

ROSETTE LOG

MISSION ID: 9815
STATION NAME: 33UTC DATE y/m/d: 98/06/03
CAST NUMBER: 002

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Oxygen End point	Comment
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	1	84		Bott-10		/											0.000	Anoxic
2	2	97		175		/											0.000	"
3	3	255		150		/											0.000	"
4	4	509		125		/											0.002	
5	5	333		100		/											0.307	
6	6	337		80		/											0.492	No Flask # Sample # in program
7	7	364		60		/											0.754	
8	8	392		50		/											0.825	
9	9	412		40		/											0.854	
10	10	420		30		/											0.869	
11	11	425		20		/											0.875	
12	12	443		15		/											0.906	
13	13	463		10		/											1.250	
14	14	467		5		/											1.655	
15	15	486		0		/											1.575	
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 225

Cast # down: 1

Cast # up: 2

Time LOC UTC

Begin:

Bottom:

End:

START POSITION (GPS)

LAT: 48 35.601

LONG: 123 30.145

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 48 35.660

LONG: 123 30.270

ROSETTE LOG

MISSION ID:

9815

UTC DATE y/m/d:

98 06 04

STATION NAME:

P4

CAST NUMBER:

08

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Oxygen Endpoint	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	20	84		8-10	1318	✓											0.106	
2	21	97		1250	1251	✓											0.088	
3	22	255		1000	1000	✓											0.057	
4	23	509		800	800	✓											0.053	
5	24	337		600	601	✓											0.076	
6	25	333		400	400	✓											0.171	
7	26	364		300	300	✓											0.300	
8	27	392		200	201	✓											0.433	
9	28	420		150	151	✓											0.507	
10	29	412		100	100	✓											0.731	
11	30	425		75	75	✓											1.000	
12	31	443		50	50	✓											1.146	
13	32	463		25	25	✓											1.216	
14	33	467		10	10	✓											1.172	
15	34	486		0	1	✓											1.172	
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 1333

Cast # down: 08

Cast # up: 08

Time	LOC	UTC
Begin:		0230
Bottom:		0352
End:		0425

START POSITION (GPS)	
LAT:	
LONG:	

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	48 39.070
LONG:	126 40.17

ROSETTE LOG

MISSION ID:

9815

UTC DATE y/m/d:

98 06 04

STATION NAME:

P4

CAST NUMBER:

10

SHIP:

Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Oxygen Endpoint	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	35	84		400	400.9												0.218	
2	36	97		300	300.5												0.327	
3	37	255		250	249.4												0.398	
4	38	509		200	200.0												0.462	
5	39	337		175	176.0												0.469	
6	40	333		150	149.6												0.513	
7	41	364		125	125.1												0.577	
8	42	392		100	100.3												0.713	
9	43	412		80	79.8												0.924	
10	44	420		60	59.9												1.096	
11	45	443		50	49.8												1.129	
12	46	425		40	39.8												1.149	
13	47	463		30	30.0												1.244	
14	48	467		20	20.1												1.173	
15	49	486		15	15.0												1.173	
16	50	527		10	9.9												1.172	
17	51	534		5	5.0												1.075	
18	52	535		0	2.8												1.169	
19					(Surface)													
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

R.P.

CHECKED BY:

Bottom Depth: 1300 m

Cast # down: 10

Cast # up: 10

Time LOC UTC

Begin: 11:12 18:12

Bottom:

End:

START POSITION (GPS)

LAT: 48 38.98 N

LONG: 126 40.13

BOTTOM POSITION (GPS)

LAT: 48 38.96

LONG: 126 40.11

END POSITION (GPS)

LAT: 48 39.00

LONG: 126 39.97

ROSETTE LOG

MISSION ID: 9815
STATION NAME: P8UTC DATE y/m/d: 1998/6/15
CAST NUMBER: 14SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Oxygen Endpoint	Comments
					Trip pressure	Confirmed Salinity	SAL	✓	NUT	ALK	TCO							
1	53	84		2500	2536.4												0.340	
2	54	97		2250	2250.1												0.304	several
3	55	509		2000	2000.0												0.265	viles
4	56	255		1750	1750.7												0.195	seemed
5	57	333		1500	1500.3												0.133	to
6	58	337		1250	1250.0												0.074	be
7	59	364		1000	1000.1												0.055	quite
8	60	392		800	800.5												0.053	gassy
9	61	412		600	599.3												0.252	bubbly
10	62	420		400	400.5												0.268	
11	63	443		300	299.6												0.403	
12	64	425		200	200.6												0.533	
13	65	463		150	150.0												0.675	
14	66	467		100	100.3												0.951	
15	67	486		75	74.6												1.151	
16	68	527		50	50.0												1.221	
17	69	535		25	25.0												1.230	
18	70	334		10	10.0												1.092	
19	71	572		0	2.8												1.184	
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 2524

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:	03:33	10:33
Bottom:	04:14	11:14
End:		

START POSITION (GPS)		
LAT:	48	48.98
LONG:	128	39.86

BOTTOM POSITION (GPS)		
LAT:	48	48.85
LONG:	128	40.9

END POSITION (GPS)		
LAT:		
LONG:		

ROSETTE LOG

MISSION ID: 9815
STATION NAME: P12UTC DATE y/m/d: 1998/06/06
CAST NUMBER: 19SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Oxygen Endpoint	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	72	84		3300	3279	✓											0.428	Oxygen
2	73	97		3000	3000	✓											0.415	Flasks
3	74	255		2750	2750	✓											0.387	Net
4	75	509		2500	2500	✓											0.351	Sealed
5	76	333		2250	2250	✓											0.302	with
6	77	337		2000	2001	✓											0.250	Milli Q
7	78	392		1750	1750	✓											0.179	After
8	79	364		1500	1500	✓											0.118	Sampling
9	80	420		1250	1251	✓											0.070	
10	81	412		1000	1001	✓											0.053	
11	82	443		800	800	✓											0.066	
12	83	425		600	600	✓											0.110	
13	84	467		400	400	✓											0.298	
14	85	463		300	300	✓											0.482	
15	86	486		200	200	✓											0.652	
16	87	527		150	150	✓											0.782	
17	88	534		100	100	✓											0.946	
18	89	535		75	75	✓											1.092	
19	90	572		50	50	✓											1.162	
20	91	578		25	24	✓											1.200	
21	92	587		10	10	✓											1.202	
22	93	588		0	8	✓											1.190	
23																		
24																		

Comments:

Please fill 6L carboy with water from deepest bottles - tanks - Janet

ENTERED BY:

CHECKED BY:

Bottom Depth: 3429Cast # down: 19Cast # up: 19

Time	LOC	UTC
Begin:		<u>02:39</u>
Bottom:		<u>03:25</u>
End:		<u>04:19</u>

START POSITION (GPS)		
LAT:	<u>48 58.33</u>	<u>N</u>
LONG:	<u>130 39.74</u>	

BOTTOM POSITION (GPS)		
LAT:	<u>48 58.38</u>	
LONG:	<u>130 39.36</u>	

END POSITION (GPS)		
LAT:	<u>48 58.74</u>	
LONG:	<u>130 39.31</u>	

ROSETTE LOG

MISSION ID: 9815
STATION NAME: P12UTC DATE y/m/d: 1998/JUNE/6
CAST NUMBER: 20SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										ml/ END POINT	
					Trip pressure	Confirmed Salinity	SAL	OXY	NUT	CHL	ALK	CI3	TCO	DMS				
1	94			400	400	✓											1.785	
2	95			300	300	✓											2.832	
3	96			250	250	✓											4.620	? .588
4	97			200	201	✓											3.830	
5	98			175	175	✓											4.102	
6	99			150	150	✓											4.365	
7	100			125	125	✓											4.453	
8	101			100	100	✓											5.028	
9	102			80	80	✓											5.943	
10	103			60	60	✓											6.414	
11	104			50	50	✓											6.602	
12	105			40	39	✓											6.974	
13	106			30	30	✓											6.551	
14	↑ ENZYME SAMPLES ↓			25	33	✓												
15				25	33	✓												
16				25	33	✓												
17				25	33	✓												
18				25	33	✓												
19				25	33	✓												
20	107			20	20	✓											6.513	
21	108			15	15	✓											6.514	
22	109			10	10	✓											6.529	
23	110			5	5	✓											6.505	
24	111			0	2	✓											6.509	

Comments:

ENTERED BY:
CHECKED BY:Bottom Depth: 3429Cast # down: 20Cast # up: 20

Time	LOC	UTC
Begin:		17:19
Bottom:		17:25
End:		17:45

START POSITION (GPS)

LAT: 48 58.30

LONG: 130 39.87

BOTTOM POSITION (GPS)

LAT: 48 58.31

LONG: 130 39.72

END POSITION (GPS)

LAT: 48 57.67

LONG: 130 34.74

* Labels on bottles
show the wrong Niskin #
for samples 107-111

ROSETTE LOG

MISSION ID:

9815

UTC DATE y/m/d:

98 06 07

SHIP:

Tolly

STATION NAME:

P16

CAST NUMBER:

24

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Oxygen Endpoint	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO	CHL	C13			
1	112	97		400		✓											0.274	
2	113	84		300		✓											0.396	
3	114	255		250		✓											0.490	
4	115	509		200		✓											0.576	
5	116	333		175		✓							666				0.597	Titration stopped early at 77%
6	117	337		150		✓							.0026				0.685	
7	118	392		125		✓							692				0.764	
8	119	364		100		✓											0.832	
9	120	412		80		✓											1.121	
10	121	420		60		✓											1.233	
11	122	443		50		✓											1.249	
12	123	425		40		✓											1.221	
13	124	463		30		✓											1.284	
14	125	467		20													1.200	
15	126	486		15													1.206	
16	127	527		10													1.206	
17	128	535		5													1.205	
18	129	534		0													1.107	
19	PHILLIPS TORTOLIS					25												
20						25												
21						25												
22						25												
23						25												
24	ENZYME SAMPLES					25												

Comments:

Table driven cast to accommodate Phillips bottles - after Niskin Bottle #13 (30m) raise to 25m and fire bottles 24, 23, 22, 21, 20, 19; then raise to 20m and Niskin #14 (20m) should fire

ENTERED BY:

CHECKED BY:

Bottom Depth: 3191

Cast # down: 24

Cast # up: 24

Time LOC UTC

Begin: 1853

Bottom: 1859

End: 1919

START POSITION (GPS)

LAT: 49 17 01

LONG: 134 40.11

BOTTOM POSITION (GPS)

LAT: 49 17 02

LONG: 134 40.20

END POSITION (GPS)

LAT: 49 16.98

LONG: 134 40.14

ROSETTE LOG

MISSION ID: 9815
STATION NAME: P16

UTC DATE y/m/d: 98 06 08
CAST NUMBER: 26126

SHIP: Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Oxygen Endpoint	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	130	37		Bottom-10		/	/	/									0.511	
2	131	84		3000		/	/	/									0.437	
3	132	255		2750		/	/	/									0.388	
4	133	509		2500		/	/	/									0.356	
5	134	333		2250		/	/	/									0.292	
6	135	337		2000		/	/	/									0.238	
7	136	364		1750		/	/	/									0.181	
8	137	392		1500		/	/	/									0.112	
9	138	412		1250		/	/	/					.129				0.072	
10	139	420		1000		/	/	/									0.064	
11	140	443		800		/	/	/									0.068	
12	141	425		600		/	/	/									0.113	
13	142	463		400		/	/	/									0.263	
14	143	467		300		/	/	/									0.564	? Program dropped out
15	144	527		200		/	/	/									0.589	
16	145	486		150		/	/	/									0.713	
17	146	534		100		/	/	/									0.881	
18	147	535		75		/	/	/									1.204	
19	148	578		50		/	/	/									1.228	
20	149	572		25		/	/	/									1.204	
21	150	587		0		/	/	/									1.209	
22																		
23																		
24																		

Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 3700 -

Cast # down: 25
Cast # up: 26

Time	LOC	UTC
Begin:		0607
Bottom:		0702
End:		0809

START POSITION (GPS)
LAT: 49 17.04
LONG: 134 40.05

BOTTOM POSITION (GPS)
LAT: 49° 17.16
LONG: 134° 40.65

END POSITION (GPS)
LAT: 49 17.09
LONG: 134 40.63

ROSETTE LOG

MISSION ID: 9815
STATION NAME: P20UTC DATE y/m/d: 98 06 09
CAST NUMBER: 31SHIP:

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Oxygen End-Point	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		DMS			
								OXY		CHL		C13		NH3				
1	151	84		400		✓											0.287	
2	152	97		300		✓											0.387	
3	153	255		250		✓											0.449	
4	154	509		200		✓											0.566	
5	155	364		175		✓											0.624	
6	156	337		150		✓											0.701	
7	157	333		125		✓											0.756	
8	158	412		100		✓											0.829	
9	159	420		80		✓												Flosk stuck (brace)
10	160	443		60		✓											1.268	
11	161	463		50													1.261	
12	162	425		40													1.264	
13	163	467		30													1.291	
14	164	527		20													1.294	
15	165	534		15													1.169	
16	166	486		10													1.254	
17	167	578		5													1.243	
18	168	535		0													1.245	
19				25														
20	For Philline			25														
21	Tartell			25														
22				25														
23				25														
24				25														

Comments:

TABLE DRIVEN CAST

ENTERED BY: CHECKED BY: Bottom Depth: 3975Cast # down: 31Cast # up: 31

Time	LOC	UTC
Begin:		1918
Bottom:		1925
End:		1942

START POSITION (GPS)	
LAT:	49 33.98
LONG:	138 39.96

BOTTOM POSITION (GPS)	
LAT:	49 34.03
LONG:	138 39.99

END POSITION (GPS)	
LAT:	49 34.01
LONG:	138 40.03

ROSETTE LOG

MISSION ID: 9815
STATION NAME: P20

UTC DATE y/m/d: 98 6 10
CAST NUMBER: 32

SHIP: Tully

Niskin Sample OXY. OXY. Sample
No. No. Flask Temp. Depth

ROSETTE OPERATION		Samples taken												m/l	
Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO							
			OXY		CHL		C13								
1	169			13-10	4021	✓								3.085	
2	170			3500	3500	✓								2.881	
3	171			3000	3000	✓								2.528	
4	172			2750	2750	✓								2.239	
5	173			2500	2500	✓								1.922	
6	174			2250	2250	✓								1.598	
7	175			2000	2000	✓								1.246	
8	176			1750	1750	✓								0.896	
9	177			1500	1500	✓								0.551	
10	178			1250	1250	✓								0.358	
11	179			1000	1000	✓								0.383	
12	180			800	800	✓								0.442	
13	181			600	600	✓								0.642	
14	182			400	399	✓								1.587	
15	183			300	300	✓								2.386	
16	184			200	200	✓								3.267	
17	185			150	150	✓								4.130	
18	186			100	100	✓								5.089	
19	187			75	75	✓								6.917	
20	188			50	50	✓								7.087	
21	189			25	24	✓								7.105	
22	190			0	2	✓								6.842	
23															
24															

ENTERED BY:
CHECKED BY:

Bottom Depth: 3975

Cast # down: 32
Cast # up: 32

Time	LOC	UTC
Begin:		4:11
Bottom:		5:11
End:		6:20

START POSITION (GPS)
LAT: 49 30.99
LONG: 138 40.22

BOTTOM POSITION (GPS)
LAT: 49 34.39
LONG: 138 40.56

END POSITION (GPS)
LAT: 49 34.63
LONG: 138 41.30

Comments:

ROSETTE LOG

MISSION ID: 9815
STATION NAME: P26

UTC DATE y/m/d: 98 06 12
CAST NUMBER: 40

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Oxygen Endpoint	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK	X2	TCO					
								OXY		CHL	X2	C13	X2	O18				
1	191	638		B-10	4319	✓											0.622	
2	192	DID NOT	CLOSE	4000	3999.9	✓												
3	193	650		3500	3500.0	✓											0.536	
4	194	657		3000	3000.0	✓											0.472	
5	195	695		2750	2749.1	✓											0.404	
6	196	697		2500	2499	✓											0.350	
7	197	641		2250	2250	✓											0.295	
8	198	708		2000	2000.9	✓											0.244	
9	199	709		1750	1750	✓											0.178	
10	200	712		1500	1500.3	✓											0.113	
11	201	713		1250	1249.5	✓											0.088	
12	202	715		1000	1000.0	✓											0.089	
13	203	724		800	800.0	✓											0.130	
14	204	707		600	600.0	✓											0.100	
15	205	726		400	400.0	✓											0.223	-99.99 1.269
16	206	727		300	300.9	✓											0.511	.287
17	207	730		200	202	✓											0.482	
18	208	732		150	150	✓											0.616	
19	209	734		100	100	✓											1.286	
20	210	735		75	75	✓											1.272	
21	211	1106		50	50	✓											1.138	
22	212	1045		25	25	✓											1.281	
23	213	1052		10	10	✓											1.147	
24	214	1062		0	0	✓											1.202	

ENTERED BY:
CHECKED BY:

Bottom Depth: 4250 m

Cast # down: 40
Cast # up: 40

Time	LOC	UTC
Begin:		0247
Bottom:		0342
End:		0500

START POSITION (GPS)
LAT: 50 00.22
LONG: 144 59.92

BOTTOM POSITION (GPS)
LAT: 50 00.49
LONG: 144 59.54

END POSITION (GPS)
LAT: 50 00.32
LONG: 144 59.31

Comments: Duplicate ALK, C13 & TCO samples to be taken

Actual depths from BOTT file - JEB-C

SHIP: J. P. Tully

CAST NUMBER: 41

Actual
Nick #

ROSETTE OPERATION		Samples taken									
Trip	Confirmed	SAL		NUT		ALK		TeO			
pressure	Salinity		OXY		CHL		CH		DMS		

ENTERED BY:
CHECKED BY:

[illegible]

Bottom Depth: 4250

Cast # down: 41

Cast # up: 41

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

Begin: 13:08

Bottom:

End:

START POSITION (GPS)

LAT: 50 00.6 N

LONG: 145 00.2 W

BOTTOM POSITION (GPS)

LAT: _____

LONG:

END POSITION (GPS)

LAT: _____

LONG:

Comments: 2 Bottles at 500 m for Tim's traps

No ammoniac samples.

NB: No samples drawn from Nisk 8 because it was thought to be a double trip - double trip @ 150 instead

ROSETTE LOG

MISSION ID: 9815
STATION NAME: P26UTC DATE y/m/d: 1998/06/12
CAST NUMBER: 42SHIP: J.P. TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Oxygen Endpoint	Comments
					Trip pressure	Confirmed Salinity	SAL	(NUT)	ALK	TCO								
1	233	1110	✓	400	399.7	✓											0.211	
2	234	1113	✓	300	300.0	✓											0.293	
3	235	1114		250	250	✓											0.340	
4	236	1119	✓	200	200.3	✓											0.427	
5	237	1122		175	174.5	✓											0.486	
6	238	1126		150	150	✓											0.547	
7	239	1128		125	124.7	✓											0.605	
8	240	1130	✓	100	100.0	✓											0.827	
9	241	1132		80	80.0	✓											1.096	
10	242	1133		60	60.0	✓											1.139	
11	243	1134		50	50.0	✓											1.147	
12	244	1135		40	40.0	✓											1.140	
13	245	1136		30	30.0	✓											1.192	
14	246	1137		20	20	✓											1.169	
15	247	1138		15	15	✓											1.134	
16	248	1139		10	10.4	✓											1.136	
17	249	1141		5	5	✓											1.137	
18	250	1142		0	0	✓											1.139	
19																		
20																		
21																		
22																		
23																		
24																		

Comments: DMS and NH4ENTERED BY:
CHECKED BY:Bottom Depth: 4250Cast # down: 42Cast # up: 42

Time	LOC	UTC
Begin:		22:39
Bottom:		22:45
End:		23:01

START POSITION (GPS)	
LAT:	<u>49 59.79</u>
LONG:	<u>145 00.22</u>

BOTTOM POSITION (GPS)	
LAT:	
LONG:	

END POSITION (GPS)	
LAT:	
LONG:	

No chlorophyll samples from # 246 & 245

ROSETTE LOG

MISSION ID:

9815

UTC DATE y/m/d:

1998 / 06 / 13

SHIP: TULLY

STATION NAME:

P26

CAST NUMBER:

43

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Oxygen Endpoint	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		DMS			
								OXY		CHL		C13		POC				
1	251			1500	1500	✓												
2	252			1200	1200	✓												
3	253			1000	1000	✓												
4	254			800	800	✓												
5	255			600	600	✓												
6	256			500	500	✓												
7	257	1167		400	400	✓											0.220	
8	258	1168		300	299	✓											0.297	
9	259	1171		200	200	✓											0.476	
10	260	1174		100	100	✓											1.206	
11	261	1175		80	80	✓											1.260	
12	262	1176		60	60	✓											1.272	
13	263	1177		50	50	✓											1.281	
14	264	1178		40	40	✓											1.325	
15	265	1180		30	30	✓											1.357	
16	266	1182		* 20	20	✓											1.293	
17	267	1183		15	15	✓											1.278	
18	268	1187		10	10	✓											1.302	
19	269	1188		5	5	✓											1.272	
20	270	1189		0	0	✓											1.279	
21				20		✓												
22				20		✓												
23				20		✓												
24				20		✓												

Comments:

POC/N 500, 600, 800, 1000, 1200, 1500 m

ENTERED BY:

CHECKED BY:

Bottom Depth: 4250 m

Cast # down: 43

Cast # up: 43

Time LOC UTC

Begin: 04:42

Bottom: 05:01

End: 05:35

START POSITION (GPS)

LAT: 50 00.00

LONG: 144 59.94

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 49 59.88

LONG: 144 59.35

ROSETTE LOG

MISSION ID: 9815
STATION NAME: 204

UTC DATE y/m/d: 98/06/15
CAST NUMBER: 50

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Oxygen Endpoint	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		Fe		NH4			
								OXY		CHL			C13		DMS			
1	271	1113		400	400	✓											0.224	
2	272	1110		300	300	✓											0.302	
3	273	1119		250	250	✓											0.352	
4	274	1114		200	200	✓											0.456	
5	275	1126		175	175	✓											0.493	
6	276	1122		150	150	✓											0.552	
7	277	1130		125	125	✓											0.643	
8	278	1128		100	100	✓											0.659	
9	279	1132		80	80	✓											1.002	
10	280	1133		60	60	✓											1.130	
11	281	1135		50	50	✓											1.128	
12	282	1134		40	40	✓											1.158	
13	283	1136		30	30	✓											1.139	
14	284	1137		20	20	✓											1.113	
15	285	1139		15	15	✓											1.127	
16	286	1138		10	10	✓											1.112	
17	287	1142		5	5	✓											1.117	
18	288	1141		0	2	✓											1.117	
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 4071

Cast # down: 50
Cast # up: 50

Time LOC UTC
Begin: 18:34
Bottom:
End: 19:00

START POSITION (GPS)
LAT: 52 38.95
LONG: 144 59.75

BOTTOM POSITION (GPS)
LAT: 52 38.85
LONG: 144 59.64

END POSITION (GPS)
LAT: 52 38.65
LONG: 144 59.23

Comments: DMS + NH4

ROSETTE LOG

MISSION ID: 9815
STATION NAME: Z04UTC DATE y/m/d: 1998/06/16
CAST NUMBER: 51SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	289			6m-20	4133	✓											3.301	
2	290			4000	4000	✓											3.198	
3	291			3500	3499.5	✓											2.928	
4	292			3000	3000	✓									.426		3.702 ?	BAD
5	293			2750	2750	✓											2.162	
6	294			2500	2500	✓											1.867	
7	295			2250	2250	✓											NO SAMPLE	
8	296			2000	1999	✓											1.264	
9	297			1750	1749	✓											0.953	
10	298			1500	1499	✓											0.614	
11	299			1250	1252	✓											0.403	
12	300			1000	999	✓											0.359	
13	301			800	800	✓											0.390	
14	302			600	600	✓											0.548	
15	303			400	400	✓											1.165	
16	304			300	300	✓											1.667	
17	305			200	200	✓											2.795	
18	306			150	150	✓											3.477	
19	307			100	101	✓											4.227	
20	308			75	75	✓											6.805	
21	309			50	50	✓											7.182	
22	310			25	25	✓											6.981	
23	311			10	10	✓											6.990	
24	312			0	2	✓											6.980	

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast # down:

Cast # up:

Time LOC UTC

Begin: 0104

Bottom: 0205

End:

START POSITION (GPS)

LAT: 52 39.01

LONG: 145 00.01

BOTTOM POSITION (GPS)

LAT: 52 39.06

LONG: 145 00.46

END POSITION (GPS)

LAT:

LONG:

Comments:

BOTTLE #7 DID NOT TRIP.

ROSETTE LOG

MISSION ID:

9815

UTC DATE y/m/d:

98/06/17

SHIP: TULLY

STATION NAME:

209 (AG)

CAST NUMBER:

58

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										ml/p	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	313			btm -20	4085	✓ 4080											3.356	
2	314			4000	3495	✓ 3499											3.046	
3	315			3500	3500	✓ 3500											3.122	
4	316			3000	3000	✓ 3000											2.556	
5	317			2750	2750	✓											2.292	
6	318			2500	2499	✓											1.998	
7	319			2250	2250	✓											1.667	
8	320			2000	2000	✓											1.434	
9	321			1750	1750	✓											1.047	
10	322			1500	1500	✓											0.852	
11	323			1250	1250	✓											0.729	
12	324			1000	1000	✓											0.505	
13	325			800	800	✓											0.549	
14	326			600	597	✓											0.539	
15	327			400	400	✓											0.954	
16	328			300	300	✓											1.304	
17	329			200	200	✓											1.897	
18	330			150	150	✓											2.567	
19	331			100	100	✓											4.540	
20	332			75	75	✓											6.310	
21	333			50	49	✓											7.142	
22	334			25	24	✓											6.986	
23	335			10	10	✓											8.109	BAD
24	336			0	0	✓											6.930	

ENTERED BY:

CHECKED BY:

Bottom Depth: 4100

Cast # down: 58

Cast # up: 58

Time LOC UTC

Begin: 15:47

Bottom: 17:06

End: 20:01

START POSITION (GPS)

LAT: 54 59.94

LONG: 145 00.10

BOTTOM POSITION (GPS)

LAT: 54 59.63

LONG: 145 00.92

END POSITION (GPS)

LAT: 55 00.18

LONG: 145 02.11

Comments: POSSIBLE DISCREPANCY WITH BOTTLES 293 (#2 DIDN'T TRIP?) THEN NEXT 2 TRIGGERS APPEAR AT 2500

ROSETTE LOG

MISSION ID: 9815
STATION NAME: 209

UTC DATE y/m/d: 8/06/17
CAST NUMBER: 59

SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Oxygen Endpoint	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13		DMS				
1	337	1113		400													0.164	
2	338	1110		300													1.152	
3	339	1119		250													0.241	
4	340	1114		200													0.272	
5	341	1122		175													0.362	
6	342	1126		150													0.414	
7	343	-		125													0.414	
8	344	1128		100													0.626	
9	345	1132		80													0.922	
10	346	1133		60													1.142	
11	347	1135		50													1.158	
12	348	1134		40													1.198	
13	349	1137		30													1.136	
14	350	1136		20													1.124	
15	351	1139		15													1.112	
16	352	1138		10													1.112	
17	353	1141		5													1.114	
18	354	1142		0													1.116	
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY:
CHECKED BY:

Bottom Depth: 4046

Cast # down: 59

Cast # up: 59

Time	LOC	UTC
Begin:		
Bottom:		2029
End:		2258

START POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 54 59.98

LONG: 145 01.19

END POSITION (GPS)

LAT: 54 59.07

LONG: 144 59.97

Comments:

ROSETTE LOG

MISSION ID: 9815

UTC DATE y/m/d: 1998/06/18

SHIP: TULLY

STATION NAME: Z14

CAST NUMBER: 64

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Oxygen Endpoint	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13		DMS	NH4			
1	355	97		400	400	✓											0.146	
2	356	630		300	300	✓											0.197	
3	357	412		250	250	✓											0.220	
4	358	255		200	200	✓											0.299	
5	359	364		175	175	✓											0.363	
6	360	337		150	150	✓											0.439	
7	361			125	125	?												
8	362	443		100	101	✓											1.079	
9	363	509		80	80	✓											1.266	
10	364	425		60	60	✓											1.281	
11	365	463		50	60	✓											1.317	
12	366	587		40	40	✓											1.340	
13	367	392		30	30	✓											1.279	
14	368	84		20	20	✓											1.247	
15	369	486		15	15	✓											1.265	
16	370	572		10	10	✓											1.259	
17	371	578		5	5	✓											1.257	
18	372	535		0	2	✓											1.259	
19				20		✓												
20				20		✓												
21				20		✓												
22				20		✓												
23				20		✓												
24				20		✓												

ENTERED BY:

CHECKED BY:

Bottom Depth: 3962

Cast # down: 64

Cast # up: 64

Time LOC UTC

Begin: 17:38

Bottom: 17:44

End: 18:06

START POSITION (GPS)

LAT: 57 30.04

LONG: 144 59.91

BOTTOM POSITION (GPS)

LAT: 57 30.09

LONG: 144 59.84

END POSITION (GPS)

LAT: 57 30.09

LONG: 144 59.70

Comments:

BOTTLE # 7 DID NOT TRIP (IT SHOWED #1 IN THE TABLE WHEN CALLED)

FORGOT TO SAMPLE CHL'S

ROSETTE LOG

MISSION ID:

9815

UTC DATE y/m/d:

98 / 06 / 19

SHIP: TULLY

STATION NAME:

Z14

CAST NUMBER:

65

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	373	630		bottom-20	4057	✓											0.623	
2	374	97		3500	3499	✓											0.532	
3	375	255		3000	3000	✓											0.437	
4	376	412		2750	2750	✓											0.397	
5	377	364		2500	2499	✓											0.354	
6	378	337		2250	2250	✓											0.303	
7	379	333		2000	2000	✓											0.243	
8	380	425		1750	1750	✓											0.182	
9	381	509		1500	1500	✓											0.133	
10	382	443		1250	1250	✓											0.097	
11	383	587		1000	1000	✓											0.076	
12	384	463		800	800	✓											0.083	
13	385	84		600	599	✓											0.083	
14	386	392		400	400	✓											0.147	
15	387	572		300	300	✓											0.204	
16	388	486		200	200	✓											0.296	
17	389	535		150	150	✓											0.367	
18	390	578		100	100	✓											0.842	
19	391	588		75	75	✓											1.217	
20	392	534		50	50	✓											1.195	
21	393	467		25	25	✓											1.298	
22	394	632		10	10	✓											1.267	
23	395	597		0	2	✓											1.242	
24																		

ENTERED BY:

CHECKED BY:

Bottom Depth: 4057

Cast # down: 65

Cast # up: 65

Time LOC UTC

Begin: 02:19

Bottom: 03:26

End: 04:37

START POSITION (GPS)

LAT: 57 30.07 N

LONG: 145 00.03 W

BOTTOM POSITION (GPS)

LAT: 57 29.99 N

LONG: 144 59.26 W

END POSITION (GPS)

LAT: 57 29.88 N

LONG: 144 59.04 W

Comments:

Sampled chlorophyll from #395-390

ROSETTE LOG

MISSION ID: 9815
STATION NAME: Z19UTC DATE y/m/d: 98/06/20
CAST NUMBER: 72SHIP: TULLYNiskin Sample OXY. OXY. Sample
No. No. Flask Temp. Depth

ROSETTE OPERATION		Samples taken										Comments	
Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
			OXY		CHL		C13						
10/2	✓											0.087	
	✓											0.097	
												0.089	*
												0.108	
												0.244	
												0.353	
												0.505	
												0.604	**
												0.935	** plot.
												1.207	✓
												1.236	
												1.283	
												1.323	
												1.248	

ENTERED BY:

CHECKED BY:

Bottom Depth: 1010Cast # down: 72Cast # up: 72

Time	LOC	UTC
Begin:		0816
Bottom:		0827
End:		0849

START POSITION (GPS)		
LAT:	50	26.30
LONG:	144	59.95

BOTTOM POSITION (GPS)		
LAT:	59	26.28
LONG:	145	00.10

END POSITION (GPS)		
LAT:	59	26.30
LONG:	145	00.10

328-496 D = y
C = y

Comments: * Paused near end titration seemed to stop short. * Colorimeter reading too high / Stopped & restarted titration after zeroing. * Didn't titrate completely.
Problem in file. 1st 404 → 403 2nd 404 → 404

ROSETTE LOG

MISSION ID: 9815
STATION NAME: Σ19UTC DATE y/m/d: 1998 / 06 / 20
CAST NUMBER: 73SHIP: TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										Oxygen Endpoint	Comments
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY	x2	CHL		C13			DMS	NH4		
1	410	1110		400	401	✓											0.206	
2	411	1113		300	300	✓											0.309	
3	412	1114		250	250	✓											0.389	
4	413	1119		200	200	✓											0.424	
5	414	1122		175	174	✓											0.498	
6	415	1126		150	150	✓											0.552	
7	416	1130		125	125	✓											0.686	
8	417	1128		100	100	✓											0.933	
9	418	1133		80	80	✓											1.031	
10	419	1132		60	60	✓											1.042	
11	420	1135		50	50	✓											1.070	
12	421	1134		40	40	✓											1.121	
13	422	1137		30	30	✓											1.125	
14	423	1136		20	20	✓											1.203	
15	424	1138		15	15	✓											1.212	
16	425	1139		10	10	✓											1.158	
17	426	1141		5	5	✓											1.124	
18	427	1142		0	2	✓											1.118	
19						✓												
20						✓												
21						✓												
22						✓												
23						✓												
24						✓												

Comments: * Colorimeter reading high Restarted Titrations /

ENTERED BY:
CHECKED BY:Bottom Depth: 1014Cast # down: 73Cast # up: 73

Time	LOC	UTC
Begin:		17:49
Bottom:		17:54
End:		18:10

START POSITION (GPS)	
LAT:	59 26.31
LONG:	145 00.12

BOTTOM POSITION (GPS)	
LAT:	59 26.31
LONG:	145 00.27

END POSITION (GPS)	
LAT:	59 26.23
LONG:	145 00.61

ROSETTE LOG

MISSION ID:

9815

UTC DATE y/m/d:

98 06 23

SHIP:

Tully

STATION NAME:

BOWIE

CAST NUMBER:

77

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	428			400	400	✓	✓	✓	✓								1.107	
2	429			300	298	✓	✓	✓	✓								2.008	
3	430			250	250	✓	✓	✓	✓								2.607	
4	431			200	200	✓	✓	✓	✓								3.095	
5	432			175	175	✓	✓	✓	✓								3.260	
6	433			150	151	✓	✓	✓	✓								3.751	
7	434			125	125	✓	✓	✓	✓								4.180	
8	435			100	100	✓	✓	✓	✓								4.825	
9	436			80	80	✓	✓	✓	✓								6.343	
10	437			60	60	✓	✓	✓	✓								6.664	
11	438			50	50	✓	✓	✓	✓								6.681	
12	439			40	40	✓	✓	✓	✓								6.688	
13	440			30	30	✓	✓	✓	✓								6.712	
14	441			20	20	✓	✓	✓	✓								6.671	
15	442			15	15	✓	✓	✓	✓								6.674	
16	443			10	10	✓	✓	✓	✓								6.667	
17				10		✓	✓	✓	✓									
18				10		✓	✓	✓	✓									
19				10		✓												
20				10		✓												
21				10		✓												
22				10		✓												
23	444			5	5	✓											6.668	
24	445			0	2	✓											6.670	

Comments:

ENTERED BY:

CHECKED BY:

Bottom Depth: 500m

Cast # down: 77

Cast # up: 77

Time LOC UTC

Begin: 1708

Bottom: 1715

End: 1737

START POSITION (GPS)

LAT: 53 16 97

LONG: 135 39 37

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT: 53 16 99

LONG: 135 39 25