

ROSETTE LOG

MISSION ID: 2002-28 STATION: TrC1 CAST NUMBER: 1 UTC DATE (dd/mm/yyyy): 27/08/2002

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken												OXY Titration (DO)
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	1			bot-5	/ 245	✓												2.966
2	2			250	/	✓							.434					2.739 old end point
3	3			200	/													2.740
4	4			175	/													2.676 depth in file should be 175, not 150
5	5			150	/													2.656
6	6			125	/													2.652
7	7			100	/					.225	.289			.514				1.569 Titration failed first time at 225 added
8	8			75	/													2.943
9	9			50	/													3.471
10	10			30	/								.671					3.701 add end point (oep)
11	11			20	/													3.771 oep
12	12			10	/													4.340
13	13			5	/													8.345
14	14			0	/													8.672
15																		
16																		
17																		.004
18																		.718
19																		10.02
20																		.010/2766
21																		
22																		
23																		
24																		

Comments:

SHIP: Vector

ENTERED BY:

CHECKED BY:

Bottom Depth: 284

Cast # down: 1

Cast # up: 1

TimeLOCUTC

Begin:0259

Bottom:0306

End:

START POSITION (GPS)

LAT:50 43.64

LONG:126 10.77

BOTTOM POSITION (GPS)

LAT:50 43.70

LONG:126 10.72

END POSITION (GPS)

LAT:50 43.80

LONG:126 10.23

.225

.289

ROSETTE LOG

MISSION ID: 2002-28 STATION: Tr C 2.5 CAST NUMBER: 2 UTC DATE (dd/mm/yyyy): 27/08/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						DO (ml/L)
1	15			bot -5	✓ 295	✓												2.608
2	16			250	✓	✓												2.612
3	17			200	✓													2.617
4	18			175	✓													2.632
5	19			150	✓													2.620
6	20			125	✓													2.656
7	21			100	✓													2.754
8	22			75	✓													3.021
9	23			50	✓													3.550
10	24			30	✓													3.772
11	25			20	✓			✓										3.789
12	26			10	✓							✓						4.094
13	27			5	✓							✓						5.316
14	28			0	✓			✓										8.185
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: #27 chl sample - filter ruptured (both samples) leak in manifold

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 300

Cast # down: 2

Cast # up: 2

Time	LOC	UTC
Begin:		4:46
Bottom:		4:54
End:		

START POSITION (GPS)

LAT: 50 50 .34

LONG: 126 19 .85

BOTTOM POSITION (GPS)

LAT: 50 50 .32

LONG: 126 20 .06

END POSITION (GPS)

LAT: 50 50 .31

LONG: 126 20 45

ROSETTE LOG

MISSION ID: 2002-28 STATION: FIS CAST NUMBER: 3 UTC DATE (dd/mm/yyyy): 28/08/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						80 (mL/l) / Titration Notes
1	29	Bot-10			✓ 323	-												2.616
2	30	250			✓	-												2.555
3	31	200			✓													2.579
4	32	175			✓													2.654
5	33	150			✓													2.691
6	34	125			✓								.492					2.700 odd end point
7	35	100			✓													2.893
8	36	75			✓													3.229
9	37	50			✓				x x									3.521
10	38	30			✓													3.950
11	39	20			✓													4.091
12	40	10			✓								✓					5.258
13	41	5			✓				↓				✓					6.846
14	42	0			✓				x x x									8.779
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 333

Cast # down: 3
Cast # up: 3

Time	LOC	UTC
Begin:		0634
Bottom:		0641
End:		0703

START POSITION (GPS)
LAT: 50 47.03
LONG: 126 36.68

BOTTOM POSITION (GPS)
LAT: 50 47.03
LONG: 126 36.69

END POSITION (GPS)
LAT: 50 47.01
LONG: 126 36.80

ROSETTE LOG

MISSION ID: 2002-28 STATION: PPI CAST NUMBER: 4 UTC DATE (dd/mm/yyyy): 28/08/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					DO (ml/l) / Titration notes
1	43			Bot-10	✓ 130													2.722
2	44			125	✓													2.737
3	45			100	✓													2.832
4	46			75	✓													3.249
5	47			50	✓													3.738
6	48			30	✓													3.848
7	49			20	✓													3.878
8	50			10	✓													4.792
9	51			5	✓													7.341
10	52			0	✓													8.996
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 166

Cast # down: 4
Cast # up: 4

Time	LOC	UTC
Begin:		0746
Bottom:		0750
End:		0802

START POSITION (GPS)
LAT: 50 48.91
LONG: 126 31.53

BOTTOM POSITION (GPS)
LAT: 50 49.93
LONG: 126 31.61

END POSITION (GPS)
LAT: 50 48.92
LONG: 126 31.81

ROSETTE LOG

MISSION ID: 2002-20 STATION: KINO CAST NUMBER: 5 UTC DATE (dd/mm/yyyy): 28/8/2002

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	53	1249	3.143	607-5	✓ 390													
2	54	1248	3.115	300	✓													
3	55	1254	3.106	250	✓													
4	56	1256	3.175	200	✓												.569	odd titration end point
5	57	1258	3.325	175	✓													
6	58	1260	3.420	150	✓													
7	59	1261	3.448	125	✓													
8	60	1264	3.272	100	✓													
9	61	1267	3.371	75	✓													
10	62	1268	3.714	50	✓													
11	63	1270	3.957	30	✓													
12	64	1271	4.114	20	✓													
13	65	1272	4.877	10	✓													
14	66	1273	8.566	5	✓													
15	67	1274	7.598	0				X										Leaking
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 400

Cast # down: 5
Cast # up: 5

Time	LOC	UTC
Begin:		0835
Bottom:		0844
End:		0904

START POSITION (GPS)
LAT: 50 51.72
LONG: 126 37.29

BOTTOM POSITION (GPS)
LAT: 50 51.73
LONG: 126 37.20

END POSITION (GPS)
LAT: 50 51.68
LONG: 126 37.17

ROSETTE LOG

MISSION ID: 2002-28 STATION: Kin 1.5 CAST NUMBER: 6 UTC DATE (dd/mm/yyyy): 28/8/2002

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	68	1148	3.428	607-5	✓ 465													
2	69	1153	3.304	400	✓													
3	70	1158	3.109	300	✓													
4	71	1175	2.805	250	✓													✓ odd Titration End Point
5	72	1176	3.002	200	✓													
6	73	1188	3.076	175	✓													
7	74	1189	3.287	150	✓													
8	75	1192	3.189	125	✓													
9	76	1193	3.267	100	✓													
10	77	1195	3.713	75	✓													
11	78	1203	4.096	50	✓													
12	79	1206	4.166	30	✓													
13	80	1209	4.245	20	✓													
14	81	1210	6.664	10	✓													
15	82	1212	7.061	10	✓													leaking 1.274 end point off by 1 set
16	83	1215	9.585	5	✓													
17	84	1216	7.684	0	✓													
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 480

Cast # down: 6

Cast # up: 6

Time LOC UTC

Begin: 09:52

Bottom: 10:02

End: 10:21

START POSITION (GPS)

LAT: 50 56.17

LONG: 126 28.90

BOTTOM POSITION (GPS)

LAT: 50 56.18

LONG: 126 28.91

END POSITION (GPS)

LAT: Sen Save Crashed

LONG: Sen Save Crashed

MISSION ID: 2002-28 STATION: SC CAST NUMBER: 8 UTC DATE (dd/mm/yyyy): 28/8/2002

[illegible]

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 235

Cast # down: 7

Cast # up: 8

Time	LOC	UTC
Begin:	11:40 (7)	
Bottom:	11:45 (7)	11:52 (8)
End:		1202 (8)

START POSITION (GPS)
LAT: 50 53.12
LONG: 126 45.69

BOTTOM POSITION (GPS)	
LAT:	50.53.43 (7+8)
LONG:	126.45.61 (7)
	126.45.56 (8)

END POSITION (GPS)
LAT: 50. 53. 44
LONG: 126 45. 48

ROSETTE LOG

MISSION ID: 2002-28 STATION: WP CAST NUMBER: 9 UTC DATE (dd/mm/yyyy): 28/8/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
							OXY				ALK		CHL					
1	98	715	3.565	bot-5	✓ 170													
2	99	712	3.613	150	✓													
3	100	727	3.680	125	✓													✓ add end point in titration
4	101	730	3.748	100	✓													.648 add end point in titration
5	102	1130	3.822	75	✓													
6	103	1105	4.004	50	✓													
7	104	1110	4.261	30	✓													
8	105	1126	4.343	20	✓													✓ add end point in titration
9	106	1128	4.503	10	✓													
10	107	1134	4.748	5	✓													
11	108	1135	5.093	0	✓ 1.0													
12	109				✓ 1.0													
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 183

Cast # down: 9

Cast # up: 9

Time LOC UTC

Begin: 13:00

Bottom: 13:04

End: 13:15

START POSITION (GPS)

LAT: 50 50.84

LONG: 126 56.415

BOTTOM POSITION (GPS)

LAT: 50 50.85

LONG: 126 56.43

END POSITION (GPS)

LAT: 50 50.88

LONG: 120 56.51

ROSETTE LOG

MISSION ID: 2002-28 STATION: KW 1 CAST NUMBER: 10 UTC DATE (dd/mm/yyyy): 28/8/2002

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	109	1148	3.161	bot-1	✓ 250													
2	110	1153	2.990	200	✓													
3	111	1158	2.980	175	✓													
4	112	1175	3.001	150	✓													
5	113	1176	3.075	125	✓													
6	114	1184	3.126	100	✓													
7	115	1189	3.808	75	✓													
8	116	1192	3.122	50	✓													
9	117	1193	3.792	30	✓													
10	118	1195	3.937	20	✓													
11	119	1203	4.488	10	✓													
12	120	1206	4.474	10	✓								✓					
13	121	1209	5.680	5	✓								✓					
14	122	1210	8.328	0	✓			*	*									
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 260

Cast # down: 10
Cast # up: 10

Time	LOC	UTC
Begin:	2243	
Bottom:	2248	
End:	2248	

START POSITION (GPS)
LAT: 50 38.09
LONG: 126 25.28

BOTTOM POSITION (GPS)
LAT: 50 38.08
LONG: 126 25.25

END POSITION (GPS)
LAT: 50 38.08
LONG: 126 25.25

Comments:

ROSETTE LOG

MISSION ID: 2002-28 STATION: PE-00 CAST NUMBER: 11 UTC DATE (dd/mm/yyyy): 28 / 08 / 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	123	1212	3.414	bot-5	✓													
2	124	1215	3.457	30	✓													
3	125	1216	3.522	25	✓													
4	126	1222	3.600	20	✓													
5	127	1223	3.689	15	✓												0.657	add end point in titration
6	128	1224	4.220	10	✓												0.757	add end point in titration
7	129	1225	5.775	5	✓													
8	130	1228	7.648	0	✓												✓	add end point in titration
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 48

Cast # down: 11
Cast # up: 11

Time	LOC	UTC
Begin:		23 45
Bottom:		23 47
End:		23 54

START POSITION (GPS)
LAT: 50 40.26
LONG: 126 28.95

BOTTOM POSITION (GPS)
LAT: 50 40.26
LONG: 126 28.95

END POSITION (GPS)
LAT: 50 40.27
LONG: 126 28.95

ROSETTE LOG

MISSION ID: 2002-28 STATION: KNO CAST NUMBER: 12 UTC DATE (dd/mm/yyyy): 29/08/2002

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	131	1231	3.434	Bot - 10	/													
2	132	1233	3.634	30	/													
3	133	1235	3.976	20	/													
4	134	1237	4.234	10	/													
5	135	1238	5.210	5	/													
6	136	1241	7.282	0														
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 62

Cast # down: 12

Cast # up: 12

Time

LOC

UTC

Begin: 0056

Bottom: 0101

End: 0108

START POSITION (GPS)

LAT: 50 38.30

LONG: 126 35.07

BOTTOM POSITION (GPS)

LAT: 50 38.32

LONG: 126 35.13

END POSITION (GPS)

LAT: 50 38.33

LONG: 126 35.23

Comments:

ROSETTE LOG

MISSION ID: 2002-28 STATION: BIS CAST NUMBER: 13 UTC DATE (dd/mm/yyyy): 29/08/2002

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	137*	84	2.543	607-5	/	146						.458			DJS	Corrected: DJS	Wrong depth entered: DO.	
2	138	364	2.471	100	/													
3	139	534	2.528	75	/													
4	140	535	3.105	50	/													
5	141	572	3.576	30	/													
6	142	588	3.793	20	/			X	X									
7	143	657	3.943	10	/													
8	144	695	4.175	5	/													
9	145	697	4.212	0	/			X	X									
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: * Sample #137 has large flakes of precipitate that could not be dissolved by acid, end point not to be trusted.

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 146

Cast # down: 13

Cast # up: 13

Time

LOC

UTC

Begin: 0206

Bottom: 0210

End:

START POSITION (GPS)

LAT: 50 35.99

LONG: 126 43.64

BOTTOM POSITION (GPS)

LAT: 50 35.99

LONG: 126 43.63

END POSITION (GPS)

LAT: 50 36.00

LONG: 126 43.74

ROSETTE LOG

MISSION ID: 2002-28 STATION: QCS1 CAST NUMBER: 14 UTC DATE (dd/mm/yyyy): 29/08/2002

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	146	707	2.348	Bot-10	✓ 145													
2	147	708	2.363	125	✓													
3	148	709	2.383	100	✓													
4	149	715	2.502	75	✓													
5	150	712	2.879	50	✓													
6	151	727	3.368	30	✓													
7	152	—	—	20	✓													cracked flask; (730)
8	153	1130	3.958	10	✓													depth misrecorded in file as 10
9	154	1105	4.105	5	✓													
10	155	1110	4.659	0														
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 155

Cast # down: 14

Cast # up: 14

Time

LOC

UTC

Begin: 0546

Bottom: 0550

End: 0601

START POSITION (GPS)

LAT: 50 40.08

LONG: 126 46.27

BOTTOM POSITION (GPS)

LAT: 50 40.13

LONG: 126 46.30

END POSITION (GPS)

LAT: 50 40.27

LONG: 126 46.39

ROSETTE LOG

MISSION ID: 2002-28 STATION: QCS 1.5 CAST NUMBER: 15 UTC DATE (dd/mm/yyyy): 29/08/2002

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	156	1126	2.292	Bot -5	✓ 130													
2	157	1128	2.318	125	✓													
3	158	1134	2.545	100	✓													
4	159	1135	2.632	75	✓													
5	160	1136	3.016	50	✓													
6	161	1137	3.325	30	✓													
7	162	1138	3.626	20	✓													
8	163	1141	3.906	10	✓			X	X			XX						
9	164	1142	4.458	5	✓							XX						
10	165	1146	5.321	0	✓			↓	↓									
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 135

Cast # down: 15
Cast # up: 15

Time	LOC	UTC
Begin:		0647
Bottom:		0650
End:		0700

START POSITION (GPS)

LAT: 50 42.87

LONG: 126 55.56

BOTTOM POSITION (GPS)

LAT: 50 42.86

LONG: 126 55.57

END POSITION (GPS)

LAT: 50 42.76

LONG: 126 55.66

ROSETTE LOG

MISSION ID: 2002-28 STATION: Sm 5 CAST NUMBER: 016 UTC DATE (dd/mm/yyyy): 29/8/2002

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	166	1148	0.650	bot-5	✓ 100													
2	167	1153	0.642	75	✓													
3	168	1158	1.638	50	✓													
4	169	1175	3.529	30	✓													
5	170	1176	3.869	20	✓													
6	171	1184	4.510	10	✓													
7	172	1189	5.553	5	✓													
8	173	1192	6.561	0	✓													
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: VECTOR

ENTERED BY:

CHECKED BY:

Bottom Depth: 107

Cast # down: 16

Cast # up: 16

Time	LOC	UTC
Begin:	15:39	
Bottom:	15:42	
End:	15:49	

START POSITION (GPS)

LAT: 51 25.30

LONG: 127 06.19

BOTTOM POSITION (GPS)

LAT: 51 21.29

LONG: 127 06.17

END POSITION (GPS)

LAT: 51 21.29

LONG: 127 06.12

ROSETTE LOG

MISSION ID: 2002-28 STATION: Sm 4 CAST NUMBER: 017 UTC DATE (dd/mm/yyyy): 29/8/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
							OXY				ALK		CHL					
1	174	1193	1.064	bot-5	✓ 175													
2	175	1195	1.040	150	✓													
3	176	1203	1.021	125	✓													
4	177	1206	1.052	100	✓													
5	178	1209	0.487	75	✓													✓ titration - bad result?
6	179	1210	1.898	50	✓													
7	180	1212	3.642	30	✓													
8	181	1215	—	20	✓													
9	182	1216	4.619	10	✓							✓✓					Niskin	Didn't close
10	183	1222	5.685	5	✓							✓✓						
11	184	1223	—	0	✓												Niskin	Didn't close
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Chl #183 - one duplicate lost upon filtration. DJS

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 182

Cast # down: 17

Cast # up:

Time	LOC	UTC
Begin:		16.12
Bottom:		16.16
End:		16.26

START POSITION (GPS)

LAT: 51 21.61

LONG: 127 09.00

BOTTOM POSITION (GPS)

LAT: 51 21.60

LONG: 127 09.01

END POSITION (GPS)

LAT: 51 21.55

LONG: 127 09.04

ROSETTE LOG

MISSION ID: 2002-28 STATION: Sm3 CAST NUMBER: 18 UTC DATE (dd/mm/yyyy): 29/8/2002

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	185	1249	2.055	60+-5	✓ 315	✓												Plastic cracked
2	186	1248	2.057	300	✓	✓												
3	187	1254	2.316	250	✓	✓												
4	188	1256	2.907	200	✓													
5	189	1258	2.767	175	✓													
6	190	1260	2.972	150	✓													
7	191	1261	2.958	125	✓													
8	192	1264	2.197	100	✓													
9	193	1267	1.661	75	✓													
10	194	1268	2.201	50	✓													
11	195	1270	4.194	30	✓													
12	196	1271	4.427	20	✓													
13	197	1272	7.387	10	✓													
14	198	1273	5.508	5	✓													
15	199	1274	6.682	0	✓													
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 325

Cast # down: 18'
Cast # up:

Time	LOC	UTC
Begin:		17.02
Bottom:		17.09
End:		17.28

START POSITION (GPS)
LAT: 51 18.50
LONG: 127 14.68

BOTTOM POSITION (GPS)
LAT: 51 18.50
LONG: 127 14.67

END POSITION (GPS)
LAT: 51 18.46
LONG: 127 14.68

Comments:

ROSETTE LOG

MISSION ID: 2002-28 STATION: SM2 CAST NUMBER: 19 UTC DATE (dd/mm/yyyy): 29/8/2002

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	200	1276	2.136	320	✓ bot-5	✓												
2	201	1279	2.141		✓ 300	✓												
3	202	1277	2.310		✓ 250	✓												
4	203	1278	2.466		✓ 200													
5	204	1280	2.640		✓ 175													
6	205	1281	2.633		✓ 150													
7	206	1282	2.771		✓ 125													
8	207	1284	2.432		✓ 100													
9	208	1285	1.929		✓ 75													
10	209	1286	2.640		✓ 50													
11	210	1287	3.984		✓ 30													
12	211	1288	4.599		✓ 20													
13	212	1290	4.528		✓ 10													
14	213	1291	5.369		✓ 5													
15	214	1292	6.846		✓ 0	X												
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 355

Cast # down: 19

Cast # up:

Time	LOC	UTC
Begin:	18.13	
Bottom:		
End:	18.32	

START POSITION (GPS)

LAT: 51 18.05

LONG: 127 22.16

BOTTOM POSITION (GPS)

LAT: 51 18.07

LONG: 127 22.15

END POSITION (GPS)

LAT: 51 17.98

LONG: 127 22.15

ROSETTE LOG

MISSION ID: 2002-28

STATION: Sm 1

CAST NUMBER: 20

UTC DATE (dd/mm/yyyy):

29/8/2002

[illegible]

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 213

Cast # down: 20

Cast # up: 20

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

Begin: 19:08

Bottom: 17:43

End: 19:24

START POSITION (GPS)

LAT: 51 18.71

LONG: 127 29.94

BOTTOM POSITION (GPS)

LAT: 51 18 71

LONG: 127 29.92

END POSITION (GPS)

LAT: 51 18.72

LONG: 127 29.81

Comments:

ROSETTE LOG

MISSION ID: 2002-28 STATION: RI 1 CAST NUMBER: 21 UTC DATE (dd/mm/yyyy): 29/8/2002

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	227	715	2.208	bot-5	✓ 320	✓												
2	228	712	2.180	300	✓ 300	✓												
3	229	721	2.230	250	✓ 250	✓												
4	230	1130	2.350	200	✓ 200													
5	231	1105	2.437	175	✓ 175													
6	232	1110	2.494	150	✓ 150													
7	233	1126	2.593	125	✓ 125													✓ odd core point in filtration
8	234	1128	2.659	100	✓ 100													
9	235	1134	2.669	75	✓ 75													
10	236	1135	3.243	50	✓ 50													
11	237	1136	3.575	30	✓ 30													
12	238	1137	3.763	20	✓ 20													
13	239	1138	3.845	10	✓ 10								✓					
14	240	1141	4.081	5	✓ 5								✓					
15	241	1142	5.705	0	✓			x	x									
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 333

Cast # down: 21

Cast # up: 21

Time

LOC

UTC

Begin: 22:20

Bottom: 22:27

End: 22:44

START POSITION (GPS)

LAT: 51 26.38

LONG: 127 38.13

BOTTOM POSITION (GPS)

LAT: 51 26.35

LONG: 127 38.14

END POSITION (GPS)

LAT: 51 26.29

LONG: 127 38.19

ROSETTE LOG

MISSION ID: 2002-28 STATION: R+2 CAST NUMBER: 22 UTC DATE (dd/mm/yyyy): 29/08/2002

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	242	1148	2.227	60+5	✓	325												
2	243	1153	2.262	300	✓													
3	244	1158	2.284	250	✓													
4	245	1175	2.340	200	✓													
5	246	1176	2.438	175	✓													
6	247	1188	2.579	150	✓													
7	248	1189	2.761	125	✓													
8	249	1192	2.736	100	✓													
9	250	1193	2.591	75	✓													
10	251	1195	3.068	50	✓													
11	252	1203	3.334	30	✓													
12	253	1206	3.618	20	✓													
13	254	1209	3.809	10	✓													
14	255	1210	4.217	5	✓													
15	256	1212	7.345	0														
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 335

Cast # down: 22

Cast # up: 22

Time

LOC

UTC

Begin: 23:28

Bottom: 23:36

End: 23:53

START POSITION (GPS)

LAT: 51 31.22

LONG: 127 33.64

BOTTOM POSITION (GPS)

LAT: 51 31.16

LONG: 127 33.63

END POSITION (GPS)

LAT: 51 30.98

LONG: 127 33.76

ROSETTE LOG

MISSION ID: 2002-28 STATION: R13 CAST NUMBER: 23 UTC DATE (dd/mm/yyyy): 30/08/2002

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	257	1215	2.215	bot - 5	✓													
2	258	1216*	2.257	300	✓													
3	259	1222	2.270	250	✓													
4	260	1223	2.284	200	✓													
5	261	1224	2.545	175	✓													
6	262	1225*	2.625	150	✓													
7	263	1228	2.707	125	✓													
8	264	1231*	2.686	100	✓													
9	265	1233	2.667	75	✓													
10	266	1235	3.165	50	✓													
11	267	1237*	3.541	30	✓													
12	268	1238	3.677	20	✓													
13	269	1241	4.435	10	✓													
14	270	1244	6.609	5	✓													
15	271	1247*	7.611	0				X										
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: * big white flakes in flask

SHIP:

ENTERED BY: DJS

CHECKED BY:

Bottom Depth: 331

Cast # down: 23

Cast # up:

TimeLOCUTC

Begin:0034

Bottom:0041

End:0100

START POSITION (GPS)

LAT: 51° 35.89

LONG: 127° 32.09

BOTTOM POSITION (GPS)

LAT: 51° 35.82

LONG: 127° 32.09

END POSITION (GPS)

LAT: 51° 35 70

LONG: 127° 32.27

ROSETTE LOG

MISSION ID: 2002-29 STATION: R1-4 CAST NUMBER: 24 UTC DATE (dd/mm/yyyy): 30/08/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	272	1248	2.332	250	✓ 290													
2	273	1254	2.249	200	✓													
3	274	1256	2.372	175	✓													
4	275	1258*	2.509	150	✓													
5	276	1260	2.626	125	✓													
6	277	1261	2.786	100	✓													
7	278	1264*	2.757	75	✓													
8	279	1267*	2.608	50	✓													
9	280	1268	3.247	30	✓													
10	281	1270	3.904	20	✓													
11	282	1271	5.1089	10	✓													* O ₂ too high
12	283	1272	4.351	5	✓													
13	284	1273	5.1355	0	✓													
14	285	1274	7.521															
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: * large flake in flask

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 304

Cast # down: 24

Cast # up: 24

Time

LOC

UTC

Begin: 0136

Bottom: 0143

End: 0200

START POSITION (GPS)

LAT: 50 38.91

LONG: 127 26.67

BOTTOM POSITION (GPS)

LAT: 51 38.93

LONG: 127 26.64

END POSITION (GPS)

LAT: 51 38.91

LONG: 127 26.55

ROSETTE LOG

MISSION ID: 2002-28 STATION: RI 5 CAST NUMBER: 25 UTC DATE (dd/mm/yyyy): 30/08/2002

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	286	1276	2.296	80T-5	/ 190													
2	287	1277	2.495	175	/													
3	288	1277	2.656	150	/													
4	289	1278	2.784	125	/													
5	290	1280	2.745	100	/													
6	291	1281	2.627	75	/													
7	292	1282	3.497	50	/													
8	293	1284	4.140	30	/													
9	294	1285	4.316	20	/													
10	295	1286	4.430	10	/													
11	296	1287	4.681	5	/													
12	297	1288	7.146	0			X											
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 200

Cast # down: 25

Cast # up: 25

Time

LOC

UTC

Begin: 0239

Bottom: 0246

End: 0259

START POSITION (GPS)

LAT: 51 40.70

LONG: 127 19.89

BOTTOM POSITION (GPS)

LAT: 51 40.71

LONG: 127 19.90

END POSITION (GPS)

LAT: 51 40.75

LONG: 127 19.84

ROSETTE LOG

MISSION ID: 2002-28 STATION: RI-6 CAST NUMBER: 26 UTC DATE (dd/mm/yyyy): 30/08/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		Phylo				
							OXY				ALK		CHL					
1	298	84	2.285	Bot-5	✓	200												
2	299	364	2.392	175	✓													
3	300	534	2.540	150	✓													
4	301	535	2.537	125	✓													
5	302	572	2.551	100	✓													33.182 YSI cal/sample.
6	303	588	2.586	75	✓													
7	304	657	3.421	50	✓													
8	305	695	3.965	30	✓													
9	306	697	4.070	20	✓													
10	307	707	4.499	10	✓													
11	308	708	4.977	5	✓									✓				
12	309	709	7.037	0				X										
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 210

Cast # down: 26

Cast # up: 26

TimeLOCUTC

Begin:0402

Bottom:0408

End:0422

START POSITION (GPS)

LAT: 51 43.71

LONG: 127 27.20

BOTTOM POSITION (GPS)

LAT: 51 43.67

LONG: 127 27.27

END POSITION (GPS)

LAT: 51 43.58

LONG: 127 27.17

ROSETTE LOG

MISSION ID: 2002-28 STATION: MC1 CAST NUMBER: 27 UTC DATE (dd/mm/yyyy): 30/8/2012

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	310	1148	2.163	Bot-5	✓ 250													
2	311	1153	2.142	200	✓													
3	312	1158	2.192	175	✓													
4	313	1175	2.104	150	✓													
5	314	1176	2.131	125	✓													
6	315	1188	2.155	100	✓													
7	316	1189	2.234	75	✓													
8	317	1192	2.452	50	✓													
9	318	1193	3.233	30	✓													
10	319	1195	3.602	20	✓													
11	320	1203	4.594	10	✓													
12	321	1206	5.044	5	✓													
13	322	1209	5.647	0	✓													
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: X many flakes - but they eventually dissolved

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 260

Cast # down: 27

Cast # up: 27

Time	LOC	UTC
Begin:		14:28
Bottom:		14:33
End:		14:40

START POSITION (GPS)

LAT: 52 22.16

LONG: 128 21.28

BOTTOM POSITION (GPS)

LAT: 52 22.13

LONG: 128 21.32

END POSITION (GPS)

LAT: 52 22.07

LONG: 128 21.39

ROSETTE LOG

MISSION ID: 1002-28 STATION: OP CAST NUMBER: 28 UTC DATE (dd/mm/yyyy): 30/8/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	Phy					
1	323	1212	1.930	60.5	✓ 260													
2	324	1215	1.917	250	✓													
3	325	1216	1.930	200	✓													
4	326	1222	1.953	175	✓													
5	327	1223	1.988	150	✓													
6	328	1224	2.207	125	✓													
7	329	1225	2.418	100	✓													
8	330	1228	2.746	75	✓													
9	331	1231	3.456	50	✓													
10	332	1233	3.860	30	✓													
11	333	1235	4.407	20	✓													
12	334	1237	5.502	10	✓							✓✓						
13	335	1238	6.417	5	✓							✓✓	✓					
14	336	1241	6.676	0	✓		x	x										
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 269

Cast # down: 26
Cast # up: 28

Time	LOC	UTC
Begin:		15:53
Bottom:		15:58
End:		16:14

START POSITION (GPS)
LAT: 52 24.70
LONG: 128 18.44

BOTTOM POSITION (GPS)
LAT: 52 28.74
LONG: 128 14.44

END POSITION (GPS)
LAT: 52 28.71
LONG: 128 18.44

Comments: W. Crawford Power Shift. 326 and 327 are reversed in the data files. All other #'s in the files are correct - Corrected by DSS is OXY Cite. on server.
J. Cingolanti
x - large particulates never dissolved

ROSETTE LOG

MISSION ID: 2002-28 STATION: MC3 CAST NUMBER: 29 UTC DATE (dd/mm/yyyy): 30/8/2002

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	337	84	2.297	bot-5	✓ 375													
2	338	764	2.330	300	✓													
3	339	534	2.330	250	✓													
4	340	535	2.300	200	✓													
5	341	572	2.055	175	✓													
6	342	588	1.856	150	✓													
7	343	657	1.862	125	✓													
8	344	695	2.065	100	✓													
9	345	697	1.993	75	✓													
10	346	707	1.981	50	✓													
11	347	708	2.810	30	✓													
12	348	709	3.580	20	✓													
13	349	715	4.819	10	✓													
14	350	712	5.617	5	✓													
15	351	727	6.865	0	✓		X											
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 382

Cast # down: 29
Cast # up: 29

Time	LOC	UTC
Begin:		17:10
Bottom:		17:17
End:		17:35

START POSITION (GPS)
LAT: 52 35.33
LONG: 128 14.81

BOTTOM POSITION (GPS)
LAT: 52 35.34
LONG: 128 14.83

END POSITION (GPS)
LAT: 52 35.48
LONG: 128 14.76

ROSETTE LOG

MISSION ID: 2002-28 STATION: mC 4 CAST NUMBER: 30 UTC DATE (dd/mm/yyyy): 30/08/2002

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	352	1248	2.227	bot-5	✓ 610	✓												
2	353	1254	2.249	500	✓	✓												
3	354	1256	2.299	400	✓													
4	355	1258	2.325	300	✓	✓												
5	356	1260	2.322	250	✓													
6	357	1261	2.128	200	✓													
7	358	1264	1.894	175	✓													
8	359	1267	1.689	150	✓													
9	360	1268	1.554	125	✓													
10	361	1270	1.657	100	✓													
11	362	1271*	1.773	75	✓													
12	363	1272	1.975	50	✓													
13	364	1273	3.106	30	✓													
14	365	1274	3.950	20	✓													
15	366	1279	5.025	10	✓													
16	367	1276	5.407	5	✓													
17	368	1277	7.219	0	✓		x											
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: * many flakes - dissolved eventually

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 619

Cast # down: 30

Cast # up: 30

Time

LOC

UTC

Begin: 18:48

Bottom: 18:59

End: 19:21

START POSITION (GPS)

LAT: 52 42.44

LONG: 128 10.01

BOTTOM POSITION (GPS)

LAT: 52 42.98

LONG: 128 10.06

END POSITION (GPS)

LAT: 52 42.89

LONG: 128 10.16

ROSETTE LOG

MISSION ID: 2002-28 STATION: M01 CAST NUMBER: 31 UTC DATE (dd/mm/yyyy): 30/08/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												30/08/2002
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	369	1148	2.118	bot-5	✓ 310													
2	370	1153	2.073	250	✓													
3	371	1158	2.094	200	✓													
4	372	1175	2.065	175	✓													
5	373	1176	2.047	150	✓													
6	374	1148	1.993	125	✓													
7	375	1189	1.924	100	✓													
8	376	1192	1.933	75	✓													
9	377	1193	2.398	50	✓													
10	378	1195	3.189	30	✓													
11	379	1203	3.541	20	✓													
12	380	1206	4.021	10	✓													
13	381	1209	5.702	5	✓													
14	382	1210	6.936	0	✓		X											
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: VECTOR
ENTERED BY: Crawford, W
CHECKED BY:

Bottom Depth: 335

Cast # down: 31
Cast # up: 31

Time	LOC	UTC
Begin:		20:29
Bottom:		20:35
End:		20:52

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 52 52.57
LONG: 128 08.67

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 2002-28 STATION: FC3 CAST NUMBER: 32 UTC DATE (dd/mm/yyyy): 30/08/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	Phyto					
1	393	841	1.893	bot-5	✓	550												
2	394	364	1.878	500	✓													
3	395	534	1.881	400	✓													
4	396	535	1.908	300	✓													
5	397	572	1.923	250	✓													
6	398	588	1.916	200	✓													
7	399	657	1.955	175	✓													
8	400	695	1.997	150	✓													
9	401	697	2.038	125	✓													
10	402	707	2.076	100	✓													
11	403	708	2.289	75	✓													
12	404	709	2.99a	50	✓													
13	405	815	4.420	30	✓													
14	406	712	4.726	20	✓													
15	407	727	6.399	10	✓							✓✓						
16	408	1130	8.137	5	✓							✓✓	✓					
17	409	1105	8.637	0			X	X										
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 562

Cast # down: 32

Cast # up: 32

Time

LOC

UTC

Begin: 22:22

Bottom: 22 35

End: 23 01

START POSITION (GPS)

LAT: 52 47.91

LONG: 128 25.73

BOTTOM POSITION (GPS)

LAT: 52 47.91

LONG: 128 25.57

END POSITION (GPS)

LAT: 52 47.87

LONG: 128 25.38

ROSETTE LOG

MISSION ID: 2002-28 STATION: Fc 2 CAST NUMBER: 33 UTC DATE (dd/mm/yyyy): 31/08/2002

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	410	1248	1.902	600	✓													
2	411	1254	1.873	500	✓													
3	412	1256	1.909	400	✓													
4	413	1258	1.911	300	✓													
5	414	1260	1.933	250	✓													
6	415	1261	1.967	200	✓													
7	416	1264	1.978	175	✓													
8	417	1267	2.015	150	✓													
9	418	1268	2.037	125	✓													
10	419	1270	2.142	100	✓													
11	420	1271		75	✓													Bottle # Didn't Trip.
12	421	1272	3.328	50	✓													
13	422	1273	3.915	30	✓													
14	423	1274	4.483	20	✓													
15	424	1276	5.401	10	✓													
16	425	1277	7.073	5	✓													
17	426	1279	8.325	0														
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 650

Cast # down: 33

Cast # up: 33

Time

LOC

UTC

Begin: 0035

Bottom: 0048

End: 0115

START POSITION (GPS)

LAT: 52 39.48

LONG: 128 28.19

BOTTOM POSITION (GPS)

LAT: 52 39.41

LONG: 128 28.02

END POSITION (GPS)

LAT: 52 39.50

LONG: 128 28.02

ROSETTE LOG

MISSION ID: 2602-28 STATION: FC1 CAST NUMBER: 34 UTC DATE (dd/mm/yyyy): 31/08/2002

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	427	1148*	2.112	Bot-5	/	750	X											* O2 too high
2	428	1153	1.923	700	/	700	X											
3	429	1158	1.884	600	/	600	X											
4	430	1175	1.880	500	/	500												
5	431	1176	1.901	400	/	400												
6	432	1188	1.904	300	/	300												
7	433	1189	1.913	250	/	250												
8	434	1192	1.983	200	/	200												
9	435	1193	2.005	175	/	175												
10	436	1195	2.035	150	/	150												
11	437	1203	2.018	125	/	125												
12	438	1206*	2.025	125	/	125												↑ Tripping 2 @ 125m
13	439	1209*	2.137	100	/	100												↓ in case 11 doesn't trip Flake in titration never dissolved.
14	440	1210	2.819	75	/	75												
15	441	1212	3.525	50	/	50												
16	442	1215	4.086	30	/	30												
17	443	1216	4.366	20	/	20												
18	444	1223	5.066	10	/	10												
19	445	1222	5.607	5	-	5												
20	446			0	-		X											No surface sample taken
21																		
22																		
23																		
24																		

Comments: * some flakes

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 767

Cast # down: 34

Cast # up: 34

Time

LOC

UTC

Begin: 0215

Bottom: 0230

End: 0256

START POSITION (GPS)

LAT: 52 31.08

LONG: 128 27.86

BOTTOM POSITION (GPS)

LAT: 52 31.11

LONG: 128 27.93

END POSITION (GPS)

LAT: 52 31.26

LONG: 128 27.80

ROSETTE LOG

MISSION ID: 2002-28 STATION: MS CAST NUMBER: 35 UTC DATE (dd/mm/yyyy): 31/08/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	Phyt					
1	446	84	1.776	Bot-5	/ 229													
2	447	364	1.776	200	/													
3	448	534	1.839	175	/													
4	449	535	1.925	150	/													
5	450	572	1.995	125	/													
6	451	588	2.136	100	/													
7	452	657	2.861	75	/													
8	453	695	3.282	50	/													
9	454	697	3.779	30	/													
10	455	707	4.157	20	/													
11	456	708	5.115	10								xx						
12	457	709	6.694	5								xx	x					✓ odd end point in titration
13	458	715	7.904	0														
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Cast 36 contains data for surface bottle.
note: Incorrect station name entered - corrected by OJS on Server file.

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 246

Cast # down: 35
Cast # up: 35

Time	LOC	UTC
Begin:		0465
Bottom:		0412
End:		0426

START POSITION (GPS)

LAT: 52 22.94

LONG: 128 33.41

BOTTOM POSITION (GPS)

LAT: 52 22.84

LONG: 128 33.42

END POSITION (GPS)

LAT: 52 22.76

LONG: 122 33.48

ROSETTE LOG

MISSION ID: 2002-28 STATION: QCS6 CAST NUMBER: 37 UTC DATE (dd/mm/yyyy): 31/08/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												31/08/2002
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	459	1248		50	✓	140												didn't trip
2	460	1254	2.674	125	✓													
3	461	1256	2.717	100	✓													
4	462	1258	3.012	75	✓													
5	463	1260	3.465	50	✓													
6	464	1261	3.732	30	✓													
7	465	1264	3.950	20	✓													
8	466	1267	5.258	10	✓													
9	467	1268	5.503	5	✓													
10	468	1270	5.565	0	✓		X											
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Vector
ENTERED BY: J. Linguanti
CHECKED BY:

Bottom Depth: 150

Cast # down: 37
Cast # up: 37

Time	LOC	UTC
Begin:		
Bottom:		16:37
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 50 52.43
LONG: 127 21.70

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 2002-28 STATION: QCS4 CAST NUMBER: 38 UTC DATE (dd/mm/yyyy): 31/10/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK		CHL	Phy					
1	469	1272	2.454	bot-5	✓ 395	✓												
2	470	1273	2.333	300	✓	✓												
3	471	1274	2.344	250	✓	✓		--										
4	472	1276	2.344	200	✓													
5	473	1277	2.419	175	✓													
6	474	1279	2.501	150	✓													
7	475	1278	2.570	125	✓													
8	476	1280	2.415	100	✓													
9	477	1281	3.398	75	✓													
10	478	1282	---	50	✓									No DO sample	Flask 1282 broke			
11	479	1284	3.545	30	✓													
12	480	1285	4.657	20	✓													
13	481	1286	5.499	10	✓							--						
14	482	1287	5.647	5	✓							--	✓					
15	483	1288	5.788	0	✓		x	x										
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 405

Cast # down: 32
Cast # up: 38

Time LOC UTC
Begin:
Bottom: 17:29
End:

START POSITION (GPS)
LAT: 50 46.70
LONG: 127 24.92

BOTTOM POSITION (GPS)
LAT: 50 46.67
LONG: 127 24.41

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 2002-28 STATION: QCS3 CAST NUMBER: 39 UTC DATE (dd/mm/yyyy): 31/08/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	484	1148	2.252	bot-5	✓ 207													
2	485	1153	2.262	200	✓													
3	486	1158	2.334	175	✓													
4	487	1175	2.446	150	✓													
5	488	1176	2.544	125	✓													
6	489	1188	2.674	100	✓													
7	490	1189	2.916	75	✓													
8	491	1192	3.239	50	✓													
9	492	1193	3.826	30	✓													
10	493	1195	4.630	20	✓													
11	494	1203	5.365	10	✓													
12	495	1206	5.665	5	✓													
13	496	1209	5.740	0	✓		X											
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 214

Cast # down: 39
Cast # up: 39

Time	LOC	UTC
Begin:		1837
Bottom:		1843
End:		

START POSITION (GPS)
LAT: 50° 43.78
LONG: 127° 14.99

BOTTOM POSITION (GPS)
LAT: 50° 43.77
LONG: 127° 15.08

END POSITION (GPS)
LAT: 50°
LONG: 127°

ROSETTE LOG

MISSION ID: 2002-28 STATION: QCS5 CAST NUMBER: 40 UTC DATE (dd/mm/yyyy): 31/08/2002

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	497	1212	2.453	60-5	✓ 135													
2	498	1215	2.458	125	✓													
3	499	1216	2.538	100	✓													
4	500	1223	2.833	75	✓													
5	501	1222	3.299	50	✓													
6	502	1224	3.693	30	✓													
7	503	1225	3.962	20	✓													
8	504	1228	4.830	10	✓													
9	505	1231	5.139	5	✓													
10	506	1233	5.257	0	✓		x											
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 142

Cast # down: 40

Cast # up: 40

TimeLOCUTC

Begin:

Bottom: 1944

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 50 49 43

LONG: 127 12.06

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2002-28 STATION: QCS2 CAST NUMBER: 41 UTC DATE (dd/mm/yyyy): 31/8/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												Labels
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	CI3	CHL	Phyt					
1	507	89	2.414	bot-5	✓ 210													497 → 506
2	508	764	2.268	200	✓													5494 → 486
3	509	534	2.300	175	✓													???
4	510	535	2.305	150	✓													
5	511	572	2.270	125	✓													
6	512	588	2.332	100	✓													
7	513	657	2.609	75	✓													
8	514	695	3.368	50	✓													
9	515	697	3.750	30	✓													
10	516	702	4.080	20	✓													
11	517	708	4.954	10	✓							✓						
12	518	709	5.527	5	✓							✓	✓					Opit
13	519	715	5.668	0	✓			✓	✓									
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: * Nut, CHL, Phyt must all have their Sample Numbers checked. In correct sample numbers were on the Oxygen stickers (see back). DJJ: Joe corrected labelling by putting new labels on top of originals (nuts, chl & phyto)

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 221

Cast # down: 41
Cast # up: 41

Time LOC UTC
Begin:
Bottom: 20:50
End:

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 50 46.63
LONG: 127 02.31

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 2002-28 STATION: QCS2.5 CAST NUMBER: 42 UTC DATE (dd/mm/yyyy): 31/08/2002

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	520	727	2.293	60+5	✓ 190													First sample had no label.
2	521	1130	2.307	175	✓													
3	522	1105	2.368	150	✓													
4	523	1110	2.374	125	✓													
5	524	1126	2.524	100	✓													
6	525	1128	2.809	75	✓													
7	526	1134	3.158	50	✓													
8	527	1135	3.602	30	✓													
9	528	1136	3.774	20	✓													
10	529	1137	5.228	10	✓													
11	530	1138	5.680	5	✓													
12	531	1141	5.718	0	✓													
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 201

Cast # down:

Cast # up:

Time

LOC

UTC

Begin:

Bottom: 21:43

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 50 42.51

LONG: 127 05.35

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2002-28 STATION: QCS 1.5 CAST NUMBER: 43 UTC DATE (dd/mm/yyyy): 31/08/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3		CHL	Phy			
1	532	1248	2.299	bot-5	✓ 130													* low end point in titration
2	533	1254	2.271	125	✓													* long end point plateau in titration
3	534	1256	2.400	100	✓													
4	535	1258	2.632	75	✓													
5	536	1260		50	✓													Didn't trip
6	537	1261	3.387	30	✓													
7	538	1264	3.552	20	✓													
8	539	1267	4.406	10	✓								✓		7.92			odd end point in titration
9	540	1268	4.873	5	✓								✓	✓				
10	541	1270	5.205	0	✓		x	x										
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP:
ENTERED BY: JL
CHECKED BY: WRC

Bottom Depth: 139

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		22:43
End:		

START POSITION (GPS)
LAT: 50 42.88
LONG: 126 55.55

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 2002-28 STATION: QCS1 CAST NUMBER: 44 UTC DATE (dd/mm/yyyy): 31/08/2002

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	542	1271	2.361	bot-5	✓ 151													*
2	543	1272	2.406	125	✓													long end point plateau in filtration
3	544	1273	2.498	100	✓													"
4	545	1274	2.679	75	✓													
5	546	1276	3.136	50	✓													
6	547	1277	3.561	30	✓													
7	548	1279	3.697	20	✓													
8	549	1278	4.724	10	✓													
9	550	1280	5.061	5	✓													
10	551	1281	5.155	0	✓		X											
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 157

Cast # down: 44

Cast # up: 44

Time	LOC	UTC
Begin:		23:40
Bottom:		23:44
End:		23:54

START POSITION (GPS)

LAT: 50 39.97

LONG: 126 46.31

BOTTOM POSITION (GPS)

LAT: 50 39.93

LONG: 126 46.32

END POSITION (GPS)

LAT: 50 39.97

LONG: 126 46.19

Comments:

ROSETTE LOG

MISSION ID: 2002-28 STATION: M1-DO CAST NUMBER: 45 UTC DATE (dd/mm/yyyy): 01/09/2002

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	552	1284	3.801	30-5	✓	45										.677	*	long end point plateau in titration
2	553	1285	3.757	40	✓													
3	554	1286	3.828	35	✓													
4	555	1287	3.844	30	✓													
5	556	1288	3.850	25	✓													
6	557	1290	3.883	20	✓													
7	558	1291	3.911	15	✓													
8	559	1292	3.893	10	✓													
9	560	1148	4.401	5	✓													
10	561	1153	5.118	0	✓													
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 51

Cast # down: 45

Cast # up: 45

Time

LOC

UTC

Begin: 0152

Bottom: 0155

End: 0203

START POSITION (GPS)

LAT: 50 39.41

LONG: 126 39.73

BOTTOM POSITION (GPS)

LAT: 50 39.41

LONG: 126 39.74

END POSITION (GPS)

LAT: 50 39.42

LONG: 126 39.75

ROSETTE LOG

MISSION ID: 2002-28 STATION: 813 CAST NUMBER: 46 UTC DATE (dd/mm/yyyy): 01/09/2002

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	562	1158	2.512	Bot-5	✓	120												
2	563	1175	2.609	100	✓													
3	564	1176	*4.204*	75	✓													* Air bubble in Sample
4	565	1188	3.712	50	✓													
5	566	1189	3.802	30	✓													
6	567	1192	3.820	20	✓													
7	568	1193	3.997	10	✓							xx						
8	569	1195	4.146	5				xx				xx						
9	570	1203	4.218	0				↓	↓	↓								
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: * This Sample had a large air bubble at the top.

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 130

Cast # down: 46

Cast # up: 46

Time

LOC

UTC

Begin: 0312

Bottom: 0317

End: 0326

START POSITION (GPS)

LAT: 50 36 .04

LONG: 126 43 .42

BOTTOM POSITION (GPS)

LAT: 50 36 .00

LONG: 126 43 .41

END POSITION (GPS)

LAT: 50 35 .93

LONG: 126 43 .32

ROSETTE LOG

MISSION ID: 2002-28 STATION: 381 CAST NUMBER: 47 UTC DATE (dd/mm/yyyy): 01/09/2002

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	571	1206	3.479	Bot-5	✓ 460										.624	8		low end point in titration
2	572	1209	3.511	400	✓													
3	573	1210	3.557	300	✓													
4	574	1212	3.575	250	✓													
5	575	1215	3.584	200	✓													
6	576	1216	3.595	175	✓													
7	577	1223	3.683	150	✓													
8	578	1222	3.777	125	✓													
9	579	1224	3.970	100	✓													
10	580	1225	4.097	75	✓													
11	581	1228	4.292	50	✓										.770	6		odd end point in titration
12	582	1231	4.253	30	✓													
13	583	1233	4.285	20	✓													
14	584	1235	4.683	10	✓													
15	585	1237	4.816	5	✓													
16	586	1238	4.961	0	✓													
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 464

Cast # down: 47
Cast # up: 47

Time	LOC	UTC
Begin:		0412
Bottom:		0422
End:		0442

START POSITION (GPS)
LAT: 50 32.99
LONG: 126 46.04

BOTTOM POSITION (GPS)
LAT: 50 33.01
LONG: 126 46.04

END POSITION (GPS)
LAT: 50 32.97
LONG: 126 46.23

ROSETTE LOG

MISSION ID: 2002-28 STATION: BU4 CAST NUMBER: 48 UTC DATE (dd/mm/yyyy): 01/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL	PHY				
1	587	84	2.660	Bot-5	✓	630									47.9	8	high end point transmission	
2	588	364	2.601	600	✓												✓ curious end point	
3	589	534	2.857	500	✓													
4	590	535	2.840	400	✓													
5	591	572	2.942	300	✓													
6	592	588	3.047	250	✓													
7	593	657	2.900	200	✓													
8	594	695	2.896	175	✓													
9	595	697	2.751	150	✓													
10	596	707	2.643	125	✓													
11	597	708	2.627	100	✓												check end point ✓	
12	598	709	3.162	75	✓													
13	599	715	3.334	50	✓			xx										
14	600	712	3.444	30	✓													
15	601	727	3.716	20	✓													
16	602	1130	4.032	10	✓							xy						
17	603	1105	6.711	5	✓							xx	x					
18	604	1110	7.594	0	✓			↓	↓									
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 640

Cast # down: 48
Cast # up: 48

Time	LOC	UTC
Begin:		1458
Bottom:		1511
End:		1541

START POSITION (GPS)
LAT: 50 35.31
LONG: 124 54.16

BOTTOM POSITION (GPS)
LAT: 50 35.38
LONG: 124 54.14

END POSITION (GPS)
LAT: 50 35.44
LONG: 124 54.18

ROSETTE LOG

MISSION ID: 2002-28 STATION: Je 1 CAST NUMBER: 49 UTC DATE (dd/mm/yyyy): 01/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13				
							OXY			ALK		CHL	Phy			
1	605	1189	2.910	bot-5	✓ 270											
2	606	1192	2.815	250	✓											
3	607	1193	2.846	200	✓											
4	608	1195	3.101	175	✓											
5	609	1203	3.003	150	✓											
6	610	1206	3.249	125	✓											
7	611	1148	3.091	100	✓											
8	612	1153	3.166	75	✓											
9	613	1158	3.398	50	✓											
10	614	1175	3.523	30	✓											
11	615	1176	3.573	20	✓											
12	616	1188	3.985	10	✓							✓	✓			
13	617	1209	4.151	5	✓							✓	✓			
14	618	1210	5.377	0	✓		x	x								
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Comments:

SHIP:
ENTERED BY: W Crawford
CHECKED BY:

Bottom Depth: 279

Cast # down: 49
Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		22:49
End:		

START POSITION (GPS)

LAT: 49 22.2
LONG: 124 14.42

BOTTOM POSITION (GPS)

LAT:
LONG:

END POSITION (GPS)

LAT:
LONG:

ROSETTE LOG

MISSION ID: 2002-28 STATION: Je2 CAST NUMBER: 50 UTC DATE (dd/mm/yyyy): 02/09/2002

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	619	84	2.140	bot-5	✓ 594	✓												
2	620	364	2.245	500	✓	✓												
3	621	534	2.690	400	✓	✓												
4	622	535	2.741	300	✓													
5	623	572	2.722	250	✓													
6	624	588	2.652	200	✓													
7	625	657	2.642	175	✓													
8	626	695	2.771	150	✓													
9	627	697	2.797	125	✓													
10	628	707	2.868	100	✓													
11	629	708	3.229	75	✓													
12	630	709	3.394	50	✓													
13	631	715	3.594	30	✓													
14	632	712	3.712	20	✓													odd end point in filtration
15	633	727	4.070	10	✓													
16	634	1130	4.910	5	✓													
17	635	1105	6.434	0	✓		x											
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: station appended to previous (cast 49)
DJS - creative file 2002-28-50.dox for this station

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 600

Cast # down: 50

Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		00:04
End:		00:25

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 49 46.30

LONG: 124 09.24

END POSITION (GPS)

LAT: 46.26

LONG: 09.13

ROSETTE LOG

MISSION ID: 2002-28 STATION: Je3 CAST NUMBER: 51 UTC DATE (dd/mm/yyyy): 02/09/2002

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	636	1248	2.101	bot-5	✓ 671												
2	637	1254	2.181	600	✓												
3	638	1256	2.204	500	✓												
4	639	1258	2.632*	400	✓								4.477			*small bubble	
5	640	1260	2.626	300	✓												
6	641	1261	2.574*	250	✓								4.454	13		*ambiguous endpoint	
7	642	1264	2.516	200	✓												
8	643	1267	2.480	175	✓												
9	644	1268	2.381	150	✓												
10	645	1270	2.272	125	✓												
11	646	1271	2.502	100	✓												
12	647	1272	2.987	75	✓												
13	648	1273	3.395	50	✓												
14	649	1274	3.686*	30	✓								6.615			check endpoint	
15	650	1276	3.732	20	✓												
16	651	1277	4.357	10	✓												
17	652	1278	5.298*	5	✓												small flake
18	653	1279	6.456	0	✓		X										
19																	
20																	
21																	
22																	
23																	
24																	

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 683

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		01:12
End:		

START POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 49 48 63
LONG: 124 02.47

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 2002-28 STATION: Je4 CAST NUMBER: 52 UTC DATE (dd/mm/yyyy): 02/09/2002

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	654	1189	2.151	bot-?	✓ 660	✓												
2	655	1192	2.139	600	✓	✓												
3	656	1193	2.160	500	✓	✓												
4	657	1195	2.227	400	✓													
5	658	1203	2.522	300	✓													
6	659	1206	2.483	250	✓													
7	660	1194	2.392	200	✓													
8	661	1153	2.431	175	✓													
9	662	1158	2.358	150	✓													
10	663	1175	2.323	125	✓													
11	664	1176	2.751	100	✓								.494				air bubble in sample	
12	665	1188	2.797	75	✓													
13	666	1209	3.285	50	✓													
14	667	1210	3.568	30	✓													
15	668	1212	3.664	20	✓													
16	669	1215	4.175	10	✓													
17	670	1216	5.159	5	✓													
18	671	1222	6.314	0	✓													
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 669

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		
Bottom:		02:30
End:		

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 49 49.51

LONG: 123 54.16

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2002-28 STATION: JES CAST NUMBER: 53 UTC DATE (dd/mm/yyyy): 02/09/2002

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	672	84	2.089	bot-?	✓ 651													
2	673	364	2.143	500	✓													
3	674	534	2.145	400	✓													
4	675	535	2.283	300	✓													
5	676	572	2.276	250	✓													
6	677	588	2.246	200	✓													
7	678	657	2.312	175	✓													
8	679	695	2.293	150	✓													
9	680	697	1.878	125	✓													
10	681	707	2.141	100	✓													
11	682	708	2.724	75	✓													
12	683	709	3.203	50	✓													
13	684	712	3.584	30	✓													
14	685	715	3.629	20	✓													
15	686	727	4.288	10	✓													
16	687	1130	6.177	5	✓													
17	688	1105	6.686	0			X											
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 661

Cast # down: 53
Cast # up: 53

Time	LOC	UTC
Begin:		03:31
Bottom:		03:44
End:		04:06

START POSITION (GPS)
LAT: 49 54.27
LONG: 123 55.47

BOTTOM POSITION (GPS)
LAT: 49 54.33
LONG: 123 55.63

END POSITION (GPS)
LAT: 49 54.41
LONG: 123 55.84

ROSETTE LOG

MISSION ID: 2002-28 STATION: JE6 CAST NUMBER: 54 UTC DATE (dd/mm/yyyy): 02/09/2002

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	689	1248	2.123	Bot-5	✓	540	X											
2	690	1254	2.075	500	✓		X											
3	691	1256	2.098	400	✓		X											
4	692	1258	2.208	300	✓													
5	693	1260	2.085	250	✓													
6	694	1261	2.123	200	✓													✓ added end point in titration
7	695	1264	2.135	175	✓													
8	696	1267	2.015	150	✓													
9	697	1268	1.689	125	✓													
10	698	1270	1.479	100	✓													
11	699	1271	2.042	75	✓													
12	700	1272	3.232	50	✓													
13	701	1273	3.495	30	✓													
14	702	1274	3.608	20	✓													
15	703	1276	3.873	10	✓													
16	704	1277	6.174	5	✓													
17	705	1278	6.970	0	✓													
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 552

Cast # down: 54

Cast # up: 54

Time	LOC	UTC
Begin:		05:32
Bottom:		05:43
End:		06:04

START POSITION (GPS)

LAT: 49 59.06

LONG: 123 59.29

BOTTOM POSITION (GPS)

LAT: 49 59.17

LONG: 123 59.27

END POSITION (GPS)

LAT: 49 59.15

LONG: 123 59.96

ROSETTE LOG

MISSION ID: 2002-28 STATION: JE7 CAST NUMBER: 55 UTC DATE (dd/mm/yyyy): 02/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	PHY					
1	706	1189	1.902	Bot-5	✓													
2	707	1192	2.100	500	✓													
3	708	1193	2.049	400	✓													
4	709	1195	1.903	300	✓													
5	710	1203	1.945	250	✓													
6	711	1206	1.751	200	✓													
7	712	1148	1.731	175	✓													
8	713	1153	1.653	150	✓													
9	714	1158	1.214	125	✓													
10	715	1175	1.016	100	✓													
11	716	1176	2.684	75	✓													
12	717	1188	3.014	50	✓													
13	718	1209	3.478	30	✓			X	X									
14	719	1210	3.563	20	✓													
15	720	1212	4.370	10	✓							XX						
16	721	1215	7.128	5	✓							XX	X					
17	722	1216	6.633	0	✓			↓	↓									
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 558

Cast # down: 55
Cast # up: 55

Time	LOC	UTC
Begin:		0647
Bottom:		0700
End:		0724

START POSITION (GPS)
LAT: 50 02.51
LONG: 123 51.21

BOTTOM POSITION (GPS)
LAT: 50 02.55
LONG: 123 51.12

END POSITION (GPS)
LAT: 50 02.59
LONG: 123 50.87

Comments:

ROSETTE LOG

MISSION ID: 2002-28 STATION: JE8 CAST NUMBER: 56 UTC DATE (dd/mm/yyyy): 02/09/2002

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	723	1222	2.096	80+5	✓	465	X											
2	724	1223	2.049	400	✓		✓											
3	725	1224	1.814	300	✓		✓											
4	726	1225	1.680	250	✓													
5	727	1228	1.570	200	✓													
6	728	1231	1.551	175	✓													
7	729	1233	1.442	150	✓													
8	730	1235	1.039	125	✓													
9	731	1237	0.952	100	✓													
10	732	1238	2.016	75	✓													
11	733	1241	2.903	50	✓													
12	734	1247	3.315	30	✓													
13	735	1249	3.499	20	✓													
14	736	84	4.217	10	✓													
15	737	364	7.259	5	✓													
16	738	534	6.594	0														
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Sample numbers are incorrect should be as listed above not 706 → 721

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 477

Cast # down: 56

Cast # up: 56

Time	LOC	UTC
Begin:		0759
Bottom:		0811
End:		0834

START POSITION (GPS)

LAT: 50 05.28

LONG: 123 46.71

BOTTOM POSITION (GPS)

LAT: 50 05.29

LONG: 123 46.68

END POSITION (GPS)

LAT: 50 05.29

LONG: 123 46.66

ROSETTE LOG

MISSION ID: 2002-28 STATION: J59 CAST NUMBER: 57 UTC DATE (dd/mm/yyyy): 02/09/2002

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	739	535	1.429	361.5	✓ 360?	x												
2	740	572	1.1675	300	✓	x												
3	741	588	1.719	250	✓													
4	742	657	1.341	200	✓													
5	743	695	1.110	175	✓													
6	744	697	1.062	150	✓													
7	745	707	0.817	125	✓													
8	746	708	0.867	100	✓													
9	747	709	2.168	75	✓													
10	748	712	2.955	50	✓									517			check and point!	
11	749	715	3.375	30	✓													
12	750	727	3.539	20	✓													
13	751	1105	4.357	10	✓													
14	752	1110	7.682	5	✓													
15	753	1130	6.628	0														
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 363

Cast # down: 57

Cast # up: 57

Time	LOC	UTC
Begin:		0905
Bottom:		0915
End:		0938

START POSITION (GPS)

LAT: 50 08.61

LONG: 123 50.53

BOTTOM POSITION (GPS)

LAT: 50 08.61

LONG: 123 50.59

END POSITION (GPS)

LAT: 50 08.63

LONG: 123 50.64

Comments:

ROSETTE LOG

MISSION ID: 2002-28 STATION: JE10 CAST NUMBER: 58 UTC DATE (dd/mm/yyyy): 02/09/2002

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL	PH					
1	754	1126	1.457	Bot-5	270	X												
2	755	1128	0.929	200														
3	756	1134	0.967	175														
4	757	1135	0.926	150														
5	758	1136	0.529	125														
6	759	1137	0.859	100														
7	760	1138	2.231	75														
8	761	1141	2.888	50														
9	762	1142	3.293	30														
10	763	1146	3.405	20				X	X									
11	764	1279	4.881	10								XX						
12	765	1280	7.658	5								X	✓					
13	766	1281	6.673	0			↓	↓										
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 276

Cast # down: 58
Cast # up: 58

Time	LOC	UTC
Begin:		10:14
Bottom:		10:21
End:		10:37

START POSITION (GPS)
LAT: 50 11.38
LONG: 123 57.10

BOTTOM POSITION (GPS)
LAT: 50 11.39
LONG: 123 57.10

END POSITION (GPS)
LAT: 50 11.43
LONG: 123 57.11