

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: SPI

UTC DATE y/m/d: 2000/02/9
CAST NUMBER: 11

SHIP: J.P. TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		pH	Phyto		
1	1		4.116	Bot	174	/	✓	✓	✓					✓			x3	
2	2		4.857	150		/	✓	✓	✓					✓				
3	3		6.478	100		✓	✓	✓	✓					✓				
4	4		6.640	75		✓	✓	✓	✓					✓				
5	5		7.026	50		✓	✓	✓	✓					✓				
6	6		6.695	25		✓	✓	✓	✓					✓	✓			
7	7		6.742	10		✓	✓	✓	✓					✓	✓			
8	8		6.801	0			✓	✓	✓	✓		✓	✓	✓	✓			
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ENTERED BY:
CHECKED BY:

Bottom Depth: 183

Cast # down: 10
Cast # up: 11

Time	LOC	UTC
Begin:		0400
Bottom:		0409
End:		0420

START POSITION (GPS)
LAT: 53 79.93
LONG: 130 44 03

BOTTOM POSITION (GPS)
LAT: 53 19.94
LONG: 130 44 02

END POSITION (GPS)
LAT: 53 19.93
LONG: 130 44 00

Comments:

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: SP2

UTC DATE y/m/d: 2000/2/9
CAST NUMBER: 14

SHIP: John P Tully

Niskin No.	Sample No.	do m/l	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
						Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		pH			
1	9	3.425			60+		✓	✓	✓	✓		✓		✓	✓				
2	10	4.954			150		✓	✓	✓			✓		✓	✓				
3	11	6.684			100		✓	✓	✓	✓		✓		✓	✓				
4	12	6.805			75		✓	✓	✓	✓		✓		✓	✓				
5	13	6.871			50		✓	✓	✓	✓		✓		✓	✓				
6	14	6.655			25		✓	✓	✓	✓		✓		✓	✓	✓			
7	15	6.719			10		✓	✓	✓	✓		✓		✓	✓	✓			
8	16	6.693			0		✓	✓	✓	✓		✓		✓	✓	✓			
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Comments:

ENTERED BY:
CHECKED BY:

Bottom Depth: 198

Cast # down: 14
Cast # up: 14

Time	LOC	UTC
Begin:		0716
Bottom:		0716
End:		0729

START POSITION (GPS)
LAT: 53 70.06
LONG: 130 30.29

BOTTOM POSITION (GPS)
LAT: 53 10.07
LONG: 130 30.25

END POSITION (GPS)
LAT: 53 10.12
LONG: 130 30.27

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: HR03UTC DATE y/m/d: 2000/2/9
CAST NUMBER: 20SHIP: J. P. TULLY

Niskin No.	Sample No.	do m/l OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		Cl3		pH				
1	17	6.254		Bot		✓	✓	✓	✓	✓				✓				
2	18	6.445		50		✓	✓	✓	✓	✓				✓				
3	19	6.600		25		✓	✓	✓	✓	✓				✓				
4	20	6.601		10		✓	✓	✓	✓	✓				✓				
5	21	6.633		0			✓	✓	✓	✓		✓		✓				
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Comments:

ENTERED BY: MR
CHECKED BY: MRBottom Depth: 7ACast # down: 20Cast # up: 20

Time	LOC	UTC
Begin:		1739
Bottom:		1742
End:		1749

START POSITION (GPS)	
LAT:	53° 55' . 99
LONG:	131° 03' . 89

BOTTOM POSITION (GPS)	
LAT:	53° 55' . 98
LONG:	131° 03' . 85

END POSITION (GPS)	
LAT:	53° 55' . 93
LONG:	131° 03' . 78

WATER LOG

STATION ID: 2000-01
STATION NAME: 501

UTC: 00/2/10
CAST NUMBER: 31

JOHN P. TULLY

Niskin No.	Sample No.	do m/l OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		pH			
• 1	22	2.587		bot	266	✓	✓	✓	✓					✓				
2	23	2.615		200		✓												
3	24	2.951		175		✓												
• 4	25	3.722		150		✓								✓				
5	26	5.532		125		✓												
6	27	5.718		100		✓												
• 7	28	5.915		75		✓								✓				
8	29	6.160		50		✓												
9	30	6.299		30		✓												
• 10	31	6.351		20		✓								✓				
• 11	32	6.414		10		✓								✓				
• 12	33	6.409		0			✓	✓	✓					✓				
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ENTERED BY: MR
CHECKED BY:

Bottom Depth:

Cast # down: 31

Cast # up: 31

Time	LOC	UTC
Begin:		1638
Bottom:		1645
End:		1703

START POSITION (GPS)
LAT: 52° 54.10
LONG: 129° 04.71

BOTTOM POSITION (GPS)
LAT: 52° 54.12
LONG: 129° 04.66

END POSITION (GPS)
LAT: 52° 54.12
LONG: 129° 04.65

Comments:

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: SU2

UTC DATE y/m/d: 00/2/10
CAST NUMBER: 32

SHIP: JOHN P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	34	4.736		Bot	130	✓	✓	✓	✓									
2	35	4.706		Bot		✓	✓	✓	✓									
3	36	5.318		100		✓												
4	37	5.569		75		✓												
5	38	5.564		75		✓												
6	39	5.867		50		✓												
7	40	6.143		30		✓												
8	41	6.220		20		✓												
9	42	6.230		10		✓												
10	43	6.261		0		✓	✓	✓	✓									
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ENTERED BY: MR
CHECKED BY: MR

Bottom Depth: 130

Cast # down: 32

Cast # up: 32

Time	LOC	UTC
Begin:		1757
Bottom:		1801
End:		1811

START POSITION (GPS)
LAT: 52° 57' 27"
LONG: 128° 59' 08"

BOTTOM POSITION (GPS)
LAT: 52° 57' 28"
LONG: 128° 59' 08"

END POSITION (GPS)
LAT: 52° 57' 27"
LONG: 128° 59' 06"

Com:

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: S03

UTC: 00/2/10
CAST NUMBER: 33

SHIP: JOHN P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	44	3.815		Bot		✓	✓	✓	✓									
2	45	3.792		Bot		✓	✓	✓	✓									
3	46	4.491		100		✓	✓	✓	✓									
4	47	4.817		75		✓	✓	✓	✓									
5	48	5.113		50		✓	✓	✓	✓									
6	49	5.554		30		✓	✓	✓	✓									
7	50	5.665		20		✓	✓	✓	✓									
8	51	5.934		10		✓	✓	✓	✓									
9	52	6.255		0		✓	✓	✓	✓									
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ENTERED BY: MR
CHECKED BY: MR

Bottom Depth: 126

Cast # down: 33

Cast # up: 33

Time	LOC	UTC
Begin:		1707
Bottom:		1711
End:		1721

START POSITION (GPS)
LAT: 53° 01.75
LONG: 128° 55.04

BOTTOM POSITION (GPS)
LAT: 53° 01.73
LONG: 128° 55.14

END POSITION (GPS)
LAT: 53° 01.72
LONG: 128° 55.13

Comments:

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: LA 4

UTC DATE year: 00/2/11
CAST NUMBER: 34

SHIP: JOHN P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	53	1202	2.186	Bot		✓	✓	✓	✓									
2	54	1203	2.274	150		✓	✓	✓	✓									
3	55	1204	2.549	125		✓	✓	✓	✓									
4	56	1209	3.338	100		✓	✓	✓	✓									
5	57	1206	4.120	75		✓	✓	✓	✓									
6	58	1212	4.772	50		✓	✓	✓	✓									
7	59	1210	4.927	30		✓	✓	✓	✓									
8	60	1215	5.814	20		✓	✓	✓	✓									
9	61	1216	6.326	10		✓	✓	✓	✓									
10	62	1218	6.487	0		✓	✓	✓	✓									
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ENTERED BY: MR
CHECKED BY: MR

Bottom Depth: 170

Cast # down: 34

Cast # up: 34

Time	LOC	UTC
Begin:		0115
Bottom:		0120
End:		0133

START POSITION (GPS)
LAT: 52° 55.99
LONG: 128° 40.26

BOTTOM POSITION (GPS)
LAT: 52° 55.96
LONG: 128° 40.30

END POSITION (GPS)
LAT: 52° 55.98
LONG: 128° 40.22

Comments:

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: LA 3UTC DATE y/m/d: 00/2/11
CAST NUMBER: 35SHIP: JOHN P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13		pH				
1	63	1222	1.963	Bot		✓	✓	✓	✓					✓				
2	64	1224	1.946	300		✓												
3	65	1225	2.046	250		✓												
4	66	1228	2.190	200		✓								✓				
5	67	1230	2.427	175		✓												
6	68	1231	2.935	150		✓												
7	69	1233	3.263	125		✓								✓				
8	70	1235	4.535	100		✓												
9	71	1237	6.267	75		✓								✓				
10	72	1241	5.413	50		✓												
11	73	1234	5.595	30		✓								✓				
12	74	1238	6.124	20		✓												
13	75	1243	6.481	10		✓								✓				
14	76	1240	6.520	0			✓	✓	✓			✓		✓				
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Comments:

ENTERED BY: MR
CHECKED BY: MRBottom Depth: 371Cast # down: 35Cast # up: 35

Time	LOC	UTC
Begin:		0223
Bottom:		0233
End:		0256

START POSITION (GPS)	
LAT:	52° 51.32
LONG:	128° 43.41

BOTTOM POSITION (GPS)	
LAT:	52° 51.31
LONG:	128° 43.41

END POSITION (GPS)	
LAT:	52° 51.29
LONG:	128° 43.47

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: LAIUTC DATE y/m/d: 00/2/11
CAST NUMBER: 37SHIP: JOHN P TULLY

Niskin No.	Sample No.	OXY. Flask	m/d OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13		pH				
1	77	1128	2.000	Bot		✓	✓	✓	✓					✓				
2	78	1130	1.836	350		✓	✓	✓	✓									
3	79	1134	1.769	300		✓	✓	✓	✓									
4	80	1135	1.971	250		✓	✓	✓	✓									
5	81	1136	2.467	200		✓	✓	✓	✓					✓				
6	82	1137	2.523	175		✓	✓	✓	✓									
7	83	1138	3.039	150		✓	✓	✓	✓									
8	84	1141	3.892	125		✓	✓	✓	✓					✓				
9	85	1142	5.637	100		✓	✓	✓	✓									
10	86	1146	5.778	75		✓	✓	✓	✓					✓				
11	87	1148	6.093	50		✓	✓	✓	✓									
12	88	1153	6.509	30		✓	✓	✓	✓									
13	89	1158	6.657	20		✓	✓	✓	✓					✓				
14	90	1171	6.672	10		✓	✓	✓	✓					✓				
15	91	1174	6.805	0			✓	✓	✓					✓				
16																		
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ENTERED BY: MR

CHECKED BY:

Bottom Depth: 410Cast # down: 37Cast # up: 37

Time LOC UTC

Begin:

Bottom: 0501End: 0515

START POSITION (GPS)

LAT: 52° 40.75LONG: 128° 45.16

BOTTOM POSITION (GPS)

LAT: 52° 40.76LONG: 128° 45.14

END POSITION (GPS)

LAT: 52° 40.79LONG: 128° 45.11

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: HMO6

UTC DATE y/m/d: 00/02/11
CAST NUMBER: 41

NAME: JOHN P TULLY

Niskin Sample OXY.
No. No. Flask

ml/l
OXY.
Temp.

Sample
Depth

ROSETTE OPERATION		Samples taken											
Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
			OXY		CHL		C13		pH				

1	92	1128	1.848	Bottom			✓	✓	✓				✓						
2	93	1130	2.553	200			✓						✓						
3	94	1134	3.501	150			✓						✓						
4	95	1135	4.938	100			✓		✓				✓						
5	96	1136	5.849	75			✓						✓						
6	97	1137	6.532	50			✓						✓						
7	98	1138	6.719	25			✓						✓						
8	99	1141	6.954	10			✓						✓						
9	100	1142	6.766	0			✓	✓	✓	✓			✓						
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ENTERED BY: MR
CHECKED BY:

Bottom Depth: 298

Cast # down: 41

Cast # up: 41

Time	LOC	UTC
Begin:		<u>2045</u>
Bottom:		<u>2055</u>
End:		<u>2110</u>

START POSITION (GPS)
LAT: 52 31.36
LONG: 130 10.96

BOTTOM POSITION (GPS)
LAT: 52 31.22
LONG: 130 10.85

END POSITION (GPS)
LAT: 52 30.01
LONG: 130 10.89

Comments:

ROSETTE LOG

NO. / ID: 2000-01
STATION NAME: MC16UTC DATE: 00/02/12
CAST NUMBER: 49

SHIP: JOHN P. TULLY

Niskin Sample OXY.
No. No. FlaskOXY.
Temp. Sample
Depth

ROSETTE OPERATION		Samples taken											
Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
		OXY		CHL		C13							

1	101	1128	1.672	Bottom				✓	✓	✓										
2	102	1130	1.663	300																
3	103	1134	2.171	200																
4	104	1135	2.538	150																
5	105	1136	5.551	100						✓										
6	106	1137	6.058	75																
7	107	1138	6.487	50																
8	108	1141	6.741	25																
9	109	1142	6.760	10																
10	110	1146	6.748	0				✓	✓	✓	✓									
11																				
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ENTERED BY: MR
CHECKED BY: DA

Bottom Depth: 423

Cast # down: 49

Cast # up: 49

Time	LOC	UTC
Begin:		1941
Bottom:		1951
End:		2002

START POSITION (GPS)	
LAT:	51 57.34
LONG:	130 27.11

BOTTOM POSITION (GPS)	
LAT:	51 57.35
LONG:	130 27.10

END POSITION (GPS)	
LAT:	51 57.40
LONG:	130 27.18

Comments:

* OXY-COLORIMETER IS A 102.7% 'Z' FUNCTION ON LAPTOP WILL NOT RESET TO 100% LIGHT

ET TE LOG

V. ID: 2000-01
STATION NAME: SP4

UTC DATE: 00/02/13
CAST NUMBER: 54

III. JOHN P TULLY

Niskin Sample OXY.
No. No. Flask

m/l
OXY.
Temp.

Sample
Depth

ROSETTE OPERATION		Samples taken											
Trip	Confirmed	SAL		NUT		ALK		TCO		pH			
pressure	Salinity		OXY		CHL		C13						

ENTERED BY: MR
CHECKED BY: MR

1	111	1202	2.363	Bottom	210	✓		✓	✓	✓				✓					
2	112	1203	3.849	150		✓								✓					
3	113	1204	4.748	100		✓				✓				✓					
4	114	1206	5.791	75		✓								✓					
5	115	1209	6.429	50		✓								✓	✓				
6	116	1210	6.653	25		✓								✓					
7	117	1212	6.722	10		✓		✓	✓	✓	✓			✓	✓				
8	118	1215	6.720	0		✓		✓	✓	✓	✓			✓	✓				
9																			
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Bottom Depth: 213

Cast # down: 54

Cast # up: 54

Time	LOC	UTC
Begin:		0146
Bottom:		0151
End:		0202

START POSITION (GPS)
LAT: 52° 10.09
LONG: 129° 29.94

BOTTOM POSITION (GPS)
LAT: 52° 10.13
LONG: 129° 29.90

END POSITION (GPS)
LAT: 52° 10.15
LONG: 129° 29.88

Comments:

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: SP3UTC DATE y/m/d: 00/02/13
CAST NUMBER: 57SHIP: JOHN P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		pH	pH ¹⁰		
1	119	1223	3.048	Bottom			✓	✓	✓		✓			✓				
2	120	1224	3.410	200			✓	✓	✓		✓			✓				
3	121	1225	6.118	150			✓	✓	✓		✓			✓				
4	122	1229	5.484?	100			✓	✓	✓		✓			✓				
5	123	1230	6.389	75			✓	✓	✓		✓			✓				
6	124	1231	6.430	50			✓	✓	✓		✓			✓	✓			
7	125	1233	6.593	25			✓	✓	✓		✓			✓				
8	126	1234	5.850?	10			✓	✓	✓		✓			✓	✓			
9	127	1235	6.766	0			✓	✓	✓	✓	✓	✓	✓	✓	✓			
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17																		
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19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: MR
CHECKED BY: DABottom Depth: 228Cast # down: 57
Cast # up: 57

Time	LOC	UTC
Begin:		<u>0520</u>
Bottom:		<u>0526</u>
End:		<u>0536</u>

START POSITION (GPS)
LAT: 51 52.10
LONG: 129 23.71BOTTOM POSITION (GPS)
LAT: 51 52.12
LONG: 129 23.68END POSITION (GPS)
LAT: 51 52.10
LONG: 129 23.62

Comments:

? 488 COMPUTER TRACE CEASED

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: SP6UTC DATE y/m/d: 00/02/14
CAST NUMBER: 68SHIP: JOHN P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		pH	phyl		
1	128	1202	3.727	Bottom		✓	✓	✓	✓		✓		✓					
2	129	1203	2.963	200		✓	✓	✓	✓		✓		✓					
3	130	1204	NO SAMPLE	150	FLASH	✓	✓	✓	✓		✓		✓				SPILLED I GUESS	
4	131	1206	5.573	100		✓	✓	✓	✓		✓		✓					
5	132	1209	6.280	75		✓	✓	✓	✓		✓		✓					
6	133	1210	6.486	50		✓	✓	✓	✓		✓		✓					
7	134	1212	6.777	10		✓	✓	✓	✓		✓		✓	✓				
8	135	1215	7.996?	0		✓	✓	✓	✓		✓		✓	✓				
9	136	1216	6.585	25		✓	✓	✓	✓		✓		✓	✓				
10																		
11																		
12																		
13																		
14																		
15																		
16		7 = BAD	TRACE ON	COMPUTER														
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: MR
CHECKED BY: MRBottom Depth: 240Cast # down: 68Cast # up: 68

Time	LOC	UTC
Begin:		0203
Bottom:		0209
End:		0225

START POSITION (GPS)	
LAT:	51° 19.97
LONG:	128° 54.23

BOTTOM POSITION (GPS)	
LAT:	51° 19.86
LONG:	128° 54.28

END POSITION (GPS)	
LAT:	51° 19.59
LONG:	128° 54.40

Comments:

* NOTE COLORIMETER @ 104.6% - WILL NOT RESET TO 100%

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: SP5

UTC DATE y/m/d: 00/02/14
CAST NUMBER: 71

SHIP: JOHN P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		pH	24/10		
1	137	1223	2.640	Bottom			✓	✓	✓				✓					
2	138	1224	2.683	200			✓	✓	✓				✓					
3	139	1225	4.088	150			✓	✓	✓				✓					
4	140	1228	5.937	100			✓	✓	✓				✓					
5	141	1230	6.300	75			✓	✓	✓				✓					
6	142	1231	6.441	50			✓	✓	✓				✓					
7	143	1233	6.560	25			✓	✓	✓				✓	✓				
8	144	1234	6.744	10			✓	✓	✓				✓	✓				
9	145	1235	6.099?	0			✓	✓	✓	✓			✓	✓				
10																		
11																		
12																		
13																		
14																		
15		?	BAD COMPUTER TRACE															
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

ENTERED BY: MR
CHECKED BY:

Bottom Depth: 241

Cast # down: 71

Cast # up: 71

Time	LOC	UTC
Begin:		0421
Bottom:		0428
End:		0440

START POSITION (GPS)		
LAT:	51 20	96
LONG:	128 46	83

BOTTOM POSITION (GPS)		
LAT:	51 20	95
LONG:	128 46	79

END POSITION (GPS)		
LAT:	51 21	01
LONG:	128 46	90

Comments:

* NOTE - COLORIMETER @104.6% - WILL NOT RESET TO 100%

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: HED01UTC DATE y/m/d: 00/02/14
CAST NUMBER: 74SHIP: JOHN P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken													
					Trip pressure	Confirmed Salinity	SAL	OXY	NUT	CHL	ALK	C13	TCO	pH						
1	146	1202	0.430	1500		✓		✓	✓	✓					✓					
2	147	1203	0.414	1250		✓		✓	✓	✓					✓					
3	148	1204	0.595	1000		✓		✓	✓	✓					✓					
4	149	1206	24.125	800	?	✓	I Don't know								✓					
5	150	1209	0.755	600		✓														
6	151	1210	1.742	400		✓														
7	152	1212	2.060	300		✓									✓					
8	153	1215	2.678	200		✓														
9	154	1216	2.755	150		✓														
10	155	1218	3.779	100						✓					✓					
11	156	1219	5.609	75																
12	157	1222	6.681	50											✓					
13	158	1223	6.998	25											✓					
14	159	1224	6.826	10											✓					
15	160	1225	6.851	0				✓	✓	✓	✓				✓					
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Comments:

* TURNED OF COLORMETER FOR 1/2 HR - RESTART VALUE STABLE @ 98% - STILL CANNOT RESET TO 100%

ENTERED BY: MR
CHECKED BY: MRBottom Depth: 2082Cast # down: 74Cast # up: 74

Time	LOC	UTC
Begin:		1849
Bottom:		1914
End:		1952

START POSITION (GPS)		
LAT:	52° 20.09	
LONG:	132° 00.00	

BOTTOM POSITION (GPS)		
LAT:	52° 20.05	
LONG:	131° 59.14	

END POSITION (GPS)		
LAT:	52° 19.98	
LONG:	131° 59.88	

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: HED03UTC DATE y/m/d: 00/02/14
CAST NUMBER: 76SHIP: JOHN P TULLYNiskin Sample OXY.
No. No. FlaskOXY.
Temp.Sample
Depth

ROSETTE OPERATION		Samples taken											
Trip	Confirmed	SAL		NUT		ALK		TCO					
pressure	Salinity		OXY		CHL		C13						
1	✓	✓	✓	✓				✓					
2	✓												
3	✓												
4	✓							✓					
5	✓												
6	✓												
7	✓							✓					
8	✓												
9	✓												
10	✓							✓					
11	✓								✓				
12	✓							✓					
13	✓							✓	✓				
14	✓							✓					
15	✓	✓	✓	✓	✓	✓	✓	✓	✓				
16													
17													
18													
19													
20													
21													
22													
23													
24													

ENTERED BY: MR
CHECKED BY: MRBottom Depth: 2885Cast # down: 76Cast # up: 76

Time	LOC	UTC
Begin:		2358
Bottom:		0019
End:		0055

START POSITION (GPS)	
LAT:	52 19 99
LONG:	132 40 03

BOTTOM POSITION (GPS)	
LAT:	52 19 97
LONG:	132 39 95

END POSITION (GPS)	
LAT:	52 19 96
LONG:	132 39 95

Comments:

ROSETTE LOG

MISSION ID: 2000-01

UTC DATE y/m/d: 00/02/15

STATION NAME: HEDOS

CAST NUMBER: 86

SHIP: JOHN P TULLY

ENTERED BY: MR

CHECKED BY: _____

Bottom Depth: 310

Cast # down:	86
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Cast # up: 86

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

Begin: 1932

Bottom: 1959

End: 2036

START POSITION (GPS)

LAT: 52.20.02

LONG: 134 40 04

BOTTOM POSITION (GPS)

LAT: 52 20 10

LONG: 134 40 01

[illegible]

LAT: 52 20 02

LONG: 134 40.08

[illegible]

Comments:

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: HEDOLUTC DATE y/m/d: 00/02/16
CAST NUMBER: 90SHIP: J.P. Tully

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO		ph			
1	191	*	No Spill	1500		✓		/	/	/		✓	/	✓			*	Did not trip
2	192	1130	0.420	1250		✓		/	/	/		✓	✓					
3	193	1134	0.352	1000		✓		/	/	/								
4	194	1135	0.409	800		✓		/	/	/				✓				
5	195	1136	0.658	600		✓		/	/	/								
6	196	1137	1.596	400		✓		/	/	/								
7	197	1138	2.172	300		✓		/	/	/				✓				
8	198	1141	2.898	200		✓		/	/	/								
9	199	1142	4.877	150		✓		/	/	/								
10	200	1146	7.026	100		✓		/	/	/				✓				
11	201	1148	7.091	75				/	/	/					✓			
12	202	1153	6.698	50				/	/	/				✓				
13	203	1158	6.712	25				/	/	/				✓	✓			
14	204	1171	6.710	10				/	/	/				✓	✓			
15	205	1174	6.794	0				/	/	/		✓	✓	✓	✓			
16								/	/	/								
17								/	/	/								
18								/	/	/								
19								/	/	/								
20								/	/	/								
21								/	/	/								
22								/	/	/								
23								/	/	/								
24								/	/	/								

Comments: C13: 00PS! Taken from 1250 m.ENTERED BY: DA
CHECKED BY: MRBottom Depth: 2767Cast # down: 90Cast # up: 90

Time	LOC	UTC
Begin:		0253
Bottom:		0317
End:		0406

START POSITION (GPS)	
LAT:	52° 19.83
LONG:	133° 40.18

BOTTOM POSITION (GPS)	
LAT:	52° 19.83
LONG:	133° 40.17

END POSITION (GPS)	
LAT:	52° 19.91
LONG:	133° 40.16

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: Ri 1UTC DATE y/m/d: 00/02/17
CAST NUMBER: 93SHIP: JOHN P TULLY

Niskin No.	Sample No.	OXY. Flask	OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken											
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
								OXY		CHL		C13						
1	206	1129	2.088	Bottom	326	✓	✓	✓	✓									
2	207	1174	1.995	300		✓												
3	208	1130	2.021	250		✓												
4	209	1134	2.320	200		✓												
5	210	1135	2.910	175		✓												
6	211	1136	3.779	150		✓												
7	212	1137	4.910	125		✓												
8	213	1138	5.758	100		✓												
9	214	1141	6.141	75		✓												
10	215	1142	6.492	50		✓												
11	216	1146	6.597	30		✓												
12	217	1148	6.487	20		✓												
13	218	1153	6.660	10		✓												
14	219	1158	7.235	0			✓	✓	✓									
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

* COLORIMETER @ 101.5 %

ENTERED BY: MR
CHECKED BY: MRBottom Depth: 334Cast # down: 93Cast # up: 93

Time	LOC	UTC
Begin:		1625
Bottom:		1631
End:		1651

START POSITION (GPS)		
LAT:	51° 26.35'	
LONG:	127° 38.06'	

BOTTOM POSITION (GPS)		
LAT:	51° 26.41'	
LONG:	127° 38.05'	

END POSITION (GPS)		
LAT:	51° 26.52'	
LONG:	127° 38.04'	

ROSETTE LOG

MISSION ID: 2000-01

UTC DATE y/m/d: 00/02/17

SHIP: JOHN P. TULLY

STATION NAME: R: 4

CAST NUMBER: 96

Niskin No.	Sample No.	OXY. Flask	m/l OXY. Temp.	Sample Depth	ROSETTE OPERATION		Samples taken										DMS	
					Trip pressure	Confirmed Salinity	SAL		NUT		ALK		TCO					
1	220	84	2.078	Bottom	293	✓												
2	221	255	2.086	250														
3	222	337	2.583	200														
4	223	364	2.366	175														
5	224	392	2.912	150														
6	225	443	3.573	125														
7	226	486	4.922	100														
8	227	534	6.082	75														
9	228	535	6.145	50														
10	229	572	6.242	30														
11	230	588	6.190	20														
12	231	632	5.728	10														
13	232	641	6.092	0														
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

ENTERED BY: MR

CHECKED BY: DA

Bottom Depth: 302

Cast # down: 96

Cast # up: 96

Time LOC UTC

Begin: 1946

Bottom: 1952

End: 2006

START POSITION (GPS)

LAT: 51° 38' 01"

LONG: 127° 26' 68"

BOTTOM POSITION (GPS)

LAT: 51° 38' 92"

LONG: 127° 26' 68"

END POSITION (GPS)

LAT: 51° 38' 94"

LONG: 127° 26' 69"

ROSETTE LOG

MISSION ID: 2000-01
STATION NAME: SM4UTC DATE y/m/d: 00/02/18
CAST NUMBER: 98SHIP: JOHN P TULLYNiskin Sample OXY.
No. No. FlaskOXY.
Temp.Sample
DepthROSETTE OPERATION
Trip Confirmed
pressure SalinitySamples taken
SAL NUT ALK TCO
OXY CHL C13

DMS

ENTERED BY: MRCHECKED BY: MRBottom Depth: 186Cast # down: 98Cast # up: 98

Time LOC UTC

Begin: 0248Bottom: 0253End: 0306

START POSITION (GPS)

LAT: 51°24.55LONG: 127°09.07

BOTTOM POSITION (GPS)

LAT: 51°21.55LONG: 127°09.06

END POSITION (GPS)

LAT: 51°21.57LONG: 127°09.06

Comments: