

Rosette 1: 23 bottle

CRUISE NO: 95-07

UTC DATE: 28/4/95

VESSEL: John P. Tully

STATION NO: D12A

HYDRO No.: 3

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12										
11										
10	10	1143	9.1	0	0	✓	31.283			
9	9	1142	9.0	10	10	✓	31.488			
8	8	1141	8.9	20	20	✓	31.784			
7	7	1140	8.8	30	30	✓	31.956			
6	6	1139	8.53	50	50	✓	32.411		1	.719
5	5	1138	8.0	75	75	✓	33.348		2	.722
4	4	1137	7.5	100	100	✓	33.684	an bubble	3	.721
3	3	1136	7.64	125	126	✓	33.906		1	.716
2	2	1135	7.5	150	150	✓	33.921		1	.719
1	1	1134	7.6	B-20	158	✓	33.921			
									V ₂	.721

ENTERED BY: Bm
CHECKED BY:Bottom Depth: 172
Cast No: 2 down
3 up

	LOC	UTC
Begin:		0214
Bottom:		0219
End:		0235

BEGIN POSITION (GPS)
LAT: 4815.21
LONG: 12344.97BOTTOM POSITION (GPS)
LAT: 4815.21
LONG: 12344.91END POSITION (GPS)
LAT: 4815.39
LONG: 12345.03Comments
11 bottles closed.

Rosette 1: 23 bottle

CRUISE NO: 9507

UTC DATE: 28/4/95

VESSEL: John P. Tully

STATION NO: D14A

HYDRO No.: 6.

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12	22	1157	9.6							
11	21	1156	9.8		0	X 2nd bottle conf	31.437			
10	20	1155	9.6		10	✓	31.529			
9	19	1154	8.9		20	✓	31.679			
8	18	1153	9.1		30	✓	31.929			
7	17	1152	8.8		50	✓	32.431			
6	16	1151	8.8		76	✓	33.106			
5	15	1150	8.8		100	✓	33.389			
4	14	1149	8.6		125	✓	33.861			
3	13	1148	8.2		150	X 2nd bottle conf	34.034			
2	12	1146	8.0	175	176	✓	34.037			
1	11	1145	8.8	B-20	186	✓	34.037			

ENTERED BY: <i>dy</i>
CHECKED BY:

Bottom Depth: 203
Cast No: 5 down 6 up

	LOC	UTC
Begin:	2159	0459
Bottom:	2205	0505
End:	2225	0525

BEGIN POSITION (GPS)
LAT: 48 21.89
LONG: 124 15.29

BOTTOM POSITION (GPS)
LAT: 48 21.85
LONG: 124 15.38

END POSITION (GPS)
LAT: 48 21.69
LONG: 124 15.41

Comments
100 - 90 min
175 - 90 min

Rosette 1: 23 bottle

CRUISE NO: 9507

UTC DATE: 28/4/95

VESSEL: John P. Tully

STATION NO: 6-T-2

HYDRO No.: 9

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20							<TD	Bottle		
19										
18	40	1152	10.6	0	14	✓	31.846	31.6878		
17	39	1151	10.0	10	10	✓	32.170	32.0568		
16	38	1150	9.0	20	19	✓	32.667	32.4728		
15	37	1149	8.8	30	30	✓	32.665	32.4866		
14	36	1148	8.8	50	50	X✓	32.671	32.4924		
13	35	1146	8.6	75	76	✓	32.727	32.5536		
12	34	1145	8.2	100	101	✓	33.145	32.9574		
11	33	1144	7.9	125	125	✓	33.850	33.6514		
10	32	1143	7.5	150	151	✓	33.981	33.7943		
9	31	1142	7.0	175	176	✓	34.064	33.8696		
8	30	1141	6.6	200	201	✓	34.100	33.9071		
7	29	1140	6.4	250	251	✓	34.119	33.9248		
6	28	1139	6.2	300	300	✓	34.152	33.9536		
5	27	1138	5.7	400	401	✓	34.210	34.0137		
4	26	1137	5.6	400	401	✓	34.210	34.0141		
3	25	1136	5.5	400	400	✓	34.210	34.0128		
2	24	1135	5.50	500	500	✓	34.326	34.1252		
1	23	1134	5.6	B-20	533	✓	34.358	34.1643		

ENTERED BY: BTM
CHECKED BY:

Bottom Depth:

Cast No: 8 down
9 up

	LOC	UTC
Begin:		2328
Bottom:		2338
End:		0004

BEGIN POSITION (GPS)
LAT: 49 38.73
LONG: 127 38.26BOTTOM POSITION (GPS)
LAT: 49 38.66
LONG: 127 38.16END POSITION (GPS)
LAT: 49 38.30
LONG: 127 37.85Comments
18 bottles closed.
02, Sal,

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

29 Apr 95

VESSEL: John P. Tully

STATION NO:

LBP1

HYDRO No.:

use #15 (11412 have no salinity)

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19									#15	
18									0507	
17										
16									0510	
15										
14										
13									5004.84	
12									12752.87	
11								salinity from #15		
10								↓		
9										
8										
7										
6	46	1139	11.7	0	0	✓	30534			
5	45	1138	11.3	10	10	✓	30904			
4	44	1137	10.6	20	20	✓	31293			
3	43	1136	10.6	30	30	X No	31787			
2	42	1135	9.8	48	48	X No	32123			
1	41	1134	10.0	48	48	✓ 2nd NOT either	32123			

ENTERED BY: BY

CHECKED BY:

Bottom Depth: 54 m

Cast No: 10 down 15
11 up

	LOC	UTC
Begin:	2027	0327
Bottom:	2028	0328
End:	2037	0337

BEGIN POSITION (GPS)	
LAT:	50 04.77
LONG:	127 52.89

BOTTOM POSITION (GPS)	
LAT:	50 04.76
LONG:	127 52.90

END POSITION (GPS)	
LAT:	50 04.75
LONG:	127 52.96

Comments
bottles tipped but said not corol
-CTD associated with this
cast is no good (sal)

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

29 Apr 95

VESSEL: John P. Tully

STATION NO:

LBP2

HYDRO No.:

use #16.

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										05 24
17										
16										05 26
15										
14										
13										50 04.09
12										127 54.43
11										
10										
9										
8										
7	53	1146	11.8	0	0	✓	30876			
6	52	1145	11.0	10	10	X	31100			
5	51	1144	10.4	20	19	X	31436			
4	50	1143	10.4	30	30	✓	31934			
3	49	1142	10.0	50	49	✓	32334			
2	48	1141	9.2	75	75	X	32634			
1	47	1140	9.0	93	93	X	33007			can bottle near end point 121

ENTERED BY:

py

CHECKED BY:

Bottom Depth:

97

Cast No: 12 down 16
13 up

LOC

UTC

Begin: 2101 0401

Bottom: 2104 0404

End: 2118 0418

BEGIN POSITION (GPS)

LAT: 50 04.00

LONG: 127 54.11

BOTTOM POSITION (GPS)

LAT: 50 04.01

LONG: 127 54.15

END POSITION (GPS)

LAT: 50 04.09

LONG: 127 54.26

Comments

-CTD associated is junk (salinity good)

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

29 Apr 95

VESSEL: John P. Tully

STATION NO:

LBP4

HYDRO No.:

18

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18	71	2014	10.9	0	.9	✓	31.253			
17	70	2013	10.1	10	12	✓	31.835			
16	69	2012	10.1	20	17	✓	32.004			
15	68	2010	9.4	30	30	✓	32.559			
14	67	2009	8.6	50	49	✓	32.676			
13	66	2008	8.8	75	74	✓	33.291			
12	65	2007	8.8	100	100	✓	33.576			
11	64	2004	8.0	125	123	✓	33.657			
10	63	2002	7.9	150	150	✓	33.948			
9	62	2001	7.8	175	175	✓	34.062			
8	61	2000	7.4	200	200	✓	34.080			
7	60	1173	7.2	250	250	✓	34.118			
6	59	1172	6.4	300	302	✓	34.135			
5	58	1171	6.0	400	402	✓	34.201			
4	57	1169	6.3	500	500	✓	34.292			
3	56	1168	5.5	600	598	✓	34.363			
2	55	1167	5.1	800	798	X current good	34.497			
1	54	1166	5.0	1000	1000	X current good	34.576			

ENTERED BY: DV

CHECKED BY:

Bottom Depth: 985

Cast No: 17 down
18 up

LOC UTC

Begin: 2302 0602

Bottom: 0625

End: 0003 0703

BEGIN POSITION (GPS)

LAT: 50 01.42

LONG: 127 58.19

BOTTOM POSITION (GPS)

LAT: 50 01.53

LONG: 127 58.56

END POSITION (GPS)

LAT: 50 01.54

LONG: 127 59.21

Comments

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

95 04 29

VESSEL: John P. Tully

STATION NO:

LBP6

HYDRO No.:

22

[illegible]

ENTERED BY:
CHECKED BY:

Bottom Depth:
Cast No: 21
22

	LOC	UTC
Begin:		0959
Bottom:		1015
End:		1045

BEGIN POSITION (GPS)
LAT: 4956.24
LONG: 12805.37

BOTTOM POSITION (GPS)
LAT: 4956.02
LONG: 12805.15

END POSITION (GPS)
LAT: 49.55.72
LONG: 128 04.94

	Comments
17	bottles closed
8 + 14	hung up

Rosette 1: 23 bottle

CRUISE NO: 9507
STATION NO: LBP7

UTC DATE: 29/4/95
HYDRO No.: 24

VESSEL: John P. Tully

[illegible]

ENTERED BY:
CHECKED BY:

Bottom Depth:
Cast No: 23 down
24 up

	LOC	UTC
Begin:		1144
Bottom:		1215
End:		1255

BEGIN POSITION (GPS)
LAT: 4952.40
LONG: 12811.32

BOTTOM POSITION (GPS)
LAT: 4952.43
LONG: 12811.42

END POSITION (GPS)
LAT: 4952.55
LONG: 12811.50

Comments
calibrator bottle for CTD and water for sediment trap

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

29/4/95

VESSEL: John P. Tully

STATION NO:

"0"

HYDRO No.:

26.

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15				0	0	✓ not				
14				10	10.	✓ not				
13				20	21	✓ ✓				
12				30	31	✓ not				
11				50	50	✓ not				
10				75	75.	✓ ✓				
9				100	100.	✓ not				
8				125	125	✓ not				
7				150	151	✓ not				
6				175	175	✓ not				
5				200	200	✓ not				
4				250	250	✓ not	T577	6.203		
3				300	302	✓ not				
2				400	400	✓ ✓				
1				500	502	✓ not				

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast No: 25 down
26 up

LOC UTC

Begin: 2343

Bottom: 29/4/95 2351

End: 30/4/95 0016

BEGIN POSITION (GPS)

LAT: 4907.26

LONG: 12744.03

BOTTOM POSITION (GPS)

LAT: 4907.12

LONG: 12744.00

END POSITION (GPS)

LAT: 4906.99

LONG: 1274382

Comments

15 bottles closed.

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

30/04/95

VESSEL: John P. Tully

STATION NO:

LJ01

HYDRO No.:

28

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION			THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)		Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23											
22											
21											
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6	73	1097	11.4	0	0	X	.7	30594			
5	76	1096	10.2	10	10	X	11	31.254			
4	75	1095	10.1	20	20	X	21	31.607			
3	74	1092	10.3	30	30	X	31	31.789			
2	73	1090	10.0	50	50	X	51	32.585			
1	72	1087	10.0	55	56	X	57	32.657			

ENTERED BY: RB/DY

CHECKED BY:

Bottom Depth: 59

Cast No: 027 down
028 up

LOC UTC

Begin: 2159 0459

Bottom: 2200 0502

End: 2210 0510

BEGIN POSITION (GPS)

LAT: 49 44 43

LONG: 127 02.55

BOTTOM POSITION (GPS)

LAT: 49 44.46

LONG: 127 02.58

END POSITION (GPS)

LAT: 49 44.52

LONG: 127 02.64

Comments

Rosette 1: 23 bottle

CRUISE NO: 9507
STATION NO: LJ02

UTC DATE: 30/4/94
HYDRO No.: 30

VESSEL: John P. Tully

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION			THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)		Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23											
22											
21											
20											
19											
18											
17											
16											
15											
14											
13											
12											
11											
10											
9											
8											
7											
6	83	1105	11.7	0	0	X	.2	30.707			
5	82	1104	11.2	10	10	X	10.	31.696			
4	81	1103	10.6	20	20	X		31.906			
3	80	1102	10.1	30	30	X		32.265			
2	79	1101	9.9	50	50	X		32.598			
1	78	1100	9.4	75	76	X		32.785			

ENTERED BY: BT

CHECKED BY:

Bottom Depth: 81

Cast No: 29 down
30 up

	LOC	UTC
Begin:	2241	0541
Bottom:	2247	0543
End:		0552

BEGIN POSITION (GPS)

LAT: 49 42.64

LONG: 127 05.14

BOTTOM POSITION (GPS)

LAT: 49 42.75

LONG: 127 05.21

END POSITION (GPS)

LAT: 49 42.86

LONG: 127 05.27

Comments

Rosette 1: 23 bottle

CRUISE NO:

95-07

UTC DATE:

30/4/95

VESSEL: John P. Tully

STATION NO:

LJ 04

HYDRO No.:

33

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23					Note	After pickelning on O ₂ stopper had lifted the flask, pushed back down be affected			very tight spring stopper out of the but sample may	
22										
21										
20										
19										
18								SL		
17										
16										
15										
14										
13										
12							CTD	Bottle		
11										
10	55	1121	11.7	0	0 -3	NCONF.	31.216	31.0474	50m dup	
9	54	1120	10.7	10	10	NO CONF	31.622	31.3719		
8	53	1119	9.6	20	20	NO CONF	32.132	31.9710	samples taken &	
7	52	1114	9.5	30	30	NO CONF	32.431	32.2488	confirm	
6	51	1113	9.2	50	50	NO CONF	32.738	32.5586		
5	50	1111	9.3	50	75	NO CONF	32.738	33.1524	file confirms 2 try	
4	49	1110	8.0	75	100	NO CONF	33.347	33.4846	at 50m.	
3	48	1109	7.6	100	125	NO CONF	33.669	33.8084		
2	47	1108	7.2	125	152	NO CONF	33.997	33.8478		
1	46	1106	7.2	150	152	NOCONF	34.040	33.8476		

ENTERED BY:

CHECKED BY:

Bottom Depth: 160

Cast No: 32
33

LOC UTC

Begin: 0730

Bottom: 0734

End: 0748

BEGIN POSITION (GPS)

LAT: 49 35.52

LONG: 127 16.79

BOTTOM POSITION (GPS)

LAT: 49 35.61

LONG: 127 16.62

END POSITION (GPS)

LAT: 49 35.77

LONG: 127 16.58

Comments

Rosette 1: 23 bottle

CRUISE NO:

UTC DATE: 30 APRIL 95

VESSEL: John P. Tully

STATION NO:

HYDRO No.: 32

[illegible]

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast No:

LOC

UTC

Begin:

1012

Bottom:

1034

End:

1114

BEGIN POSITION (GPS)

LAT: 4927.89

LONG: 127 28 47

BOTTOM POSITION (GPS)

LAT: 4928.11

LONG: 12728 30

END POSITION (GPS)

LAT: 4928,40

LONG: 12728.16

Comments

19 fired
#8 bottle not released

* THERMOMETER

Rosette 1: 23 bottle

CRUISE NO:

STATION NO:

UTC DATE:

HYDRO No.:

VESSEL: John P. Tully

[illegible]

ENTERED BY: *Bm*

CHECKED BY:

Bottom Depth:

Cast No: 40 down

41

LOC

UTC

Begin:

Bottom:

End:

BEGIN POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments

Date	Time	Location	Remarks	Comments
15	bottles	fired	large and small in	bottle #4.

Rosette 1: 23 bottle

CRUISE NO: 9507

UTC DATE: 1/5/95

VESSEL: John P. Tully

STATION NO: L406

HYDRO No.: 46

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18		1151	10.4	0	14	✓	31.112			
17		1150	10.4	10	10.	✓	31.332			
16		1149	9.7	20	21.	✓	32.189			
15		1148	9.5	30	31.	✓	32.455			
14		1146	9.5	50	50	✓	32.683			
13		1145	8.6	75	75.	✓	32.767			
12		1144	8.3	100	100.	✓	33.328			
11		1143	7.9	125	125.	✓	33.812			
10		1142	7.5	150	142	✓	33.983			
9		1141	7.0	175	175	✓ 2?	34.044			
8		1140	6.8	200	200.	✓	34.078			
7		1139	6.2	250	248	✓	34.116			
6		1138	5.8	300	299	✓	34.146			
5		1137	5.6	400	400	✓	34.201			
4		1136	5.3	500	458	✓	34.280		T577	4.657
3		1135	5.5	600	599	✓	34.360			(4.684)
2		1134	4.8	800	801	✓	34.490			
1				800 - 20	992	✓	34.575			

ENTERED BY:

CHECKED BY:

Bottom Depth: 1005

Cast No: 45 down
46 up

LOC UTC

Begin: 1052

Bottom: 1107

End: 1138

BEGIN POSITION (GPS)

LAT: 4903.65

LONG: 12701.47

BOTTOM POSITION (GPS)

LAT: 4903.70

LONG: 12701.32

END POSITION (GPS)

LAT: 4903.67

LONG: 12701.34

Comments

18 bottles closed
cable caught on bottle 1.

Rosette 1: 23 bottle

CRUISE NO: 9507
STATION NO: LG04

UTC DATE: 1/5/95
HYDRO No.: 50

VESSEL: John P. Tully

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12							Bottle	CTO		
11										
10										
9		1161	11	0	18	X✓		31.618		
8		1160	11	10	10.	✓		32.000		
7		1158	11	20	20.	✓		32.291		
6		1157	108	30	30.	✓	31.4296	32.423		
5		1156	10.1	50	50.	✓	31.8562	32.606		
4		1155	9.7	75	74.	✓	32.1171	32.712	T577	9.626
3		1154	9.7	100	100	✓	32.1179	33.420		(9.653)
2		1153	7.5	125	126	✓	33.7979	33.985		
1		1152	7.7	B-20	130	✓	33.8200	34.038		

ENTERED BY: RM
CHECKED BY:

Bottom Depth: 144
Cast No: 49
50 mg

LOC	UTC
Begin:	1325
Bottom:	1328
End:	1341

BEGIN POSITION (GPS)
LAT: 4911.31
LONG: 12649.37

BOTTOM POSITION (GPS)
LAT: 4911.26
LONG: 12649.37

END POSITION (GPS)
LAT: 4911.24
LONG: 12649.17

Comments
6 bottles closed

Rosette 1: 23 bottle

CRUISE NO: 9507
STATION NO: LG02

UTC DATE: 1/5/95
HYDRO No.: 54

VESSEL: John P. Tully

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12										
11							CTD			
10										
9										
8										
7	7	1100	11.7	0	0.3	30.617	30.6098			
6	6	1097	11.5	10	10.	31.897	31.8757			
5	5	1096	10.7	20	20	32.015	32.0965			
4	4	1095	10.1	30	30	32.245	32.2382			
3	3	1092	9.9	50	50	32.541	32.5393			
2	2	1090	9.7	75	74	32.839	32.8387			
1	1	1087	9.6	95	95	33.442	33.2969			

ENTERED BY: A.P.
CHECKED BY:

Bottom Depth: 99
Cast No: 53 down
54 up

LOC	UTC
Begin:	1743
Bottom:	1746
End:	1756

BEGIN POSITION (GPS)
LAT: 4918.73
LONG: 12638.35

BOTTOM POSITION (GPS)
LAT: 4918.77
LONG: 12638.40

END POSITION (GPS)
LAT: 4918.88
LONG: 12638.48

Comments

large air bubble in flask
large air bubble
low %T, air bubble in vent.

Rosette 1: 23 bottle

CRUISE NO: 9507

UTC DATE: 1/5/95

VESSEL: John P. Tully

STATION NO: 2601

HYDRO No.: 56

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12										
11										
10										
9										
8							CTD			
7										
6										
5	5	1105	11.3	0	0		30.5972			air bubble in flask
4	4	1104	10.4	10	10		31.3300			
3	3	1103	10.1	20	20		32.1211			air bubble in flask.
2	2	1102	10.1	30	30		32.2407			
1	1	1101	9.6	50	50		32.8209			

ENTERED BY: AP
CHECKED BY:Bottom Depth: 55
Cast No: 55 down
56 up

	LOC	UTC
Begin:		1825
Bottom:		1827
End:		1834

BEGIN POSITION (GPS)
LAT: 4920.41
LONG: 12635.04BOTTOM POSITION (GPS)
LAT: 4920.42
LONG: 12635.04END POSITION (GPS)
LAT: 4920.43
LONG: 12635.09Comments
TS27 1/2 .02689
slope .999969

Rosette 2: 12 bottle

CRUISE NO: 9507

UTC DATE: 2/5/95

VESSEL: John P. Tully

STATION NO: 4801

HYDRO No.: 58

[illegible]

ENTERED BY: A Pena

CHECKED BY:

Bottom Depth:

Cast No: 58 down
59 up.

LOC	UTC
1000	0800
1100	0900
1200	1000
1300	1100
1400	1200
1500	1300
1600	1400
1700	1500
1800	1600
1900	1700
2000	1800
2100	1900
2200	2000
2300	2100
2400	2200
0100	2300
0200	2400
0300	0100
0400	0200
0500	0300
0600	0400
0700	0500
0800	0600
0900	0700
1000	0800

Begin: 0500

Bottom: 0501

End: 0505

BEGIN POSITION (GPS)

LAT: 49 00.04

LONG: 12543.90

Rosette 2: 12 bottle

CRUISE NO: 9507

UTC DATE: 2/15/95

VESSEL: John P. Tully

STATION NO: LD02

HYDRO No.: 61

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
11										
10										
9										
8										
7										
6										
5		1142	12.0	0	-3		30.551			
4		1141	10.7	10	10		30.698			
3		1140	10.2	20	21		31.228			
2		1139	10.3	30	29		31.720			
1		1138	10.4	40	39		32.268			

ENTERED BY: A P
CHECKED BY:

Bottom Depth: 45
Cast No: 60 down
61 up

LOC	UTC
Begin:	0535
Bottom:	0537
End:	0541

BEGIN POSITION (GPS)
LAT: 4858.14
LONG: 12546.99

Rosette 2: 12 bottle

CRUISE NO: 9507

UTC DATE: 2/15/95

VESSEL: John P. Tully

STATION NO: 4004

HYDRO No.: 63

[illegible]

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast No:

LOC

UTC

Begin:

0709

Bottom:

0211

End:

0219

BEGIN POSITION (GPS)

LAT: 4853.01

LONG: 12556.75

Rosette 2: 12 bottle

CRUISE NO: 9507

UTC DATE: 95 05 02

VESSEL: John P. Tully

STATION NO: LD 66

HYDRO No.: 67

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
11										
10										
9		1160	10.9	0	-1.			31.474		
8		1158	10.4	10	11.			31.816		
7		1157	9.9	20	21			32.304		
6		1156	9.6	30	31.			32.402		
5		1155	9.4	50	51.			32.504		
4		1154	9.3	75	75			32.974		
3		1153	8.9	100	101.			33.504		
2		1152	7.8	125	126			33.811		
1		1151	7.9	Bottom + 5	134			33.854		

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast No: 66

67

	LOC	UTC
Begin:		0927
Bottom:		0931
End:		0939

BEGIN POSITION (GPS)

LAT: 4846.05

LONG: 12610.50

NO INDICATION CONFIRM SIGNAL BUT ALL BOTTLES FIRED OK
JL

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

2/5/95

VESSEL: John P. Tully

STATION NO:

L008

HYDRO No.:

70

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17	17	2013	10.5	0	-7		31.835			
16	16	2012	10.4	10	12		31.912			
15	15	2010	9.9	20	20		31.991			
14	14	2009	9.3	30	29		32.317			
13	13	2008	8.9	50	50		32.360			
12	12	2007	8.4	75	74		32.525			
11	11	2004	8.6	100	100		33.044	click		
10	10	2002	7.8	125	126		33.643	click		
9	9	2001	7.4	150	149		33.773			
8	8	2000	7.1	175	174		33.832	?		
7	7	1703	6.8	200	201		33.880	click		
6	6	1172	6.3	250	250	x	33.919	?		
5	5	1171	5.9	300	302	✓	33.941			
4	4	1169	5.5	400	398	x	34.029	not seen bottle freed.	5.057	TS77
3	3	1168	5.4	500	500	x	34.090		(5.084)	
2	2	1167	5.3	600	602	x	34.180			
1	1	1166	5.3	B-20	773	✓	34.239			

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast No: 67

70

LOC

UTC

Begin:

1157

Bottom:

1210

End:

1236

BEGIN POSITION (GPS)

LAT: 48 39.22

LONG: 126 23.38

BOTTOM POSITION (GPS)

LAT: 48 39.01

LONG: 126 23.38

END POSITION (GPS)

LAT: 48 38.84

LONG: 126 23.23

Comments

17 bottles closed.

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

3/5/95

VESSEL: John P. Tully

STATION NO:

LC11

HYDRO No.:

76

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20		1119	10.9	0	-0.7		31.104			
19	298.74	1114	10.1	10	9		31.927	128.89	1.063	check end point
18		1113	10.1	20	21		32.355			
17		1111	9.8	30	30		32.449			
16		1110	9.5	50	49		32.522			
15		1109	9.2	75	76		32.582			
14	197.10	1108	8.6	100	99		33.255	127.06	7.09	low 7.0T and bubble
13		1106	7.8	125	125		33.583			
12		1105	7.4	150	150		33.716			
11		1104	7.2	175	175		33.832			
10		1103	7.0	200	199		33.877			
9		1102	6.5	250	250		33.923			
8		1101	5.9	300	299		33.928			
7		1100	5.4	400	401		33.997			
6		1097	4.9	500	500		34.069			
5		1096	4.6	600	600		34.161			
4		1095	4.1	800	799		34.299	(3.840)	3.813	7577
3		1092	3.7	1000	999		34.377			
2		1090	3.3	1200	1201		34.448			
1		✓1087	2.8	B-20	1536		34.510			

ENTERED BY:

CHECKED BY:

Bottom Depth: 1430.

Cast No: 75 down
76 up

LOC UTC

Begin: 0050

Bottom: 0112

End: 0146

BEGIN POSITION (GPS)

LAT: 4818.79

LONG: 12626.53

BOTTOM POSITION (GPS)

LAT: 4818.59

LONG: 12626.76

END POSITION (GPS)

LAT: 4818.41

LONG: 12627.10

Comments

25m off bottom
20 bottles closed.

P.11

Rosette 1: 23 bottle

CRUISE NO: 9507

UTC DATE: 3/5/95

VESSEL: John P. Tully

STATION NO: LC09

HYDRO No.: 79

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16		1139	11.0	0	-1.6		31.214			
15		1138	11.0	10	10		31.349			
14		1137	10.5	20	21		32.109			
13		1136	9.9	30	31		32.393			
12		1135	9.8	50	51		32.524			
11		1134	9.5	75	74		32.703			
10		1133	8.8	100	101		33.273			
9		1132	8.4	125	126		33.587			
8		1130	7.7	150	151		33.815			
7		1129	7.2	175	175		33.880			
6		1128	7.0	200	201		33.917			
5		1126	6.4	250	250		33.960			
4		1125	6.4	300	300		33.975			
3		1122	5.9	400	399		34.037			
2		1121	5.7	500	501		34.084			
1	X	1120	5.7	B-20	571		34.126			

ENTERED BY: AP
CHECKED BY:

Bottom Depth: 589

Cast No: 78 down
79 up

	LOC	UTC
Begin:		0356
Bottom:		0408
End:		0430

BEGIN POSITION (GPS)
LAT: 4825.87
LONG: 12613.37BOTTOM POSITION (GPS)
LAT: 4825.87
LONG: 12613.37END POSITION (GPS)
LAT: 4825.86
LONG: 12612.97

Comments

check for correct Temp/sd.

8m

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

3 May 95

VESSEL: John P. Tully

STATION NO:

LC08

HYDRO No.:

81

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12										
11		1151	11.5	0	-1.2		31.369			
10		1150	11.2	10	10		31.380			
9		1149	10.7	20	21		31.922			
8		1148	10.7	30	30		32.118			
7		1146	10.2	50	51		32.536			
6	*	1145	9.4	75	75		32.628			
5		1144	9.0	100	101		33.276			
4		1143	8.2	125	125		33.732			
3		1142	7.4	150	151		33.931			
2		1141	7.3	175	175		33.937			
1	X	1140	7.1	190	190		33.938			

ENTERED BY: *dy*
CHECKED BY:

Bottom Depth: 196

Cast No: 80 down
81 upcast

	LOC	UTC
Begin:	2239	0539
Bottom:		0543
End:		0554

BEGIN POSITION (GPS)
LAT: 48 29.54
LONG: 126 06.99

BOTTOM POSITION (GPS)
LAT: 48 29.54
LONG: 126 06.90

END POSITION (GPS)
LAT: 48 29.55
LONG: 126 06.61

Comments
* probably no good. RHO
MNCL2 dispenser inatic
possibly dispensing less
than 1.0 ml.

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

3 May 95

VESSEL: John P. Tully

STATION NO:

LC07

HYDRO No.:

83

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12										
11										
10										
9	9	1161	11.6	?	-8	31.123	Extra bottle to set of Salinity samples taken SC			
8	8	1160	10.7	0	-1 11	31.501				
7	7	1158	10.0	10	10 20	31.742				
6	6	1157	9.8	20	30	32.094				
5	5	1156	9.9	30	31 50	32.094				
4	4	1155	9.1	50	50 75	32.468				
3	3	1154	8.2	75	75 100	32.627				
2	2	1153	7.8	100	100 125	33.519				
1	1	1152	6.9	125	125	33.864				

ENTERED BY: AP

CHECKED BY:

Bottom Depth: 129

Cast No: 82 down

82. 4

LOC

UTC

Begin: 656

Bottom: 0659

End: 0707

BEGIN POSITION (GPS)

LAT: 48 33.04

LONG: 126 00.37

BOTTOM POSITION (GPS)

LAT: 48 33.03

LONG: 126 00.29

END POSITION (GPS)

LAT: 48 33.05

LONG: 126 00.14

Comments

13

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

3/5/95

STATION NO:

$L \subset \emptyset 4$

HYDRO No.:

87

VESSEL: John P. Tully

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12										
11										
10		2002	11.1	0	-1.3	30.572				
9		2001	10.8	10	11.	30.877				
8		2000	10.7	20	22.	31.427				
7		1173	10.6	30	30	31.604				
6		1172	10.7	50	51	32.187				
5		1171	9.6	75	75	32.497				
4		1169	10.9	100	102	32.533				
3		1168	9.5	125	125	32.594				
2		1167	9.7	150	151	32.683				
1		1166	9.9	155	155	32.685				

ENTERED BY: Tom Love

CHECKED BY:

Bottom Depth: 161.

Cast No:	86
	87

LOC UTC

Begin: 0948

Bottom: 6952

End: 1001

BEGIN POSITION (GPS)

LAT: 48 43.45

LONG: 12540.79

BOTTOM POSITION (GPS)

LAT: 4843.52

LONG: 12540.75

END POSITION (GPS)

LAT. 4843.48

LONG: 125 40.68

Comments

Rosette 2: 12 bottle

CRUISE NO: 9507
STATION NO: LC01

UTC DATE: 3/5/95
HYDRO No.: 91

VESSEL: John P. Tully

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
11										
10										
9										
8										
7		2013	10.1	0	0	30.888				
6		2012	9.7	10	10.	31.202				
5		2010	9.7	20	21	31.724				
4		2009	9.7	30	25	31.798	1.001	low %T	air bottle = 246.07	
3		2008	9.6	50	50	32.381				
2		2007	9.5	75	76	32.508	=22976	.933	check end point.	
1		2004	9.5	B-10	88	32.527				

ENTERED BY:
CHECKED BY:

Bottom Depth:
Cast No: 90 down
91 up

LOC	UTC
Begin:	1300
Bottom:	1303
End:	

BEGIN POSITION (GPS)
LAT: 4850.50
LONG: 12527.77

O₂ and nutrients.

Bm

Rosette 2: 12 bottle

CRUISE NO: 9507

UTC DATE: 3 May 195

VESSEL: John P. Tully

STATION NO: EFF1

HYDRO No.: 93

ENTERED BY: AP

CHECKED BY:

Bottom Depth: 117 m

Cast No: 92 down
93 up

	LOC	UTC
Begin:		
Bottom:		1609
End:		1617

BEGIN POSITION (GPS)

LAT: 49 04.11

LONG: 125 09.23

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
11										
10										
9		2028	9.7	0	-7			25.961		
8		2027	9.8	10	11			31.318		
7		2025	10.2	20	20			31.632		
6		2021	10.2	30	30			31.775		
5		2019	10.1	50	51			31.955		
4		2018	9.7	75	76			32.418		
3		2017	9.8	90	91			32.429		
2		2015	9.9	100	101			32.434		
1		2014	10.1	115	116			32.443		

Bm

Rosette 2: 12 bottle

CRUISE NO: 9507

UTC DATE: 3 May 95

VESSEL: John P. Tully

STATION NO: EFF 2

HYDRO No.: 45

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
11		1100	11.2	0	-27		24.837			
10		1097	9.1	10	10		31.454			
9		1096	9.2	20	20		31.604			
8		1095	9.3	30	30		31.895			
7		1092	9.5	50	50		32.060	low % T air bubble (bad end point)		
6		1090	9.3	75	76		32.175			
5		1087	8.8	100	101		32.527			
4		2035	8.6	125	125		32.610			
3		2034	8.6	150	151		32.630			
2		2033	8.6	175	175		32.644			
1		2032	8.6	200	200		32.658			

ENTERED BY: AP
CHECKED BY:

Bottom Depth: 203

Cast No: 94 down
95 up

LOC	UTC
Begin:	
Bottom:	1647
End:	1657

BEGIN POSITION (GPS)
LAT: 4902.55
LONG: 12509.18

BM

Rosette 2: 12 bottle

CRUISE NO: 9507

UTC DATE: 3 May 95

VESSEL: John P. Tully

STATION NO: EFF3

HYDRO No.: 97

NISK. SAMPLE OXY. OXY. Sample
No. No. Flask TEMP Depth
db

ROSETTE OPERATION
Trip Trip
Depth (db) Confirmed
THERMOMETER 1 THERMOMETER 2
SERIAL Temp (oC) SERIAL Temp (oC)

ENTERED BY: AP
CHECKED BY:

Bottom Depth: 99

Cast No: 96 down
97 up

LOC UTC

Begin:

Bottom: 1734

End: 1740

BEGIN POSITION (GPS)

LAT: 48 59.82

LONG: 125 11.22

11										
10										
9										
8										
7		1108	12.0	0	- .4	26.992				
6		1106	9.3	10	10	31.333				
5		1105	9.5	20	21.	31.607				
4		1104	9.6	30	30	31.967				
3		1103	9.6	50	50	32.300				
2		1102	9.6	75	75	32.412				
1		1101	9.6	95	94	32.429				

15/11

Rosette 2: 12 bottle

CRUISE NO:

UTC DATE: 4/5/95

VESSEL: John P. Tully

STATION NO: LB01

HYDRO No.: 98

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
11										
10										
9										
8										
7										
6										
5		1138	11.4	0	0 - 1.	31.277				
4		1137	10.7	10	10	31.328				
3		1136	10.1	20	20	31.318				
2		1135	9.2	30	30	31.739				
1		1134	9.1	B-5	33	31.844				

ENTERED BY:
CHECKED BY:

Bottom Depth: 37,

Cast No: 98

99

	LOC	UTC
Begin:		0107
Bottom:		0109
End:		0113

BEGIN POSITION (GPS)

LAT: 4840.32

LONG: 12459.19

last cast with old chemicals

Rosette 2: 12 bottle

CRUISE NO: 9507

UTC DATE: 4/5/95

VESSEL: John P. Tully

STATION NO: LB02

HYDRO No.: 101

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
11										
10										
9										
8										
7		1146	108		-5		31.112			
6		1145	9.6	10	11		31.420			
5		1144	9.4	10	21		31.756			
4		1143	9.4	20	31		32.060			
3		1142	8.9	30	41		32.097			
2		1141	8.9	50	50		32.153			
1		1140	8.8	B-5	52		32.227			

ENTERED BY: BSM
CHECKED BY:

Bottom Depth: 56.

Cast No: 100 down

101 up

	LOC	UTC
Begin:		0138
Bottom:		0140
End:		0146

BEGIN POSITION (GPS)
LAT: 483899
LONG: 12502.41

O₂ and nutrients

Blank

1	.025	1	.717
3	.021	2	.699x
2	.005	3	.712
1	.004	3	.713
3	.007		
3			

2 .004

colorimeter unstable

Rosette 2: 12 bottle

CRUISE NO: 9507

UTC DATE: 4/5/95

VESSEL: John P. Tully

STATION NO: LB04

HYDRO No.: 104.

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
11										
10										
9										
8		11.2	1155	0	12			30.768		
7		10.5	1154	10	10			31.150		
6		10.2	1153	20	21			31.510		
5		9.8	1152	30	31			31.929		
4		9.5	1151	50	52			32.303		
3		8.4	1150	75	75			32.723		
2		7.9	1149	100	100			33.324		
1		7.7	1148	109	109			33.442		

ENTERED BY:

CHECKED BY:

Bottom Depth: 112.

Cast No: 103

104

LOC

UTC

Begin:

0241

Bottom:

0243

End:

0250

BEGIN POSITION (GPS)

LAT: 4835.65

LONG: 12508.77

Rosette 2: 12 bottle

CRUISE NO: 9507

UTC DATE: 4 May '95

VESSEL: John P. Tully

STATION NO: LB 06

HYDRO No.: 107

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
11										
10										
9										
8		1165	11.2	0	.2	30.921				
7		1164	10.4	10	10	31.130				
6		1163	9.5	20	20	31.439				
5		1161	9.5	30	31	31.690				
4		1160	9.7	50	50	32.355				
3		1158	9.0	75	76	32.697				
2		1157	8.2	100	101	33.319				
1		1156	8.2	110	110	33.334				

ENTERED BY: AP
CHECKED BY:

Bottom Depth: 113

Cast No: 106 down

107 up

	LOC	UTC
Begin:		0351
Bottom:		0354
End:		0400

BEGIN POSITION (GPS)
LAT: 48° 32.18' N
LONG: 125° 15.42' W

Rosette 1: 23 bottle

CRUISE NO:

UTC DATE:

VESSEL: John P. Tully

STATION NO:

HYDRO No.:

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12										
11										
10										
9		2001	11.4	0	0	30-860				
8		2000	9.9	10	10	31.348				
7		1173	9.6	20	20	31.546				
6		1172	9.4	30	30.8	31.652				
5		1171	9.3	50	50	32.110				
4		1169	9.6	75	75	32.673				
3		1168	9.4	100	102	33.098				
2		1167	7.9	125	125	33.710				
1		1166	10.9	BOTTOM	150	33.753				

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast No: 111

112

LOC

UTC

Begin:

0828

Bottom:

0832

End:

BEGIN POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 4825.30

LONG: 12528.73

END POSITION (GPS)

LAT.

LONG:

Comments

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

950504

VESSEL: John P. Tully

STATION NO:

LB09

HYDRO No.:

114

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21						ALL	bottles	Tripped		
20										
19						ALL	Confirms	OK		
18										
17										
16										
15										
14										
13										
12										
11										
10										
9	2014	11.5	0	1.0	31.297					large bubble in flask
8	2013	11.0	10	10	31.688					large bubble in flask
7	2012	10.2	20	20	32.075					
6	2010	10.2	30	30	32.263					
5	2009	9.8	50	50	32.407					large an bubble in flask
4	2008	9.2	75	75	32.938					
3	2007	8.5	100	101	33.431					
2	2004	7.5	125	125	33.747					
1	2002	7.5	Bottom	146	33.862					

ENTERED BY: SL

CHECKED BY: SL

Bottom Depth: 150

Cast No: 113
114

LOC

UTC

Begin: 0919

Bottom: 0923

End:

BEGIN POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 4822.11

LONG: 125 34.81

END POSITION (GPS)

LAT:

LONG:

Comments

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

May 4th

VESSEL: John P. Tully

STATION NO:

LB 11

HYDRO No.:

118

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12	2035			0						
11	2034	11.4		10	1.	31.578				
10	2033	10.9		20	11.	31.770				
9	2032	10.1		30	21.	32.286				
8	2028	9.6		50	31.	32.460				
7	2027	9.1		75	49	32.561				
6	2025	8.8		100	76	32.813				
5	2021	8.3		125	100	33.402				
4	2019	7.4		150	125	33.800				
3	2018	6.8		175	151	33.868				
2	2017	6.6		200	175	33.903				
1	2015	6.6		Bottom	195	33.913				

ENTERED BY:

CHECKED BY:

Bottom Depth: 202,

Cast No: 116

117

LOC

UTC

Begin: 1102

Bottom: 1106

End: 1117

BEGIN POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 4815.33

LONG: 12 547.78

END POSITION (GPS)

LAT:

LONG:

Comments

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

4/5/95

VESSEL: John P. Tully

STATION NO:

LB12

HYDRO No.:

121

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15		1132	11.0	0	✓ 2.		31.291			
14		1130	9.9	10	✓ 11.		31.928			
13		1129	9.9	20	✓ 22.		32.367			
12		1128	9.8	30	✓ 31.		32.472			
11		1126	9.6	50	✓ 51.		32.544			
10		1125	9.1	75	✓ 75.		32.619			
9		1122	8.7	100	✓ 100.		33.227			
8		1121	8.1	125	✓ 126		33.577			
7		1120	7.8	150	✓ 151		33.667			
6		1119	7.0	175	✓ 176		33.843			
5		1114	6.8	200	✓ 201		33.892			
4		1113	6.2	250	✓ 250		33.940			
3		1111	5.7	300	✓ 301		33.976			
2		1110	5.4	400	400		34.020			
1		1109	5.0	B-10	504		34.095			

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast No: 118

119

LOC

UTC

Begin: 1150

Bottom: 1204

End: 1222

BEGIN POSITION (GPS)

LAT: 4813.02

LONG: 12551.89

BOTTOM POSITION (GPS)

LAT: 4812.85

LONG: 12551.75

END POSITION (GPS)

LAT: 4812.68

LONG: 12551.71

Comments

Rosette 1: 23 bottle

CRUISE NO: 9507
STATION NO: LB16

UTC DATE: 4/5/95
HYDRO No.: 123

VESSEL: John P. Tully

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12										
11										
10										
9										
8				0	2.		22.3673			
7				100	100		33.1783			
6				200	200		33.8665			
5				300	300		33.9500			
4				400	399		34.0233			
3				500	500		34.0885			
2				1000	1001		34.3725			
1				Bottom	1779		34.5485			

ENTERED BY: SC
CHECKED BY: SC

Bottom Depth:
Cast No: 122
123 repeat

LOC	UTC
Begin:	2057
Bottom:	2134
End:	2200

BEGIN POSITION (GPS)
LAT: 48 00 54
LONG: 126 17 29

BOTTOM POSITION (GPS)
LAT: 48 00 59
LONG: 126 17.98

END POSITION (GPS)
LAT:
LONG:

Comments

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

4/5/95

VESSEL: John P. Tully

STATION NO:

LB15

HYDRO No.:

125

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12										
11										
10										
9										
8										
7										
6										
5										
4				1000	1000	✓ 1000.		34.371		3454?
3				1000	1000	✓ 1000.		34.367		
2				BOTTOM	1570	✓				
1				BOTTOM	1570	✓ 1569		34.511		

ENTERED BY: JRT
CHECKED BY:

Bottom Depth: 1570
Cast No: 124
125

LOC UTC
Begin: 2254
Bottom: 2317
End: 2340 2343

BEGIN POSITION (GPS)
LAT: 48 04 . 691
LONG: 126 02 . 369

BOTTOM POSITION (GPS)
LAT: 48 04 . 80
LONG: 126 02 . 29

END POSITION (GPS)
LAT: 48 04 . 72
LONG: 126 08 . 15

Comments
BOTTLE 2 DID NOT CLOSE.

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE:

5/5/95

VESSEL: John P. Tully

STATION NO:

LB14

HYDRO No.:

127

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19		1114	11.3	0	✓ 2.		31.029			
18		1113	11.0	10	✓ 9.		31.612			
17		1111	10.3	20	✓ 20.		32.469			
16		1110	10.0	30	✓ 30.		32.571			
15		1109	9.7	50	✓ 50.		32.558			
14		1108	9.4	75	✓ 74.		32.586			
13		1106	8.6	100	✓ 100		33.445			
12		1105	7.9	125	✓ 125		33.705			
11		1104	7.7	150	✓ 150		33.781			
10		1103	7.5	175	✓ 175		33.846			
9		1102	7.1	200	✓ 201		33.895			
8		1101	6.9	250	✓ 251		33.944			
7		1100	—	300	✓ 299		33.954			
6		1097	5.7	400	✓ 399		34.005			
5		1096	5.0	500	✓ 498		34.086			
4		1095	4.8	600	✓ 600		34.160			
3		1092	4.2	800	✓ 799		34.277			
2		1090	3.8	1000	✓ 1000		34.370			
1		1087	3.4	B-20	1189		34.447			

ENTERED BY: Bm

CHECKED BY:

Bottom Depth: 1165

Cast No: 126

127

LOC

UTC

Begin:

0036

Bottom:

0052

End:

0120

BEGIN POSITION (GPS)

LAT: 4808.35

LONG: 12559.99

BOTTOM POSITION (GPS)

LAT: 4808.43

LONG: 12600.12

END POSITION (GPS)

LAT: 4808.72

LONG: 12559.85

Comments

O2 and nutrients
Bottle 7 not closed

Bm

Rosette 2: 12 bottle

CRUISE NO: 9507
STATION NO: LA08

UTC DATE: 5 May 95
HYDRO No.: 134

VESSEL: John P. Tully

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
11										
10										
9		1142	11.3	0	5	31710				
8		1141	11.2	10	10	31715				
7		1140	10.4	20	20	32245				
6		1139	9.7	30	31	32432				
5		1138	9.4	50	50	32521				
4		1137	9.1	75	75	32668				
3		1136	8.7	100	100	33267				
2		1135	7.5	125	125	33736				
1		1134	7.1	135	134	33836				

ENTERED BY: AP
CHECKED BY:

Bottom Depth: 139

Cast No: 133 down

134 up

	LOC	UTC
Begin:		0624
Bottom:		0628
End:		0637

BEGIN POSITION (GPS)
LAT: 4805.75N
LONG: 125° 30.4/W

Rosette 2: 12 bottle

CRUISE NO: 9507

UTC DATE: 5/5/95

VESSEL: John P. Tully

STATION NO: LA 06

HYDRO No.: 137

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
11										
10										
9										
8		1151	11.1	0	0		31.058			
7		1150	10.9	10	10		31.769			
6		1149	10.0	20	20		31.870			
5		1148	10.2	30	30		32.140			
4		1146	10.2	50	50		32.443			
3		1145	9.3	75	75		32.579			
2		1144	8.3	100	100		33.411			
1		1143	9.1	Bottom +10	106		33.491			

ENTERED BY: JL
CHECKED BY:

Bottom Depth: 111.
Cast No: 136

137 upcast

	LOC	UTC
Begin:		0804
Bottom:		0808
End:		0815

BEGIN POSITION (GPS)
LAT: 4812.74
LONG: 125 17.34

Rosette 2: 12 bottle

CRUISE NO: 9507

UTC DATE: 5/5/95

VESSEL: John P. Tully

STATION NO: LA04

HYDRO No.: 143

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
11										
10		1163	10.0	0	✓ 1		31.638			
9		1161	9.7	10	✓ 12		31.807			
8		1160	9.3	20	✓ 21		31.930			
7		1158	8.9	30	✓ 31		32.336			
6		1157	8.5	50	✓ 52		32.757	Bad end point delete data		
5		1156	7.9	75	✓ 76		33.267			
4		1155	7.6	100	✓ 102		33.500			
3		1154	7.2	125	✓ 125		33.633			
2		1153	7.1	150	✓ 151		33.649			
1		1152	6.9	B-10	186		33.765			

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast No: 142

143_{cg}

LOC

UTC

Begin:

1413

Bottom:

1417

End:

1429

BEGIN POSITION (GPS)

LAT: 4819.17

LONG: 12503.74

CTD + O₂

Rosette 1: 23 bottle

CRUISE NO:

9507

UTC DATE: 5 May 95

VESSEL: John P. Tully

STATION NO:

LAO 2.

HYDRO No.: 146

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION		THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23										
22										
21										
20										
19										
18										
17										
16										
15										
14										
13		2008	9.7	0	2		31.638			
12		2007	9.4	10	11		31.828			
11		2004	9.1	20	20		32.042			
10		2002	9.0	30	30		32.176			
9		2001	8.6	50	51		32.524			
8		2000	8.4	75	75		33.045			
7		1173	7.9	100	100		33.475			
6		1172	7.1	125	125		33.707			
5		1171	6.8	150	150		33.777			
4		1169	6.8	175	175		33.836			
3		1168	6.5	200	200		33.885			
2		1167	6.3	250	250		33.902			
1		1166	6.4	295	295		33.914			

ENTERED BY: AP

CHECKED BY:

Bottom Depth: 302

Cast No: 145 down
146 up

	LOC	UTC
Begin:		1603
Bottom:		1611
End:		1634

BEGIN POSITION (GPS)

LAT: 4826.29

LONG: 12451.41

BOTTOM POSITION (GPS)

LAT: 4826.26

LONG: 12451.51

END POSITION (GPS)

LAT: 48 26.6

LONG: 124 50.67

Comments

VESSEL: John P. Tully

Comments