

ROSETTE LOG

MISSION ID: 2002-31 STATION: 127 CAST NUMBER: 31 UTC DATE (dd/mm/yyyy): 09/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	1	1248	4.019	Bot-5	✓	500	X											
2	2	1254	3.525	400	✓		X											
3	3	1256	3.496	300	✓		X											
4	4	1258	3.495	250	✓													
5	5	1260	3.519	200	✓													
6	6	1261	3.513	175	✓													
7	7	1264	3.516	150	✓													
8	8	1267	3.569	125	✓													
9	9	1268	3.526	100	✓													
10	10	1270	3.635	75	✓													
11	11	1271	3.725	50	✓			X	X									
12	12	1272	4.068	25	✓													
13	13	1273	4.008	25	✓													
14	14	1274	4.044	15	✓													
15	15	1276	4.018	10	✓													
16	16	1277	4.070	5	✓													
17	17	1278	4.100	0	✓													extra bottle?
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Vector
ENTERED BY: DA
CHECKED BY:

Bottom Depth: 511

Cast # down: 31
Cast # up: 31

Time	LOC	UTC
Begin:		00:39
Bottom:		00:49
End:		

START POSITION (GPS)
LAT: 50 32.04
LONG: 126 41.33

BOTTOM POSITION (GPS)
LAT: 50 32.03
LONG: 126 41.35

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 2002-31 STATION: 125 CAST NUMBER: 33 UTC DATE (dd/mm/yyyy): 09/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	18	1279	3.440	Bot-5	✓	*												
2	19	1280	3.527	200	✓													
3	20	1281	3.553	175	✓													
4	21	1284	3.710	150	✓													
5	22	1285	3.638	125	✓													
6	23	1287	3.634	100	✓													
7	24	1288	3.684	75	✓													
8	25	1290	3.751	50	✓			xx										
9	26	1291	3.927	30	✓													
10	27	1292	3.972	20	✓													
11	28	84	4.179	10	✓													
12	29	364	4.168	5	✓													
13	30	534	4.222	0	✓													
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 292

Cast # down: 33
Cast # up: 33

Time	LOC	UTC
Begin:		0442
Bottom:		0449
End:		0503

START POSITION (GPS)
LAT: 50 27.99
LONG: 126 05.01

BOTTOM POSITION (GPS)
LAT: 50 27.95
LONG: 126 05.04

END POSITION (GPS)
LAT: 50 27.90
LONG: 126 05.00

ROSETTE LOG

MISSION ID: 2002-31 STATION: 124 CAST NUMBER: 34 UTC DATE (dd/mm/yyyy): 09/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	31	535	3.616	607-5	✓	x												
2	32	572	3.618	135 180	✓	x												
3	33	588	3.633	150	✓	x												
4	34	657	3.661	125	✓	x												
5	35	695	3.781	100	✓	x												
6	36	697	3.823	75	✓													
7	37	707	3.817	50	✓			x	x									
8	38	708	3.864	30	✓													
9	39	709	3.869	20	✓													
10	40	712	3.932	10	✓													
11	41	715	3.998	5	✓													
12	42	727	4.057	0	✓			↓	↓									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 214

Cast # down: 34
Cast # up: 34

Time	LOC	UTC
Begin:		0918
Bottom:		0925
End:		

START POSITION (GPS)
LAT: 50 26.05
LONG: 126 01.00

BOTTOM POSITION (GPS)
LAT: 50 26.49
LONG: 126 01.13

END POSITION (GPS)
LAT: 50 26
LONG: 126 01

Comments: Interesting Differences between UP + DOWN CAST IN T15
- MAY BE REAL? LOOKS LIKE FLOW OF WARMER, SALTIER WATER PAST STATION - STARTING FROM BOTTOM.
STATION TAKEN ABOUT 2 HOUR INTO FLOOD TIDE

ROSETTE LOG

MISSION ID: 2002-31 STATION: 121 CAST NUMBER: 37 UTC DATE (dd/mm/yyyy): 09/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	43	1105	4.198	BOT-5220	✓	250												
2	44	1110	4.260	200	✓													
3	45	1126	4.261	175	✓													
4	46	1128	4.274	150	✓													
5	47	1130	4.285	125	✓													
6	48	1134	4.333	100	✓													
7	49	1135	4.293	75	✓													
8	50	1136	4.308	50	✓			X	X									
9	51	1137	4.307	30	✓													
10	52	1138	4.347	20	✓													
11	53	1141	4.337	10	✓													
12	54	1142	4.352	5	✓													
13	55	1146	4.299	0	✓													
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 257

Cast # down: 37
Cast # up: 37

Time	LOC	UTC
Begin:		1207
Bottom:		1213
End:		

START POSITION (GPS)
LAT: 50 22.72
LONG: 125 35.07

BOTTOM POSITION (GPS)
LAT: 50 22.67
LONG: 125 35.10

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 2002-31

STATION: 21

CAST NUMBER: 38

UTC DATE (dd/mm/yyyy): 09/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken														
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	C13	CHL								
1	56	1189	4.397	Bot-5	✓	229														
2	57	1192	4.363	200	✓															
3	58	1193	4.359	175	✓															
4	59	1195	4.401	150	✓															
5	60	1203	4.389	125	✓															
6	61	1206	4.437	100	✓															
7	62	1148	4.387	75	✓															
8	63	1153	4.409	50	✓			X X												
9	64	1158	4.439	30	✓															
10	65	1175	4.411	20	✓															
11	66	1176	4.413	10	✓															
12	67	1188	4.462	5	✓															
13	68	1209	4.524	0	✓			V V V												
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 238

Cast # down: 38

Cast # up: 38

Time LOC UTC

Begin: 13:48

Bottom: 13:52

End: 14:07

START POSITION (GPS)

LAT: 50.19.93

LONG: 125.22.97

BOTTOM POSITION (GPS)

LAT: 50.19.92

LONG: 125.22.96

END POSITION (GPS)

LAT: 50.14.96

LONG: 125.22.93

Comments:

ROSETTE LOG

MISSION ID: 2002-31 STATION: 16 CAST NUMBER: 43 UTC DATE (dd/mm/yyyy): 09/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	69	1210	4.297	Bot-5	✓	120												
2	70	1212	4.255	100	✓	98												
3	71	1215	4.392	75	✓	75												
4	72	1216	4.452	50	✓	50												
5	73	1222	4.649	30	✓	32												
6	74	1223	4.677	20	✓	22												
7	75	1224	4.767	10	✓	11												
8	76	1225	4.851	5	✓	5												
9	77	1228	4.885	0	✓	2												
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: VECTOR
ENTERED BY:
CHECKED BY: EF

Bottom Depth: 163

Cast # down: 43
Cast # up:

Time	LOC	UTC
Begin:		23:24
Bottom:		
End:		

START POSITION (GPS)
LAT: 49 57 61
LONG: 125 08 47

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 2002-31 STATION: 14 CAST NUMBER: 45 UTC DATE (dd/mm/yyyy): 10/09/02

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	70	84	3.199	301-5	✓	299												
2	79	364	3.179	300	✓	299												
3	80	534	3.259	250	✓	250												
4	81	535	3.322	200	✓	200												
5	82	572	3.336	175	✓	175												
6	83	588	3.340	150	✓	150												
7	84	657	3.264	125	✓	125												
8	85	695	3.050	100	✓	100												
9	86	697	3.364	75	✓	74												
10	87	707	4.204	50	✓	50												
11	88	708	4.071	40	✓	40												
12	89	709	4.243	30	✓	30												
13	90	712	4.301	20	✓	20												
14	91	715	4.944	10	✓	10												
15	92	727	5.153	5	✓	5												
16	93	1105	5.217	0	✓	2												
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Vector
ENTERED BY: Amyth
CHECKED BY: 4

Bottom Depth: 300

Cast # down: 45
Cast # up: 45

Time	LOC	UTC
Begin:	00 55	
Bottom:	1:02	
End:	1:11	

START POSITION (GPS)
LAT: 49 53 00
LONG: 124 59 59

BOTTOM POSITION (GPS)
LAT: 49 53 03
LONG: 124 59 57

END POSITION (GPS)
LAT: 49 53 06
LONG: 124 59 52

ROSETTE LOG

MISSION ID: 2062-31 STATION: 12 CAST NUMBER: 48 UTC DATE (dd/mm/yyyy): Sept 10 2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	94	1248	3.149	805-5	✓ 350.													
2	95	1254	3.135	300	✓ 300.													
3	96	1256	3.215	250	✓ 250.													
4	97	1258	3.304	200	✓ 200.													
5	98	1260	3.395	175	✓ 175.													
6	99	1261	3.294	150	✓ 150.													
7	100	1264	3.240	125	✓ 125.													
8	101	1267	3.040	100	✓ 100.													
9	102	1268	3.186	75	✓ 75.													
10	103	1270	3.391	50	✓ 50.													
11	104	1271	3.552	40	✓ 40.													
12	105	1272	4.098	30	✓ 30.													
13	106	1273	5.432	20	✓ 20.								X					
14	107	1274	5.447	10	✓ 10.													
15	108	1276	5.702	5	✓ 5.													
16	109	1277	6.110	0	✓ 1.								X					
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Veldra
ENTERED BY: E.F.
CHECKED BY:

Bottom Depth: 357.

Cast # down: 48.
Cast # up:

Time	LOC	UTC
Begin:		05:19
Bottom:		05:26
End:		05:38

START POSITION (GPS)
LAT: 49 43 62
LONG: 124 40 88

BOTTOM POSITION (GPS)
LAT: 49 43 61
LONG: 124 40 87

END POSITION (GPS)
LAT: 49 43 58
LONG: 124 40 83

ROSETTE LOG

MISSION ID: 2002-31 STATION: 9 CAST NUMBER: 51 UTC DATE (dd/mm/yyyy): Sept 10 2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	110	1278	2.825	bot-5	✓	160												
2	111	1279	2.854	150	✓													
3	112	1280	3.097	125	✓													
4	113	1281	3.036	100	✓													
5	114	1284	3.162	75	✓													
6	115	1287	3.674	50	✓													
7	116	1288	4.279	40	✓	30												
8	117	1290	4.098	30	✓	40												Tripped 30 than 40
9	118	1291	4.496	20	✓							XX						
10	119	1292	4.755	10	✓													
11	120	1286	4.924	5	✓													
12	121	1146	5.059	surf	✓			↓	↓			XX						
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Vector

ENTERED BY:

CHECKED BY:

Bottom Depth: 170

Cast # down: 51

Cast # up: 51

Time	LOC	UTC
Begin:		7:49
Bottom:		7:54
End:		

START POSITION (GPS)

LAT: 49 35.54

LONG: 124 38.41

BOTTOM POSITION (GPS)

LAT: 49 35.58

LONG: 124 38.40

END POSITION (GPS)

LAT: 49 35.75

LONG: 124 38.19

Comments:

ROSETTE LOG

MISSION ID: 2002-31 STATION: 06 CAST NUMBER: 54 UTC DATE (dd/mm/yyyy): 10/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	122	84	3.256	130-5	✓	100												
2	123	364	3.298	150	✓													
3	124	534	3.295	125	✓													
4	125	535	3.233	100	✓													
5	126	572	3.219	75	✓													
6	127	588	3.533	50	✓													
7	128	657	3.650	40	✓													
8	129	695	3.741	30	✓													
9	130	697	4.156	20	✓							xx						
10	131	707	5.261	10	✓													
11	132	708	5.714	5	✓													
12	133	709	6.024	0	✓	1						xx						
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Vector
ENTERED BY: Z
CHECKED BY:

Bottom Depth:

Cast # down: 54
Cast # up: 54

Time	LOC	UTC
Begin:	10	148
Bottom:	10	52
End:	11	06

START POSITION (GPS)
LAT: 19 30 59
LONG: 124 27 75

BOTTOM POSITION (GPS)
LAT: 49 30 60
LONG: 124 27 73

END POSITION (GPS)
LAT: 49 30 61
LONG: 124 27 83

ROSETTE LOG

MISSION ID: 2602-31 STATION: 03 CAST NUMBER: 57 UTC DATE (dd/mm/yyyy): 10/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	134	1189	3.044	331	✓													
2	135	1192	3.089	250	✓													
3	136	1193	3.052	200	✓													
4	137	1195	3.219	175	✓													
5	138	1203	3.229	150	✓													
6	139	1206	3.240	125	✓													
7	140	1148	3.192	100	✓													
8	141	1153	3.260	75	✓													
9	142	1158	3.511	50	✓													
10	143	1175	3.577	40	✓													
11	144	1176	3.70	30	✓													
12	145	1180	3.75	20	✓													
13	146	1209	3.969	10	✓													
14	147	1210	4.336	5	✓													
15	148	1212	4.853	0	✓													
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Verton
ENTERED BY: Z
CHECKED BY: Z

Bottom Depth: 330

Cast # down: 57
Cast # up: 57

Time	LOC	UTC
Begin:	13	16
Bottom:	13	22
End:	13	33

START POSITION (GPS)
LAT: 49 24 60
LONG: 124 21 99

BOTTOM POSITION (GPS)
LAT: 49 24 63
LONG: 124 21 95

END POSITION (GPS)
LAT: 49 24 61
LONG: 124 21 95

ROSETTE LOG

MISSION ID: 2062-31 STATION: 02 CAST NUMBER: 59 UTC DATE (dd/mm/yyyy): 10/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	149	1215	3-072	807.5	✓ 279													
2	150	1216	3-129	250	✓ 250													
3	151	1222	3-189	200	✓ 200													
4	152	1223	3-266	175	✓ 175													
5	153	1224	3-285	150	✓ 150													
6	154	1225	3-417	125	✓ 125													
7	155	1228	3-246	100	✓ 100													
8	156	1231	3-270	75	✓ 75													
9	157	1233	3-538	50	✓ 50													
10	158	1235	3-466	40	✓ 40													
11	159	1237	3-499	30	✓ 30													
12	160	1238	3-592	20	✓ 20													
13	161	1241	4-985	10	✓ 10													
14	162	1247	5-805	5	✓ 5													
15	163	1244	5-886	0	✓ 1													
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: VECTOR

ENTERED BY: EF

CHECKED BY: EF

Bottom Depth: 280

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		15:13
Bottom:		15:18
End:		15:32

START POSITION (GPS)

LAT: 49 24 18

LONG: 124 09 23

BOTTOM POSITION (GPS)

LAT: 49 24 22

LONG: 124 09 20

END POSITION (GPS)

LAT: 49 24 24

LONG: 124 09 17

Comments:

ROSETTE LOG

MISSION ID: 2002-31 STATION: 27 CAST NUMBER: 64 UTC DATE (dd/mm/yyyy): 10/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	164	84	3.031	bot	✓	346	X											
2	165	364	2.997	300	✓		X											
3	166	534	3.073	250	✓		X											
4	167	535	3.122	200	✓													
5	168	572	3.164	175	✓													
6	169	588	3.257	150	✓													
7	170	657	3.226	125	✓													
8	171	695	3.215	100	✓													
9	172	697	3.186	75	✓													
10	173	707	3.455	50	✓													
11	174	708	3.541	40	✓													
12	175	709	3.595	30	✓													
13	176	712	3.593	20	✓							xx						
14	177	715	4.840	10	✓													
15	178	727	6.202	5	✓							xx						
16	179	1105	6.419	surf	✓													
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Vector
ENTERED BY:
CHECKED BY:

Bottom Depth: 355

Cast # down: 64
Cast # up: 64

Time	LOC	UTC
Begin:		2154
Bottom:		2201
End:		2217

START POSITION (GPS)
LAT: 49 19 08
LONG: 123 48 06

BOTTOM POSITION (GPS)
LAT: 49 19 06
LONG: 123 48 18

END POSITION (GPS)
LAT: 49 18 98
LONG: 123 48 37

ROSETTE LOG

MISSION ID: 2002-31 STATION: 39 CAST NUMBER: 67 UTC DATE (dd/mm/yyyy): 11/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK		CHL						
1	180	1109	2.999	130-5	✓	350	x	1	11									
2	181	1192	3.011	300	✓	300	x											
3	182	1193	3.029	250	✓	250	x											
4	183	1195	3.114	200	✓	200												
5	184	1203	3.100	175	✓	175												
6	185	1206	3.116	150	✓	150												
7	186	1140	3.141	125	✓	125												
8	187	1153	3.153	100	✓	100												
9	188	1158	3.362	75	✓	75												
10	189	1175	3.408	50	✓	50		x	x									
11	190	1176	3.480	40	✓	40												
12	191	1180	3.570	30	✓	30												
13	192	1209	3.708	20	✓	20						xx						
14	193	1210	4.062	10	✓	10												
15	194	1212	5.171	5	✓	5						xx						
16	195	1215	6.012	0	✓	1		x	xx									
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 350

Cast # down: 67
Cast # up: 68

Time	LOC	UTC
Begin:	00:44	
Bottom:	00:50	
End:	00:59	

START POSITION (GPS)
LAT: 49 9 85
LONG: 123 32 96

BOTTOM POSITION (GPS)
LAT: 49 9 90
LONG: 123 32 86

END POSITION (GPS)
LAT: 49 9 96
LONG: 123 32 75

ROSETTE LOG

MISSION ID: 2002-21 STATION: 42 CAST NUMBER: 71 UTC DATE (dd/mm/yyyy): Sept 11 2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13				
						OXY				ALK		CHL				
1	196	84	3.031	307.5	✓ 310	x										
2	197	364	3.259	300	✓ 200	x										
3	198	534	3.139	250	✓ 250	x										
4	199	535	3.433	200	✓ 200											
5	200	572	3.236	175	✓ 175											
6	201	588	3.169	150	✓ 150											
7	202	657	3.214	125	✓ 125											
8	203	695	3.164	100	✓ 100											
9	204	697	3.186	75	✓ 75											
10	205	707	3.473	50	✓ 50											
11	206	708	3.662	40	✓ 40											
12	207	709	3.583	30	✓ 30											
13	208	712	3.651	20	✓ 20							xx				
14	209	715	5.229	10	✓ 10											
15	210	727	5.622	5	✓ 5											
16	211	1105	6.260	0	✓ 2							xx				
17																
18																
19																
20																
21																
22																
23																
24																

SHIP: Vector

ENTERED BY: EF

CHECKED BY:

Bottom Depth: 321

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		<u>04:04</u>
End:		

START POSITION (GPS)

LAT: 49 01 76

LONG: 123 26 20

BOTTOM POSITION (GPS)

LAT: 49 01 72

LONG: 123 26 23

END POSITION (GPS)

LAT:

LONG:

10.03 / 1.718

10.02 201012766

Comments: * Forgot to change CAST Number in Auto Oxy Program, "oxy" mfu is in CAST # 67. File 2002-310067.Oxy

ROSETTE LOG

MISSION ID: 2002-31 STATION: 46 CAST NUMBER: 73. UTC DATE (dd/mm/yyyy):

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3				
						OXY				ALK		CHL				
1	212	1148	3.339	169	✓											
2	213	1153	3.361	150	✓											
3	214	1158	3.393	125	✓											
4	215	1175	3.453	100	✓											
5	216	1176	3.554	75	✓											
6	217	1188	3.716	50	✓											
7	218	1189	3.879	40	✓											
8	219	1192	3.858	30	✓											
9	220	1193	3.580	20	✓											
10	221	1195	3.771	10	✓											
11	222	1203	4.119	5	✓											
12	223	1206	4.499	0	✓											
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Comments:

SHIP: Vector

ENTERED BY: EF

CHECKED BY:

Bottom Depth: 178

Cast # down: 73

Cast # up: 73

Time	LOC	UTC
Begin:		6:28
Bottom:		6:32
End:		6:41

START POSITION (GPS)

LAT: 48 51.36

LONG: 123 10.79

BOTTOM POSITION (GPS)

LAT: 48 51.34

LONG: 123 10.77

END POSITION (GPS)

LAT: 48 51.35

LONG: 123 10.76

ROSETTE LOG

MISSION ID: 2002-31 STATION: 56 CAST NUMBER: 90 UTC DATE (dd/mm/yyyy): 11/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13							
						OXY				ALK		CHL							
1	224	1209	3.320	200	✓ 200														
2	225	1210	3.371	175	✓														
3	226	1212	3.423	150	✓														
4	227	1216	3.427	125	✓														
5	228	1217	3.435	100	✓														
6	229	1222	3.502	75	✓														
7	230	1223	3.524	50	✓														
8	231	1224	3.524	40	✓														
9	232	1225	3.535	30	✓														
10	233	1228	3.551	20	✓														
11	234	1231	3.648	10	✓														
12	235	1233	3.876	5	✓														
13	236	1235	4.132	0	✓														
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 200

Cast # down: 80
Cast # up: 80

Time	LOC	UTC
Begin:	11:12	
Bottom:	11:16	
End:	11:29	

START POSITION (GPS)
LAT: 4 8 46 36
LONG: 123 163

BOTTOM POSITION (GPS)
LAT: 4 8 46 33
LONG: 123 166

END POSITION (GPS)
LAT: 4 8 46 16
LONG: 123 162

Comments:

ROSETTE LOG

MISSION ID: 2002-31 STATION: 59 CAST NUMBER: 83 UTC DATE (dd/mm/yyyy): 11/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK		CHL						
1	237	84	2.997	Bot-5	✓	224												
2	238	364	2.997	200	✓	200												
3	239	534	3.073	175	✓	175												
4	240	535	3.172	150	✓	150												
5	241	572	3.253	125	✓	125												
6	242	588	3.440	100	✓	100												
7	243	657	3.474	75	✓	75												
8	244	695	3.587	50	✓	50												
9	245	697	3.645	40	✓	40												
10	246	707	3.681	30	✓	30												
11	247	708	3.633	20	✓	20												
12	248	709	3.630	10	✓	10												
13	249	712	3.745	5	✓	5												
14	250	715	3.684	0	✓	2												
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Vector
ENTERED BY: Rosette
CHECKED BY:

Bottom Depth: 225

Cast # down: 83
Cast # up: 83

Time	LOC	UTC
Begin:	13:29	
Bottom:	13:44	
End:	13:58	

START POSITION (GPS)
LAT: 48 37 87
LONG: 123 14 51

BOTTOM POSITION (GPS)
LAT: 48 37 96
LONG: 123 14 45

END POSITION (GPS)
LAT: 48 38 24
LONG: 123 14 50

ROSETTE LOG

MISSION ID: 2002-31 STATION: 62 CAST NUMBER: 86 UTC DATE (dd/mm/yyyy): 11/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3						
						OXY				ALK		CHL						
1	251	727	2.664	BOT-5	✓ 140.													
2	252	1105	2.673	125	✓ 125.													
3	253	1110	2.947	100	✓ 100.													
4	254	1126	3.207	75	✓ 75.													
5	255	1128	3.278	50	✓ 50.													
6	256	1130	3.415	40	✓ 40.													
7	257	1134	3.468	30	✓ 30.													
8	258	1135	3.553	20	✓ 20.													
9	259	1136	3.639	10	✓ 10.													
10	260	1137	3.697	5	✓ 5.													
11	261	1138	3.848	0	✓ 1.													
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: VECTOR
ENTERED BY: E.L.
CHECKED BY: E.L.

Bottom Depth: 147

Cast # down: 86.
Cast # up:

Time	LOC	UTC
Begin:		16:41
Bottom:		16:44
End:		16:54

START POSITION (GPS)
LAT: 48 22 81
LONG: 123 02 51

BOTTOM POSITION (GPS)
LAT: 48 22 83
LONG: 123 02 42

END POSITION (GPS)
LAT: 48 22 87
LONG: 123 02 33

ROSETTE LOG

MISSION ID: 2002-31 STATION: 65 CAST NUMBER: 89 UTC DATE (dd/mm/yyyy): Sept 11 2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	262	1148	2.381	80T-5	✓ 121													
2	263	1153	2.471	100	✓													
3	264	1158	2.849	75	✓													
4	265	1175	3.002	50	✓													
5	266	1176	3.070	40	✓													
6	267	1188	3.441	30	✓													
7	268	1189	3.540	20	✓													
8	269	1192	3.656	10	✓													
9	270	1193	3.786	5	✓													
10	271	1195	3.915	0	✓													
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Veda

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

TimeLOCUTC

Begin:1904

Bottom:1908

End:1915

START POSITION (GPS)

LAT: 48 15.89

LONG: 123 9.87

BOTTOM POSITION (GPS)

LAT: 48 15.94

LONG: 123 9.92

END POSITION (GPS)

LAT: 48 15.93

LONG: 123 10.03

ROSETTE LOG

MISSION ID: 2002-31 STATION: ADCP CAST NUMBER: 93 UTC DATE (dd/mm/yyyy): 11 Sept 2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	272	1203	2.233	31.5	✓	116												
2	273	1206	2.841	75	✓													
3	274	1209	2.948	50	✓			x x										
4	275	1210	2.975	40	✓													
5	276	1212	3.093	30	✓													
6	277	1215	3.199	20	✓							xx						
7	278	1216	3.429	10	✓													
8	279	1222	3.598	5	✓							xx						
9	280	1223	3.963	0	✓			↓ ↓										
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Vector
ENTERED BY:
CHECKED BY:

Bottom Depth: 120

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		2137
Bottom:		2140
End:		2145

START POSITION (GPS)
LAT: 48 14.04
LONG: 123 18.08

BOTTOM POSITION (GPS)
LAT: 48 14.05
LONG: 123 18.15

END POSITION (GPS)
LAT: 48 14 11
LONG: 123 18 27

ROSETTE LOG

MISSION ID: 2002-31 STATION: 69 CAST NUMBER: 96 UTC DATE (dd/mm/yyyy): 12/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	281	1224	1.563	170	✓	Bot-3												
2	282	1225	1.533	150	✓	150												
3	283	1228	2.075	127	✓	125												
4	284	1231	2.190	100	✓	100												
5	285	1233	2.800	75	✓	75												
6	286	1235	3.188	51	✓	50			XX									
7	287	1237	3.241	41	✓	40												
8	288	1238	3.297	31	✓	30												
9	289	1241	3.341	20	✓	20						XX						
10	290	1244	3.613	11	✓	10												
11	291	1247	3.696	5	✓	5			✓			XX						
12	292	1140	3.704	1		0			✓									
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY: L

CHECKED BY:

Bottom Depth: 180

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:	00	29
Bottom:	00	33
End:	00	43

START POSITION (GPS)

LAT: 48 15.68

LONG: 123 42.93

BOTTOM POSITION (GPS)

LAT: 48 15.74

LONG: 123 43.18

END POSITION (GPS)

LAT: 48 15.91

LONG: 123 43.27

ROSETTE LOG

MISSION ID: 2002-31 STATION: 72 CAST NUMBER: 99 UTC DATE (dd/mm/yyyy): 12/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK		CHL						
1	293	84	1.630	BOT-5	✓ 185													
2	294	364	1.544	150	✓ 150													
3	295	534	1.906	125	✓ 125													
4	296	535	2.126	100	✓ 100													
5	297	572	2.650	75	✓ 75													
6	298	588	2.977	50	✓ 50													
7	299	657	3.270	40	✓ 40													
8	300	695	3.302	30	✓ 30													
9	301	697	3.559	20	✓ 20							XX						
10	302	707	3.562	10	✓ 10													
11	303	708	3.616	5	✓ 5							XX						
12	304	709	3.782	0	✓ 1													
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: VECTOR

ENTERED BY: EF

CHECKED BY:

Bottom Depth: 189

Cast # down: 99

Cast # up:

TimeLOCUTC

Begin:03:02

Bottom:03:06

End:

START POSITION (GPS)

LAT: 48 18 62

LONG: 124 03 99

BOTTOM POSITION (GPS)

LAT: 48 18 65

LONG: 124 04 03

END POSITION (GPS)

LAT: 48 18 60

LONG: 124 04 08

Comments:

ROSETTE LOG

MISSION ID: 2002-31 STATION: 75 CAST NUMBER: 102 UTC DATE (dd/mm/yyyy): Sept 12 2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK		CHL						
1	305	1142	1.527	Bot-5	✓ 220	✓												
2	306	715	1.531	200	✓	✓												
3	307	727	1.539	175	✓	✓												
4	308	1105	1.561	150	✓													
5	309	1110	1.629	125	✓													
6	310	1126	2.136	100	✓													
7	311	1128	2.359	75	✓													
8	312	1130	3.117	50	✓													
9	313	1134	3.705	40	✓													
10	314	1135	3.939	30	✓													
11	315	1136	3.996	20	✓							xx						
12	316	1137	4.213	10	✓													
13	317	1138	4.259	5	✓							xx						
14	318	1141	4.431	surf	✓													
15				0														
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Vector
ENTERED BY: ET
CHECKED BY: ET

Bottom Depth: 223

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0708
Bottom:		0714
End:		0725

START POSITION (GPS)
LAT: 48 28 15
LONG: 124 32 90

BOTTOM POSITION (GPS)
LAT: 48 28 16
LONG: 124 33 01

END POSITION (GPS)
LAT: 48 28 15
LONG: 124 33 33

Comments:

ROSETTE LOG

MISSION ID: 2002-31 STATION: 102 CAST NUMBER: 105 UTC DATE (dd/mm/yyyy): 12 Sept 2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	319	1148	1.366	249	✓ 30+5	✓												
2	320	1153	1.406		✓ 200	✓												
3	321	1158	1.495		✓ 175	✓												
4	322	1175	1.740		✓ 150													
5	323	1176	2.363		✓ 125													
6	324	1188	2.802		✓ 100													
7	325	1189	3.189		✓ 75													
8	326	1192	3.033		✓ 50													
9	327	1193	2.679		✓ 40													
10	328	1195	3.341		✓ 30													
11	329	1203	3.680		✓ 20							vv						
12	330	1206	3.982		✓ 10													
13	331	1209	4.457		✓ 5							vv						
14	332	1210	4.676		✓ 0													
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Vector
ENTERED BY:
CHECKED BY:

Bottom Depth: 255

Cast # down: 105
Cast # up:

Time	LOC	UTC
Begin:		0934
Bottom:		0940
End:		0952

START POSITION (GPS)
LAT: 48 30 06
LONG: 124 44 13

BOTTOM POSITION (GPS)
LAT: 48 30 09
LONG: 124 44 33

END POSITION (GPS)
LAT: 48 30 14
LONG: 124 44 70