

ROSETTE LOG

MISSION ID: 2003-01

STATION: S103

CAST NUMBER: 1

UTC DATE (dd/mm/yyyy):

05/02/03

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	1	1198	0.141	Bot	/	212	✓	✓	✓									- zeroed colorimeter
2	2	1195	0.062	250	-	212												
3	3	1203	0.052	200	✓													
4	4	1206	0.278	175	✓													
5	5	1209	0.352	150	✓													
6	6	1212	0.197	125	-													
7	7	1215	1.043	100	✓													- zeroed col
8	8	1216	4.065	75	✓													- blew out some bubbles from tubing (O2)
9	9	1222	4.009	75	✓													
10	10	1223	4.960	50	✓													
11	11	1224	4.801	25	✓													
12	12	1225	5.055	10	✓													
13	13	1228	6.068	0	✓													- zeroed col.
14																		
15																		O2 values OK (ST)
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: JOHN P TULLY

ENTERED BY: MK

CHECKED BY:

Bottom Depth: 224

Cast # down: 1

Cast # up: 1

Time LOC UTC

Begin: 0046

Bottom: 0052

End: 0105

START POSITION (GPS)

LAT: 48 35.63

LONG: 123 30.02

BOTTOM POSITION (GPS)

LAT: 48 35.62

LONG: 123 30.03

END POSITION (GPS)

LAT: 48 35.59

LONG: 123 30.07

Comments:

ROSETTE LOG

MISSION ID: 2003-01

STATION: Argo 5

CAST NUMBER: 3

UTC DATE (dd/mm/yyyy):

07/02/2003

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	14	364	1.952	2000	✓												-went over 100%
2	15	1176	0.904	1500	✓												-reversed col. again
3	16	535	0.569	1250	✓												-over 100% again
4	17	592	0.346	1000	✓												-and again-even
5	18	657	0.322	1000	✓												*after new MQ
6	19	695	0.960	800	✓	*invalid											Recalc = 0.354 cleaning + re-zeroing
7	20	707	0.514	600	✗	-dis											see below note
8	21	708	1.390	400	✓												(-looks like bottle #8
9	22	709	2.601	300	✓												may be leaking a bit)
10	23	715	2.464	250	✓												
11	24	727	2.631	200	✓	199											
12	25	1105	2.758	175	✓												
13	26	1110	3.250	150	✓												
14	27	1126	3.674	125	✓												
15	28	1128	4.206	100	✓	99											
16	29	1130	5.535	75	✓												
17	30	1134	6.147	50	✓												
18	31	1135	6.214	25	✓												
19	32	1136	6.280	10	✓		↓	↓	↓								
20	33	1137	6.218	0	✓		x	x	xx								
21																	
22																	
23																	
24																	

SHIP: JOHN P TULLY
 ENTERED BY: DA
 CHECKED BY: MR

Bottom Depth: 1720 fathoms

Cast # down: 3
 Cast # up: 3

Time	LOC	UTC
Begin:		1849
Bottom:		1922
End:		2006

START POSITION (GPS)
 LAT: 41°00.00
 LONG: 125°59.99

BOTTOM POSITION (GPS)
 LAT: 41°00.01
 LONG: 126°00.04

END POSITION (GPS)
 LAT: 41°00.02
 LONG: 126°00.00

Comments: * I took the probe apart + cleaned it. (Sample #17 went over 100%)
 #19 - ugly, ugly, ugly endst. The heaters were on in the lab - screaming hot + there is a radiator right below to the right of the O2 kit. I am going to put the samples back in the fridge with some MQ + then try to zero the colourimeter with cold MQ. (S.T.)
 #20 - after chilled → better curve. - see back →

ROSETTE LOG

MISSION ID: 2003-01

STATION: Argo 4

CAST NUMBER: 4

UTC DATE (dd/mm/yyyy):

08/02/03

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	34	1193	1.621	2000	✓	✓	✓													
2	35	1195	0.717	1500	✓	✓	✓													
3	36	1203	0.391	1250	✓	✓	✓													
4	37	1206	0.221	1000	✓	✓	✓													
5	38	1209	0.229	800	✓	✓	✓													
6	39	1212	0.624	600	✓	✓	✓													
7	40	1215	0.675	600	✓	✓	✓													
8	41	1216	1.710	400	✓	✓	✓			✓										
9	42	1222	2.931	300	✓	✓	✓			✓										
10	43	1223	3.650	250	✓	✓	✓			✓										
11	44	1224	4.667	200	✓	✓	✓			✓										
12	45	1225	5.173	175	✓	✓	✓			✓										
13	46	1228	5.598	150	✓	✓	✓			✓										
14	47	1231	6.080	125	✓	✓	✓			✓										
15	48	1235	6.069	100	✓	✓	✓			✓										
16	49	1233	6.280	75	✓	✓	✓			✓										
17	50	1237	6.260	50	✓	✓	✓			✓										
18	51	1238	6.264	25	✓	✓	✓			✓										
19	52	1241	6.248	10	✓	✓	✓			✓										
20	53	1244	6.259	0																
21																				
22																				
23																				
24																				

SHIP: Tully
 ENTERED BY: ST
 CHECKED BY:

Bottom Depth: 2015

Cast # down: 4

Cast # up: 4

Time	LOC	UTC
Begin:		<u>1053</u>
Bottom:		<u>1129</u>
End:		<u>1228</u>

START POSITION (GPS)
 LAT: 41.29.97
 LONG: 129.00.02

BOTTOM POSITION (GPS)
 LAT: 41.30.08
 LONG: 129.00.66

END POSITION (GPS)
 LAT: 41.29.32
 LONG: 129.02.07

Comments:

ROSETTE LOG

Recal.

MISSION ID: 2003-01

STATION: Argo 3

CAST NUMBER: 7

UTC DATE (dd/mm/yyyy):

09/02/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										Comments					
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13									
						OXY				ALK		CHL									
1	54	1273	1.627	2000	✓		✓	✓													First 8 samples have lots of chunks! Not shaken very well! - had to add 1-2ml extra H ₂ SO ₄ .
2	55	1274	0.745	1500	✓		✓	✓													
3	56	1276	0.354	1250	✓		✓	✓													
4	57	1277	0.191	1000	✓		✓	✓													
5	58	1278	0.266	800	✓		✓	✓													
6	59	1279	0.687	600	✓		✓	✓													
7	60	1280	2.173	400	✓		✓	✓													
8	61	1281	3.831	300	✓	recal	✓	✓													
9	62	1284	+2.638*	300	✓	3.746*				.199			.475		.674					* 0.199ml - aborted b/c >100%. I didn't zero the colorimeter properly. - Second time → 0.485ml	
10	63	1287	3.879	250	✓		✓	✓													
11	64	1288	4.260	200	✓		✓	✓													
12	65	1290	5.420	175	✓		✓	✓													
13	66	1291	5.579	150	✓		✓	✓													
14	67	1292	5.829	125	✓		✓	✓													
15	68	1293	5.944	100	✓		✓	✓													
16	69	1294	6.140	75	✓		✓	✓													
17	70	1295	6.264	50	✓		✓	✓													
18	71	1297	6.228	25	✓		✓	✓													
19	72	1298	6.359	10	✓		✓	✓													
20	73	1299	6.320	0	✓		✓	✓													
21																					
22																					
23																					
24																					

SHIP: JOHN P TULLY
 ENTERED BY: MR
 CHECKED BY: MR

Bottom Depth: 3821

Cast # down: 7

Cast # up: 7

Time	LOC	UTC
Begin:		<u>0424</u>
Bottom:		<u>0452</u>
End:		<u>0540</u>

START POSITION (GPS)
 LAT: 41 59.98
 LONG: 132 00.02

BOTTOM POSITION (GPS)
 LAT: 42 00.01
 LONG: 131 59.93

END POSITION (GPS)
 LAT: 41 59.95
 LONG: 131 59.93

Comments:

ROSETTE LOG

MISSION ID: 2003-01

STATION: Argo 1

CAST NUMBER: 11

UTC DATE (dd/mm/yyyy):

10/02/2003

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	94	3164	1.644	2000	/		✓	✓									
2	95	1176	0.571	1500	/		✓	✓									
3	96	535	0.263	1250	/		✓	✓									
4	97	572	0.190	1000	/		✓	✓									* added 1-2 ml ultra acids ✓ (for O2 titrations)
5	98	657	0.361	800	/		✓	✓									
6	99	695	0.977	600	/		✓	✓									* ✓ - all had
7	100	707	2.387	400	/		✓	✓									* ✓ chunks bone
8	101	708	3.449	300	/		✓	✓									* ✓ degrees or
9	102	709	4.065	250	/		✓	✓									* ✓ another, but
10	103	715	4.723	200	/		✓	✓									* ✓ I was able to
11	104	727	5.208	175	/		✓	✓									* ✓ titrate them
12	105	1105	5.210	175	/		✓	✓									* ✓ all (5)
13	106	1110	5.574	150	/		✓	✓									* ✓
14	107	1126	5.985	125	/		✓	✓									* ✓
15	108	1128	6.245	100	/		✓	✓									* ✓
16	109	1130	6.445	75	/		✓	✓									* ✓
17	110	1134	6.503	50	/		✓	✓									* ✓
18	111	1135	6.512	25	/		✓	✓									* ✓
19	112	1136	6.625	10	/		✓	✓									* ✓
20	113	1137	6.515	0	/		✓	✓									* ✓
21																	
22																	
23																	
24																	

SHIP: Tully
 ENTERED BY: ST / D. A.
 CHECKED BY:

Bottom Depth: 4124

Cast # down: 11

Cast # up: 11

Time	LOC	UTC
Begin:		<u>1135</u>
Bottom:		<u>1209</u>
End:		<u>1304</u>

START POSITION (GPS)	
LAT:	<u>42 59.97</u>
LONG:	<u>138 00.04</u>

BOTTOM POSITION (GPS)	
LAT:	<u>42 59.88</u>
LONG:	<u>137 59.97</u>

END POSITION (GPS)	
LAT:	<u>43 00 00</u>
LONG:	<u>138 00 00</u>

Comments:

ROSETTE LOG

CALIBRATION CAST

MISSION ID: 2003-01

STATION: SOLO

CAST NUMBER: 12

UTC DATE (dd/mm/yyyy):

12/02/2003

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	114			1500	✓					✓										
2	115			1500	✓					✓										
3	116			1500	✓					✓										
4	117			1500	✓					✓										
5	118			1500	✓					✓										
6	119			1500	✓					✓										
7	120			1500	✓					✓										
8	121			1500	✓					✓										
9	122			1500	✓															
10	123			1500	✓															
11	124			1500	✓															
12	125			1500	✓															
13	126			1500	✓															
14	127			1500	✓															
15	128			1500	✓															
16	129			1500	✓															
17	130			1500	✓															
18	131			1500	✓															Did not close
19	132			1500	✓															
20	133			1500	✓															
21	134			1500	✓															
22	135			1500	✓															
23	136			1500	✓															
24	137			1500	✓															

SHIP: JOHN P TULLY

ENTERED BY: MR

CHECKED BY:

Bottom Depth: 4280

Cast # down: 12

Cast # up: 12

Time LOC UTC

Begin: 1804

Bottom: 1832

End: 1859

START POSITION (GPS)

LAT: 50°06.95

LONG: 145°29.81

BOTTOM POSITION (GPS)

LAT: 50°06.97

LONG: 145°29.02

END POSITION (GPS)

LAT: 50°07.02

LONG: 145°29.98

Comments:

ROSETTE LOG

DEEP CAST

MISSION ID: 2003-01

STATION: P26

CAST NUMBER: 16

UTC DATE (dd/mm/yyyy):

13/02/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT	NUT	TCO		Cl3		DISN		
						OXY	P	G	500 ^u	ALK	200 ^u	CHL				
1	138	364	*3.196	Bot-20	✓	✓	✓	✓	✓	✓	✓	✓				0.978 - aborted
2	139	1176	3.165	2000	✓	✓	✓	✓	✓	✓	✓	✓				0.436 "
3	140	535	2.922	3500	✓	✓	✓	✓	✓	✓	✓	✓				(2 Dosimeter errors)
4	141	572	2.525	3000	✓	✓	✓	✓	✓	✓	✓	✓				* value of 3.196 OK.
5	142	657	1.985	2500	✓	✓	✓	✓	✓	✓	✓	✓				S.T.
6	143	695	1.327	2000	✓	✓	✓	✓	✓	✓	✓	✓				
7	144	707	0.592	1500	✓	✓	✓	✓	✓	✓	✓	✓				
8	145	708	0.435	1250	✓	✓	✓	✓	✓	✓	✓	✓				
9	146	709	0.406	1000	✓	✓	✓	✓	✓	✓	✓	✓				
10	147	715	0.429	800	✓	✓	✓	✓	✓	✓	✓	✓				
11	148	727	0.590	600	✓	✓	✓	✓	✓	✓	✓	✓				
12	149	1105	0.852	400	✓	✓	✓	✓	✓	✓	✓	✓				
13	150	1110	1.161	300	✓	✓	✓	✓	✓	✓	✓	✓				
14	151	1126	1.508	250	✓	✓	✓	✓	✓	✓	✓	✓				
15	152	1128	2.104	200	✓	✓	✓	✓	✓	✓	✓	✓				
16	153	1130	2.441	175	✓	✓	✓	✓	✓	✓	✓	✓				
17	154	1134	3.468	150	✓	✓	✓	✓	✓	✓	✓	✓				
18	155	1135	4.854	125	✓	✓	✓	✓	✓	✓	✓	✓				
19	156	1136	6.657	100	✓	✓	✓	✓	✓	✓	✓	✓				
20	157	1137	7.058	75	✓	✓	✓	✓	✓	✓	✓	✓				
21	158	1138	7.038	50	✓	✓	✓	✓	✓	✓	✓	✓				
22	159	1142	7.072	25	✓	✓	✓	✓	✓	✓	✓	✓				
23	160	1146	7.075	10	✓	✓	✓	✓	✓	✓	✓	✓				
24	161	1148	7.104	0	✓	✓	✓	✓	✓	✓	✓	✓				

SHIP: JOHN P TULLY
 ENTERED BY: M.R.
 CHECKED BY:

Bottom Depth: 4222

Cast # down: 16

Cast # up: 16

Time	LOC	UTC
Begin:		0122
Bottom:		0233
End:		0359

START POSITION (GPS)
 LAT: 50° 00' 18"
 LONG: 144° 59' 53"

BOTTOM POSITION (GPS)
 LAT: 50° 00' 20"
 LONG: 144° 59' 80"

END POSITION (GPS)
 LAT: 50° 00' 15"
 LONG: 144° 59' 94"

Comments: * TCO₂ - one of the Niskin 3 might not be pickled
 * Did not take duplicate TCO₂ @ 2000 m
 * I had to abort the first O₂ sample twice before I realized the tube was out of the Sodium Chloride.

ROSETTE LOG

MISSION ID: 2003-01

STATION: P20

CAST NUMBER: 28

UTC DATE (dd/mm/yyyy):

14/02/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken											
				Sample Depth	Confirmed pressure	SAL		NUT	NUT	TCO		Cl3		P15M			
							OXY	F _{rock}	F _{water}		ALK		CHL				
1	168	364	3.504	600-20	-	4002	✓	/	/		✓						
2	169	1176	2.912	3500	/												
3	170	535	2.471	3000	/												
4	171	572	1.891	2500	/												
5	172	657	1.237	2000	/												
6	173	695	1.247	2000	/						✓						
7	174	707	0.490	1500	/								✓				
8	175	708	0.371	1250	/												
9	176	709	0.300	1000	/												
10	177	715	0.380	800	/									✓			
11	178	927	0.596	600	/									✓			
12	179	1105	1.049	400	/					✓				✓			
13	180	1110	1.855	300	/					✓				✓			
14	181	1126	2.503	250	/					✓							
15	182	1128	3.270	200	/					✓				✓			
16	183	1130	4.194	175	/					✓							
17	184	1135	6.087 ✓	150	✓					✓				✓			
18	185	1134	5.179 ✓	125	✓					✓							< 99% suspicious read.
19	186	1136	6.575 ✓	100	✓					✓				✓			(went over 100%) OL ✓
20	187	1137	6.774	75	/					✓							ASIS
21	188	1138	6.873	50	✓					✓							
22	189	1142	6.865	25	/					✓							
23	190	1148	6.821	10	✓					✓							
24	191	1192	6.852	0	✓					✓							

SHIP: JOHN P TULLY
 ENTERED BY: M.R
 CHECKED BY: S.T

Bottom Depth: 3890

Cast # down: 28

Cast # up: 28

Time	LOC	UTC
Begin:		<u>2303</u>
Bottom:		<u>0006</u>
End:		<u>0130</u>

START POSITION (GPS)
 LAT: 49°33.99
 LONG: 138°39.86

BOTTOM POSITION (GPS)
 LAT: 49 34.00
 LONG: 138 40.00

END POSITION (GPS)
 LAT: 49 34.00
 LONG: 138 40.00

Comments:

ROSETTE LOG

Recalc.

MISSION ID: 2003-01

STATION: P16

CAST NUMBER: 34

UTC DATE (dd/mm/yyyy): 16/2/2003

16/2/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken													
				Sample Depth	Confirmed pressure	SAL		NUT	WUT	TCO		C13		P150					
						OXY	Frnk	Frnk		ALK		CHL							
1	195	1273	3.134	607-20	✓	3677	✓	✓	✓		✓								
2	196	1274	2.722	3500	✓		✓	✓	✓		✓								
3	197	1276	2.373	3000	✓		✓	✓	✓		✓								
4	198	1277	1.877	2500	✓		✓	✓	✓		✓								
5	199	1279	1.342	2000	✓		✓	✓	✓		✓								
6	200	1278	1.313	2000	✓		✓	✓	✓		✓								
7	201	1280	0.575	1500	✓		✓	✓	✓		✓								
8	202	1281	0.304	1250	✓		✓	✓	✓		✓								
9	203	1284	0.282	1000	✓	OK as is	✓	✓	✓		✓			.061					weird endpoint (well the curve was weird anyway)
10	204	1287	0.330	800	✓		✓	✓	✓		✓								
11	205	1288	0.604	600	✓		✓	✓	✓		✓								
12	206	1290	1.406	400	✓		✓	✓	✓		✓								
13	207	1291	2.164	300	✓		✓	✓	✓		✓			.384					- same as above
14	208	1292	2.612	250	✓		✓	✓	✓		✓								
15	209	1293	3.522	200	✓		✓	✓	✓		✓								- same as above
16	210	1294	4.185	175	✓		✓	✓	✓		✓								
17	211	1295	4.705	150	✓		✓	✓	✓		✓								O2 values checked
18	212	1297	5.114	125	✓		✓	✓	✓		✓								+ are OK as is
19	213	1298	6.104	100	✓		✓	✓	✓		✓								(5')
20	214	1299	6.493	75	✓		✓	✓	✓		✓								
21	215	1300	6.720	50	✓		✓	✓	✓		✓								
22	216	1301	6.770	25	✓		✓	✓	✓		✓								
23	217	1302	6.759	10	✓		✓	✓	✓		✓								
24	218	1303	6.767	0	✓		✓	✓	✓		✓								

SHIP: JOHN P TULLY
 ENTERED BY: M R
 CHECKED BY:

Bottom Depth: 3621

Cast # down: 34

Cast # up: 34

Time	LOC	UTC
Begin:		0036
Bottom:		0139
End:		0251

START POSITION (GPS)		
LAT:	46	16.99
LONG:	134	39.96

BOTTOM POSITION (GPS)		
LAT:	49	17.01
LONG:	134	40.00

END POSITION (GPS)		
LAT:	49	17.01
LONG:	134	39.99

Comments:

ROSETTE LOG

MISSION ID: 2003-01 STATION: P12 CAST NUMBER: 40 UTC DATE (dd/mm/yyyy): 17/02/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken														
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	Cl3	CHL	15P							
1	222	364	2.568	600-20	✓	✓	✓	✓	✓											
2	223	1176	2.252	3000	✓															
3	224	535	1.865	2500	✓															
4	225	572	1.380	2000	✓															
5	226	657	0.827	1500	✓										✓					
6	227	695	0.334	1250	✓			✓	✓											
7	228	707	0.347	1250	✓															
8	229	708	0.250	1000	✓															
9	230	709	0.306	800	✓										✓					
10	231	715	0.695	600	✓										✓					
11	232	727	1.173	400	✓										✓					
12	233	1105	1.672	300	✓										✓					
13	234	1110	2.199	250	✓															
14	235	1126	2.471	200	✓										✓					
15	236	1128	3.327	175	✓															
16	237	1130	4.106	150	✓										✓					
17	238	1135	4.378	125	✓															
18	239	1134	4.829	100	✓										✓	✓				
19	240	1136	6.004	75	✓										✓					
20	241	1137	6.622	50	✓										✓					
21	242	1138	6.651	25	✓										✓					
22	243			10											✓					
23	244	1146	6.719	0											✓					
24																				

SHIP: JOHN P TULLY
 ENTERED BY: MA
 CHECKED BY:

Bottom Depth: 3229

Cast # down: 40
 Cast # up: 40

Time	LOC	UTC
Begin:		<u>0218</u>
Bottom:		<u>0315</u>
End:		<u>0423</u>

START POSITION (GPS)
 LAT: 48 58 17
 LONG: 130 39.99

BOTTOM POSITION (GPS)
 LAT: 48 58 20
 LONG: 130 40.01

END POSITION (GPS)
 LAT: 48 58 27
 LONG: 130 39.99

Comments: Great job on shaking the oxygens!

→ Did not close loop to in board

ROSETTE LOG

MISSION ID: 2003-01 STATION: P8 CAST NUMBER: 46 UTC DATE (dd/mm/yyyy): 17/02/2003

recd

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3		$\delta 15N$				
						OXY	$\delta 13C$	ALK	CHL									
1	248	364	0.857	1500	✓	✓	✓							✓				
2	249	1176	0.373	1250	✓													
3	250	535	0.251	1000	✓													
4	251	572	0.262	1000	✓													
5	252	657	0.189	800	✓									✓				
6	253	695	0.432	600	✓									✓				
7	254	707	1.475	400	✓									✓				<i>O2</i>
8	255	708	1.853	300	✓									✓				<i>re-zeroed colorimeter</i>
9	256	709	2.171	250	✓													
10	257	715	2.689	200	✓									✓				
11	258	727	3.292	175	✓													
12	259	1105	3.876	150	✓									✓				
13	260	1110	5.1364	125	✓													
14	261	1126	5.624	100	✓									✓	✓			
15	262	1128	6.449	75	✓													<i>299%</i>
16	263	1130	6.777	50	✓													
17	264	1135	6.780*	25	✓					1.074				7.228				<i>ugly end pt / aborted</i>
18	265	1134	6.722	10	✓													<i>127.64</i>
19	266	1136	6.744	0	✓													<i>010/3508</i>
20																		
21																		
22																		<i>O2 values are OK as in. (ST)</i>
23																		
24																		

SHIP: JOHN P TULLY
 ENTERED BY: MR / ST.
 CHECKED BY:

Bottom Depth: 2518

Cast # down: 46
 Cast # up:

Time	LOC	UTC
Begin:		2009
Bottom:		2035
End:		2112

START POSITION (GPS)
 LAT: 48° 49' 03"
 LONG: 128° 40' 04"

BOTTOM POSITION (GPS)
 LAT: 48° 49' 02"
 LONG: 128° 40' 02"

END POSITION (GPS)
 LAT: 48° 49' 07"
 LONG: 128° 40' 10"

Comments: $\delta 15N$ DID NOT GET COLLECTED

ROSETTE LOG

MISSION ID: 2003-01 STATION: P4 CAST NUMBER: 51 UTC DATE (dd/mm/yyyy): 18/02/2003

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken																						
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3		DIS														
1	270	1270	0.562	Bot-20	✓	1300	✓	✓	✓	✓						✓												
2	271	1195	0.500	1250	✓																							* see below
3	272	1203	0.278	1000	✓																							
4	273	1206	0.306	800	✓																							
5	274	1209	0.324	800	✓				✓	✓						✓												
6	275	1212	0.534	600	✓											✓												
7	276	1215	1.355	400	✓											✓												
8	277	1216	2.022	300	✓											✓												
9	278	1222	2.319	250	✓																							
10	279	1223	2.650	200	✓				✓							✓												
11	280	1224	3.363	175	✓																							
12	281	1225	3.683	150	✓											✓												
13	282	1228	4.773	125	✓																							
14	283	1231	6.354	100	✓											✓	✓											
15	284	1235	6.571	75	✓																							
16	285	1233	6.670	50	✓											✓												
17	286	1237	6.655	25	✓											✓												
18	287	1238	6.649	10	✓											✓												
19	288	1241	6.654	0	✓											✓												
20																												
21																												
22																												
23																												
24																												

SHIP: JOHN P TULLY
 ENTERED BY: M L ST
 CHECKED BY:

Bottom Depth: 1309

Cast # down: 51
 Cast # up:

Time	LOC	UTC
Begin:		<u>0942</u>
Bottom:		<u>1008</u>
End:		<u>1042</u>

START POSITION (GPS)
 LAT: 48°39'13
 LONG: 126°40'05

BOTTOM POSITION (GPS)
 LAT: 48°39'02
 LONG: 126°40'08

END POSITION (GPS)
 LAT: 48°39'01
 LONG: 126°40'03

Comments: The colourimeter has been acting up - bouncing all over, even in MQ. I took apart the probe end + cleaned it as well as the filter. (ST) (USED O2 KIT #1 for this entire cruise)
→ HEY! what do you know... it worked!! Reading look good.