

ROSETTE LOG

MISSION ID: 2004-05 STATION: SI03 CAST NUMBER: 1 UTC DATE (dd/mm/yyyy): 18/02/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL	CDM				
1	1	1334	< 0.05	Bot- 5	✓	222	✓	✓										anoxic (0.010ml)
2	2	1336	< 0.05	200	✓													anoxic (0.010ml)
3	3	1340	< 0.05	175	✓													anoxic (0.010)
4	4	1344	< 0.05	175	✓													" "
5	5	1350	0.052	150	✓													
6	6	1351	0.052	125	✓													
7	7	1352	1.021	100	✓								✓					
8	8	1353	4.276	75	✓								✓					
9	9	1130	4.263	50	✓								✓					
10	10	364	5.181	25	✓								✓					
11	11	535	5.405	10	✓								✓					
12	12	572	5.679	5	✓								✓	✓				
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

MISSION ID:

2004-05

STATION:

P2

CAST NUMBER:

3

UTC DATE (dd/mm/yyyy):

19/02/2004

[illegible]

SHIP: TULLY

ENTERED BY: S.T.

CHECKED BY: ST

Bottom Depth:

Cast # down:

Cast # up:

Time	LOC	UTC
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Begin: 0906

Bottom: 09/11

End: 0919

START POSITION (GPS)

LAT: 48' 36.07

LONG: 125.59.82

BOTTOM POSITION (GPS)

LAT: 48°36'13"

LONG: 125 59.76

END POSITION (GPS)

LAT: 48 36. 21

LONG: 125' 59.73

Comments:

ROSETTE LOG

MISSION ID: 2004-05 STATION: P4 CAST NUMBER: 7 UTC DATE (dd/mm/yyyy): 19/02/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CDOM				
						OXY		✓		ALK		CHL						
1	23	1366	0.468	Bot-10	✓ 1323	✓		✓		✓								
2	24	727	0.380	1250	✓					✓								
3	25	1349	0.227	1000	✓					a-b								
4	26	1216	0.242	1000	✓					✓								
5	27	1223	0.241	800	✓													
6	28	1224	0.447	600	✓													note to Sheila 2 ✓ check flask # in comp. oxy +36.16 = 1.6938 put in wrong flask #
7	29	1225	1.273	400	✓			✓										
8	30	1320	1.596	300	✓													
9	31	1321	2.029	250	✓													
10	32	1368	2.540	200	✓													
11	33	1360	3.007	175	✓													
12	34	1369	3.547	150	✓													
13	35	1371	4.367	125	✓													
14	36	1373	4.755	100	✓								✓	✓				
15	37	1374	6.600	75	✓								✓					
16	38	1376	6.613	50	✓								✓					
17	39	1365	6.676	25	✓								✓					
18	40	1379	6.643	10	✓								✓					
19	41	1380	6.658	5	✓					✓			✓	✓				
20																		
21																		
22																		
23																		
24																		

Comments:

ROSETTE LOG

MISSION ID: 2004-05 STATION: P8 CAST NUMBER: 13 UTC DATE (dd/mm/yyyy): 20/02/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		EDTA				
							OXY	✓		ALK		CHL						
1	45	1334	1.677	2000	✓	✓	✓											
2	46	1336	0.755	1500	✓													
3	47	1340	0.416	1250	✓	1248												
4	48	1344	0.427	1250	✓	1249												
5	49	1350	0.257	1000	✓													
6	50	1351	0.245	800	✓													
7	51	1352	0.394	600	✓													
8	52	1353	1.280	400	✓													
9	53	1130	2.234	300	✓													
10	54	364	2.175	250	✓													
11	55	535	3.360	200	✓													
12	56	572	3.882	175	✓													
13	57	657	3.641	150	✓													
14	58	708	3.837	125	✓													
15	59	1135	4.296	100	✓							✓	✓					
16	60	1176	6.545	75	✓													
17	61	1136	6.749	50	✓													
18	62	1137	6.715	25	✓													
19	63	1138	6.719	10	✓													
20	64	1142	6.725	5														
21																		
22																		
23																		
24																		

Comments:

SHIP: JOHN P TULLY
ENTERED BY: ML
CHECKED BY: ST

Bottom Depth: 2519

Cast # down: 13
Cast # up: 13

Time	LOC	UTC
Begin:		0755
Bottom:		0836
End:		0925

START POSITION (GPS)
LAT: 48'49.01
LONG: 128'40.04

BOTTOM POSITION (GPS)
LAT: 48'48.98
LONG: 128'40.00

END POSITION (GPS)
LAT: 48'48.98
LONG: 128'40.07

ROSETTE LOG

Orange Rack

MISSION ID: 2004-05 STATION: P12 CAST NUMBER: 18 UTC DATE (dd/mm/yyyy): 20/02/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO ₂		C13		EDOM				
						OXY		✓		ALK		CHL						
1	68	1366	2.484	Bot-10	✓	✓	✓			✓								
2	69	727	2.244	3000	✓					✓								
3	70	1349	1.931	2500	✓					✓								
4	71	1216	1.405	2000	✓					✓				✓				
5	72	1223	0.644	1500	✓					a-b				✓				NICE!
6	73	1224	0.643	1500	✓					✓								
7	74	1225	0.338	1250	✓													
8	75	1320	0.254	1000	✓													
9	76	1321	0.331	800	✓													
10	77	1368	0.654	600	✓									✓				
11	78	1360	1.511	400	✓													
12	79	1369	2.388	300	✓													
13	80	1371	3.142	250	✓													
14	81	1373	4.178	200	✓			✓										
15	82	1374	4.532	175	✓													
16	83	1376	4.883	150	✓													
17	84	1365	5.172	125	✓													
18	85	1379	6.728	100	✓									✓	✓			
19	86	1380	6.736	75	✓									✓	✓			
20	87	1381	6.750	50	✓									✓	✓			
21	88	1382	6.777	25	✓									✓	✓			
22	89	1383	6.776	10	✓									✓	✓			
23	90	1384	6.789	5	✓									✓	✓			
24																		

SHIP: JOHN P TULLY
ENTERED BY: MA
CHECKED BY: DA 1ST

Bottom Depth: 3229.

Cast # down: 18
Cast # up: 18

Time	LOC	UTC
Begin:		2332
Bottom:		0021
End:		0125

START POSITION (GPS)
LAT: 48 58 24
LONG: 130 40 11

BOTTOM POSITION (GPS)
LAT: 48 58 24
LONG: 130 40 11

END POSITION (GPS)
LAT: 48 57 98
LONG: 130 40 18

ROSETTE LOG

MISSION ID: 2004-05 STATION: P16 CAST NUMBER: 25 UTC DATE (dd/mm/yyyy): 22/02/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	C13	CHL	CDOM					
1	95	1366	3.102	Bot - 10	✓	✓	✓		✓									
2	96	727	2.758	3500	✓	✓	✓		✓									
3	97	1349	2.419	3000	✓	✓	✓		✓									
4	98	1216	1.964	2500	✓	✓	✓		✓									
5	99	1223	1.347	2000	✓				a-b									
6	100	1224	1.548*	2000	✓				✓									(stopper) *lid wasn't on oxy flask properly (100*)
7	101	1225	0.542	1500	✓													
8	102	1320	0.302	1250	✓													
9	103	1321	0.242	1000	✓													
10	104	1368	0.326	800	✓													
11	105	1360	0.671	600	✓													
12	106	1369	1.466	400	✓			✓										-bubbles on lens
13	107	1371	1.958	300	✓													(-x went out on deck for 1/2 hr + then rest were all fixed with acid ↓)
14	108	1373	2.596*	250	✓													
15	109	1374	3.117	200	✓													
16	110	1376	3.952	175	✓													
17	111	1367	5.292	150	✓													
18	112	1379	5.726	125	✓													
19	113	1380	6.503	100	✓							✓	✓					
20	114	1381	6.834	75	✓							✓						
21	115	1382	6.847	50	✓							✓						
22	116	1383	6.843	25	✓							✓						
23	117	1384	6.851	10	✓							✓						
24	118	1385	6.777	5	✓	✓	✓	YELLOW RACK	✓			✓	✓					

Comments:

SHIP: JOHN P TULLY
ENTERED BY: MR 1ST
CHECKED BY:

Bottom Depth: 3624

Cast # down: 25
Cast # up: 25

Time	LOC	UTC
Begin:		0006
Bottom:		0105
End:		0212

START POSITION (GPS)
LAT: 49 17 35
LONG: 134 39 83

BOTTOM POSITION (GPS)
LAT: 49 17 07
LONG: 134 39 70

END POSITION (GPS)
LAT: 49 17 65
LONG: 134 39 76

ROSETTE LOG

MISSION ID: 200405 STATION: P20 CAST NUMBER: 32 UTC DATE (dd/mm/yyyy): 22/02/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CDOM				
1	122	1334	3.247	B-20	✓	✓	✓	✓	✓	✓								
2	123	1336	2.898	3500	✓					a b								
3	124	1340	2.888	3500	✓			✓		✓								
4	125	1344	2.534	3000	✓					1								
5	126	1350	1.945	2500	✓													
6	127	1351	1.266	2000	✓													
7	128	1352	0.553	1500	✓													
8	129	1353	0.352	1250	✓			✓										
9	130	1130	0.304	1000	✓													
10	131	364	0.364	800	✓													
11	132	535	0.606	600	✓													
12	133	572	1.264	400	✓			✓										
13	134	657	1.859	300	✓													
14	135	706	2.257	250	✓													
15	136	1135	3.020	200	✓													
16	137	1176	3.441	175	✓			✓										
17	138	1136	4.312	150	✓													
18	139	1137	5.830	125	✓							✓						
19	140	1138	5.758	100	✓							✓	✓					
20	141	1142	6.952	75	✓							✓						
21	142	1146	6.966	50	✓			✓				✓						
22	143	1153	6.957	25	✓							✓						
23	144	1158	6.951	10	✓							✓						
24	145	1175	6.936	5	✓	✓	✓	✓	✓	✓			✓					

Comments: chlorophyll bottles labler niskin 18-23.

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

Bottom Depth: 3945

Cast # down: 32
Cast # up:

Time	LOC	UTC
Begin:		2333
Bottom:		0038
End:		0152

START POSITION (GPS)
LAT: 49° 33.94
LONG: 138° 41.59

BOTTOM POSITION (GPS)
LAT: 49 34.41
LONG: 138 41.89

END POSITION (GPS)
LAT: 49 34.33
LONG: 138 42.06

ROSETTE LOG

CALIBRATION CAST

MISSION ID: 2004-05 STATION: PAPA CAST NUMBER: 44 UTC DATE (dd/mm/yyyy): 24/12/2004

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	152			1500	/	✓				✓✓								
2	153			1500	/					✓✓								
3	154			1500	/					✓✓								
4	155			1500	/					✓✓								
5	156			1500	/					✓✓								
6	157			1500	/													
7	158			1500	/													
8	159			1500	/													
9	160			1500	/													
10	161			1500	/													
11	162			1500	/													
12	163			1500	/													
13	164			1500	/													
14	165			1500	/													
15	166			1500	/													
16	167			1500	/													
17	168			1500	/													
18	169			1500	/													
19	170			1500	/													
20	171			1500	/													
21	172			1500	/													
22	173			1500	/													
23	174			1500	/													
24	175			1500	/													

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

Bottom Depth: 42.4

Cast # down: 44
Cast # up: 44

Time	LOC	UTC
Begin:		1309
Bottom:		1335
End:		1355

START POSITION (GPS)
LAT: 50 02.06
LONG: 144 57.49

BOTTOM POSITION (GPS)
LAT: 50 01.97
LONG: 144 57.80

END POSITION (GPS)
LAT: 50 01.97
LONG: 144 57.83

Comments:

ROSETTE LOG

MISSION ID: 2004-05 STATION: ~PAPA CAST NUMBER: 45 UTC DATE (dd/mm/yyyy): 24/2/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		3.5		R ^e		
							OXY			ALK		CHL		POV				
1	176			100	✓			13					1	✓	✓	✓		
2	177			70	✓			11					1	✓	✓	✓		
3	178			50	✓								1	✓	✓	✓		
4	179			30	✓								1	✓	✓	✓		
5	180			20	✓								1	✓	✓	✓		
6	181			10	✓								1	✓	✓	✓		
7	182			5	✓								1	✓	✓	✓		
8	183			2	✓			✓	✓				✓	✓	✓	✓		
9																		
10																		
11																		
12																		
13																		
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23																		
24																		

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

Bottom Depth: 4213

Cast # down: 45
Cast # up: 45

Time	LOC	UTC
Begin:		1447
Bottom:		1451
End:		1503

START POSITION (GPS)
LAT: 50 02.01
LONG: 144 57.96

BOTTOM POSITION (GPS)
LAT: 50 01.99
LONG: 144 57.98

END POSITION (GPS)
LAT: 50 02.05
LONG: 144 58.01

Comments:

ROSETTE LOG

DEEP CAST

MISSION ID: 2004-05 STATION: PAPA CAST NUMBER: 47 UTC DATE (dd/mm/yyyy): 24/02/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CDOM				
							OXY	x4		ALK		CHL						
1	184	1334	3.644	4000	✓	✓	✓			✓	✓	✓						
2	185	1336	2.990	3500	✓													
3	186	1340	2.578	3000	✓													
4	187	1344	2.625	2500	✓													
5	188	1350	2.012	2500	✓													
6	189	1351	1.381	2000	✓													
7	190	1352	0.630	1500	✓													
8	191	1353	0.429	1250	✓			✓										
9	192	1130	0.429	1000	✓													
10	193	364	0.479	800	✓													
11	194	535	0.590	600	✓													
12	195	572	0.840	400	✓			✓										
13	196	657	1.121	300	✓													
14	197	708	1.502	250	✓													
15	198	1135	2.121	200	✓													
16	199	1176	2.495	175	✓													
17	200	1136	2.945	150	✓													
18	201	1137	4.361	125	✓													
19	202	1138	5.961	100	✓			✓				✓	✓					
20	203	1142	7.034	75	✓							✓						
21	204	1146	7.062	50	✓							✓						
22	205	1153	7.065	25	✓							✓						
23	206	1158	7.069	10	✓							✓						
24	207	1175	7.056	5	✓	✓	✓			✓	✓	✓	✓					

Comments: 1x 250 1x 500

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

Bottom Depth: 4222

Cast # down: 47
Cast # up: 47

Time	LOC	UTC
Begin:		1735
Bottom:		1838
End:		1959

START POSITION (GPS)
LAT: 49° 59.99
LONG: 144° 59.89

BOTTOM POSITION (GPS)
LAT: 50° 00.05
LONG: 145° 00.00

END POSITION (GPS)
LAT: 50° 00.11
LONG: 145° 00.03

ROSETTE LOG

MISSION ID: 2004-05 STATION: ST-03C CAST NUMBER: 48 UTC DATE (dd/mm/yyyy): 28/2/2004

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SL	B	NUT		100	E	CH						
						A	CH		C	D	ALK	F	CHL					
1	1			220	219	✓	✓	✓	✓	✓	✓	✓						
2	2			200	✓	✓	✓	✓	✓	✓	✓	✓						
3	3			182	✓	✓	✓	✓	✓	✓	✓	✓						
4	4			167	✓	✓		✓	✓	✓	✓							
5	5			155	✓	✓	✓	✓	✓	✓	✓	✓						
6	6			150	✓	✓		✓	✓	✓	✓							
7	7			145	✓	✓	✓	✓	✓	✓	✓	✓						
8	8			140	✓	✓		✓	✓	✓	✓							
9	9			136	✓		✓	✓	✓	✓	✓	✓						
10	10			132	✓			✓	✓	✓	✓							
11	11			128	✓		✓	✓	✓	✓	✓	✓						
12	12			124	✓		✓	✓	✓	✓	✓	✓						
13	13			120	✓			✓	✓	✓	✓							
14	14			116	✓		✓	✓	✓	✓	✓	✓						
15	15			112	✓			✓	✓	✓	✓	✓						
16	16			108	✓		✓	✓	✓	✓	✓	✓						
17	17			104	✓			✓	✓	✓	✓	✓						
18	18			100	✓		✓	✓	✓	✓	✓	✓						
19	19			85	✓		✓	✓	✓	✓	✓	✓						
20	20			70	✓		✓	✓	✓	✓	✓	✓						
21	21			55	✓			✓	✓	✓	✓							
22	22			40	✓		✓	✓	✓	✓	✓	✓						
23	23			25	✓			✓	✓	✓	✓							
24	24			10	✓		✓	✓	✓	✓	✓	✓						

Comments: A: H2S concentrations
B: Trace gases by membrane inlet mass spectrometry (N2/Ar, O2/Ar, CO2/Ar)
C: Stable isotopes of Nitrate (15N/14N, 18O/16O) D: Suspended particulate (C/N and 15N/14N)
E: Dissolved Ag, other trace metals F: Nitrous oxide concentration + stable isotope ratios (15N/14N and 18O/16O)

SHIP:
ENTERED BY:
CHECKED BY:

Bottom Depth: 227

Cast # down: 48
Cast # up: 48

Time	LOC	UTC
Begin:		17 47
Bottom:		17 54
End:		18 18

START POSITION (GPS)
LAT: 48 35 61
LONG: 123 30 01

BOTTOM POSITION (GPS)
LAT: 48 35 .65
LONG: 123 30 .04

END POSITION (GPS)
LAT: 48 35 .73
LONG: 123 30 .08