

Rosette Log

CRUISE ID:

9713

UTC DATE y/m/d:

97/07/17

SHIP:

STATION NAME:

2601

CAST NO.:

2

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	1	1010	8.7	50	50.1	32.3540		✓				✓		✓				
2	2	1020	9.2	30	29.2	31.8769		✓				✓		-				
3	3	1028	9.2	20	18.8	31.8157		✓				✓		✓				
4	4	1031	11.1	10	9.7	30.9480		✓				✓		✓	✓			
5	5	1032	14.9	0	.4	29.7777		✓				✓		✓		✓		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 55

Cast # down: 1

Cast # up: 2

Time LOC UTC

Begin:

Bottom: 2058

End: 2058

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 49 20.27

LONG: 126 35.17

END POSITION (GPS)

LAT: 49 20.267

LONG: 126 35.170

Comments:

24

Rosette Log

CRUISE ID: 9713
STATION NAME: L02

UTC DATE y/m/d: 97/07/17
CAST NO.: 86

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC	OXY	TCO	C13	ALK	NUT	SAL	CHL	POC	PhyC	Serial #	°C / dbar
1	6	1036	7.6	100	100.5	✓ 33.6480		✓				✓						
2	7	1056	7.9	75	75.6	✓ 33.3037		✓				✓						
3	8	1054	8.6	30	50.4	✓ 32.5183		✓				✓		✓				
4	9	1052	8.9	30	30.3	✓ 32.1174		✓				✓		✓				
5	10	1047	9.3	20	20.4	✓ 31.8320		✓				✓		✓				
6	11	1045	10.8	10	10.2	✓ 31.3117		✓				✓		✓		✓		
7	12	1039	14.7	0	1.0	✓ 30.2729		✓				✓		✓		✓		
8																		
9																		
10																		
11																		
12																		
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23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 105

Cast # down: 5
Cast # up: 6

Time	LOC	UTC
Begin:		
Bottom:		01:13
End:	18:24	01:24

START POSITION (GPS)
LAT: 49 18 68
LONG: 126 38 27

BOTTOM POSITION (GPS)
LAT: 49 18.70
LONG: 126 38.28

END POSITION (GPS)
LAT: 49 18 70
LONG: 126 38 28

Comments:

Steve sampled.

Rosette Log

CRUISE ID: 9713
STATION NAME: LG03UTC DATE y/m/d: 97107116
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	13	1062	7.6	125	123.6	✓ 33.1436	✓				✓	✓						
2	14	1065	7.3	100	98.9	✓ 33.2672	✓				✓	✓						
3	15	1068	7.5	75	73.3	✓ 33.5232	✓				✓	✓						
4	16	1079	7.8	50	50.1	✓ 33.5497	✓				✓	✓	✓					
5	17	1084	8.1	30	29.2	✓ 33.6518	✓				✓	✓	✓					
6	18	1090	8.5	20	20.3	✓ 33.6012	✓				✓	✓	✓					
* 7	19	1092	9.5	10	9.1	✓ 33.2009	✓				✓	✓	✓		✓			
8	20	1096	12.4	5	6.1	✓ 30.9646	✓					✓						
9	21	1100	15.4	0	.9	✓ 29.9598	✓				✓	✓	✓		✓			
10																		
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ENTERED BY:
CHECKED BY:Bottom Depth: 125Cast # down: 13Cast # up: 14

Time	LOC	UTC
Begin:		
Bottom:		<u>03:41:51</u>
End:		

START POSITION (GPS)	
LAT:	
LONG:	

BOTTOM POSITION (GPS)	
LAT:	<u>49 14.87</u>
LONG:	<u>126 43.59</u>

END POSITION (GPS)	
LAT:	<u>49 14.86</u>
LONG:	<u>126 43.55</u>

Comments:

* Cap was loose. I may have loosened it prior to taking sample O2. RET.

Rosette Log

CRUISE ID: 9713
STATION NAME: UG04

UTC DATE y/m/d: 97/07/17
CAST NO.: 18

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		DOC		Serial #	°C / dbar
1	22	1103	7.2	135*	138.8	✓ 33.8955		✓				✓						
2	23	1104	7.2	125	124.9	✓ 33.8920		✓				✓						
3	24	1105	7.6	100	101.3	✓ 33.8190		✓				✓						
4	25	1106	7.9	75	74.1	✓ 33.4380		✓				✓						
5	26	1122	8.2	50	50.0	✓ 32.8284		✓				✓		✓				
6	27	1110	9.3	30	30.7	✓ 32.2352		✓				✓		✓				
7	28	1113	10.1	20	20.3	✓ 32.0574		✓				✓		✓				
8	29	1114	12.2	10	10.6	✓ 31.1444		✓				✓		✓	✓			
9	30	1119	15.9	0	0.	✓ 29.6071		✓				✓		✓	✓			
10																		
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23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 143

Cast # down: 17

Cast # up: 18

Time LOC UTC
Begin:
Bottom: 0644
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 49 11.21
LONG: 126 49.42

END POSITION (GPS)
LAT:
LONG:

Comments:

* about 5m off bottom - two very bad data points on screen on up-cast.
* 1109 flask stopper jammed + broke replaced by 1122

Rosette Log

CRUISE ID:

9713

UTC DATE y/m/d:

97/07/17

SHIP:

STATION NAME:

LG86

CAST NO.:

22

Niskin No.	Sample No.	OXY. Flask	STO OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	31	1126	3.8	1000	1602.3	34.3410		✓										
2	32	1128	3.9	1900	899.8	34.3124		✓										
3	33	1130	4.2	800	798.0	34.2633		✓										
4	34	1132	4.6	600	599.6	34.1489		✓										
5	35	1133	4.9	500	499.9	34.0579		✓										
6	36	1134	5.4	400	398.6	34.0010		✓										
7	37	1135	6.0	300	299.4	33.9531		✓										
8	38	1136	6.3	250	250.1	33.9303		✓										
9	39	1137	6.9	200	194.8	33.9016		✓										
10	40	1138	7.2	175	175.1	33.8833		✓										
11	41	1139	7.5	150	149.6	33.8090		✓										
12	42	1140	7.9	125	120.6	33.6545		✓										
13	43	1141	8.2	100	100.1	33.2851		✓										
14	44	1142	8.3	75	75.7	32.5978		✓										
15	45	1143	9.3	50	48.8	32.4673		✓										
16	46	1144	11.2	30	28.1	32.3885		✓										
17	47	1145	12.6	20	21.1	32.3174		✓										
18	48	1146	15.9	10	11.9	30.3177		✓										
19	49	1148	15.9	0	.2	30.2972		✓										
20																		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: ?

Cast # down: 21

Cast # up: 22

Time LOC UTC

Begin: 0932

Bottom: 0953

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 49 03.35

LONG: 127 01.48

END POSITION (GPS)

LAT:

LONG:

Comments:

Rosette Log

CRUISE ID: 9713
 STATION NAME: LC05

UTC DATE y/m/d: 97/07/17
 CAST NO.: 24

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	50	1010	5.9	3-10	326.3	✓34.0312												
2	51		5.9	300	299.5	✓34.0243												
3	52	1028	6.0	275	274.4	✓34.0186												
4	53	1031	6.2	250	254.7	✓34.0022												
5	54	1032	6.6	225	224.8	✓33.9632												
6	55	1036	6.7	200	200.2	✓33.9418												
7	56	1056	6.9	175	174.4	✓33.8932												
8	57	1054	7.3	150	149.3	✓33.8405												
9	58	1052	7.6	125	124.4	✓33.7744												
10	59	1047	8.1	100	99.7	✓33.5563												
11	60	1045	8.3	75	75.5	✓32.8531												
12	61	1039	8.6	50	49.4	✓32.4820												
13	62	1062	9.4	30	30.0	✓32.2398												
14	63	1065	10.6	20	20.3	✓32.0517									✓			
15	64	1068	10.6	20	20.0	✓32.0484				✓		✓		✓	✓	✓		
16	65	1079	11.5	15	14.3	✓31.7084				✓		✓		✓				
17	66	1084	14.9	10	8.9	✓30.1944					✓			✓	✓			
18	67	1090	14.6	10	9.5	✓30.3649				✓		✓		✓	✓	✓		
19	68	1092	15.3	5	4.4	✓29.9859					✓			✓				
20	69	1096	15.3	5	5.2	✓29.9761					✓			✓	✓			
21	70	1100	15.3	5	5.1	✓29.9841				✓		✓		✓	✓	✓		
22	71	1103	15.3	3	1.3	✓29.9685					✓			✓	✓			
23	72	1104	15.3	3	1.8	✓29.9812					✓			✓	✓	✓		

ENTERED BY:
 CHECKED BY:

Bottom Depth: 32/Cast # down: 23Cast # up: 24

Time LOC UTC
 Begin:
 Bottom: 13:40
 End:

START POSITION (GPS)
 LAT:
 LONG:

BOTTOM POSITION (GPS)
 LAT: 49 06.90
 LONG: 126 55.96

END POSITION (GPS)
 LAT:
 LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LG03

UTC DATE y/m/d: 97/07/17
CAST NO.: 26

SHIP: 115

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	73	1164	7.2	117	117.0	✓33.8681						✓						
2	74	1165	7.2	100	99.0	✓33.8497						✓						
3	75	1167	7.9	75	74.9	✓33.3538						✓						
4	76	1168	8.3	50	49.6	✓32.7976						✓						
5	77	1169	8.5	30	30.1	✓32.4824						✓						
6	78	1171	9.2	20	19.8	✓32.1314												
7	79	1173	9.3	20	20.7	✓32.1185												
8	80	1174	9.3	20	19.9	✓32.1148												
9	81	1175	9.4	20	20.2	✓32.0939												
10	82	1176	10.8	15	14.8	✓31.6460					✓	✓		✓				
11	83	1177	11.7	10	10.6	✓31.3708					✓	✓	✓		✓	✓	✓	
12	84	1178	11.7	10	10.3	✓31.3838												
13	85	1180	14.9	5	4.8	✓30.1761					✓	✓		✓			✓	
14	86	1181	14.5	0	2.3	✓30.3613												
15	87	1182	14.6	0	1.9	✓30.3031												
16	88	1183	14.6	0	1.5	✓30.3110												
17	89	1187	14.6	0	1.7	✓30.3172												
18	90	1188	14.6	0	2.3	✓30.3274												
19	91	1189	14.6	0	2.1	✓30.3471					✓	✓	✓		✓	✓	✓	
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 125

Cast # down: 25

Cast # up: 26

Time LOC UTC
Begin:
Bottom: 15:41
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 49 15.15
LONG: 126 43.76

END POSITION (GPS)
LAT:
LONG:

Comments: This station had a time series completed which involved combining niskin 6-9 and 14-17 in separate carboys and then sampling this composite sample

Rosette Log

CRUISE ID: 9713
STATION NAME: LM01

UTC DATE y/m/d: 97/07/18
CAST NO.: 28

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			
								OXY		CI3		NUT		CHL				Serial #
1	92	1010	7.5	81	81.1	✓33.5156		✓										
2	93	1020	7.6	75	75.0	✓33.4494		✓										
3	94	1028	8.2	50	49.4	✓32.8981		✓										
4	95	1031	8.6	30	29.0	✓32.5226		✓										
5	96	1032	9.8	20	20.2	✓32.8222		✓										
6	97	1036	11.2	10	10.7	✓31.5538		✓										
7	98	1056	13.5	0	1.3	✓30.8187		✓										
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ENTERED BY:
CHECKED BY:

Bottom Depth: 83

Cast # down: 27
Cast # up: 28

Time LOC UTC
Begin:
Bottom: 0452
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 50 12.43
LONG: 127 57.63

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LM1A

UTC DATE y/m/d: 97107118
CAST NO.: 30

SHIP:

75

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	99	1054	7.3	8.1	8.0	✓33.6773		✓										
2	100	1052	7.4	7.5	75.0	✓33.6197		✓										
3	101	1047	7.9	50	50.4	✓33.1535		✓										
4	102	1045	9.9	130	30.3	✓32.0279		✓										
5	103	1039	10.3	20	20.1	✓31.8575		✓										
6	104	1062	11.0	10	10.2	✓31.5532		✓										
7	105	1065	13.1	0	1.3	✓30.8790		✓										
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23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 85

Cast # down: 29
Cast # up: 30

Time LOC UTC
Begin:
Bottom: 0534
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 50 10.92
LONG: 128 00 67

END POSITION (GPS)
LAT:
LONG:

Comments:

Orange
Scale

Rosette Log

CRUISE ID: 9713
STATION NAME: LM02

UTC DATE y/m/d: 97/07/18
CAST NO.: 32

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken												Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC				Serial #	°C / dbar
1	106	1068	6.7	155	155.3	✓ 33.9314		✓												
2	107	1079	6.7	150	150.0	✓ 33.9237		✓												
3	108	1084	6.9	125	125.0	✓ 33.9027		✓												
4	109	1090	7.3	100	100.3	✓ 33.7663		✓												
5	110	1092	7.5	75	75.2	✓ 33.5465		✓												
6	111	1096	8.0	50	50.3	✓ 32.9911		✓												
7	112	1100	9.2	30	30.2	✓ 32.2613		✓												
8	113	1103	10.5	20	20.1	✓ 31.7219		✓												
9	114	1104	11.8	10	10.3	✓ 31.3056		✓												
10	115	1105	12.9	0	14	✓ 30.7441		✓												
11																				
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22																				
23																				

ENTERED BY:
CHECKED BY:

Bottom Depth: 155

Cast # down: 31

Cast # up: 32

Time	LOC	UTC
Begin:		
Bottom:	0613	
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 50 09 01
LONG: 128 03.85

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: L1103UTC DATE y/m/d: 97107/18
CAST NO.: 34SHIP: ✓

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	116	1106	3.1		1185.8	✓ 34.3951												
2	117	1122	3.5	1000	998.9	✓ 34.3299												
3	118	1110	4.3	750	749.7	✓ 34.2107												
4	119	1113	5.3	500	501.1	✓ 34.0664												
5	120	1114	5.7	400	402.0	✓ 34.0306												
6	121	1119	6.1	300	300.3	✓ 33.9791												
7	122	1126	6.4	250	250.0	✓ 33.9539												
8	123	1128	6.6	200	200.7	✓ 33.9426												
9	124	1130	7.1	150	150.7	✓ 33.9069												
10	125	1132	7.2	125	125.1	✓ 33.8131												
11	126	1133	7.6	100	100.5	✓ 33.6281												
12	127	1134	8.0	75	74.4	✓ 33.0534												
13	128	1135	8.6	50	49.7	✓ 32.5070												
14	129	1136	9.5	30	29.9	✓ 32.3235												
15	130	1137	10.7	20	20.3	✓ 31.9767												
16	131	1138	13.9	10	10.4	✓ 31.1257												
17	132	1139	14.1	0	0.3	✓ 30.9860												
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 1180

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		<u>07:30</u>
Bottom:		<u>07:53</u>
End:		

START POSITION (GPS)
LAT:
LONG:BOTTOM POSITION (GPS)
LAT: 5° 5.24 N
LONG: 128 10.31 WEND POSITION (GPS)
LAT:
LONG:

Comments:

1 weird data point on downcast (#33)
CTD

Rosette Log

CRUISE ID: 9713
STATION NAME: LMO4UTC DATE y/m/d: 1997/07/18
CAST NO.: 36SHIP: ✓

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	133	1140	3.0	1200	1200.3	✓34.4093							✓					
2	134	1141	3.6	1000	1000.8	✓34.3286							✓					
3	135	1142	4.2	800	799.8	✓34.2354							✓					
4	136	1143	4.9	600	600.3	✓34.1224							✓					
5	137	1144	5.2	500	500.7	✓34.0742							✓					
6	138	1145	5.6	400	399.2	✓34.0323												
7	139	1146	6.1	300	299.6	✓33.9865												
8	140	1148	6.5	250	248.6	✓33.9748												
9	141	1150	6.8	200	199.6	✓33.9315												
10	142	1151	7.3	150	150.3	✓33.8750												
11	143	1152	7.3	125	124.2	✓33.7229												
12	144	1153	7.7	100	100.1	✓33.4643												
13	145	1154	8.0	75	74.9	✓32.9148												
14	146	1155	9.1	50	50.6	✓32.3903												
15	147	1157	10.0	30	30.4	✓32.1627												
16	148	1158	11.0	20	20.7	✓31.8229												
17	149	1160	14.2	10	10.5	✓30.9055												
18	150	1163	14.2	0	1.2	✓30.8976												
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 1906Cast # down: 35Cast # up: 36

Time	LOC	UTC
Begin:		<u>09:05</u>
Bottom:		<u>0956</u>
End:		<u>10:43</u>

START POSITION (GPS)	
LAT:	<u>50 01.67 N</u>
LONG:	<u>128 16.79 W</u>

BOTTOM POSITION (GPS)	
LAT:	<u>50 01.21</u>
LONG:	<u>128 17.46</u>

END POSITION (GPS)	
LAT:	<u>50 00.55 N</u>
LONG:	<u>128 17.19 W</u>

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: L3P07

UTC DATE y/m/d: 97/07/18
CAST NO.: 40

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		DOC		Serial #	°C / dbar
1	151	1164	3.6	1000	1001.4	✓ 34.3342		✓				✓						
2	152	1165	4.1	800	798.6	✓ 34.2559		✓				✓						
3	153	1167	5.2	500	498.3	✓ 34.0918		✓				✓						
4	154	1168	5.9	300	303.4	✓ 33.9820		✓				✓						
5	155	1169	7.1	150	151.1	✓ 33.8798		✓				✓						
6	156	1171	7.5	100	100.9	✓ 33.7154		✓				✓						
7	157	1173	7.8	75	74.8	✓ 33.5186		✓				✓						
8	158	1174	8.1	50	49.3	✓ 32.8752		✓				✓						
9	159	1175	10.0	30	29.9	✓ 32.0372		✓		✓	✓	✓		✓	✓	✓		
10	160	1176	9.6	30	30.0	✓ 32.0338		✓				✓		✓				
11	161	1177	11.0	20	19.8	✓ 31.5424		✓		✓		✓		✓				
12	162	1178	11.2	15	14.7	✓ 31.5555		✓		✓	✓	✓		✓	✓	✓		
13	163	1180	11.3	15	14.7	✓ 31.5458		✓				✓		✓				
14	164	1181	12.9	10	9.8	✓ 31.0804		✓		✓		✓		✓				
15	165	1182	12.9	5	4.0	✓ 31.0714		✓		✓	✓	✓		✓	✓	✓		
16	166	1183	12.9	5	4.4	✓ 31.0690		✓				✓		✓				
17	167	1187	12.9	5	4.5	✓ 31.0692		✓										
18	168	1188	12.9	5	4.4	✓ 31.0693		✓										
19	169	1189	13.0	0.8	.9	✓ 31.0681		✓		✓	✓	✓		✓	✓	✓		
20	170	1191	13.0	0.8	1.0	✓ 31.0685		✓				✓						
21		1192				added too much acid, w/ same volume - may affect value												
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 7200

Cast # down: 39

Cast # up: 40

Time LOC UTC
Begin: 07:05 14:05
Bottom: 14:24:54
End: 14:51

START POSITION (GPS)
LAT: 49 52.37
LONG: 128 11.01

BOTTOM POSITION (GPS)
LAT: 49 52.50
LONG: 128 10 90

END POSITION (GPS)
LAT: 49 52.69
LONG: 128 10 64

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LBPO6UTC DATE y/m/d: 97/07/18
CAST NO.: 421SHIP: ✓

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	171	1192	4.3	737	737.0	✓ 34.2258		✓										
2	172	1193	4.8	600	599.6	✓ 34.1392		✓				✓						
3	173	1194	4.8	600	599.0	✓ 34.1393		✓				✓						
4	174	1190	5.0	500	499.8	✓ 34.1051		✓				✓						
5	175	1195	5.6	400	400.3	✓ 34.0444		✓				✓						
6	176	1196	6.1	300	299.9	✓ 33.9824		✓				✓						
7	177	1197	6.4	250	249.8	✓ 33.9670		✓				✓						
8	178	1198	6.9	200	200.0	✓ 33.9533		✓				✓						
9	179	1201	7.1	175	175.1	✓ 33.9275		✓				✓						
10	180	1202	7.2	150	150.3	✓ 33.9054		✓				✓						
11	181	1203	7.4	125	124.4	✓ 33.8460		✓				✓						
12	182	1204	7.6	100	99.7	✓ 33.7643		✓				✓						
13	183	1206	7.8	75	74.8	✓ 33.5548		✓				✓						
14	184	1208	7.9	50	49.3	✓ 33.1720		✓				✓		✓				
15	185	1209	8.7	30	29.7	✓ 32.4085		✓				✓		✓				
16	186	1210	9.8	20	19.8	✓ 31.9435		✓				✓		✓				
17	187	1211	12.5	10	9.3	✓ 31.2071		✓				✓		✓	✓			
18	188	1212	13.0	0	1.1	✓ 31.0067		✓				✓		✓		✓		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 740Cast # down: 41Cast # up: 42

Time	LOC	UTC
Begin:		
Bottom:		<u>16:29:29</u>
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: <u>49 56.03</u>
LONG: <u>128 05.07</u>

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LBPO4UTC DATE y/m/d: 9710718
CAST NO.: 44SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
							OXY		C13		NUT		CHL					
1	189	1213	3.3	1117	1117.9	✓34.3705					✓							
2	190	1214	4.1	800	799.4	✓34.2365					✓							
3	191	1215	5.2	500	499.6	✓34.0669					✓							
4	192	1216	5.7	400	399.2	✓34.0185					✓							
5	193	1217	6.3	300	299.9	✓33.9689					✓							
6	194	1218	6.8	200	200.0	✓33.9407					✓							
7	195	1219	7.0	150	150.0	✓33.9207					✓							
8	196	1220	7.4	100	100.1	✓33.8510					✓							
9	197	1221	7.7	75	75.1	✓33.6786					✓							
10	198	1222	7.8	60	60.2	✓33.3702					✓							
11	199	1223	7.8	60	60.0	✓33.3607												
12	200	1224	7.8	60	60.1	✓33.3595												
13	201	1225	7.8	60	60.3	✓33.3705												
14	202	1226	7.9	50	50.0	✓33.0083												
15	203	1228	8.1	40	40.2	✓32.8253												
16	204	1229	8.5	30	30.2	✓32.4944												
17	205	1230	8.5	30	30.2	✓32.4864												
18	206	1231	9.3	15	15.0	✓32.0385												
19	207	1232	10.7	10	9.9	✓31.6079												
20	208	1234	10.8	10	10.1	✓31.5977												
21	209	1235	10.7	10	10.1	✓31.6184		N/A										
22	210	1235	10.8	10	10.1	✓31.6140												
23	211	1237	12.4	0	0.2	✓31.2566		N/A										

Comments: 24-212 1237 12.4 0 0.2 ✓31.2531ENTERED BY:
CHECKED BY:Bottom Depth: 1125

Cast # down:

Cast # up:

Time LOC UTC

Begin:

Bottom: 4 18:44:20

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 50 01.32 NLONG: 127 58.14 W

END POSITION (GPS)

LAT:

LONG:

Rosette Log

CRUISE ID: 9713
STATION NAME: LBP05UTC DATE y/m/d: 97/07/18
CAST NO.: 46SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C/dbar
1	213		3.0	1254	1254.2	✓ 34.4056		✓				✓						.454
2	214		3.6	1000	998.9	✓ 34.3148												.356
3	215		4.2	800	799.6	✓ 34.2306												.354
4	216		4.9	600	600.0	✓ 34.1146												.626
5	217		5.3	500	500.1	✓ 34.0693												.872
6	218		5.6	400	400.2	✓ 34.0360												1.112
7	219		6.1	300	300.3	✓ 33.9918												1.549
8	220		6.4	250	250.0	✓ 33.9717												1.776
9	221		6.7	200	200.1	✓ 33.9433												1.833
10	222		6.9	150	150.0	✓ 33.9231												1.812
11	223		7.2	125	125.3	✓ 33.9057												2.114
12	224		7.4	100	100.4	✓ 33.8126												2.267
13	225		7.7	75	75.1	✓ 33.5356												2.849
14	226		7.9	50	50.1	✓ 33.1565								✓				3.874
15	227		8.6	30	30.2	✓ 32.5176								✓				4.111
16	228		9.2	20	20.0	✓ 32.1530								✓				4.087
17	229		10.7	10	9.7	✓ 31.6127						✓		✓	✓			5.087
18	230		12.7	5	5.1	✓ 31.0730												5.626
19	231		14.0	0	.2	✓ 30.9175		✓				✓		✓		✓		6.058
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 1284Cast # down: 45Cast # up: 46

Time	LOC	UTC
Begin:	<u>1832</u>	<u>2132</u>
Bottom:		<u>2158'40</u>
End:		<u>2233</u>

START POSITION (GPS)	
LAT:	<u>50 00.00</u>
LONG:	<u>128 00.14</u>

BOTTOM POSITION (GPS)	
LAT:	<u>49 59.74</u>
LONG:	<u>128 00.35</u>

END POSITION (GPS)	
LAT:	<u>49 59 59</u>
LONG:	<u>128 00 52</u>

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LBPO3

UTC DATE y/m/d: 97/07/18
CAST NO.: 48

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	Other	Serial #	°C / dbar
1	232	1096	6.8	154	154.2	✓ 33.9414					✓							1.816
2	233	1100	6.9	125	125.6	✓ 33.9303					✓							1.857
3	234	1103	7.2	100	99.8	✓ 33.8767					✓							2.047
4	235	1104	7.4	75	75.0	✓ 33.7531					✓							2.235
5	236	1105	7.8	50	50.2	✓ 33.4464					✓		✓					2.875
6	237	1106	8.6	30	29.8	✓ 32.4247					✓		✓					3.830
7	238	1122	9.0	20	19.9	✓ 32.1791					✓		✓					3.713
8	239	1110	10.3	10	9.9	✓ 31.7827					✓		✓		✓			4.399
9	240	1113	13.1	0	.8	✓ 31.0843					✓		✓			✓		5.738
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 172

Cast # down: 47

Cast # up: 48

Time	LOC	UTC
Begin:		<u>23 18</u>
Bottom:		<u>23:23:09</u>
End:		<u>23 30</u>

START POSITION (GPS)
LAT: 50 03 16
LONG: 127 55 50

BOTTOM POSITION (GPS)
LAT: 50 03 19
LONG: 127 55 52

END POSITION (GPS)
LAT: 50 03 28
LONG: 127 55 53

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LRP 02UTC DATE y/m/d: 97107119
CAST NO.: 50SHIP: 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 #	O ₂ °C / dbar
1	241	1126	7.2	90	92.0	✓ 33.8920						✓						2.032
2	242	1128	7.3	75	75.4	✓ 33.8001						✓						2.026
3	243	1130	7.7	50	50.4	✓ 33.4862						✓		✓				2.581
4	244	1134	8.4	30	29.9	✓ 32.6323						✓		✓				3.779
5	245	1132	9.2	20	19.8	✓ 32.0794						✓		✓				3.849
6	246	1133	10.5	10	9.6	✓ 31.7408						✓		✓	✓			4.578
7	247	1135	11.2	5	4.9	✓ 31.5320												5.149
8	248	1136	11.3	0	1.0	✓ 31.5152						✓		✓		✓		5.195
9																		
10																		
11																		
12																		
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16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 98Cast # down: 49Cast # up: 50

Time	LOC	UTC
Begin:		00 38
Bottom:		00 46 23
End:		00 46

START POSITION (GPS)	
LAT:	<u>50 03.91</u>
LONG:	<u>127 54.09</u>

BOTTOM POSITION (GPS)	
LAT:	<u>50 03.87</u>
LONG:	<u>127 54.09</u>

END POSITION (GPS)	
LAT:	<u>50 03.86</u>
LONG:	<u>127 54.07</u>

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LBPO1UTC DATE y/m/d: 97/07/19
CAST NO.: 52SHIP: 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	249		8.2	50	49.9	✓ 32.9030					✓		✓					3.072
2	250		8.7	30	29.9	✓ 32.3918					✓		✓					3.621
3	251		9.0	20	20.1	✓ 32.1914					✓		✓					3.742
4	252		10.1	10	9.0	✓ 31.8284					✓		✓		✓			4.321
5	253		11.0	0	1.0	✓ 31.6455					✓		✓		✓			4.910
6																		
7																		
8																		
9																		
10																		
11																		
12																		
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16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 58Cast # down: 51Cast # up: 57

Time LOC UTC

Begin: 0215Bottom: 02:18:38End: 0224

START POSITION (GPS)

LAT: 50 04 67LONG: 127 52 86

BOTTOM POSITION (GPS)

LAT: 50 04 64LONG: 127 52.87

END POSITION (GPS)

LAT: 50 04 65LONG: 127 52 91

Comments:

SAMS 63

Rosette Log

CRUISE ID: 9713
STATION NAME: LK01

UTC DATE y/m/d: 97/06/19
CAST NO.: 54

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	254	1164	8.4	57	57.6	✓32.7589												
2	255	1165	8.6	50	50.5	✓32.5524												
3	256	1167	8.8	30	30.1	✓32.3513												
4	257	1168	9.3	20	21.0	✓32.0576												
5	258	1169	10.1	10	10.7	✓31.7617												
6	259	1171	12.2	0	1.0	✓30.4190												
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 60

Cast # down: 53

Cast # up: 54

Time LOC UTC
Begin:
Bottom: 0502
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 4955.53
LONG: 12718.85

END POSITION (GPS)
LAT:
LONG:

Comments: 2m above bottom on down cast

65

Rosette Log

CRUISE ID: 9713
STATION NAME: LK03

UTC DATE y/m/d: 97/07/19
CAST NO.: 58

SHIP:



Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	260	1173	7.6	74	73.6	✓33.5464												
2	261	1174	8.2	50	49.6	✓32.8636												
3	262	1175	8.7	30	30.2	✓32.3922												
4	263	1176	9.2	20	19.9	✓32.1106												
5	264	1177	11.5	10	10.8	✓31.2392												
6	265	1178	12.4	0	1.4	✓30.7566												
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 76

Cast # down:
Cast # up:

Time LOC UTC
Begin:
Bottom: 0625
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 49 50.52
LONG: 127 27.75

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LK 04UTC DATE y/m/d: 97/06/19
CAST NO.: 60SHIP: ✓

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	266	1180	7.1	124	124.1	✓33.8251												
2	267	1181	7.1	113	113.1	✓33.8261												
3	268	1182	7.1	100	100.3	✓33.8245												
4	269	1183	7.6	75	75.3	✓33.4267												
5	270	1187	8.2	50	50.2	✓32.8276												
6	271	1188	8.5	30	30.5	✓32.4835												
7	272	1189	10.0	20	20.2	✓31.8362												
8	273	1191	11.4	10	10.1	✓31.3949												
9	274	1192	12.4	0	.9	✓31.1950												
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 105

Cast # down:

Cast # up:

Time LOC UTC

Begin: 07:21

Bottom:

End:

START POSITION (GPS)

LAT: 49 46.87 NLONG: 127 33.68 W

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments:

within 1m of bottom

Rosette Log

CRUISE ID: 9713
STATION NAME: LK05UTC DATE y/m/d: 97/07/19
CAST NO.: 62SHIP: ✓

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	275	1193	4.8		687.0	✓34.1462												
2	276	1194	4.8		646.1	✓34.1397												
3	277	1190	5.0		599.7	✓34.1060												
4	278	1195	5.3		500.3	✓34.0742												
5	279	1196	5.6		399.2	✓34.0239												
6	280	1197	6.2		298.7	✓33.9905												
7	281	1198	6.4		250.0	✓33.9688												
8	282	1201	6.7		199.5	✓33.9362												
9	283	1202	7.0		174.9	✓33.9113												
10	284	1203	7.4		148.0	✓33.8872												
11	285	1204	7.5		125.5	✓33.8196												
12	286	1206	7.8		100.4	✓33.7447												
13	287	1208	8.1		74.7	✓33.3199												
14	288	1207	8.4		49.9	✓32.5552												
15	289	1210	9.0		29.9	✓32.2465												
16	290	1211	9.6		20.4	✓31.9511												
17	291	1212	14.8		10.3	✓30.6019												
18	292	1213	15.1		.2	✓30.5905												
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 690Cast # down: 61Cast # up: 62

Time	LOC	UTC
Begin:		
Bottom:		<u>08:32:26</u>
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: <u>49 43.37</u>
LONG: <u>127 39.65</u>

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LK07UTC DATE y/m/d: 97/06/19
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		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	293	1214	2.2	1730	1729.9	✓ 34.5202							✓					
2	294	1215	2.6	1500	1500.0	✓ 34.4780		X					✓					
3	295	1216	3.2	1200	1199.9	✓ 34.4028							✓					
4	296	1217	3.6	1000	1000.2	✓ 34.3346							✓					
5	297	1218	4.1	800	799.1	✓ 34.2621							✓					
6	298	1219	4.7	600	598.7	✓ 34.1594												
7	299	1220	5.0	500	499.1	✓ 34.0765												
8	300	1221	5.3	400	399.7	✓ 33.9969												
9	301	1222	6.0	300	299.4	✓ 33.9590												
10	302	1223	6.3	250	249.4	✓ 33.9393												
11	303	1224	6.8	200	200.1	✓ 33.9020												
12	304	1225	7.1	175	174.4	✓ 33.8703												
13	305	1226	7.5	150	150.0	✓ 33.8028												
14	306	1228	8.0	125	125.2	✓ 33.6989												
15	307	1229	8.2	100	100.3	✓ 33.3651												
16	308	1230	8.1	75	75.5	✓ 32.7359												
17	309	1231	8.6	50	50.3	✓ 32.5288												
18	310	1232	10.2	30	29.9	✓ 32.3464												
19	311	1234	11.2	20	20.3	✓ 32.0124												
20	312	1235	15.9	10	10.1	✓ 30.4719												
21	313	1237	15.9	0	0.7	30.4839												
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 1741Cast # down: 65Cast # up: 66

Time	LOC	UTC
Begin:		<u>11:13</u>
Bottom:		<u>11:49:11</u>
End:		<u>12:26</u>

START POSITION (GPS)		
LAT:	<u>49</u>	<u>35 80</u>
LONG:	<u>127</u>	<u>52 06</u>

BOTTOM POSITION (GPS)		
LAT:	<u>49</u>	<u>35.85</u>
LONG:	<u>127</u>	<u>52.04</u>

END POSITION (GPS)		
LAT:	<u>49</u>	<u>35 87</u>
LONG:	<u>127</u>	<u>52 05</u>

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LH08UTC DATE y/m/d: 97/06/19
CAST NO.: 72SHIP:

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	314	1010	2.1	1900	1900.5	✓ 34.5424		✓					✓					
2	315	1020	2.6	1500	1500.9	✓ 34.4760		X					✓					
3	316	1028	3.2	1200	1200.4	✓ 34.4073							✓					
4	317	1031	3.7	1000	1000.7	✓ 34.3431							✓					
5	318	1032	4.1	800	799.6	✓ 34.2741							✓					
6	319	1036	4.7	600	600.2	✓ 34.1533							✓					
7	320	1056	5.0	500	500.4	✓ 34.0553							✓					
8	321	1054	5.4	400	400.4	✓ 33.9950												
9	322	1052	6.0	300	301.2	✓ 33.9421												
10	323	1047	6.4	250	249.9	✓ 33.9242												
11	324	1045	7.0	200	202.5	✓ 33.9060												
12	325	1039	7.3	175	176.0	✓ 33.8778												
13	326	1062	7.6	150	150.4	✓ 33.8050												
14	327	1065	7.9	125	125.6	✓ 33.6677												
15	328	1068	8.2	100	100.3	✓ 33.2838												
16	329	1074	8.1	75	74.8	✓ 32.6208												
17	330	1084	9.0	50	50.3	✓ 32.4531												
18	331	1090	10.8	30	29.6	✓ 32.3858												
19	332	1092	13.2	20	20.7	✓ 32.1774												
20	333	1096	14.8	10	10.2	✓ 30.6096												
21	334	1100	15.0	0	0.8	✓ 30.6104		✓										
22																		
23																		

ENTERED BY:
CHECKED BY: Bottom Depth: 1910Cast # down: Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		<u>1957</u>
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: <u>4909.66</u>
LONG: <u>12722.55</u>

END POSITION (GPS)
LAT:
LONG:

Comments: Bottle 2 did not close.

Rosette Log

CRUISE ID:

9713

UTC DATE y/m/d:

97/07/20

STATION NAME:

LH06

CAST NO.:

76

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	335	1010	5.5	490	491.7	✓	34.0638											964
2	336	1020	5.8	400	399.9	✓	34.0330											1.209
3	337	1020	6.2	300	301.6	✓	34.0038											1.534
4	338	1031	6.5	250	249.0	✓	33.9728											1.756
5	339	1032	6.8	200	200.9	✓	33.9328											2.253
6	340	1036	7.3	150	151.2	✓	33.8731											2.139
7	341	1056	7.5	125	126.6	✓	33.7647											2.403
8	342	1054	7.9	100	100.1	✓	33.6020											2.998
9	343	1052	8.3	75	74.3	✓	33.1159											4.409
10	344	1047	8.3	50	50.4	✓	32.5742											5.730
11	345	1045	9.4	30	30.0	✓	32.2312											5.148
12	346	1039	9.9	20	19.4	✓	31.9033											4.700
13	347	1002	10.6	10	8.4	✓	31.5957											4.651
14	348	1065	14.4	0	16	✓	30.8090											7.820
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 488

Cast # down: 75

Cast # up: 76

Time LOC UTC

Begin: 23:30

Bottom: 23:38:51

End: 2358

START POSITION (GPS)

LAT: 49 17 56

LONG: 127 10 52

BOTTOM POSITION (GPS)

LAT: 49 17.59

LONG: 127 10.53

END POSITION (GPS)

LAT: 49 17 63

LONG: 127 10 75

Rosette Log

CRUISE ID:

9713

UTC DATE y/m/d:

97/07/20

SHIP:

TULLY

STATION NAME:

LH04

CAST NO.:

80

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	349	1068	7.2	122	122.4	✓33.8951												1.376
2	350	1079	7.4	100	100.2	✓33.8260												2.138
3	351	1084	7.7	75	75.4	✓33.5283												2.615
4	352	1090	8.2	50	50.1	✓32.8238												
5	353	1092	8.8	30	31.2	✓32.2665												
6	354	1096	10.1	20	21.2	✓31.8092												
7	355	1100	13.1	10	10.7	✓30.9551												
8	356	1103	15.2	0	.6	✓30.3370												
9																		
10																		
11																		
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21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 135

Cast # down: 79

Cast # up: 80

Time LOC UTC

Begin:

Bottom: 0303

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 49 25.09

LONG: 126 58.96

END POSITION (GPS)

LAT:

LONG:

Comments:

Rosette Log

CRUISE ID: 97/13
STATION NAME: LH03

UTC DATE y/m/d: 97107/20
CAST NO.: 82

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	357	1104	7.4	96	95.2	✓ 33.7598												
2	358	1105	7.6	75	75.5	✓ 33.6416												
3	359	1106	8.3	50	50.1	✓ 32.7537												
4	360	1122	8.6	30	30.3	✓ 32.3845												
5	361	1110	9.6	20	20.4	✓ 31.9926												
6	362	1113	11.8	10	10.5	✓ 31.1084												
7	363	1114	13.9	0	.3	✓ 30.5111												
8																		
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22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 97

Cast # down: 81
Cast # up: 82

Time LOC UTC
Begin:
Bottom: 0422
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 49 28.73
LONG: 126 52.92

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID:

9713

UTC DATE y/m/d:

97107120

SHIP:

STATION NAME:

LN02

CAST NO.:

84

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	364	1126	8.7	50	49.7	✓	32.3823											
2	365	1128	9.0	30	30.6	✓	32.1995											
3	366	1130	9.1	20	20.2	✓	32.0145											
4	367	1134	9.5	10	10.1	✓	31.8516											
5	368	1132	11.2	0	1.8	✓	31.2741											
6																		
7																		
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23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 55

Cast # down: 83

Cast # up: 84

Time LOC UTC

Begin:

Bottom: 05:13:23

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 49 32.21

LONG: 126 47.42

END POSITION (GPS)

LAT:

LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: L401UTC DATE y/m/d: 97/07/20
CAST NO.: 86SHIP:

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		PHYC			
1	369	1133	9.2	30	30.3	✓ 31.9857		✓										
2	370	1135	9.4	20	19.9	✓ 31.8464		✓										
3	371	1136	10.9	10	9.9	✓ 31.1771		✓										
4	372	1137	11.3	0	1.1	✓ 31.0589		✓							✓✓			
5																		
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ENTERED BY:
CHECKED BY:Bottom Depth: 36Cast # down: 85
Cast # up: 86Time LOC UTC
Begin:
Bottom: 06 08
End:START POSITION (GPS)
LAT:
LONG:BOTTOM POSITION (GPS)
LAT: 49 34.42
LONG: 126 44.26END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LEO1

UTC DATE y/m/d: 97106120
CAST NO.: 88

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		PHYTO			
1	373	1138	9.0	40	38.7	✓	32.0612	✓						✓				
2	374	1139	9.0	30	29.7	✓	32.0124	✓						✓				
3	375	1148	9.2	20	20.4	✓	31.8606	✓						✓				
4	376	1141	9.6	10	10.0	✓	31.6198	✓						✓				
5	377	1142	10.7	0	0.1	✓	31.0186	✓						✓	✓			
6																		
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23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 46

Cast # down: 87
Cast # up: 88

Time	LOC	UTC
Begin:		11 09
Bottom:		11 12
End:		11 15

START POSITION (GPS)
LAT: 49 06 90
LONG: 126 01 12

BOTTOM POSITION (GPS)
LAT: 49 06 99
LONG: 126 01 16

END POSITION (GPS)
LAT: 49 07 01
LONG: 126 01 25

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: 1E02

UTC DATE y/m/d: 97/07/20
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		Serial #	°C / dbar
1	378	1143	8.5	50	49.0	✓ 32.5962	✓						✓					
2	379	1144	9.6	20	20.2	✓ 31.7465	✓						✓					
3	380	1145	11.3	10	10.2	✓ 30.8984	✓						✓					
4	381	1146	11.3	0	0.9	✓ 30.8783	✓						✓					
5																		
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ENTERED BY:
CHECKED BY:

Bottom Depth: 55

Cast # down: 89

Cast # up: 90

Time LOC UTC
Begin: 1149
Bottom: 1151
End:

START POSITION (GPS)
LAT: 4904 28
LONG: 126 04 62

BOTTOM POSITION (GPS)
LAT: 4904.34
LONG: 126 04.76

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LE 03UTC DATE y/m/d: 97107120
CAST NO.: 92SHIP: 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	382	1150	7.7	70	67.7	✓ 33.5750		✓										
2	383	1151	8.1	50	49.9	✓ 33.0514		✓						✓				
3	384	1152	9.1	20	20.0	✓ 32.1739		✓						✓				
4	385	1153	10.6	10	9.5	✓ 31.6054		✓						✓				
5	386	1154	13.6	0	0.7	✓ 30.9153		✓						✓				
6																		
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ENTERED BY:
CHECKED BY:Bottom Depth: 79Cast # down: 91Cast # up: 92

Time	LOC	UTC
Begin:		<u>1301</u>
Bottom:		
End:		<u>1308</u>

START POSITION (GPS)	
LAT:	<u>49 00.45</u>
LONG:	<u>126 10.84</u>

BOTTOM POSITION (GPS)	
LAT:	<u>0</u>
LONG:	

END POSITION (GPS)	
LAT:	<u>49 00.48</u>
LONG:	<u>126 11.00</u>

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LE 04

UTC DATE y/m/d: 97/07/20
CAST NO.: 94

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	387	1010	7.3	100	100.9	✓ 33.8627												
X 2	388	1020	7.6	75	74.2	✓ 33.7182												
X 3	389	1028	8.0	50	49.4	✓ 33.0737												
✓ 4	390	1031	9.5	20	19.6	✓ 32.0015												
✓ 5	391	1032	11.4	10	9.1	✓ 31.3876												
✓ 6	392	1036	14.3	0	1.1	✓ 30.7723												
7																		
8																		
9																		
10																		
11																		
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20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 119

Cast # down: 93
Cast # up: 94

Time	LOC	UTC
Begin:		13 48
Bottom:		
End:		13 55

START POSITION (GPS)
LAT: 48 56 55
LONG: 126 15 08

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48 56 33
LONG: 126 15 49

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LE05UTC DATE y/m/d: 97107120
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		TCO		ALK		SAL		POC		Serial #	°C / dbar
							OXY		C13		NUT		CHL					
0 X 1	393		7.0	150	150.3	✓	33.9127											
✓ 2	394	1054	7.5	125	125.2	✓	33.8217											
✓ 3	395	1052	7.6	100	99.8	✓	33.6920											
0 X 4	396		7.9	79	79.5	✓	33.3582											
✓ 5	397	1045	8.0	75	75.1	✓	33.2389											
✓ 6	398	1039	8.2	55	54.8	✓	32.7239											
✓ 7	399	1062	8.3	50	50.0	✓	32.6721											
✓ 8	400	1065	9.6	30	29.8	✓	32.0801			210.40								
0 X 9	401		10.9	20	19.6	✓	31.5363											
✓ 10	402	1079	14.2	10	9.9	✓	30.5958											
✓ 11	403	1084	14.4	0	0.3	✓	30.5956											
12																		
13	*																	
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 153Cast # down: 95
Cast # up: 96

Time	LOC	UTC
Begin:		
Bottom:		<u>15:23:46</u>
End:		

START POSITION (GPS)
LAT:
LONG:BOTTOM POSITION (GPS)
LAT: 48 52.95 N
LONG: 126 20.35 WEND POSITION (GPS)
LAT:
LONG:

Comments: * Sample was warm, causing bubbles, may have interfered slightly w/probe

Rosette Log

CRUISE ID: 9713
STATION NAME: LE06

UTC DATE y/m/d: 97/07/20
CAST NO.: 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		TCO		ALK		SAL		POC			Serial #	°C / dbar
								OXY		C13		NUT		CHL					
✓ 1	404	1090	6.9	208	202.4	✓ 33.9193													
✗ 2	405	1092	7.5	150	150.1	✓ 33.8266													
✗ 3	406	1096	7.9	125	125.2	✓ 33.6769													
✓ 4	407	1100	8.2	100	99.9	✓ 33.4791													
✓ 5	408	1103	8.2	75	75.1	✓ 32.7441													
✓ 6	409	1104	8.6	50	49.3	✓ 32.5034													
✓ 7	410	1105	10.1	30	30.0	✓ 32.3954													
✓ 8	411	1106	12.0	20	19.8	✓ 32.2393													
✓ 9	412	1122	13.4	10	10.2	✓ 31.6857													
✓ 10	413	1110	14.7	0	0.6	✓ 30.6548													
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			

ENTERED BY:
CHECKED BY:

Bottom Depth: 197

Cast # down:
Cast # up:

Time LOC UTC
Begin:
Bottom: 16:30:44
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 48.48 N
LONG: 126 26.50 W

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LEO6

UTC DATE y/m/d: 97/06/20
CAST NO.: 100

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	414	1164	7.0	175	175.0	✓ 33.9061												
2	415	1165	7.4	150	150.2	✓ 33.8481												
3	416	1167	7.8	125	124.9	✓ 33.7141												
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 212

Cast # down:
Cast # up:

Time LOC UTC
Begin:
Bottom: 17:23:44
End:

START POSITION (GPS)
LAT:
LONG:

~~BOTTOM~~ POSITION (GPS)
LAT: 48 48.46 N
LONG: 126 26.37 W

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID:

9713

UTC DATE y/m/d:

97/06/20

SHIP:

STATION NAME:

LEOF

CAST NO.:

102

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	417	1168	5.4	500	500.1	✓34.0733												
* 2	418	1169	5.8	400	399.3	✓34.0401												
3	419	1171	6.1	300	298.9	✓34.0051												
4	420	1173	6.6	250	249.4	✓33.9605												
5	421	1174	7.0	200	200.2	✓33.9193												
6	422	1175	7.6	150	149.7	✓33.8161												
7	423	1176	8.2	100	99.7	✓33.3903												
8	424	1177	8.3	75	73.9	✓32.7454												
9	425	1178	8.7	50	50.1	✓32.4863												
10	426	1180	10.2	30	29.5	✓32.3991												
11	427	1181	12.5	20	19.4	✓32.3094												
12	428	1182	15.1	10	9.2	✓30.4319												
13	429	1183	15.4	0	1.3	✓30.4206												
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 530

Cast # down: 101

Cast # up: 102

Time LOC UTC

Begin: 1816

Bottom: 1827

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 48 44.25

LONG: 126 32.24

END POSITION (GPS)

LAT:

LONG:

Comments:

Seagulls - first time

* Sample was warm - bubbles forming %T line not very smooth

Rosette Log

 CRUISE ID: 9713
 STATION NAME: LE08

 UTC DATE y/m/d: 97/07/20
 CAST NO.: 104
SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	430	1187	3.0	1287	1287.5	✓34.4406		✓										
*2	431	1188	3.2	1200	1201.1	✓34.4134			small	air	bubble							
3	432	1189	3.6	1000	998.9	✓34.3445												
4	433	1191	4.1	800	797.2	✓34.2543												
5	434	1192	4.8	600	601.0	✓34.1364												
6	435	1193	5.3	500	498.6	✓34.0882												
7	436	1194	5.7	400	398.4	✓34.0408												
*8	437	1190	6.4	300	299.0	✓33.9888			air	bubble								
9	438	1195	6.6	250	249.4	✓33.9677												
10	439	1196	7.1	200	199.5	✓33.9162												
11	440	1197	7.2	175	174.3	✓33.8773												
12	441	1198	7.6	150	149.3	✓33.7893												
13	442	1201	7.9	125	125.2	✓33.6803												
*14	443	1202	8.3	100	100.0	✓33.4263												
15	444	1203	8.2	75	75.0	✓32.6674												
16	445	1204	9.0	50	50.7	✓32.4496								✓				
17	446	1206	10.0	30	30.3	✓32.3790												
18	447	1208	11.9	20	20.5	✓32.2528								✓				
19	448	1209	16.0	10	10.0	✓30.4502								✓				
20	449	1210	16.2	0	1.4	30.4071		✓						✓				
21																		
22																		
23																		

ENTERED BY: CHECKED BY: Bottom Depth: 1304Cast # down: 103Cast # up: 104

Time LOC UTC

Begin:

Bottom: 1950

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 48 40.217LONG: 126 38 521

END POSITION (GPS)

LAT:

LONG:

Comments: * Samples had to be heated & cooled to remove stoppers from flasks

Rosette Log

CRUISE ID:

9713

STATION NAME:

LE09

UTC DATE y/m/d:

9/2/02/20

CAST NO.:

106

SHIP:

Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
							OXY		C13		NUT		CHL					
1	450	1211	2.7	B-5	1547.6	✓	34.4761	✓					✓					
2	451	1212	3.1	1200	1201.0	✓	34.4143						✓					
3	452	1213	3.7	1000	1001.9	✓	34.3441						✓					
4	453	1214	4.2	800	800.2	✓	34.2584						✓					
5	454	1215	4.8	600	602.0	✓	34.1535						✓					
6	455	1216	5.3	500	499.9	✓	34.0872						✓					
7	456	1217	5.8	400	399.9	✓	34.0377											
8	457	1218	6.4	300	302.5	✓	33.9864											
9	458	1219	6.8	250	250.6	✓	33.9587											
10	459	1220	7.3	200	201.1	✓	33.9181											
11	460	1221	7.5	175	175.2	✓	33.8474											
12	461	1222	7.7	150	150.3	✓	33.7507											
13	462	1223	8.1	125	126.0	✓	33.5392											
14	463	1224	8.7	100	100.4	✓	33.3226											
15	464	1225	8.9	75	75.4	✓	32.7391											
16	465	1226	9.6	50	50.3	✓	32.4833											
17	466	1228	11.4	30	30.8	✓	32.4089											
18	467	1229	14.9	20	20.1	✓	32.1725											
19	468	1230	16.2	10	10.8	✓	30.5818											
20	469	1231	16.6	0	.5	✓	30.5604	✓					✓					
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth:

1483

Cast # down:

105

Cast # up:

106

Time

LOC

UTC

Begin:

2129

Bottom:

2158

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

4835.76

LONG:

126 44.49

END POSITION (GPS)

LAT:

LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LC12UTC DATE y/m/d: 97/07/21
CAST NO.: 108SHIP: 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	470	1032	1.9	2000	1999.8	✓ 34.5661		✓			61.53							
2	471	1036	2.6	1500	1499.5	✓ 34.4835					27.87							
3	472	1039	3.2	1200	1202.1	✓ 34.4207					15.59							
4	473	1045	3.7	1000	999.1	✓ 34.3520					10.81							
5	474	1052	4.1	800	800.4	✓ 34.2668					10.81							
6	475	1054	4.8	600	599.9	✓ 34.1607					12.27							
7	476	1062	5.2	500	500.7	✓ 34.0943												
8	477	1090	5.7	400	400.5	✓ 34.0356												
9	478	1103	6.4	300	300.2	✓ 33.9875												
10	479	1104	6.8	250	249.1	✓ 33.9574												
11	480	1105	7.2	200	201.6	✓ 33.9218												
12	481	1106	7.4	175	175.3	✓ 33.8788												
13	482	1110	7.7	150	149.9	✓ 33.8567												
14	483	1122	8.1	125	125.1	✓ 33.7183												
15	484	1113	8.2	100	100.6	✓ 33.2541												
16	485	1114	8.2	75	74.9	✓ 32.6090												
17	486	1119	9.0	50	50.3	✓ 32.4513												
18	487	1126	15.6	30	29.9	✓ 32.2334												
19	488	1128	17.0	20	19.5	✓ 32.1177												
20	489	1130	17.4	10	10.2	✓ 31.5863												
21	490	1132	17.4	0	0.2	✓ 31.5983		✓										
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 2250Cast # down: 107Cast # up: 108

Time	LOC	UTC
Begin:		<u>00 55</u>
Bottom:		<u>01 39</u>
End:		

START POSITION (GPS)	
LAT:	<u>48 14.99</u>
LONG:	<u>126 40.2</u>

BOTTOM POSITION (GPS)	
LAT:	<u>48 15 07</u>
LONG:	<u>126 39.69</u>

END POSITION (GPS)	
LAT:	
LONG:	

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LC11UTC DATE y/m/d: 97/07/21
CAST NO.: 110SHIP:

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	491	1203	2.3	1771	1771.2	✓345176		✓										
2	492	1204	2.7	1500	1498.4	✓344801												
3	493	1206	3.3	1200	1200.5	✓344222												
4	494	1208	3.6	1000	1000.2	✓343604							✓					
5	495	1209	4.2	800	800.0	✓342572							✓					
6	496	1210	4.9	600	603.2	✓341499							✓					
7	497	1211	5.3	500	500.9	✓340913												
8	498	1212	5.8	400	400.1	✓340242							✓					
9	499	1213	6.5	300	300.6	✓339677												
10	500	1214	6.9	250	250.0	✓339476												
11	501	1215	7.4	200	199.5	✓339004							✓					
12	502	1216	7.6	175	175.4	✓338696												
13	503	1217	8.0	150	150.0	✓337894												
14	504	1218	8.4	125	125.1	✓336046												
15	505	1219	8.8	100	100.4	✓331210							✓					
16	506	1220	9.0	75	75.2	✓326041												
17	507	1221	9.7	50	50.7	✓324656							✓		✓			
18	508	1222	11.3	30	29.9	✓324174							✓		✓			
19	509	1223	16.5	20	20.3	✓320750							✓		✓			
20	510	1224	16.8	10	10.2	✓309163							✓		✓	✓		
21	511	1225	17.1	0	.8	✓306511	✓						✓		✓	✓		
22																		
23																		

ENTERED BY:
CHECKED BY: Bottom Depth: 1475Cast # down: 109Cast # up: 110

Time	LOC	UTC
Begin:		<u>0408</u>
Bottom:		<u>0441</u>
End:		

START POSITION (GPS)
LAT:
LONG: BOTTOM POSITION (GPS)
LAT: 4818.32
LONG: 12626.93END POSITION (GPS)
LAT:
LONG: Comments:

Rosette Log

CRUISE ID:

9713

UTC DATE y/m/d:

97/06/21

SHIP:

STATION NAME:

LC10

CAST NO.:

112

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 #	Depth °C/dbar
							OXY		C13		NUT		CHL		phyl	phuk			
1	512	1226	3.2	1240	1240.6	✓34.4222		✓	17.90		✓						Cast 111.	1240	
2	513	1228	3.7	1000	999.9	✓34.3501			11.49		✓	1					Cast 112.	800	
3	514	1229	4.2	800	800.1	✓34.2502			22.55		✓							600	
4	515	1230	4.9	600	600.1	✓34.1437			36.68		✓							500	
5	516	1231	5.3	500	495.9	✓34.0834			50.87									400	
6	517	1233	5.7	400	399.8	✓34.0322			72.96									300	
7	518	1234	6.3	300	299.9	✓33.9844			101.42									200	
8	519	1235	7.4	200	199.9	✓33.9085			108.46									175	
9	520	1237	7.6	175	174.2	✓33.8417			117.18		✓							150	
10	521	1143	7.9	150	149.8	✓33.7711												125	
11	522	1144	8.1	125	125.0	✓33.6522					✓							100	
12	523	1145	8.3	100	100.3	✓33.3356			263.64		✓							75	
13	524	1146	8.9	75	73.8	✓32.5766			281.41		✓		✓					50	
14	525	1148	9.3	50	50.0	✓32.5035			316.40		✓		✓					30	
15	526	1150	10.9	30	30.1	✓32.4123			297.78		✓		✓					20	
16	527	1151	13.7	20	19.9	✓32.2954			262.74		✓		✓		✓			10	
17	528	1152	16.0	10	10.0	✓31.5573			182.61		✓		✓		✓	✓		0	
18	529		16.6	0	.2	✓30.4217		✓			✓	✓			✓		Cast 112		
19																			
20																			
21																			
22																			
23																			

ENTERED BY:

CHECKED BY:

Bottom Depth:

1240

Cast # down: 111

Cast # up: 112

Time LOC UTC

Begin:

Bottom: 06:36:44

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 48 22.46 N

LONG: 126 20.00 W

END POSITION (GPS)

LAT:

LONG:

correct depths

Comments: 17 bottles closed. (depths are incorrect)

Bottle 21000. not fired.

Rosette Log

CRUISE ID: 9713
STATION NAME: LCO 9UTC DATE y/m/d: 97/07/21
CAST NO.: 114SHIP:

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		WHL	PHOS		
1	530	1154	4.9	616	616.7	✓	34.1497	←	Done as	Flu	last	last	last	last	last	last	112	23.61
2	531	1155	5.1	600	600.8	✓	34.1215					✓						0.541
3	532	1157	5.4	500	499.7	✓	34.0795					✓						
4	533	1158	5.8	400	398.9	✓	34.0367					✓						
5	534	1160	6.2	300	300.0	✓	33.9966					✓						
6	535	1163	6.7	250	250.8	✓	33.9561					✓						
7	536	1167	7.2	200	199.9	✓	33.9272					✓						
8	537	1168	7.4	175	172.7	✓	33.8948					✓						
9	538	1169	7.7	150	149.3	✓	33.8480					✓						
10	539	1171	8.1	125	125.4	✓	33.7366					✓						
11	540	1173	8.5	100	99.0	✓	33.4987					✓						
12	541	1174	8.7	75	75.6	✓	32.7124					✓						
13	542	1175	8.9	50	50.9	✓	32.4355					✓			✓			
14	543	1176	10.5	30	30.8	✓	32.3024					✓			✓			
15	544	1177	12.3	20	19.8	✓	32.2431					✓			✓			
16	545	1178	15.4	10	10.4	✓	30.5667					✓			✓	✓		
17	546	1180	16.2	5	4.9	✓	30.2432											
18	547			0		✓						✓			✓	✓		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY: Bottom Depth: 616Cast # down: 113Cast # up: 114

Time	LOC	UTC
Begin:		
Bottom:		09:23:29
End:		

START POSITION (GPS)
LAT:
LONG: BOTTOM POSITION (GPS)
LAT: 48 25.82
LONG: 126 13.84END POSITION (GPS)
LAT:
LONG: Comments: 17 bottles closed. Bottle 18 not fired.

Rosette Log

CRUISE ID: 9713
STATION NAME: LC08UTC DATE y/m/d: 97/07/21
CAST NO.: 116SHIP:

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	547	1182	6.9	200	197.9	✓ 33.9450												
2	548	1183	7.2	175	174.6	✓ 33.8842						✓						
3	549	1187	7.5	150	151.5	✓ 33.8179						✓						
4	550	1188	7.8	125	125.2	✓ 33.7325						✓						
5	551	1189	8.0	100	100.2	✓ 33.5590	air bubble											
6	552	1190	8.3	75	75.0	✓ 33.0545						✓						
7	553	1191	8.6	50	49.3	✓ 32.5133						✓		✓				
8	554	1192	10.1	30	29.5	✓ 32.3992						✓		✓				
9	555	1193	12.4	20	19.7	✓ 32.2957						✓		✓				
10	556	1194	15.3	10	9.8	✓ 30.3190						✓		/		✓		
11	557	1195	15.9	5	5.2	✓ 30.2385												
12	558	1196	15.9	0	1.3	✓ 30.2398						✓		✓		✓		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 203Cast # down: 115Cast # up: 116

Time	LOC	UTC
Begin:		<u>1033</u>
Bottom:		<u>1038</u>
End:		

START POSITION (GPS)	
LAT:	<u>48 29.39</u>
LONG:	<u>126 07.35</u>

BOTTOM POSITION (GPS)	
LAT:	<u>48 29.42</u>
LONG:	<u>126 07.43</u>

END POSITION (GPS)	
LAT:	
LONG:	

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LC07UTC DATE y/m/d: 97/07/21
CAST NO.: 118SHIP: 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	559	1197	7.5	120	120.9	✓ 33.7792						✓						
2	560	1198	7.7	100	99.2	✓ 33.7006						✓						
3	561	1201	7.9	75	75.0	✓ 33.1870						✓						
4	562	1202	8.3	50	49.2	✓ 32.6220						✓	✓					
5	563	1203	9.3	30	29.4	✓ 32.3197						✓	✓					
6	564	1204	10.0	20	19.8	✓ 32.0421						✓	✓					
7	565	1206	14.9	10	10.1	✓ 30.6253						✓	✓	✓				
8	566	1208	16.1	5	4.9	✓ 30.4807						✓	✓					
9	567	1209	16.5	0	1.3	✓ 30.4647						✓	✓		✓			
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 128Cast # down: 117Cast # up: 118

Time	LOC	UTC
Begin:		<u>11:53</u>
Bottom:		<u>11:56:19</u>
End:		<u>12:02</u>

START POSITION (GPS)	
LAT:	<u>48 32.96</u>
LONG:	<u>126 07.4</u>

BOTTOM POSITION (GPS)	
LAT:	<u>48 32.96</u>
LONG:	<u>126 00.76</u>

END POSITION (GPS)	
LAT:	<u>48 32.93</u>
LONG:	<u>126 08.2</u>

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LC06

UTC DATE y/m/d: 97/07/21
CAST NO.: 120

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	568	1210	7.4	85	84.9	✓ 33.7606												
2	569	1211	7.5	75	75.1	✓ 33.6353												
3	570	1212	8.1	50	50.0	✓ 33.0160												
4	571	1213	9.2	30	29.7	✓ 32.1862												
5	572	1214	10.5	20	19.3	✓ 31.7078												
6	573	1215	12.6	10	10.1	✓ 31.1341												
7	574	1216	15.2	0	.4	✓ 30.5254												
8	575	1217	15.3	0	.3	✓ 30.5202												
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 92

Cast # down: 119
Cast # up: 120

Time	LOC	UTC
Begin:		12.49
Bottom:		12:51:44
End:		12.57

START POSITION (GPS)
LAT: 48 36 40
LONG: 125 53 99

BOTTOM POSITION (GPS)
LAT: 48 36.41
LONG: 125 54.03

END POSITION (GPS)
LAT: 48 36.38
LONG: 125 53 96

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LC 05

UTC DATE y/m/d: 97/07/21
CAST NO.: 122

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	576	1218	8.3	50	50.0	✓ 32.8234												
2	577	1219	9.5	30	30.4	✓ 32.0626												
3	578	1220	10.8	20	20.3	✓ 31.7054												
4	579	1221	13.6	10	10.0	✓ 30.5246												
5	580	1222	14.4	0	.5	✓ 30.4724												
6																		
7																		
8																		
9																		
10																		
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20																		
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22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 63

Cast # down: 121
Cast # up: 122

Time	LOC	UTC
Begin:		14:00
Bottom:		14:01:50
End:		14:05

START POSITION (GPS)
LAT: 48 40.09
LONG: 125 47 56

BOTTOM POSITION (GPS)
LAT: 48 40.08
LONG: 125 47.58

END POSITION (GPS)
LAT: 48 40.16
LONG: 125 47.60

Comments:

3

Rosette Log

CRUISE ID: 9713
STATION NAME: LC04

UTC DATE y/m/d: 97107121
CAST NO.: 124

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
								OXY		C13	CHN	NUT		CHL	urea	urea		
1	581	1223	8.0	150	149.9	✓ 33.0798												
2	582	1224	8.0	125	124.4	✓ 33.0279												
3	583	1225	8.1	100	100.1	✓ 32.9539												
4	584	1226	8.3	75	74.5	✓ 32.7938												
5	585	1228	8.7	50	49.7	✓ 32.4240												
6	586	1229	9.4	30	29.8	✓ 31.7543												
7	587	1230	10.2	20	20.2	✓ 31.1400												
8	588	1231	10.9	15	14.5	✓ 30.9200						✓		✓				
9	589	1233	11.1	15	14.2	✓ 30.8793					✓	✓		✓	✓	✓		
10	590	1234	10.8	15	14.5	✓ 30.9354						✓		✓				
11	591	1235	14.1	10	9.0	✓ 30.7979					✓	✓		✓	✓	✓		
12	592	1237	14.2	10	8.9	✓ 30.7967						✓		✓				
13	593	1032	14.1	10	9.3	✓ 30.7993												
14	594	1036	14.3	5	5.0	✓ 30.7798					✓	✓		✓	✓	✓		
15	595	1039	14.3	3	3.0	✓ 30.7738					✓	✓		✓	✓	✓		
16	596	1045	14.3	3	3.3	✓ 30.7752					✓	✓		✓	✓	✓		
17	597	1052	14.3	3	3.2	✓ 30.7762					✓	✓		✓	✓	✓		
18	598	1054	14.3	0	.2	✓ 30.7726	280.54				✓	✓		✓	✓	✓		
19	599	1062	14.3	0	.2	✓ 30.7706	280.73				✓	✓		✓	✓	✓		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 164

Cast # down: 123
Cast # up: 124

Time LOC UTC
Begin:
Bottom: 15:13:39
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 43.55
LONG: 125 41.00

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LC03

UTC DATE y/m/d: 97/06/21
CAST NO.: 126

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION			Samples taken												Temperature or Pressure				
					Trip pressure	Confirmed		CFC		TCO		ALK		SAL		POC						Serial #	°C / dbar	
							Salinity																	
1	600	1090	7.9	125	125.2	✓	33.1300																	
2	601	1103	8.1	100	100.0	✓	32.9291																	
3	602	1104	8.3	75	74.7	✓	32.7588																	
4	603	1105	8.7	50	49.5	✓	32.3947																	
5	604	1106	9.3	30	29.6	✓	31.8202																	
6	605	1110	9.6	20	20.2	✓	31.4888																	
7	606	1122	11.7	10	10.0	✓	30.9097																	
8	607	1113	13.8	0	1.0	✓	30.6498																	
9																								
10																								
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23																								

ENTERED BY:
CHECKED BY:

Bottom Depth: 130

Cast # down: 125
Cast # up: 126

Time LOC UTC
Begin:
Bottom: 17'22:55
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 46.87
LONG: 125 34.32

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LC02

UTC DATE y/m/d: 97/06/21
CAST NO.: 120

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	NP4	Serial #	°C / dbar
1	608	1114	7.9	105	105.4	✓ 33.1551						✓						
2	609	1119	8.2	75	75.6	✓ 32.8507						✓						
3	610	1126	8.7	50	49.8	✓ 32.3684						✓	✓					
4	611	1128	9.2	30	29.6	✓ 31.8283						✓	✓					
5	612	1130	9.5	20	19.9	✓ 31.5543						✓	✓					
6	613	1132	10.9	10	9.3	✓ 30.8858						✓	✓		✓			
7	614	1133	12.8	0	1.5	✓ 30.1284						✓	✓		✓			
8																		
9																		
10																		
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22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 109

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		18:00:20
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 48.67 N
LONG: 125 31.02 W

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID:

9713

UTC DATE y/m/d:

97/06/21

SHIP:

STATION NAME:

LC01

CAST NO.:

130

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					
1	615	1134	8.1	90	89.8	✓	32.9856											
2	616	1135	8.3	75	75.0	✓	32.8009											
3	617	1136	8.7	50	50.6	✓	32.3272											
4	618	1137	9.2	30	30.3	✓	31.8462											
5	619	1138	9.5	20	19.8	✓	31.6091											
6	620	1139	10.2	10	10.2	✓	31.1580											
7	621	1141	12.6	0	1.1	✓	30.1983											
8																		
9																		
10																		
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19																		
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21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 90

Cast # down: 129

Cast # up: 130

Time LOC UTC

Begin:

Bottom:

1836

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 48 50.46

LONG: 125 27 68

END POSITION (GPS)

LAT:

LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LD02

UTC DATE y/m/d: 97/07/21
CAST NO.: 134

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	622	1143	9.3	30	30.0	✓ 31.7672												
2	623	1144	9.5	20	20.2	✓ 31.6294												
3	624	1145	10.5	10	9.2	✓ 31.2788												
4	625	1146	15.1	0	1.0	✓ 30.7909												
5																		
6																		
7																		
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23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 42

Cast # down: 133
Cast # up: 134

Time LOC UTC
Begin: 23:28
Bottom: 23:29:49
End: 23:33

START POSITION (GPS)
LAT: 48 58.41
LONG: 125 47.07

BOTTOM POSITION (GPS)
LAT: 48 58.39 N
LONG: 125 47.04 W

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LD84

UTC DATE y/m/d: 97/07/22
CAST NO.: 138

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						
1	626	1148	8.4	50	50.2	✓	32.6811												
2	627	1150	8.7	30	30.0	✓	32.4268												
3	628	1151	9.6	20	20.2	✓	32.0694												
4	629	1152	13.7	10	9.2	✓	30.9227												
5	630	1153	16.7	0	0.7	✓	30.5100												
6																			
7																			
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23																			

ENTERED BY:
CHECKED BY:

Bottom Depth: 63

Cast # down: 137
Cast # up: 138

Time LOC UTC
Begin: 01:00
Bottom:
End: 01:04

START POSITION (GPS)
LAT: 48 53 20
LONG: 125 56 92

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LD 07

UTC DATE y/m/d: 97/07/22
CAST NO.: 144

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
							OXY		C13		NUT		CHL					
1	631			400		✓					✓							
2	632			300		✓												
3	633			200		✓												
4	634			150		✓												
5	635			125		✓												
6	636			100		✓												
7	637			75		✓												
8	638			50		✓												
9	639			30		✓												
10	640			20		✓												
11	641			10		✓												
12	642			0		✓					✓							
13																		
14																		
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21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 419

Cast # down: 143
Cast # up: 144

Time LOC UTC
Begin:
Bottom: 0346
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 42.49
LONG: 126 16.68

END POSITION (GPS)
LAT:
LONG:

Comments: no oxygen, nutrient only.

Rosette Log

CRUISE ID: 9713
STATION NAME: LD09

UTC DATE y/m/d: 97107/22
CAST NO.: 148

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	643			600		✓												
2	644			400		✓												
3	645			300		✓												
4	646			200		✓												
5	647			150		✓												
6	648			125		✓												
7	649			100		✓												
8	650			75		✓												
9	651			50		✓												
10	652			30		✓												
11	653			20		✓												
12	654			10		✓												
13	655			0		✓												
14																		
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21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 1060

Cast # down: 147
Cast # up: 148

Time LOC UTC
Begin:
Bottom: 0620
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 35.82
LONG: 126 29.92

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LD14

UTC DATE y/m/d: 97/06/22
CAST NO.: 154

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	656			50		✓												
2	657			30		✓												
3	658			20		✓												
4	659			10		✓												
5	660			0		✓												
6																		
7																		
8																		
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10																		
11																		
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23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 2590

Cast # down:
Cast # up:

Time LOC UTC
Begin:
Bottom: 1555
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 11 50
LONG: 127 59.45

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID:

9713

UTC DATE y/m/d:

97107123

SHIP: TULLY

STATION NAME:

LA10

CAST NO.:

160

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		Cl3		NUT		CHL		NH4		
1	661	1032	4.1	900	897.9	✓	34.3002		✓	10.36	1	Mol/kg						
2	662	1036	4.3	800	798.5	✓	34.2531					✓						
3	663	1039	5.0	600	599.1	✓	34.1441					✓						
4	664	1045	5.5	500	498.7	✓	34.0744											
5	665	1052	5.8	400	399.9	✓	34.0342					✓						
6	666	1054	6.2	300	299.5	✓	33.9884					✓						
7	667	1062	6.8	250	250.3	✓	33.9473											
8	668	1090	7.1	200	198.0	✓	33.9257					✓						
9	669	1103	7.4	175	173.3	✓	33.9069											
10	670	1104	7.7	150	149.1	✓	33.8512					✓						
11	671	1105	7.9	125	124.7	✓	33.7615					✓						
12	672	1106	8.5	100	100.3	✓	33.3838					✓						
13	673	1110	8.5	75	74.9	✓	32.6743					✓						
14	674	1122	9.6	50	50.2	✓	32.4479					✓		✓				
15	675	1113	10.2	30	30.1	✓	32.4141					✓		✓				
16	676	1114	10.6	20	20.3	✓	32.3465					✓		✓				
17	677	—	17.3	10	10.0	✓	30.9743	✗	flask empty			✓		✓				
18	678	1126	17.1	0	0.2	✓	30.4207	✓				✓		✓		✓		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 950

Cast # down: 159

Cast # up: 160

Time LOC UTC

Begin: 22.54

Bottom:

End: 23.37

START POSITION (GPS)

LAT: 47°59.08

LONG: 125°43.44

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 47°59.05

LONG: 125°43.56

Comments:

1078 Sample 2 2320 47 58.99 125 43.70

Rosette Log

CRUISE ID: 9713
STATION NAME: LA 69

UTC DATE y/m/d: 97 07 24
CAST NO.: 162

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure		
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC			Serial #	°C / dbar
								OXY		C13		NUT		CHL					
1	679	1128	5.9	346	347.1	✓	34.0259												
2	680	1130	6.1	300	299.9	✓	33.9970												
3	681	1132	6.8	200	198.6	✓	33.9445												
4	682	1133	7.3	175	176.4	✓	33.8783												
5	683	1134	7.7	150	149.8	✓	33.7833												
6	684	1135	8.2	125	125.7	✓	33.6492												
7	685	1136	8.4	100	99.8	✓	33.4169												
8	686	1137	8.2	75	74.2	✓	32.9345												
9	687	1138	8.7	50	50.8	✓	32.5103												
10	688	1139	10.2	30	29.3	✓	32.3834												
11	689			20		✓	not fired												
12	690	1141	12.0	10	9.5	✓	31.8165												
13	691	1142	15.6	0	0.3	✓	30.2966												
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			

ENTERED BY:
CHECKED BY:

Bottom Depth: 360

Cast # down: 161
Cast # up: 162

Time	LOC	UTC
Begin:		00:15
Bottom:		00:30
End:		00:44

START POSITION (GPS)
LAT: 48° 02' 27"
LONG: 125° 36' 88"

BOTTOM POSITION (GPS)
LAT: 48° 02' 31"
LONG: 125° 36' 87"

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LAOS

UTC DATE y/m/d: 97 07 24
CAST NO.: 164

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure		
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC			Serial #	°C / dbar
								OXY		C13		NUT		CHL					
1	692	1143	7.4	130.9	13-10	✓	33.8520												
2	693	1144	8.0	99.4	100	✓	33.5338												
3	694	1145	8.2	74.8	75	✓	33.1884												
4	695	1146	8.5	49.9	50	✓	32.5190												
5	696	1148	9.9	29.0	30	✓	32.3825												
6	697	1150	11.2	19.7	20	✓	32.0996												
7	698	1151	11.9	10.0	10	✓	31.5173												
8	699	1152	15.1	0.7	0	✓	30.4150	407.82											
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			

ENTERED BY:
CHECKED BY:

Bottom Depth: 142

Cast # down: 163
Cast # up: 164

Time	LOC	UTC
Begin:		01:29
Bottom:		01:33
End:		01:39

START POSITION (GPS)
LAT: 48° 05' 75
LONG: 125° 30.43

BOTTOM POSITION (GPS)
LAT: 48° 05' 70
LONG: 125° 30.42

END POSITION (GPS)
LAT: 48° 05' 64
LONG: 125° 30.45

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LA 06

UTC DATE y/m/d: 97 07 24
CAST NO.: 168

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		PHYP	Serial #	°C / dbar
								OXY		C13		NUT		CHL		NH4			
1	700	1153	7.1	100	101.0	✓	33.8046		✓				✓						
2	701	1153	7.4	75	75.2	✓	33.5741		✓				✓						
3	702	1157	8.1	50	50.0	✓	33.0419		✓				✓		✓				
4	703	1169	9.2	30	30.0	✓	31.7490		✓				✓		✓				
5	704	1168	9.6	20	20.2	✓	31.4351		✓				✓		✓				
6	705	1163	10.3	10	10.3	✓	30.9167		✓				✓		✓		✓		
7	706	1167	14.3	0	0.5	✓	30.3727		✓				✓		✓			✓	
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			

ENTERED BY:
CHECKED BY:

Bottom Depth: 112

Cast # down: 167
Cast # up: 168

Time LOC UTC
Begin:
Bottom: 03:16:48
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 12.48 N
LONG: 125 17.32 W

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LA04

UTC DATE y/m/d: 97106/24
CAST NO.: 172

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		NH4	PH/pe	
1	707	1154	6.9	183	184.0	✓ 33.8927												
2	708	1160	7.1	150	150.0	✓ 33.8434						✓						
3	709	1171	7.1	125	125.2	✓ 33.8217						✓						
4	710	1173	7.2	100	100.1	✓ 33.8031						✓						
5	711	1174	7.3	75	74.9	✓ 33.7653						✓						
6	712	1175	7.5	50	49.9	✓ 33.6419						✓		✓				
7	713	1176	8.4	30	30.1	✓ 32.8509						✓		✓				
8	714	1177	9.2	20	20.4	✓ 32.2959						✓		✓				
9	715	1178	10.0	10	10.3	✓ 31.8749						✓		✓		✓		
10	716	1180	12.6	0	1.1	✓ 30.9961						✓		✓			✓	
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 175

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		04:59:04
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 19.37 N
LONG: 125 04.02 W

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

 CRUISE ID: 9713
 STATION NAME: LA02

 UTC DATE y/m/d: 97/06/24
 CAST NO.: 176
SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
1	717	1032	6.8	290	290.5	✓ 33.9224		✓										
2	718	1034	7.0	250	248.7	✓ 33.8665												
3	719	1039	7.1	200	199.2	✓ 33.8372												
*4	720	1045	7.1	175	174.7	✓ 33.8157												
5	721	1052	7.2	150	150.0	✓ 33.7872												
6	722	1054	7.4	125	125.0	✓ 33.7012												
7	723	1062	7.7	100	100.0	✓ 33.5655												
8	724	1090	8.0	75	75.0	✓ 33.3225												
9	725	1103	8.3	50	50.0	✓ 32.8818												
10	726	1104	9.0	30	39.0	✓ 32.3254								✓				
11	727	1105	9.0	20	20.0	✓ 32.2822								✓				
12	728	1106	10.2	10	10.0	✓ 31.8226								✓		✓		
13	729	1110	11.0	0	.4	31.6606		✓						✓		✓		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY: CHECKED BY: Bottom Depth: 302Cast # down: 175Cast # up: 176

Time LOC UTC

Begin: Bottom: 0658End:

START POSITION (GPS)

LAT: LONG:

BOTTOM POSITION (GPS)

LAT: 48 26.39LONG: 124 51.68

END POSITION (GPS)

LAT: LONG:

Comments: * Value may be incorrect. First attempt to titrate produced a %T value over 100, w/ water still yellow. Curve / Re-titrated: 25.29 $\mu\text{mol/l}$, 0.581 ml/l. $.128 + .104 = .232$

Rosette summary file incomplete unknown reason for depths 150% 0. Down cast data used.

Rosette Log

CRUISE ID: 9713
STATION NAME: LA01UTC DATE y/m/d: 97/06/24
CAST NO.: 178SHIP: ✓

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	AMT	Serial #	°C / dbar
1	730	1122	7.0	253	255.0	✓33.9021		✓										
2	731	1113	7.0	200	198.9	✓33.8978						✓						
3	732	1114	7.1	175	171.7	✓33.8608												
4	733	1119	7.1	150	150.7	✓33.8527						✓						
5	734	1126	7.3	125	123.6	✓33.8355						✓						
6	735	1128	7.7	100	99.4	✓33.7132						✓						
7	736	1130	7.9	75	74.5	✓33.4807						✓						
8	737	1132	8.3	50	50.1	✓32.9570						✓	✓					
9	738	1133	9.3	30	30.2	✓32.1469						✓	✓					
10	739	1134	9.4	20	19.6	✓31.6610						✓	✓					
11	740	1135	9.9	10	9.2	✓31.1207						✓	✓	✓		✓		
12	741	1136	11.1	0	1.2	30.7878		✓				✓	✓			✓		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 264

Cast # down:

Cast # up:

Time LOC UTC

Begin:

Bottom: 0822

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 48 29.55LONG: 124 45.04

END POSITION (GPS)

LAT:

LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LB01

UTC DATE y/m/d: 97/07/24
CAST NO.: 182

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	742	1137	9.3	30	301	✓31.8767												
2	743	1138	9.4	20	19.9	✓31.7541												
3	744	1139	9.7	10	9.9	✓34.4260												
4	745	1141	11.3	0	.4	✓30.7613												
5																		
6																		
7																		
8																		
9																		
10																		
11																		
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17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 32.

Cast # down: 18/
Cast # up: 182

Time LOC UTC
Begin:
Bottom: 1009
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 40 35
LONG: 124 59 60

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LB02

UTC DATE y/m/d: 97 07 24
CAST NO.: 187

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			CI3		NUT		CHL				Serial #
1	746	1143	8.9	50	51.2	✓	32.1602	✓										
2	747	1144	9.7	30	30.1	✓	31.2492	✓										
3	748	1145	10.1	20	19.4	✓	30.9828	✓										
4	749	1146	11.6	10	9.8	✓	30.5926	✓										
5	750	1158	11.6	0	1.4	✓	30.5973	✓										
6																		
7																		
8																		
9																		
10																		
11																		
12																		
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19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 60

Cast # down: 183
Cast # up: 184

Time LOC UTC
Begin:
Bottom: 1042
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 38.96
LONG: 125 02.63

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LB06 C1UTC DATE y/m/d: 97 07 24
CAST NO.: 186

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	751	1148	6.9	140	142.0	✓	33.8977											
2	752	1150	6.9	125	123.7	✓	33.8904											
3	753	1151	7.0	100	100.5	✓	33.8572											
4	754	1152	7.4	75	75.0	✓	33.6129											
5	755	1153	7.8	50	51.2	✓	33.3124											
6	756	1155	8.4	30	30.2	✓	32.8352											
7	757	1157	8.9	25	24.5	✓	32.5294											
8	758	1169	8.9	25	24.5	✓	32.5310											
9	759	1168	8.9	25	24.0	✓	32.5072											
10	760	1187	8.9	25	24.5	✓	32.5301											
11	761	1167	9.3	20	20.1	✓	32.3312											
12	762	1154	9.8	15	14.9	✓	32.1563											
13	763	1160	9.8	15	15.1	✓	32.1615											
14	764	1171	10.3	10	9.9	✓	31.9966											
15	765	1173	10.8	5	4.7	✓	31.8253											
16	766	1174	10.9	5	4.6	✓	31.7986											
17	767	1175	11.2	5	4.7	✓	31.7302											
18	768	1176	11.2	5	4.6	✓	31.7260											
19	769	1177	11.0	0	0.9	✓	31.7717											
20	770	1178	11.0	0	0.7	✓	31.7740											
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 150

Cast # down: 185

Cast # up: 186

Time	LOC	UTC
Begin:		12:15
Bottom:		12:21:39
End:		12:32

START POSITION (GPS)	
LAT:	48°29.30
LONG:	125°15.34

BOTTOM POSITION (GPS)	
LAT:	48°29.21 N
LONG:	125°15.38 W

END POSITION (GPS)	
LAT:	48°29.37
LONG:	125°15.24

Comments:

Incubation station

Rosette Log

CRUISE ID: 9713
STATION NAME: LB16

UTC DATE y/m/d: 97/06/24
CAST NO.: 188

SHIP: ✓

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ACK		SAL		DOC		Serial #	°C / dbar
* 1	771	1032	2.2	1800	1801.3	✓ 34.5391		✓					✓	✓				
2	772	1036	3.1	1200	1199.1	✓ 34.4296							✓	✓				
3	773	1039	3.7	1000	998.9	✓ 34.3646							✓	✓				
4	774	1045	4.2	800	798.5	✓ 34.2669							✓	✓				
5	775	1052	4.9	600	599.5	✓ 34.1535							✓	✓				
6	776	1054	5.2	500	500.3	✓ 34.0827							✓	✓				
7	777	1062	5.7	400	400.5	✓ 34.0290							✓					
8	778	1090	6.4	300	299.0	✓ 33.9701							✓					
9	779	1103	7.3	200	199.3	✓ 33.9172							✓					
10	780	1104	7.7	150	149.8	✓ 33.8230							✓					
11	781	1105	8.5	100	99.2	✓ 33.4991							✓					
12	782	1106	8.7	75	74.8	✓ 32.7081							✓					
13	783	1110	9.0	60	59.7	✓ 32.4814				✓	✓		✓	✓	✓	✓		
14	784	1122	9.0	60	59.5	✓ 32.4883							✓	✓	✓	✓		
15	785	1113	9.9	50	49.4	✓ 32.4289												
16	786	1114	10.8	35	33.0	✓ 32.4094				✓			✓	✓				
17	787	1119	14.8	20	19.5	✓ 32.1024				✓	✓		✓	✓	✓	✓		
18	788	1126	15.0	20	19.6	✓ 31.9016							✓	✓	✓	✓		
19	789	1128	17.5	10	8.8	✓ 30.7679				✓			✓					
20	790	1130	17.5	5	5.3	✓ 30.7519	249.43			✓	✓		✓	✓	✓	✓		
21	791	1132	17.5	5	5.5	✓ 30.7523	249.21			✓	✓		✓	✓	✓	✓		
22	792	1133	17.5	5	5.5	✓ 30.7523	249.18			✓	✓		✓	✓	✓	✓		
23	793	1134	17.5	0	.6	✓ 30.7530				✓	✓		✓	✓	✓	✓		

Comments: 24 794 1135 17.6 0 .2 ✓ 30.7528 ✓ ✓ ✓

* Values: 47.24 $\mu\text{mol/kg}$ 1.087 ml/l. Curve uneven; small bubbles collected on colorimeter probe
18.30 $\mu\text{mol/kg}$ (0.421 ml/l) at 1200

ENTERED BY:
CHECKED BY:

Bottom Depth: 1805

Cast # down:

Cast # up:

Time LOC UTC

Begin:

Bottom: 18:39:43

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 48 00.48LONG: 126 17.08

END POSITION (GPS)

LAT:

LONG:

Rosette Log

CRUISE ID: 9713
STATION NAME: LB15

UTC DATE y/m/d: 97106/24
CAST NO.: 190

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	795		9.8	50	50.4	✓	32.4172								✓				
2	796		15.9	20	20.7	✓	32.0232								✓				
3	797		16.9	10	10.7	✓	30.4847								✓				
4	798		17.0	0	0.2		30.3343								✓				
5																			
6																			
7																			
8																			
9																			
10																			
11																			
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19																			
20																			
21																			
22																			
23																			

ENTERED BY:
CHECKED BY:

Bottom Depth: 780 1540

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		20:52:01
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 04.29 N
LONG: 126 08.62 W

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LB14

UTC DATE y/m/d: 97/06/24
CAST NO.: 190

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	799	1189	3.2	1190	1190.7	✓ 34.4244		✓										
2	800	1190	3.7	1000	998.5	✓ 34.3532												
3	801	1191	4.3	800	800.4	✓ 34.2449							✓					
4	802	1192	4.9	600	598.3	✓ 34.1396												
5	803	1193	5.4	500	499.3	✓ 34.0752							✓					
6	804	1194	5.8	400	399.6	✓ 34.0293							✓					
7	805	1195	6.4	300	298.5	✓ 33.9802							✓					
8	806	1196	6.8	250	249.0	✓ 33.9539												
9	807	1197	7.1	200	200.3	✓ 33.9208							✓					
10	808	1198	7.4	175	173.5	✓ 33.9005												
11	809	1201	7.7	150	149.2	✓ 33.8536							✓					
12	810	1202	7.99	125	123.9	✓ 33.7634							✓					
13	811	1203	8.4	100	100.4	✓ 33.4903							✓					
14	812	1204	8.8	75	74.0	✓ 32.6524							✓					
15	813	1206	9.4	50	49.9	✓ 32.4635							✓					
16	814	1208	10.6	30	30.2	✓ 32.4317							✓					
17	815	1209	12.2	20	20.2	✓ 32.2867							✓		✓			
18	816	1210	15.9	10	10.173	✓ 30.5590							✓		✓		✓	
19	817	1211	16.6	0	0.711	✓ 30.3587		✓					✓					
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 1190

Cast # down: 191
Cast # up: 192

Time LOC UTC
Begin:
Bottom: 22:31:36
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 08.43 N
LONG: 126 00.08 W

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: 4312

UTC DATE y/m/d: 97 07 24
CAST NO.: 194

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip	Confirmed	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
					pressure	Salinity		OXY		C13		NUT		CHL				
1	818	1212	5.4	500	499.9	✓ 34.0846												
2	819	1213	5.8	400	398.0	✓ 34.0212												
3	820	1214	6.3	300	300.1	✓ 33.9723												
4	821	1215	6.6	250	250.1	✓ 33.9621												
5	822	1216	7.2	200	199.3	✓ 33.9170												
6	823	1217	7.5	175	174.7	✓ 33.8887												
7	824	1218	7.8	150	149.5	✓ 33.8117												
8	825	1219	8.2	125	124.3	✓ 33.7065												
9	826	1220	8.5	100	99.5	✓ 33.5354												
10	827	1221	8.4	75	75.0	✓ 32.8386												
11	828	1222	8.9	50	50.2	✓ 32.4686												
12	829	1143	10.5	30	30.1	✓ 32.3756												
13	830	1144	11.4	20	20.1	✓ 32.3605												
14	831	1145	15.8	10	10.0	✓ 30.6695												
15	832	1146	16.3	0	0.5	✓ 30.4958												
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 510

Cast # down: 193
Cast # up: 194

Time LOC UTC
Begin:
Bottom: 23:56:35
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 12.75 N
LONG: 125 51.85 W

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LB10

UTC DATE y/m/d: 97 07 25
CAST NO.: 196

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							
1	833	1158	7.0	149	148.9	✓	33.9218	2	Done at end of 27130194											
2	834	1148	7.5	125	124.6	✓	33.7726	3												
3	835	1150	7.9	100	100.1	✓	33.6038													
4	836	1151	8.1	75	74.8	✓	33.2368													
5	837	1152	8.4	50	50.3	✓	32.5491													
6	838	1153	10.3	30	29.7	✓	32.3300													
7	839	1155	10.5	20	20.1	✓	31.9324													
8	840	1157	15.7	10	9.8	✓	30.5743													
9	841	1169	15.8	0	0.02	✓	30.5727													
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				

ENTERED BY:
CHECKED BY:

Bottom Depth: 155

Cast # down: 195
Cast # up: 196

Time LOC UTC
Begin: 01 21
Bottom:
End:

START POSITION (GPS)
LAT: 48° 18 49
LONG: 125° 41 48

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: L13 09UTC DATE y/m/d: 97 07 25
CAST NO.: 198SHIP: 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	842	1168	6.8	140	140.6	✓ 33.9348												
2	843	1187	7.2	100	100.2	✓ 33.7426												
3	844	1167	7.7	75	75.3	✓ 33.3512												
4	845	1154	8.3	50	49.9	✓ 32.7453												
5	846	1160	8.9	30	29.9	✓ 32.0759												
6	847	1171	9.6	20	19.9	✓ 31.4660												
7	848	1173	10.1	10	10.1	✓ 31.0865												
8	849	1174	11.8	0	.4	✓ 30.5238												
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:Bottom Depth: 150Cast # down: 197Cast # up: 198Time LOC UTC
Begin:
Bottom: 02:21:17
End:START POSITION (GPS)
LAT:
LONG:BOTTOM POSITION (GPS)
LAT: 48 21.76
LONG: 125 34.84END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: LB-08

UTC DATE y/m/d: 97 07 25
CAST NO.: 200

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		CI3		NUT		CHL					
1	850	1175	7.0	130	129.3	✓	33.8304												
2	851	1176	7.1	100	99.1	✓	33.7910												
3	852	1177	7.4	75	74.2	✓	33.5922												
4	853	1178	8.2	50	50.4	✓	32.9878												
5	854	1180	9.6	30	30.2	✓	32.1739												
6	855	1182	10.9	20	18.9	✓	31.5747												
7	856	1182	11.2	40	10.1	✓	31.2433												
8	857	1188	12.5	0	.6	✓	30.8095												
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			

ENTERED BY:
CHECKED BY:

Bottom Depth: 145

Cast # down: 199
Cast # up: 200

Time	LOC	UTC
Begin:		0315
Bottom:		0318
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 25 10
LONG: 125 28 75

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: RCC3UTC DATE y/m/d: 1997/07/26
CAST NO.: 224SHIP:

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					
1	858	1032	4.9	200	599.2	✓ 34.1373			28.30									
2	859	1036	5.3	150	498.0	✓ 34.0844												
3	860	1039	5.8	400	399.4	✓ 34.0383												
4	861	1045	6.1	300	298.1	✓ 34.0085												
5	862	1052	6.3	250	249.0	✓ 33.9884												
6	863	1062	6.7	200	200.5	✓ 33.9633												
7	864	1090	7.1	175	174.4	✓ 33.9126												
8	865	1103	7.4	150	150.3	✓ 33.8573												
9	866	1104	7.8	125	124.4	✓ 33.6787												
10	867	1105	8.2	100	100.8	✓ 33.4759												
11	868	1106	8.3	75	75.4	✓ 33.0771												
12	869	1110	8.9	50	49.8	✓ 32.4692												
13	870	1122	10.3	30	29.9	✓ 32.3545			287.66	a few small bubbles formed on probe								
14	871	1113	10.3	30	29.7	✓ 32.3572			286.40									
15	872	1114	10.6	30	29.6	✓ 32.3566			286.96									
16	873	—	12.5	20	19.8	✓ 32.2094			no sample									
17	874	1126	15.1	10	9.7	✓ 31.4442												
18	875	1128	15.1	0	0.5	✓ 30.7466			295.44									
19	876	1130	15.1	0	0.5	✓ 30.7456			295.77									
20	877	1132	15.1	0	0.6	✓ 30.7451			298.49									
21	878	1133	15.1	0	0.7	✓ 30.7439			294.96									
22																		
23																		

ENTERED BY: CHECKED BY: Bottom Depth: ~~600~~ 630

Cast # down: 223

Cast # up: 224

Time LOC UTC

Begin:

Bottom: 00:30:01

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 48 22.56 N

LONG: 125 56.35 W

END POSITION (GPS)

LAT:

LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: BCC2UTC DATE y/m/d: 97 07 26
CAST NO.: 228SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
							OXY		C13		NUT		CHL					
1	879	1143	6.7	166	165.4	✓	33.9608	✓										
2	880	*—	6.8	150	150.3	✓	33.9505	✓										
3	881	1145	7.5	125	125.1	✓	33.7551	✓										
4	882	1146	8.0	100	100.4	✓	33.5256	✓										
5	883	1158	8.3	75	74.5	✓	33.0441	✓										
6	884	1148	8.4	50	49.6	✓	32.5529	✓										
7	885	1150	9.2	30	30.2	✓	32.4070	✓										
8	886	1151	9.7	20	20.1	✓	32.2818	✓										
9	887	1152	10.5	10	10.0	✓	32.0197	✓										
10	888	1153	15.1	0	16	✓	30.7736	✓										
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 172Cast # down: 227Cast # up: 228

Time LOC UTC

Begin:

Bottom: 02:49:51

End:

START POSITION (GPS)

LAT: 48 24.38LONG: 125 53.65

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments: Bottle #2 failed to trip. was on "Lip" rather than fully loaded.

Rosette Log

CRUISE ID: 9713
STATION NAME: BCD3

UTC DATE y/m/d: 97 07 26
CAST NO.: 230

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Temperature or Pressure	
					Trip pressure	Confirmed Salinity	CFC		TCO		ALK		SAL		POC		Serial #	°C / dbar
							OXY		C13		NUT		CHL					
1	889	1155	5.9	377	377.9	✓	34.0308											
2	890	1157	6.2	300	300.5	✓	33.9967											
3	891	1169	6.5	250	250.8	✓	33.9768											
4	892	1168	6.9	200	200.3	✓	33.9462											
5	893	1187	7.2	175	175.1	✓	33.9013											
6	894	1167	7.4	150	149.7	✓	33.8679											
7	895	1154	7.6	125	125.5	✓	33.8094											
8	896	1160	8.0	100	99.9	✓	33.5408											
9	897	1171	8.3	75	75.0	✓	33.0479											
10	898	1173	8.9	50	50.0	✓	32.4698											
11	899	1174	9.6	30	29.5	✓	32.4286	air bubble introduced during acidification								280.13		
12	900	1175	10.5	20	19.7	✓	32.2197											
13	901	1176	13.2	10	10.4	✓	31.2369											
14	902	1177	15.2	0	.9		30.7744											
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 365

Cast # down: 229
Cast # up: 230

Time LOC UTC
Begin:
Bottom: 03:42:47
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 20.17
LONG: 125 53.53

END POSITION (GPS)
LAT:
LONG:

Comments:

Rosette Log

CRUISE ID: 9713
STATION NAME: BCB3

UTC DATE y/m/d: 97/06/26
CAST NO.: 232

SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION			Samples taken										Temperature or Pressure				
					Trip pressure	Confirmed		CFC		TCO		ALK		SAL		POC						
							Salinity															OXY
1	903	1032	6.9	174	173.7	✓	33.9435															
2	904	1036	7.1	150	148.8	✓	33.8918															
3	905	1039	7.8	125	120.3	✓	33.7177															
4	906	1045	8.2	100	101.8	✓	33.4437															
5	907	1052	8.2	75	75.5	✓	32.7650															
6	908	1062	9.4	50	50.3	✓	32.4377															
7	909	1090	10.4	30	30.4	✓	32.3542															
8	910	1103	11.1	20	19.6	✓	32.3152															
9	911	1104	15.2	10	10.3	✓	30.7326															
10	912	1105	15.2	0	.5	✓	30.7326															
11																						
12																						
13																						
14																						
15																						
16																						
17																						
18																						
19																						
20																						
21																						
22																						
23																						

ENTERED BY:

CHECKED BY:

Bottom Depth: 185

Cast # down: 231

Cast # up: 232

Time LOC UTC

Begin:

Bottom: 04:51:52

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 48 24.85

LONG: 125 59.32

END POSITION (GPS)

LAT:

LONG:

Comments: