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	CI3	ALK	NUT	SAL	CHL	POC	Phy	DO2 µmol/kg	Serial # °C/dbar
1		1180	10.0	500	500	✓	30.076	✓				✓	✓				112.61	
2		1181	10.0	300	300	✓	30.982	✓				✓	✓				102.78	
3		1182	9.8	200	200	✓	30.652	✓				✓	✓				122.18	
DIV 4		1183	10.4	150	150	✓	30.308	✓	DID NOT TRIP									
5		1184	10.4	100	100	✓	29.907	✓				✓	✓				158.93	
6		1186	10.4	75	75	✓	29.737	✓				✓	✓				159.05	
7		1187	10.6	50	50	✓	29.551	✓				✓	✓	✓			173.45	
8		1188	11.6	25	30	✓	29.008	✓				✓	✓	✓			189.25	
9		1189	13.7	10	10.5	✓	25.601	✓				✓	✓	✓	✓		279.04	
10		1190	13.8	0	1.5	✓	23.035	✓				✓	✓	✓	✓		331.70	
11																		
12																		
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15																		
16																		
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19																		
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21																		
22																		
23																		

Comments:

H4 DID NOT CLOSE

ENTERED BY: DFM.

CHECKED BY:

Bottom Depth: 663

Cast # down: 90

Cast # up:

Time LOC UTC

Begin: 2334

Bottom: 2345

End: 000600

START POSITION (GPS)

LAT: 49 48.90

LONG: 124 07.11

BOTTOM POSITION (GPS)

LAT: 49 48.899

LONG: 124 02.224

END POSITION (GPS)

LAT: 49 48.880

LONG: 124 02.435

Rosette Log

CRUISE ID: 9613
STATION NAME: 91-HOTHAM

PDT
~~UTC~~ DATE y/m/d: 96/06/13
CAST NO.: 91

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																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
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19																		
20																		
21																		
22																		
23																		

NIGHT BUSINESS

ENTERED BY:
CHECKED BY:

Bottom Depth: 600 m +

Cast # down:
Cast # up:

Time LOC UTC
Begin: 0030
Bottom: 0050
End:

HOTHAM SOUND
START POSITION (GPS)
LAT: 49°48.9'N
LONG: 129°02.4'N

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: 92 - HOTHAM

PDT
UTC DATE y/m/d: 96/06/13
CAST NO.: 92

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																		
2																		
3																		
4																		
5																		
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23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 600 m +

Cast # down:

Cast # up:

Time LOC UTC
Begin: 0916
Bottom: 0945
End:

HOTHAM SOUND
START POSITION (GPS)
LAT: 49°48.9'N
LONG: 124°02.0'W

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: 93

PDT
DATE y/m/d: 9/6/06/13
CAST NO.: 93

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																		
2																		
3																		
4																		
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ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down:
Cast # up:

Time LOC UTC
Begin:
Bottom:
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: NI 07UTC DATE y/m/d: 96/8/13
CAST NO.: 94SHIP: 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	10.2	45	45	✓ 29.380	✓				✓						204.03	
2		1212	9.8	30	30	✓ 29.193	✓				✓						189.32	
3		1213	10.2	20	20	✓ 28.643	✓				✓						263.73	
4		1214	-	10	10	✓ 27.206	✓				✓						NO SAMPLE	
5		1215	14.8	0	1	✓ 15.557	✓				✓						383.89	
6																		
7																		
8																		
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23																		

ENTERED BY: DFM/ORT
CHECKED BY:Bottom Depth: 48Cast # down: 94
Cast # up:Time LOC UTC
Begin: 1939
Bottom:
End: 1946START POSITION (GPS)
LAT: 49 22.57
LONG: 123 32.84BOTTOM POSITION (GPS)
LAT:
LONG:END POSITION (GPS)
LAT: 49 22.57
LONG: 123 32.83Comments: CTD / ROSETTE

Rosette Log

CRUISE ID:

9613

STATION NAME:

N106

PDT

UTC DATE y/m/d:

96/06/13

CAST NO.:

95

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	CI3	ALK	NUT	SAL	CHL	POC		DO2 (mmol/Kg)	Serial # °C / dbar
1		1216	9.8	150	150	✓ 30.360	✓				✓						163.57	
2		1217	9.9	125	124	✓ 30.190	✓				✓						187.62	
3		1218	9.7	100	100	✓ 30.016	✓				✓						190.96	
4		1219	9.4	75	75	✓ 29.803	✓				✓						188.65	
5		1220	9.6	50	50	✓ 29.583	✓				✓						187.08	
bubbles → 6		1221	9.8	30	30	✓ 29.155	✓				✓					⊕	210.87	BUBBLE
7		1222	10.6	20	20	✓ 28.645	✓				✓						210.16	
bubble → 8		1223	11.8	10	10	✓ 27.742	✓				✓					⊕	264.44	BUBBLE
9		1224	16.9	0	0	✓ 11.623	✓				✓						340.87	
10							✓				✓							
11																		
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23																		

ENTERED BY: DFM/DRY

CHECKED BY:

Bottom Depth: 165

Cast # down: 95

Cast # up:

Time LOC UTC

Begin: 2014

Bottom:

End: 2026

START POSITION (GPS)

LAT: 49 21.32

LONG: 123 35 01

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49 21.37

LONG: 123 35 16

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: NI05UTC DATE y/m/d: 96/6/13
CAST NO.: 96SHIP: 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		1225	9.5	250	250	✓ 30.755		✓				✓						136.08
2		1226	9.1	150	150	✓ 30.351		✓				✓						183.61
3		1228	9.3	125	126	✓ 30.200		✓				✓						184.22
4		1229	9.0	100	100	✓ 30.008		✓				✓						190.36
5		1230	9.3	75	75	✓ 29.780		✓				✓						189.77
6		1231	8.9	50	50	✓ 29.470		✓				✓						190.66
7		1232	8.2	30	30	✓ 29.283		✓				✓						185.19
8		1233	9.7	20	20	✓ 28.992		✓				✓						195.50
9		1234	11.1	10	10	✓ 28.042		✓				✓						243.38
10		1237	15.9	0	0	✓ 14.981		✓				✓						376.41
11																		
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23																		

ENTERED BY: DFM/DRY
CHECKED BY:Bottom Depth: 261Cast # down: 96

Cast # up:

Time PDT LOC UTCBegin: 2054

Bottom:

End: 2108

START POSITION (GPS)

LAT: 49 19.55LONG: 123 38.76

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49 19.38LONG: 123 38.65

Comments:

Rosette Log

CRUISE ID:

9613

UTC DATE y/m/d:

96/6/13

SHIP:

Tully

STATION NAME:

N104

CAST NO.:

97

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		Serial #	°C/dbar
1		1235	9.4	250	250	✓ 30.813		✓				✓						241.32
2		1238	9.2	150	150	✓ 30.411		✓				✓						179.47
3		1240	9.3	125	125	✓ 30.282		✓				✓						189.05
4		#2004	9.3	100	100	✓ 29.945		✓				✓						184.07 °AD TRACE
5		2007	9.1	75	75	✓ 29.739		✓				✓						187.00
6		2008	8.9	50	50	✓ 29.540		✓				✓						184.30
7		2009	9.3	30	30	✓ 29.180		✓				✓						184.12
8		2010	10.6	20	20	✓ 28.784		✓				✓						199.52
9		2012	12.3	10	9	✓ 28.222		✓				✓						256.65
10		2014	16.1	0	0	✓ 16.686		✓				✓						367.63
11																		
12																		
13																		
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15																		
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ENTERED BY: DRY/DFM.

CHECKED BY:

Bottom Depth: 290

Cast # down: 97

Cast # up:

Time LOC UTC

Begin: 2133

Bottom:

End: 2149

START POSITION (GPS)

LAT: 49 17.74

LONG: 123 42.29

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49 17.60

LONG: 123 42.07

Comments:

Rosette Log

CRUISE ID:

STATION NAME:

9613

N103

PDT

DATE y/m/d:

CAST NO.:

96/6/13

98

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	CI3	ALK	NUT	SAL	CHL	POC		DO2 ($\mu\text{mol/kg}$)	Serial # °C/dbar
1		2015	9.7	400	400	✓ 30.49		✓				✓					108.88	
2		2017	9.7	300	300	✓ 30.974		✓				✓					117.32	
3		2018	9.4	150	150	✓ 30.463		✓				✓					166.31	
4		2019	9.1	100	100	✓ 29.798		✓				✓					189.67	
5		2025	8.8	75	75	✓ 29.650		✓				✓					184.97	
6		2027	9.0	50	50	✓ 29.418		✓				✓					184.30	
7		2032	9.4	30	30	✓ 29.016		✓				✓					196.35	
8		2033	10.2	20	20	✓ 28.626		✓				✓					218.05	
9		2034	10.9	10	10	✓ 27.533		✓				✓					247.65	
10		2035	15.2	0	0	✓ 22.307		✓				✓					383.67	
11																		
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ENTERED BY: DRY/DFM

CHECKED BY:

Bottom Depth: 412

Cast # down: 98

Cast # up:

Time LOC UTC

Begin: 2219

Bottom:

End: 2241

START POSITION (GPS)

LAT: 49 15.89

LONG: 123 45.89

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49 15.65

LONG: 123 45.62

Comments:

Rosette Log

CRUISE ID: 9613
STATION NAME: N102PDT
UTC DATE y/m/d: 96/06/13
CAST NO.: 99SHIP: 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		1211	9.7	300 283	283	✓ 30.360	✓				✓						114.88	
2		1212	9.2	150	150	✓ 30.319	✓				✓						176.27	
3		1213	9.2	125	125	✓ 30.064	✓				✓						188.12	
4		1214		100	100	✓	✓				✓							
5		1215	9.0	75	75	✓ 29.578	✓				✓						178.47	
6		1216	9.2	50	50	✓ 29.402	✓				✓						177.44	
7		1217	9.8	30	30	✓ 29.097	✓				✓						194.10	
8		1218	10.1	20	20	✓ 28.903	✓				✓						201.66	
9		1219	12.1	10	10	✓ 27.256	✓				✓						344.54	
10		1220	15.3	0	0	✓ 17.787	✓				✓						375.94	
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23																		

ENTERED BY:
CHECKED BY:Bottom Depth: ~~300~~ 295

Cast # down: 99

Cast # up:

PDT
Time LOC UTC
Begin: 2310
Bottom:
End: 2328START POSITION (GPS)
LAT: 49 14.54
LONG: 123 48.75BOTTOM POSITION (GPS)
LAT:
LONG:END POSITION (GPS)
LAT: 49 14.42
LONG: 123 48.87

Comments:

Rosette Log

CRUISE ID:

9613

UTC DATE y/m/d:

96/8/13

SHIP:

Tully

STATION NAME:

N101

CAST NO.:

100

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		DO2 (μ mol/kg)	Serial # °C/dbar
1		1214	9.1	100	97	✓ 29.658		✓				✓					177.31	
2		1221	9.0	75	75	✓ 29.516		✓				✓					188.27	
3		1222	9.4	50	50	✓ 29.277		✓				✓					176.92	
4		1223	9.6	30	30	✓ 29.062		✓				✓					190.89	
5		1224	9.9	20	20	✓ 28.836		✓				✓					198.70	
6		1225	9.9	10	10	✓ 28.065		✓				✓					210.57	
7		1226	14.9	0	0	✓ 18.347		✓				✓					376.11	
8																		
9																		
10																		
11																		
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ENTERED BY: DRY/AFM.

CHECKED BY:

Bottom Depth: 104

Cast # down: 100

Cast # up:

Time LOC UTC

Begin: 2356

Bottom:

End: 0003

START POSITION (GPS)

LAT: 49 13.28

LONG: 123 51.36

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49 13.24

LONG: 123 51.41

Comments: