

ROSETTE LOG

MISSION ID: 2009-53 STATION: D1-6 CAST NUMBER: 001 UTC DATE (dd/mm/yyyy): 18/07/2009

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	CI3	CHL				
1	1	631	0.71607	B-5	64		✓									2 mab 102
2	2	1106	3.53919	50	50		✓									16 mab 3:48
3	3	1123	5.09421	30	30		✓									3:57
4	4	1146	5.13797	20	20		✓									3:52
5	5	1175	5.79953	10			✓									4:01
6	6	1209	6.96600	0												4:06
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Confirmed Pressure Column was actually used to record WIRE OUT for casts 1-10

SHIP: Vector
ENTERED BY: DS
CHECKED BY:

Bottom Depth: 67

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		2013
Bottom:		
End:		

START POSITION (GPS)
LAT: 5125.249
LONG: 127° 18.613

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments: Depth is not pressure but wire-out from which

ROSETTE LOG

MISSION ID: 2009-53 STATION: DI-7 CAST NUMBER: 002 UTC DATE (dd/mm/yyyy): 18/07/2009

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	57	1247	2.31890	30	30	✓												2.5 mab 4:11
2	8	1322	4.2299	24	24	✓												8.5 mab 4:16
3	9	1373	5.03179	18	18													14.8 4:20
4	10	1384	5.42252	12	12													21.0 4:23
5	11	1397	6.51181	6	268													29 mab 4:28
6	12	1400	7.36324	0	0													4:33
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 35

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		2044
Bottom:		
End:		

START POSITION (GPS)
LAT: 51 24.187
LONG: 127° 18.109

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 2009-53 STATION: D1-5 CAST NUMBER: 003 UTC DATE (dd/mm/yyyy): 18/07/2009

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	13	1406	4.55323	B-5	120	X												1.4 mab 4.37
2	14	1409	4.55114	110	110	X												11.8 4.40
3	15	1411	4.53825	100	100													4.45
4	16	1414	4.58731	90	90													4.53
5	17	2020	4.82356	80	80													4.57
6	18	1326	4.89336	70	70													
7	19	1320	4.86993	60	60													
8	20	1380	4.95296	50	50													5.05
9	21	1144	4.90600	40	40													5.08
10	22	1319	4.99109	30	30													5.12
11	23	1404	5.05299	15	15													5.16
12	24	1386	6.70926	0	0													
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Depth is Wireout not Pressure

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 126

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		2126
Bottom:		
End:		

START POSITION (GPS)	
LAT:	51°25.990
LONG:	127°19.108

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	
LONG:	

ROSETTE LOG

MISSION ID: 2009-53

STATION: RA-3

CAST NUMBER: 004

UTC DATE (dd/mm/yyyy):

18/07/2009

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
1	25	76	4.72971	60	61.5	x												1.9 mab
2	26	371	4.78389	50	50	x												12.9 mab
3	27	557	4.88051	40	40													23.8 mab
4	28	559	4.92038	30	30													34 mab
5	29	632		20														44
6	30	3206	5.21013	10														data saved/weird values
7	31	1085	7.25456	0														7:24
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 65

Cast # down:

Cast # up:

Time LOC UTC

Begin: 23.47

Bottom:

End:

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 51 24.257

LONG: 127 31:277

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2009-53 STATION: RA-2 CAST NUMBER: 005 UTC DATE (dd/mm/yyyy): 19/07/2001

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13				
1	32	1158	3.65744	125	119	X										1-2 mob
2	33	1312	3.78223	110	110	X										11-2 mob
3	34	1365	3.99709	100	100											21-8
4	35	2014	4.12627	90	90											
5	36	3051	4.34342	80	80											
6	37	2075	4.67743	70	70											
7	38	2092	4.80325	60	60											
8	39	3063		50	50											No water sample
9	40	3063	4.79281	40	40											
10	41	3084	4.87768	30	30											
11	42	3094	4.85711	20	20											
12	43	3097	5.07297	10	10											
13	44	3118	7.04290	0												830
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

SHIP: Vector
 ENTERED BY:
 CHECKED BY:

Bottom Depth: 127

Cast # down:
 Cast # up:

Time	LOC	UTC
Begin:		00:55
Bottom:		
End:		

START POSITION (GPS)
 LAT:
 LONG:

BOTTOM POSITION (GPS)
 LAT: 51 24.505
 LONG: 127 29.071

END POSITION (GPS)
 LAT:
 LONG:

Comments:

ROSETTE LOG

MISSION ID: 2009-53 STATION: RA-1 CAST NUMBER: 006 UTC DATE (dd/mm/yyyy): 19/07/2009

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	45	1298	4.36187	115	119	X												
2	46	1368	4.29826	100	100	X												
3	47	1393	4.44213	85	85													
4	48	1402	4.59665	70	70													
5	49	2019	4.67731	60	60													
6	50	1401	4.56162	50	50													
7	51	1392	4.59401	40	40													
8	52	1377	4.73043	30	30													
9	53	1313	4.86359	20	20													
10	54	1360	4.93986	10	10													
11	55	1314	6.30371	0	0													
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Vector
 ENTERED BY:
 CHECKED BY:

Bottom Depth: 123

Cast # down:
 Cast # up:

Time	LOC	UTC
Begin:		<u>0137</u>
Bottom:		
End:		

START POSITION (GPS)
 LAT: 51°26.254
 LONG: 127°77.499

BOTTOM POSITION (GPS)
 LAT:
 LONG:

END POSITION (GPS)
 LAT:
 LONG:

Comments:

ROSETTE LOG

MISSION ID: 2009-53 STATION: DI-4 CAST NUMBER: 007 UTC DATE (dd/mm/yyyy): 19/07/2009

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	56	3160	4.46761	148	144	x												2 mab
2	57	1491	4.47081	130	130	x												
3	58	1395	4.40915	120	120													
4	59	690	4.38473	110	110													
5	60	1488	4.47155	100	100													
6	61	1318	4.48934	90	90													61 mab
7	62	1180		80	80													human error
8	63	1213	4.27084	70	70													added 0.074 ml equiv. to titration
9	64	1408	4.76946	60	60													titration stopped and started again
10	65	1389	4.64080	50	50													
11	66	1307	4.67528	40	40													
12	67	1486	4.60566	30	30													
13	68	1248	4.86244	20	20													
14	69	631	5.18955	10	10													
15	70	1106	6.607088	0	0													
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 144

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0216

Bottom:

End:

START POSITION (GPS)

LAT: 51°26.452

LONG: 127°25.961

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2009-53 STATION: DI-3 CAST NUMBER: 008 UTC DATE (dd/mm/yyyy): 19/07/2009

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						Lab
1	71	76	4.52694	77	75	X												1.9
2	72	371	4.47806	70	70	X												6.9
3	73	557	2.10188	60	60													16.6
4	74	559	4.56466	50	50													26.7
5	75	632	4.66857	40	40													36.8
6	76	3206	4.67732	30	30													47
7	77	1085	4.71340	20	20													56.7
8	78	1158	4.74453	10	10													67
9	79	1312	5.65763	0	0													
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 78

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		1653
Bottom:		
End:		

START POSITION (GPS)

LAT: 51 27.101

LONG: 127 31.568

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2009-53 STATION: DI-2 CAST NUMBER: 009 UTC DATE (dd/mm/yyyy): 19/07/2009

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	80	1365	4.55726	50	46	X												4.7 mab
2	81	2014	4.59455	40	40	X												
3	82	3051	4.59398	30	30													18.4
4	83	2075	4.58110	20	20													29.2
5	84	2092	4.62268	10	10													39
6	85	3024	4.99191	0	0													48.8
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 50

Cast # down:

Cast # up:

Time LOC UTC

Begin: 1720

Bottom:

End:

START POSITION (GPS)

LAT: 51° 27.718

LONG: 12° 32.260

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2009-53 STATION: DI-1 CAST NUMBER: 10 UTC DATE (dd/mm/yyyy): 19/07/2009

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	86	3063	4.54374	60	67.3	X												2 mab
2	87	3084	4.51715	50	50	X												
3	88	3094	4.56703	40	40													
4	89	3097	5.55947	30	30													
5	90	3118	4.52372	20	20													
6	91	3135	4.62989	10	10													
7	92	3157	4.89017	0	0													
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 69

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		1802
Bottom:		
End:		

START POSITION (GPS)
LAT: 51 28.378
LONG: 127 32.598

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 2008-53 STATION: DI-0 CAST NUMBER: 19 UTC DATE (dd/mm/yyyy): 19/07/2009

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	93	631	2.54255	330	318	X												6 web
2	94	1106	2.55675	315	315													
3	95	1123	2.61876	300	300													
4	96	1146	2.57324	285	285													
5	97	1175	2.58148	270	270													
6	98	1209	2.60321	255	255													
7	99	1247	2.59520	240	240													First time, did not reach the bottom! De 100 Jan back to 99
8	100	1322	2.61137	225	225	X												
9	101	1375	2.67355	210	210													
10	102	1387	2.78807	195	195													
11	103	1397	2.82786	180	180													
12	104	1400	2.84181	165	165													
13	105	1406	2.89734	150	150													
14	106	1409	2.83462	135	135													
15	107	1411	2.84343	120	120													
16	108	1414	2.6	105	105													Chose 1 point too early!
17	109	2020	2.62010	90	90													
18	110	1326	3.02475	75	75													
19	111	1320	3.60503	60	60													
20	112	1380	3.78711	45	45													
21	113	1144	3.97919	30	30													
22	114	1319	4.17402	20	20													
23	115	1404	4.27150	10	10													
24	116	1386	7.00582	0	0													

SHIP: Vector
 ENTERED BY:
 CHECKED BY:

Bottom Depth: 325

Cast # down:
 Cast # up:

Time	LOC	UTC
Begin:		2013
Bottom:		
End:		

START POSITION (GPS)
 LAT: 51° 28.985
 LONG: 127° 34.981

BOTTOM POSITION (GPS)
 LAT:
 LONG:

END POSITION (GPS)
 LAT:
 LONG:

Comments: The Pressure sensor on SBE 9 #0585 magically fixed itself at ~256m on the way down.

ROSETTE LOG

MISSION ID: 2009-53 STATION: BE1 CAST NUMBER: 012 UTC DATE (dd/mm/yyyy): 20/07/2009

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13				
1	117	1293	4.12369	B-5	228	X										3.7 mab
2	118	1316	4.09239	200	203	X										
3	119	1393	3.89078	175	175											
4	120	1402	3.89673	150	150											
5	121	2019	3.61300	125	125											
6	122	1401	3.30696	100	100											
7	123	1392	2.58556	75	75											
8	124	1517	3.92504	50	50											
9	125	1313	4.25102	30	30											
10	126	150	4.43158	20	20											
11	127	1314	4.70166	10	10											
12	128	3160	5.55621	0												
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

Comments:

SHIP: Vector

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0248

Bottom:

End:

START POSITION (GPS)

LAT: 51° 7.700

LONG: 127° 34.280

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2009-53 STATION: BE2 CAST NUMBER: 013 UTC DATE (dd/mm/yyyy): 20/07/2009

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	129	1491	3.82080	175	1915	X												
2	130	1395	3.84911	175	175	X												
3	131	690	3.61274	150	150													
4	132	1498	3.58982	125	125													
5	133	1318	3.20981	100	100													
6	134	1180	2.50585	75	75													
7	135	1408	2.64426	50	50													
8	136	1213	3.45549	30	30													
9	137	1389	4.39432	20	20													
10	138	1307	4.51970	10	10													
11	139	1496	3.94069	0	2.3													
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Vector
ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		0337
Bottom:		
End:		

START POSITION (GPS)
LAT: 51° 7.883
LONG: 127° 30.551

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 2009-53 STATION: BE3 CAST NUMBER: 14 UTC DATE (dd/mm/yyyy): 20/07/2009

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	140	76	3.74485	B-3	277	X												
2	141	371	3.74291	250	260	X												
3	142	557	3.72605	225	225													
4	143	559	3.76851	200	200													
5	144	632	3.89743	175	175													
6	145	3206	4.37368	150	150													
7	146	1085	3.99079	125	125													
8	147	1158	3.17559	100	100													
9	148	1312	1.89522	75	75													
10	149	1365	1.90918	50	50													
11	150	2014	3.65249	30	30													
12	151	3051	4.19091	20	20													
13	152	2015	4.38210	10	10													
14	153	2092	5.89137	0	2-2													
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Vector
 ENTERED BY:
 CHECKED BY:

Bottom Depth: 280

Cast # down:
 Cast # up:

Time	LOC	UTC
Begin:		0439
Bottom:		
End:		

START POSITION (GPS)
 LAT: 51° 7.855
 LONG: 127 22.040

BOTTOM POSITION (GPS)
 LAT:
 LONG:

END POSITION (GPS)
 LAT:
 LONG:

ROSETTE LOG

MISSION ID: 2009-53 STATION: BE4 CAST NUMBER: 15 UTC DATE (dd/mm/yyyy): 20/07/2009

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	154	3024	3.84733	B-5	373	X												
2	155	3003		300	300	X												
3	156	3084	3.92962	250	250													sample lost
4	157	3097	4.00854	200	200													put wrong H2O depth in comp
5	158	3094	4.27141	175	175													
6	159	3118	6.05267	150	150													titrated w/ant magnet
7	160	3135	3.88773	125	125													
8	161	3157	3.14165	100	100													
9	162	3196	1.86147	75	75													
10	163	611	1.65012	50	50													
11	164	620	4.03391	30	30													
12	165	621	4.24023	20	20													
13	166	638	4.40740	10	10													
14	167	639	5.72428	0	7.2													
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 374

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:		0536
Bottom:		
End:		

START POSITION (GPS)

LAT: 51° 7.787LONG: 127 15.340

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2009-53 STATION: BE7 CAST NUMBER: 16

UTC DATE (dd/mm/yyyy): 20/07/2009

→ data in
cast 15
20/07/2009

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	168	657	4.05331	B-5	237	*	*											4mab
2	169	712	4.15497	200	200	*												
3	170	715	4.20158	175	175													
4	171	1105	4.17506	150	150													
5	172	1301	3.59957	125	125													
6	173	1321	2.93602	100	100													
7	174	1333	2.00640	75	75													
8	175	1374	0.27023	50	50													
9	176	1174	0.61194	30	30													-amoxic? added 0.10ml 1st
10	177	1368	1.46828	20	20													
11	178	1465	2.63139	10	10													
12	179	1487		0	0			*										*NO magnet, sample gone
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: _____
 ENTERED BY: _____
 CHECKED BY: _____

Bottom Depth: 229

Cast # down: _____
 Cast # up: _____

Time	LOC	UTC
Begin:		1400
Bottom:		
End:		

START POSITION (GPS)
 LAT: 51°6.334
 LONG: 126 55.820

BOTTOM POSITION (GPS)
 LAT: _____
 LONG: _____

END POSITION (GPS)
 LAT: _____
 LONG: _____

Comments: _____

ROSETTE LOG

MISSION ID: 2009-53

STATION: BE6

CAST NUMBER: 17

UTC DATE (dd/mm/yyyy): 20/07/2009

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	1088	4.05224	B-5	327	X										
2	181	2065	4.04081	300	300	X										
3	182	2061	4.10540	250	250											
4	183	2068	4.19395	200	200											
5	184	3184	4.26689	175	175											
6	185	471	4.26541	150	150											
7	186	3194	3.66516	125	125											
8	187	3133	3.03256	100	100											
9	188	2027	2.07545	75	75											
10	189	2000	1.90078	50	50											
11	190	2090	2.01178	30	30											
12	191	1490	3.56204	20	20											
13	192	2082	3.49865	10	10											
14	193	3177	5.81194	0	2											
15																
16																
17																
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24																

Comments:

SHIP:

ENTERED BY:

CHECKED BY:

Bottom Depth: 329

Cast # down:

Cast # up:

Time LOC UTC

Begin: 1456

Bottom:

End:

START POSITION (GPS)

LAT: 51°6.545

LONG: 127°2.209

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

ROSETTE LOG

MISSION ID: 2009-53 : STATION: ALS1 CAST NUMBER: 21 UTC DATE (dd/mm/yyyy): 20/07/2009

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TGO		CI3				
						OXY				ALK		CHL				
1	194	631	2.56503	13.5	148	X										
2	195	1106	2.89771	125	125	X										
3	196	1123	3.09806	100	100											
4	197	1146	3.04886	75	75											
5	198	1175	2.82228	50	50											
6	199	1209	2.84373	30	30											
7	200	1322	3.40027	20	20											
8	201	1247	3.18500	10	10											
9	202	1373	6.50604	0	7.2											
10																
11																
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Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 150

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		1653
Bottom:		
End:		

START POSITION (GPS)
LAT: 51°10.112
LONG: 127°5845

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

ROSETTE LOG

MISSION ID: 2009-53 STATION: BES CAST NUMBER: 022 UTC DATE (dd/mm/yyyy): 20/07/2009

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	203	1397	3.95919	280	276	X												20 mab
2	204	1400	3.99947	250	250	X												
3	205	1406	4.15315	200	200													
4	206	1409	4.25933	175	175													
5	207	1411	4.28595	150	150													
6	208	1414	3.92241	125	125													
7	209	2020	2.88241	100	100													
8	210	1326	1.88220	75	75													
9	211	1320	0.98946	50	50													
10	212	1380	3.95608	30	30													
11	213	1144	4.33306	20	20													
12	214	1319	4.17978	10	10													
13	215	1404	6.14393	0	2													
14																		
15																		
16																		
17																		
18																		
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20																		
21																		
22																		
23																		
24																		

Comments:

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 280

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		1743
Bottom:		
End:		

START POSITION (GPS)
LAT: 51 7.193
LONG: 127 8.795

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG: