

CRUISE NO: 95-12
 STATION NO: MP-04

UTC DATE: 95-08-24
 HYDRO No.: 13

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 Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23											
22											
21											
20											
19											
18	✓ 18	1189	16.6	0	0		Salinity				
17	✓ 17	1188	16.0	10	10		31.873				
16	✓ 16	1187	13.6	*25	25		31.885	T647	13.155	T451	13.145
15	✓ 15	1186	10.9	50	50		32.069				
14	✓ 14	1184	9.5	75	75		32.290				
13	✓ 13	1183	9.3	100	100		32.609				
12	✓ 12	1182	8.8	150	150		33.044				
11	✓ 11	1181	8.6	150	150		33.732				
10	✓ 10	1180	7.8	200	200		33.732				
9	✓ 9	1179	7.2	300	300		33.685				
8	✓ 8	1178	6.8	400	400		33.947				
7	✓ 7	1177	6.9	400	400		33.984				
6	✓ 6	1176	6.2	600	600		33.980				
5	✓ 5	1175	5.3	800	800		34.160				
4	✓ 4	1174	5.3	*1000	1000		34.286	T557	3.473	T446	3.510
3	✓ 3	1173	4.9	1250	1250		34.387				
2	✓ 2	1172	5.4	1300	1300		34.453				
1	✓ 1	1171	5.1	bot-20	1323		34.473				
							34.483				

ENTERED BY:
 CHECKED BY:

Bottom Depth: 1340
 Cast No: 00103
13

LOC UTC
 Begin: 2230
 Bottom: 2256
 End: 2359

BEGIN POSITION (GPS)
 LAT:
 LONG:

BOTTOM POSITION (GPS)
 LAT: 48 38.79
 LONG: 126 39.76

END POSITION (GPS)
 LAT: 48 38.45
 LONG: 126 39.46

Comments

CRUISE NO:
STATION NO:

9512
MP 12

UTC DATE:
HYDRO No.:

27/9/95
35

VESSEL: John P. Tully

ENTERED BY: HUGHIE & RHB
CHECKED BY:

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION			THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Salinity Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23 ✓	41	1194	9.5	10	75.2	32.608	✓				
22 ✓	40	1193	10.1	25-	101.1	32.998	✓				
21 ✓	39	1192	9.3	50-	151.2	33.627	✓				
20 ✓	38	1191	9.2	75-	151.2	33.629	✓				
19 ✓	37	1190	8.8	100-	201.9	33.831	✓			Flask not sealed well	
18 ✓	36	1189	9.0	150	201.9	33.831	✓				
17 ✓	35	1188	8.8	200-	201.9	33.831	✓				
16 ✓	34	1187	8.3	300	301.6	33.926	✓ ✓ wait	T647	6.124	T457	6.135
15 ✓	33	1186	7.5	400-	401.4	33.970	✓				
14 ✓	32	1184	6.6	600	600.7	34.079	✓				
13 ✓	31	1182	6.5	600	600.5	34.075	✓				
12 ✓	30	1182	6.3	800	800.9	34.233	✓				
11 ✓	29	1181	6.2	1000	1002.1	34.346	✓				
10 ✓	28	1180	5.9	1250	1252.4	34.431	✓				
9 ✓	27	1179	5.9	1500	1500.0	34.501	✓				
8 ✓	26	1178	5.2	1750	1750.8	34.551	✓				
7 ✓	25	1177	4.8	2000	2000.4	34.584	x ✓ *	bottle 52	? bottle 57		
6 ✓	24	1176	5.3	2000	2000.4	34.586	✓				
5 ✓	23	1175	4.4	2250	2250.4	34.609	xxx ✓	Bottle	29 ?		
4 ✓	22	1174	4.6	2500	2500	34.626	✓	T577	1.703	T446	1.738
3 ✓	21	1173	6.0	2750	2750.1	34.638	x ✓				
2 ✓	20	1172	5.5	3000	3000.3	34.644	x ✓				
1 ✓	19	1171	4.9	B-20	3003.6	34.647	✓				

Bottom Depth: 3263
Cast No: 34 ↓
35 ↑

LOC	UTC
Begin:	0204
Bottom:	0248
End:	0406

BEGIN POSITION (GPS)
LAT: 48 58 423
LONG: 130 39 854

BOTTOM POSITION (GPS)
LAT: 48 58.337
LONG: 130 40.381

END POSITION (GPS)
LAT: 48° 58.00
LONG: 130° 41.28

Comments
* John L. called, Connector in back of computer might have been loose!
some O2 flasks dirty - lots of bubbles at first.

CRUISE NO: 9512
STATION NO: MP 16

UTC DATE: AUG 29/95
HYDRO No.: 54/54

VESSEL: John P. Tully

ENTERED BY: HUGH J. RYAN
CHECKED BY:

NISK. No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION			THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23 ✓	64	1194	14.6	10	10		✓	32.178	bubble	272.08	
22 ✓	63	1193	14.4	10	10		✓	32.178	bubble	270.16	
21 ✓	62	1192	9.6	25	25 *		✓	32.201		306.65	
20 ✓	61	1191	9.3	50	50		X ✓	32.254		289.35	
19 ✓	60	1190	8.8	75	75		✓	32.338	tiny bubble	280.94	
18 ✓	59	1189	8.8	100	100		✓	32.534		252.26	
17 ✓	58	1188	9.1	150	150		✓	33.171		182.09	
16 ✓	57 *	1187	8.8	150	150	wait	✓	33.156	tiny bubble	182.87	1647 7.955 1451 7.966
15 ✓	56	1186	8.3	200	200		✓	33.614	small bubble	141.36	
14 ✓	55	1184	7.5	300	300		X ✓	33.865		125.71	
13 ✓	54	1183	6.9	400	400		✓	33.921		93.40	
12 ✓	53	1182	6.3	600	600		✓	34.102		34.01	
11 ✓	52	1181	5.8	800	800		✓	34.242		19.52	
10 ✓	51	1180	5.8	1000	1000		✓	34.333		16.94	
9 ✓	50	1179	4.6	1250	1249	JANET	✓	34.422		19.04	
X 8	49	1178	4.4	1500	1500	WANTS	✓	34.495	Dark stage on top not worth a sample	31.93	
7 ✓	48	1177	3.9	1750	1750	WATER	✓	34.651		46.19	
6 ✓	47	1176	4.0	2000	2000	BELOW	✓	34.588		62.00	
5 ✓	46	1175	3.7	2250	2250	1000 m	✓	34.610		76.66	
* 4 ✓	45 *	1174	3.7	2500	2500		XXX ✓	34.630	Popped top air space	104.03	1577 1.665 1446 1.702
3 ✓	44	1173	3.9	2750	2750		X ✓	34.642		101.28	
2 ✓	43	1172	3.5	3000	3000		✓	34.654			
1 ✓	42	1171	3.4	B-20	3675		✓	34.666		122.64	

Bottom Depth: 3657
Cast No: 53/54

LOC UTC
Begin: 1036 0136
Bottom: 0226
End: 0440

BEGIN POSITION (GPS)
LAT: 49 17 063
LONG: 134 40 304

BOTTOM POSITION (GPS)
LAT: 49 17 020
LONG: 134 40 467

END POSITION (GPS)
LAT: 49 16 20
LONG: 134 41 34

Comments
checked visually
before taking the
(2) 10-m samples - OK
(2) bottles open.

CRUISE NO:
STATION NO:

9512
MP24

UTC DATE:
HYDRO No.:

Sept 2 1995
97

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 Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23	✓ 110	1069	13.2	10		25		32.600			
22	✓ 109	1068	9.4	25	25	50	✓ not confirmed	32.695			
21	✓ 108	1067	8.2	50	50	75	✓	32.734			
20	✓ 107	1065	8.0	75	75	100	✓	32.859			
19	✓ 106	1062	8.0	100	100	150	✓	33.807			
18	X 105	MT		150	150		✓				
17	✓ 104	1039	6.8	200	200	300	✓	33.884 33.972			
*16	✓ 103	1036	6.2	300	300	400	✓	7647	4.142	T451	4.153
15	✓ 102	1033	5.7	400	400	600	✓	34.147			
14	✓ 101	1047	5.5	600	600	800	✓	34.273			
13	✓ 100	1045	5.3	800	800	1000	✓	34.361			
12	✓ 99	1040	5.3	1000	1000	1250	✓	34.435			
11	✓ 98	1039	5.0	1250	1250	1500	✓	34.497			
10	✓ 97	1036	4.7	1500	1500	1750	X✓	34.541			
9	✓ 96	1033	4.5	1750	1750	2000	✓	34.574			
8	✓ 95	1032	4.7	2000	2000	2250	✓	34.601			
7	✓ 94	1031	4.4	2250	2250	2500	✓	34.622			
6	✓ 93	1028	4.4	2500	2500	2750	X✓	34.649		bad plot	
5	✓ 92	1027	4.4	2750	2750	3000	✓	T577	1.562	T446	1.597
*4	✓ 91	1020	4.4	3000	3000	3000	ASSUMED (HI SPIKE) # JOHN THINKS IT FROD			Twice	
3	✓ 90	1010	4.4	3500	3500	3500	X✓	34.651 34.669			
2	✓ 89	1008	4.3	3500	3500	3500	✓	34.670			
1	✓ 88	1004	4.3	B-308	3700	3750	✓	34.674	black flakes in flask	bad plot	

ENTERED BY: HUGH
CHECKED BY:

Bottom Depth:
Cast No: 96
97 *upcast*

LOC UTC
Begin: 0112
Bottom: 0202
End: 329

BEGIN POSITION (GPS)
LAT: 49 50.08
LONG: 142 40.22

BOTTOM POSITION (GPS)
LAT: 49 49.86
LONG: 142 41.38

END POSITION (GPS)
LAT: 49 49.23 N
LONG: 142 41.74 W

Comments

↑
corrected depth using salinity values
John

CRUISE NO:
STATION NO:

95-12
FD*

UTC DATE:
HYDRO No.:

95-09-02
106

VESSEL: John P. Tully

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

ENTERED BY: RHB
CHECKED BY:

Bottom Depth: 4107
Cast No: 105
106

	LOC	UTC
Begin:		<u>1807</u>
Bottom:		<u>1824</u>
End:		<u>1941</u>

BEGIN POSITION (GPS)
LAT: 50° 00.199
LONG: 144° 44.677

BOTTOM POSITION (GPS)
LAT: 50° 00.38
LONG: 144° 44.76

END POSITION (GPS)
LAT: 50° 49.81
LONG: 144° 44.24

Comments
Trip (2) extra bottles - just in case

Rosette 1: 23 bottle

CRUISE NO:

9512

UTC DATE:

Sept 9, 1995

VESSEL: John P. Tully

STATION NO:

MP19 Transition Zone
Cast

HYDRO No.:

144

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	192			1		✓				
5	191			10	10	✓				
4	190			25	24	✓	144			
3	189			50	49	✓	143			
2	188			75	74	✓	143			
1	187			100	100	✓	143			

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast No: 142/143/4
Crashed, had to restart

	LOC	UTC
Begin:		0950
Bottom:		0952
End:		1011

BEGIN POSITION (GPS)
LAT: 49 30.05
LONG: 137 39.97

BOTTOM POSITION (GPS)
LAT: 49 30.09
LONG: 137 39.92

END POSITION (GPS)
LAT: 49 39.84
LONG: 137 39.86

Comments

Rosette 1: 23 bottle

Transition Zone Cast

CRUISE NO: 9512

UTC DATE: 9/9/95

VESSEL: John P. Tully

STATION NO: Trans1 Transition Zone Cast

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										
12										
11										
10										
9										
8										
7										
6	196			1	1	✓				
5	197			10	10	✓				
4	196			25	25	✓				
3	195			50	50	✓				
2	194			75	75	✓				
1	193			100	100	✓				

ENTERED BY: HUGH
 CHECKED BY:

Bottom Depth:
 Cast No: 145/146

	LOC	UTC
Begin:		1237
Bottom:		1240
End:		1250

BEGIN POSITION (GPS)
 LAT: 49 10 06
 LONG: 137 44 11

BOTTOM POSITION (GPS)
 LAT: 49 10 07
 LONG: 137 44 15

END POSITION (GPS)
 LAT: 49 10 09
 LONG: 137 44 40

Comments

Rosette 1: 23 bottle

CRUISE NO:

9512

UTC DATE:

Sept 9/95

VESSEL: John P. Tully

STATION NO:

MP18

HYDRO No.:

150

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	210			1	1.7	✓				
5	209			10	9.5	✓				
4	208			25	23	✓				
3	207			50	50	✓				
2	206			75	73	✓				
1	205			100	98	✓				

ENTERED BY: _____
 CHECKED BY: _____

Bottom Depth: 3790
 Cast No: 149
150 up

	LOC	UTC
Begin:		<u>1947</u>
Bottom:		<u>1953</u>
End:		<u>2007</u>

BEGIN POSITION (GPS)
 LAT: 49 26 28
 LONG: 136 39 64

BOTTOM POSITION (GPS)
 LAT: _____
 LONG: _____

END POSITION (GPS)
 LAT: _____
 LONG: _____

Comments
(TD) → 200
Samples 100 ↑

Transition Zone Cast

Rosette 1: 23 bottle

CRUISE NO:

9512

UTC DATE:

Sept 9, 1995

VESSEL: John P. Tully

STATION NO:

Trans 3

HYDRO No.:

152

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	216			1	1	✓				
6	215			10	9.5	✓				
5	214			25	25	✓				
4	Ph.D			Biomass 40	40	✓				
3	213			50	50	✓				
2	212			75	72	✓				
1	211			100	99	✓				

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast No:

	LOC	UTC
Begin:		2201
Bottom:		2206
End:		2220

BEGIN POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49 45.01
LONG: 136 35.66

Comments
CTD → 200
Samples 100 ↑

Transition Zone Cast

Rosette 1: 23 bottle

CRUISE NO:

9512

UTC DATE:

10/9/95

VESSEL: John P. Tully

STATION NO:

Trans 4

HYDRO No.:

153/154 → 157
Up Cast

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	222			1	1	✓	C			
6	221			10	10	✓				
5	220			25	25	✓	C			
4	Phl			Biomass ~40	33 ?	✓				
3	219			50	50	✓	C			
2	218			75	75	✓				
1	217			100	100	✓				

ENTERED BY: HUGH J. REED
CHECKED BY:

Bottom Depth:
Cast No: 153/154

	LOC	UTC
Begin:		<u>0247</u>
Bottom:		<u>0250</u>
End:		<u>0331</u>

BEGIN POSITION (GPS)
LAT: 49° 40.94'
LONG: 135° 35.90'

BOTTOM POSITION (GPS)
LAT: 49° 40.93'
LONG: 135° 35.83'

END POSITION (GPS)
LAT: 49° 38.64'
LONG: 135° 35.81'

Comments
** CPU bombed @ 75 m - re-started
bombed again, re-started
HW.*

Transition Zone Cast

Rosette 1: 23 bottle

CRUISE NO: 9512
 STATION NO: MP 17

UTC DATE: 95-09-10
 HYDRO No.: ~~158~~ / 159

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	228			1		✓	C			
6	227			10		✓				
5	226			25		✓	C			
4	Phil			Biomass 26		✓				
3	225			50		✓	C			
2	224			75		✓				
1	223			100		✓	C			

ENTERED BY: RHTB
 CHECKED BY:

Bottom Depth: 3604

Cast No:

	LOC	UTC
Begin:		<u>0554</u>
Bottom:		<u>0600</u>
End:		<u>0617</u>

BEGIN POSITION (GPS)
 LAT: 49° 21.03
 LONG: 135° 39.95

BOTTOM POSITION (GPS)
 LAT: 49° 21.02
 LONG: 135° 39.78

END POSITION (GPS)
 LAT: 49° 20.95
 LONG: 135° 39.28

Comments

Rosette 1: 23 bottle

CRUISE NO:

9512

UTC DATE:

Sept 10, 1995

VESSEL: John P. Tully

STATION NO:

Trans 5

HYDRO No.:

160/161

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	234			1	1					
6	233	bottom of Niskin did not close		10	10					
5	232			25	25	✓				
4	Ph.1			biomass ~40	35	✓				
3	231			50	49	✓				
2	230			75	74	✓				
1	229			100	98	✓				

ENTERED BY:
CHECKED BY:

Bottom Depth:
Cast No: 160/161

	LOC	UTC
Begin:		0853
Bottom:		0859
End:		0910

BEGIN POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 59.80
LONG: 135 42.92

END POSITION (GPS)
LAT: 48 59.62
LONG: 135 43.09

Comments

Transition Zone Cast

Rosette 1: 23 bottle

CRUISE NO: 9512
 STATION NO: Trans 6

UTC DATE: 10 Sept 95
 HYDRO No.: 163

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	240			1	1	✓				
6	239			10	10	✓				
5	238			25	25	✓				
4	Ph.1			50	50	✓				
3	237			56	PHLS	✓				
2	236			75	75	✓				
1	235			100	100	✓				

ENTERED BY:
 CHECKED BY:

Bottom Depth:
 Cast No: 162
163

LOC UTC
 Begin: 1346
 Bottom:
 End:

BEGIN POSITION (GPS)
 LAT:
 LONG:

BOTTOM POSITION (GPS)
 LAT:
 LONG:

END POSITION (GPS)
 LAT: 48 55 72
 LONG: 124 42 17

Comments

Rosette 1: 23 bottle

CRUISE NO:

Transition Zone Cast

UTC DATE:

95-09-10

VESSEL: John P. Tully

STATION NO:

MP 16

HYDRO No.:

164/165

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	<i>246</i>			<i>1</i>	<i>✓</i>	<i>C</i>				
6	<i>245</i>			<i>10</i>	<i>✓</i>					
5	<i>244</i>			<i>25</i>	<i>✓</i>	<i>C</i>				
4	<i>Phil</i>		<i>Biomass</i>	<i>36-38</i>	<i>37</i>	<i>✓</i>				
3	<i>243</i>			<i>50</i>	<i>✓</i>	<i>C</i>				
2	<i>242</i>			<i>75</i>	<i>✓</i>					
1	<i>241</i>			<i>100</i>	<i>✓</i>	<i>C</i>				

ENTERED BY: *RHTB*
 CHECKED BY:

Bottom Depth: *3613*

Cast No:

	LOC	UTC
Begin:		<i>1623</i>
Bottom:		<i>1629</i>
End:		<i>1642</i>

BEGIN POSITION (GPS)
 LAT: *49° 16.90*
 LONG: *134° 40.29*

BOTTOM POSITION (GPS)
 LAT: *49° 16.84*
 LONG: *134° 40.43*

END POSITION (GPS)
 LAT: *49° 16.85*
 LONG: *134° 40.81*

Comments

Rosette 1: 23 bottle

CRUISE NO:

9512

Transition zone Cast

UTC DATE:

95-09-10

STATION NO:

TRAN 7.

HYDRO No.:

167

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	252			1		2				
6	251			10		9-9				
5	250			25		25				
4				Biomax 43/44		43				
3	249			50		50				
2	248			75		76				
1	247			100		100				

ENTERED BY:
CHECKED BY:

Bottom Depth:
Cast No: 166/167

	LOC	UTC
Begin:		1850
Bottom:		1855
End:		1907

BEGIN POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 49 36.04
LONG: 134 39.41

Comments

Rosette 1: 23 bottle

CRUISE NO:

9512

UTC DATE:

10/9/95

VESSEL: John P. Tully

STATION NO:

Trans 8

HYDRO No.:

11694

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	258			1	1	✓				
6	257			10	10	✓				
5	256			25	25	✓				
4	Phil			Biomass	50	✓				
3	255			50	50	✓				
2	254			75	75	✓				
1	253			100	100	✓				

ENTERED BY: HUGH
 CHECKED BY:

Bottom Depth:
 Cast No: 168/169

	LOC	UTC
Begin:		2308
Bottom:		2311
End:		2320

BEGIN POSITION (GPS)
 LAT: 49 31 67
 LONG: 133 35 70

BOTTOM POSITION (GPS)
 LAT: 49 31 59
 LONG: 133 35 70

END POSITION (GPS)
 LAT: 49 31 70
 LONG: 133 35 53

Comments

Rosette 1: 23 bottle

CRUISE NO:

9512

UTC DATE:

11/9/95

VESSEL: John P. Tully

STATION NO:

MP15

HYDRO No.:

170/171

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	264			1	1	✓				
6	263			10	10	✓				
5	262			25	25	✓				
4	PH15			44	44	✓				
3	261			50	50	✓				
2	260			75	75	✓				
1	259			100	100	✓				

ENTERED BY: HUGG
 CHECKED BY:

Bottom Depth:
 Cast No: 170/171

LOC UTC
 Begin: 0133
 Bottom: 0138
 End: 0148

BEGIN POSITION (GPS)
 LAT: 49 11 09
 LONG: 133 40 05

BOTTOM POSITION (GPS)
 LAT: 49 11 01
 LONG: 133 39 94

END POSITION (GPS)
 LAT: 49 11 65
 LONG: 133 39 90

Comments

Rosette 1: 23 bottle

CRUISE NO:

9512

UTC DATE:

95-09-11

VESSEL: John P. Tully

STATION NO:

Trans 9

HYDRO No.:

174

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	270			1	1	✓				
6	269			10	10	✓ C				
5	268			25	25	✓				
4	268			Bi						
3	267			50	50	✓ C				
2	266			75	75	✓				
1	265			100	100	✓ C				

ENTERED BY: *RHTB*
 CHECKED BY:

Bottom Depth: 1915

Cast No: 173/174

	LOC	UTC
Begin:		0404
Bottom:		0409
End:		0423

BEGIN POSITION (GPS)
 LAT: 48° 52.07
 LONG: 133° 44.15

BOTTOM POSITION (GPS)
 LAT: 48° 52.12
 LONG: 133° 44.17

END POSITION (GPS)
 LAT: 48° 52.11
 LONG: 133° 44.22

Comments
Program bombed at last alt 5.

Rosette 1: 23 bottle

CRUISE NO:

Transition Zone Cast

9512

UTC DATE:

95-09-11

VESSEL: John P. Tully

STATION NO:

Trans 10

HYDRO No.:

1176

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	276			1	1	✓				
5	275			10	10	✓				
4	274			25	25	✓				
3	273			50	50	✓				
2	272			75	76	✓				
1	271			100	100	✓				

ENTERED BY: _____
 CHECKED BY: _____

Bottom Depth: 3309
 Cast No: 175/176

	LOC	UTC
Begin:		<u>0849</u>
Bottom:		<u>0854</u>
End:		<u>0905</u>

BEGIN POSITION (GPS)
 LAT: 48 46 92
 LONG: 132 44 02

BOTTOM POSITION (GPS)
 LAT: 48 46 92
 LONG: 132 43 95

END POSITION (GPS)
 LAT: 48 46 82
 LONG: 132 43 95

Comments

Rosette 1: 23 bottle

CRUISE NO:

9512

UTC DATE:

Sept 11, 1995

VESSEL: John P. Tully

STATION NO:

MP 14

HYDRO No.:

178

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	282			1	1	✓				
5	281			10	10	✓				
4	280			25	25	✓				
3	279			50	50					
2	278			75	75	✓				
1	277			100	100	✓				

ENTERED BY: HUGH
CHECKED BY:

Bottom Depth:
Cast No: 177/178

LOC UTC
Begin: 1120
Bottom: 1124
End: 1134

BEGIN POSITION (GPS)
LAT: 49 07 23
LONG: 132 40 17

BOTTOM POSITION (GPS)
LAT: 49 07 22
LONG: 132 40 03

END POSITION (GPS)
LAT: 49 06 44
LONG: 132 39 42

Comments

Rosette 1: 23 bottle

CRUISE NO:

Transition Zone Cast

9512

UTC DATE:

11/9/95

VESSEL: John P. Tully

STATION NO:

Trans II

HYDRO No.:

180

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	288			1	1	✓				
5	287			10	10	✓				
4	286			25	25	✓				
3	285			50	50	✓				
2	284			75	75	✓				
1	283			100	100	✓				

ENTERED BY: HUGH
 CHECKED BY:

Bottom Depth:
 Cast No: 179/100

LOC UTC
 Begin: 1345
 Bottom: 1352
 End: 1359

BEGIN POSITION (GPS)
 LAT: 49 26 96
 LONG: 132 35 98

BOTTOM POSITION (GPS)
 LAT: 49 26 36
 LONG: 132 36 01

END POSITION (GPS)
 LAT: 49 26 01
 LONG: 132 36 01

Comments

Rosette 1: 23 bottle

CRUISE NO:

9512

UTC DATE:

95-09-11

VESSEL: John P. Tully

STATION NO:

Trans 12

HYDRO No.:

1 182

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	294			1	✓	C				
5	293			10	✓	C				
4	292			25	✓	C				
3	291			50	✓	C				
2	290			75	✓	C				
1	289			100	✓	C				

ENTERED BY: RITTS
 CHECKED BY:

Bottom Depth: 3175

Cast No: Consec # 182

	LOC	UTC
Begin:		1803
Bottom:		1808
End:		1818

BEGIN POSITION (GPS)
 LAT: 49° 22.48'
 LONG: 131° 36.02'

BOTTOM POSITION (GPS)
 LAT: 49° 22.46'
 LONG: 131° 35.97'

END POSITION (GPS)
 LAT: 49° 22.33'
 LONG: 131° 35.68'

Comments

Rosette 1: 23 bottle

CRUISE NO:

9512

UTC DATE:

95-09-11

VESSEL: John P. Tully

STATION NO:

MP 13

HYDRO No.:

183/184

Transition Zone Cast

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	300			1	1					
5	299			10	10					
4	298			25	25	✓				
3	297			50	50	✓				
2	296			75	74	✓				
1	295			100	99	✓				

System locked up - restart at 187 (3 crashes)

ENTERED BY: _____
 CHECKED BY: _____

Bottom Depth: _____

Cast No: *CONSEC 183/184*

	LOC	UTC
Begin:		<i>2039</i>
Bottom:		<i>2043</i>
End:		<i>2055</i>

BEGIN POSITION (GPS)
 LAT: _____
 LONG: _____

BOTTOM POSITION (GPS)
 LAT: *49 02.52*
 LONG: *131 40.08*

END POSITION (GPS)
 LAT: *49° 2.46*
 LONG: *131° 40.02*

Comments

Transition Zone East

CRUISE NO:

9512

UTC DATE:

11/9/95

VESSEL: **John P. Tully**

STATION NO:

TRANS 13

HYDRO No.:

189

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION			THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
6	306			1			✓				
5	305			10	10		✓				
4	304			25	25		✓				
3	303			50	50		✓				
2	302			75	75		✓				
1	301			100	100		✓				

ENTERED BY: HUGH
CHECKED BY:

Bottom Depth:
Cast No: 188/189

LOC (UTC)
Begin: 2312
Bottom: 2315
End: 2323

BEGIN POSITION (GPS)
LAT: 40 42 67
LONG: 131 44 15

BOTTOM POSITION (GPS)
LAT: 48 42 62
LONG: 131 44 19

END POSITION (GPS)
LAT: 48 42 48
LONG: 131 44 34

Comments

Transition Zone Cast

CRUISE NO:
STATION NO:

9512
TRANS 14

UTC DATE:
HYDRO No.:

12 Sept. 95
191

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 Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
7	312			1	1	✓					
6	311			10	10	✓					
5	310			25	25	✓					
3	309			50	48.5	✓					
2	308			75	75	✓					
1	307			100	102	✓	45				
							Bottle # 4	B10			

ENTERED BY:
CHECKED BY:

Bottom Depth:
Cast No: 190
191

	LOC	UTC
Begin:		0329
Bottom:		0335
End:		0346

BEGIN POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 48 38.06
LONG: 130 43.64

END POSITION (GPS)
LAT:
LONG:

Comments

Transition Zone East

CRUISE NO:
STATION NO:

9512
MP-12

UTC DATE:
HYDRO No.:

12/9/95
192/193 ¹⁹⁴

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 Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)		
9	318	1028	17.0	1	1		✓	1028	32.137	1 318	17.0 Temp	255.33	
8	317	1027	16.8	10	10	FCZ	✓	1027	32.142	10 317	16.8	257.84	
7	316	1020	10.3	25	25		✓	1020	32.416	50 315	10.3	290.13	
6	DELPHINE	1010	11.2	42	42	D.T.	✓						
5	315	DELPHINE		50	50		✓	1010	32.481	25 316	11.2	315.85	
34	314	1008	9.8	75	75		✓	1008	32.945	75 314	9.8	292.11	
2	313	1004	10.4	100	100		✓	1004	33.169	100 313	10.4	193.23	
1				200	200		✓						
<i>Niskins Labelled Wrong</i>					<i>Correct ↑ #s & Depth based on Salinity</i>								

ENTERED BY: HUGH
CHECKED BY:

Bottom Depth:
Cast No: 192/193

LOC	UTC
Begin:	
Bottom:	
End:	<u>0622</u>

BEGIN POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT: 48 58.27
LONG: 120 39.25

Comments

CRUISE NO: 9512
 STATION NO: MP04

UTC DATE: 95/08/23
 HYDRO No.: 0005

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 Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
1	100				100.4						
2	90				90.						
3	80				80.9						
4	75				75.38						
5	70				69.91						
6	65				63.86						
7	60				59.96						
8	55				54.66						
9	50				49.70						
10	45				44.8						
11	40				40.						
12	40				40.8						
13	40 35				35.13						
14	35				34.8						
15	30				30.18						
16	30				30.6						
17	30 25				25.20						
18	25				25.71						
19	20 20				20.43						
20	15 15 20				15.13						
21	10				9.64						
22	5				5.09						
23	Surface				5 ?						

ENTERED BY:
 CHECKED BY:

Bottom Depth:
 Cast No: 4
5

	LOC	UTC
Begin:		2144
Bottom:		2150
End:		2211

BEGIN POSITION (GPS)
 LAT:
 LONG:

BOTTOM POSITION (GPS)
 LAT:
 LONG:

END POSITION (GPS)
 LAT:
 LONG:

Comments

CRUISE NO: 95-12
 STATION NO: MP-04

UTC DATE: 24 Aug 95
 HYDRO No.: 006, 007 CTD #5

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 Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23				10	10.70		✓				
22				10	10.52		✓				
21				10	11.06		✓				
20				10	10.70		✓				
19				10	10.88		✓				
18				10	10.34		✓				
17				10	10.70		✓				
16				10	10.52		✓				
15				10	10.88		✓				
14				10	10.70		✓				
13				10	10.52		✓				
12				10	10.34		✓				
11				10	10.73		✓				
10				10	11.27		✓				
9				10	10.36		✓				
8				10	10.73		✓				
7				10	10.55		✓				
6				10	10.73		✓				
5				10	10.55		✓				
4				10	10.75		✓				
3				?	44.93		✓				
2				45	45.29		missed it				
1				45	45.63		✓				

ENTERED BY: RHB
 CHECKED BY:

Bottom Depth: 1321m
 Cast No:

LOC	UTC
Begin:	1523
Bottom:	1528
End:	1540

BEGIN POSITION (GPS)
 LAT: 48° 39.047
 LONG: 126° 40.092

BOTTOM POSITION (GPS)
 LAT: 48° 39.04
 LONG: 126° 40.07

END POSITION (GPS)
 LAT: 48° 39.06
 LONG: 126° 40.06

Comments
Bottle # 2 was re-tripped
Bottles 1, 2, 3 were at 45 m.

CRUISE NO: 95-12
 STATION NO: MP-12

UTC DATE: 95-08-26
 HYDRO No.: 29

VESSEL: John P. Tully

ENTERED BY: RHTB
 CHECKED BY:

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION			THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23				10	10.75						
22				10	10.75						
21				10	11.11						
20				10	11.11						
19				10	10.75						
18				10	11.11						
17				10	10.38						
16				10	10.75						
15				10	10.38						
14				10	10.56						
13				10	10.41						
12				10	10.41						
11				10	10.23						
10				10	10.77						
9				10	10.77						
8				10	10.59						
7				10	10.41						
6				50	50.95						
5				50	51.68						
4				50	50.95						
3				50	50.23						
2				50	50.95						
1				50	51.31						

Bottom Depth: 3250
 Cast No: CTD # 0029

LOC	UTC
Begin:	<u>1459</u>
Bottom:	<u>1504</u>
End:	<u>15:16</u>

BEGIN POSITION (GPS)
 LAT: 48° 58.35
 LONG: 130° 40.21

BOTTOM POSITION (GPS)
 LAT:
 LONG:

END POSITION (GPS)
 LAT: 48° 58.32
 LONG: 130° 40.37

Comments
all trips confirmed
Consec # 029
50m → 0

Rosette 1: 23 bottle

CRUISE NO: 9512

UTC DATE: 95/8/28 *Water Samples*

VESSEL: John P. Tully

STATION NO: P16

HYDRO No.: 52

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	Surface				0					
22	Surface				0					
21	5m				5.0					
20	5				5.2					
19	10				10.21					
18	10				10.2					
17	20				20.9					
16	20				20.6					
15	30				32.4					
14	30				29.36					
13	35				35					
12	35				35					
11	40				40					
10	40				40					
9	50				50					
8	50				50					
7	60				60					
6	60				60					
5	70				70					
4	70				70					
3	80				80					
2	80				80					
1	90				90					

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast No:

	LOC	UTC
Begin:		2226
Bottom:		
End:		2230

BEGIN POSITION (GPS)
LAT: 49 16.93
LONG: 134 40.83

BOTTOM POSITION (GPS)
LAT:
LONG:

END POSITION (GPS)
LAT:
LONG:

Comments

CRUISE NO: 95-12
 STATION NO: MP20

UTC DATE: 08-30-1995
 HYDRO No.: 67

VESSEL: John P. Tully

ENTERED BY: RJTB
 CHECKED BY:

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION			THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
	MUN			ALL @	✓						
				10 METERS	✓						
1				10m	✓						
2				↓	✓						
3				↓	✓						
4				↓	✓						
5				↓	✓						
6				↓	✓						
7				↓	X						
8				↓	X						
9				↓	✓						
10				↓	✓						
11				10m	✓						
12				↓	✓						
13				↓	✓						
14				↓	✓						
15				↓	✓						
16				↓	✓						
17				↓	✓						
18				↓	X						
19				↓	X						
20				↓	X						
21				↓	X						
22				↓	✓						
23				10m	X						

Bottom Depth: 3987
 Cast No: 067/068 up

LOC UTC
 Begin: 1706
 Bottom: 1708
 End: 1801

BEGIN POSITION (GPS)
 LAT: 49 34.09
 LONG: 138 39.96

BOTTOM POSITION (GPS)
 LAT: 49 34.10
 LONG: 138 39.99

END POSITION (GPS)
 LAT: 49 34.62
 LONG: 138 41.06

Comments
all tripped @ 10m

CRUISE NO: 95-12
 STATION NO: MP 20

UTC DATE: 30 Aug 95
 HYDRO No.: 69

VESSEL: John P. Tully

ENTERED BY: RHTB

CHECKED BY:

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION			THERMOMETER 1		THERMOMETER 2			
					Trip Depth (db)	Trip Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)		
7			✓	0	x			} (9) tripped	}				
6			✓	10	x	no high current	✓						
5			✓	20	✓								
4			✓	30	✓								
3			✓	40	x								
2			✓	60	x								
1			✓	60	x								
9				0	} probably correct								
8				0									
7				10									
6				10									
5				20									
4				30									
3				40									
2				60									
1				60									

Bottom Depth: 3984

Cast No: 069/070

LOC	UTC
Begin:	<u>1805</u>
Bottom:	<u>1810</u>
End:	<u>1827</u>

BEGIN POSITION (GPS)
 LAT: 49° 34.724
 LONG: 138° 41.089

BOTTOM POSITION (GPS)
 LAT: 49° 34.79
 LONG: 138° 41.25

END POSITION (GPS)
 LAT: 49° 34.91
 LONG: 138° 41.50

Comments

After we had tripped first (5) bottles we brought it to the surface for a visual check - (5) bottles were tripped OK — then tripped #6 twice as no high current 1st time and tripped #7 once - (9) bottles had tripped

Rosette 1: 23 bottle

CRUISE NO:

UTC DATE: Aug 30 1995

VESSEL: John P. Tully

Moureen's Shallow
Rosette

STATION NO: MP20

HYDRO No.: 0072

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)
	CTD Sal									
23				SURFACE	no bottles					
22	.52			5	5	✓				
21	32.52			5	5	✓				
20	.52			10	10	No current ✓				
19	.52			10	10	✓				
18	32.62			20	20	✓				
17	32.57			20	20	✓				
* 16				30	31	✓	T647	11.228	T451	11.219
15	32.60			30	32	✓				
14	32.61			50	50	NC				
13	32.60			50	50	✓				
12	32.69			70	70	NC				
11	32.68			70	70	✓				
10	32.85			90		NC				
9	32.87			90		✓				
8	33.28			110		✓				
7	33.27			110		✓				
6	33.39			130		NC				
5	33.61			130		✓				
* 4				150	150	NC	T577	6.306	T446	6.340
3				150	150	✓				
2				200	201	NC				
1				200	201	No Confirmed				

ENTERED BY:
CHECKED BY:

Bottom Depth:

Cast No: 71
72

	LOC	UTC
Begin:		2039
Bottom:		2045
End:		2109

BEGIN POSITION (GPS)
LAT:
LONG:

BOTTOM POSITION (GPS)
LAT: 49 34.19
LONG: 138 39.78

END POSITION (GPS)
LAT:
LONG:

Comments

* NC = Not Confirmed

Rosette 1: 23 bottle

CRUISE NO: 95-12

UTC DATE: 31/08/95

VESSEL: John P. Tully

STATION NO: MP20

HYDRO No.: 088

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		open								
22		open								
21		open								
20				0						
19				10						
18				10						
17		5‰	5‰	10						
16		HEADER	SAMPLE	10						
15	+corr	0.01		10						
14	X	32.525	32.532	10						
13	X	32.525	32.532	10						
12	X	32.624	32.557	20						
11	X	32.571	32.583	30						
10	X	32.647	32.649	40						
9	X	32.693	32.691	60						
8	X	32.693	32.691	60						
7				60						
6				60						
5				60						
4				60						
3				60						
2				60						
1				60						

ENTERED BY: RHB
 CHECKED BY:

Bottom Depth: 4000 m

Cast No: CONRAD # 088

	LOC	UTC
Begin:		<u>1738</u>
Bottom:		<u>1741</u>
End:		<u>1802</u>
		<u>+7</u>

BEGIN POSITION (GPS)
 LAT: 49° 33.84
 LONG: 138° 40.12

BOTTOM POSITION (GPS)
 LAT: 49° 33.85
 LONG: 138° 40.12

END POSITION (GPS)
 LAT: 49° 34.01
 LONG: 138° 40.30

Comments
(2) extra trips -
5‰'s taken to confirm
depths -

CRUISE NO: 9512
 STATION NO: ✓ P26

UTC DATE: 3/9/95
 HYDRO No.: 114

VESSEL: John P. Tully

ENTERED BY: HUGA
 CHECKED BY:

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION			THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23				0	0						
22				0	0		} 2 TRIGGERS = 5 TRIPS				
21				0	0						
20				750	750	✓					
19				750	750	✓					
18				750	750	✓					
17				750	750	? DOUBLE					
16				750	750	x ✓ SPIKE					
15				1000	1000	? REPEAT					
14				1000	1000	✓ #1 SPIKE		DOUBLE ?			
13				1000	1000	? } HI LANG		TRIPS			
12				1000	1000	? } SPIKE					
11				1000	1000	✓					
10				1500	1500	✓					
9				1500	1500	xx ✓					
8				1500	1500	x ✓					
7				1500	1500	✓					
6				1500	1500	xx ✓					
5				3300	3300	x ✓					
4				3300	3300	✓					
3				3300	3300	✓					
2				3300	3300	✓					
1				3300	3300	✓					
					✗ NOT A SINGLE CONFIRMATION IN THE WHOLE CAST						

5 BOTTLES
 ↑ LEFT ALL @ 0

Bottom Depth: 4254
 Cast No: 113/114

LOC	UTC
Begin:	<u>1255</u>
Bottom:	<u>1336</u>
End:	<u>1434</u>

BEGIN POSITION (GPS)
 LAT: 50 02.07
 LONG: 144 57.06

BOTTOM POSITION (GPS)
 LAT: 50 02.07
 LONG: 144 55.93

END POSITION (GPS)
 LAT:
 LONG:

Comments
 CAST FOR PHIL BORD
 & MICHAEL LIPSEN

Rosette 1: 23 bottle

CRUISE NO: 9512
 STATION NO: A 26

UTC DATE: 4/9/95
 HYDRO No.: 117

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				0						
22				0						
21				200	200		✓			
20				200	200		✓			
19				200	200		✓			
18				200	200		✓			
17				200	200		✓			
16				250	250		✓			
15				250	250		✓			
14				250	250		✓			
13				250	250		✓			
12				250	250		✓			
11				500	500		✓			
10				500	500		✓			
9				500	500		✓			
8				500	500		✓			
7				500	500		✓			
6				750	750		✓			
5				750	750		✓			
4				750	750		✓			
3				1500	1500		✓			
2				1500	1500		✓			
1				1500	1500		✓			

ENTERED BY: HUGH
 CHECKED BY:

Bottom Depth:
 Cast No: John 117
Hy 117

LOC UTC
 Begin: 0134
 Bottom:
 End: 0239

BEGIN POSITION (GPS)
 LAT: 49 59.63
 LONG: 144 59.56

BOTTOM POSITION (GPS)
 LAT:
 LONG:

END POSITION (GPS)
 LAT:
 LONG:

Comments

CRUISE NO: 9512
 STATION NO: P26

UTC DATE: 4/9/95
 HYDRO No.: 118 120

VESSEL: **John P. Tully**

ENTERED BY: REGGIE ROTH
 CHECKED BY:

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION			THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23				0 ^{SURF}	0		✓				
22				10	10		✓				
21				20	20		✓				
20				30	30		✓				
19				40	40		✓				
18				50	50		✓				
17				50	50		✓				
16				80	80		✓				
15				80	80		✓				
14				100	100		✓	*			
13				100	100		✓				
12				120	120		✓				
11				120	120		✓				
10				150	150		✓				
9				150	150		✓				
8				180	180		✓				
7				180	180		✓				
6				200	200		✓				
5				200	200		✓				
4				250	250		✓				
3				250	250		✓				
2				300	300		✓				
1				300	300		✓				

*No done
see console
0122*

Bottom Depth:
 Cast No: 118/119

LOC UTC
 Begin: 1613
 Bottom:
 End: 1655

BEGIN POSITION (GPS)
 LAT: 49°59.60
 LONG: 144°57.66

BOTTOM POSITION (GPS)
 LAT: 49°59.61
 LONG: 144°57.44

END POSITION (GPS)
 LAT: 49°59.62
 LONG: 144°57.23

Comments
 * system bombed after sample 14 file 95120118
 Restart - file 95120120 samples 15-23
 Maureen Saen.
 #23 won't close.

Rosette 1: 23 bottle

CRUISE NO:

95-12

UTC DATE:

95-09-04

VESSEL: John P. Tully

STATION NO:

MP 26 'P'

HYDRO No.:

121/122
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				0	0					
22				0	0					
21				0	0					
20	8			2	2					
19	7			10	11					
18	6			10	10					
17	5			15	16					
* 16	4			20	20			T 647	12.775	T 451
15	3			20	21					12.750
14	2			30	28					
13	1			30	30					
12				40	39					
11				40	39					
10				45	44					
9				50	50					
8				50	51					
7				50	50					
6				55	55					
5				60	59					
* 4				80	78			T 577	6.416	T 446
3				80	78					6.447
2				80	79					
1				100	100					

ENTERED BY: *RHS*
CHECKED BY:

Bottom Depth:

Cast No:

LOC UTC

Begin:

Bottom:

End:

BEGIN POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments

Delphinus cast & re-make of part of maureen's cast.

CRUISE NO:
STATION NO:

95-12
MP 26 'P'

UTC DATE:
HYDRO No.:

95-09-05
131

VESSEL: John P. Tully

ENTERED BY: *RHB*
CHECKED BY:

NISK No.	SAMPLE No.	OXY. Flask	OXY. TEMP	Sample Depth db	ROSETTE OPERATION			THERMOMETER 1		THERMOMETER 2	
					Trip Depth (db)	Trip Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23				6	0	✓	c				
22				0	0	✓	c				
21				0	0	✓	c				
20				40	40	✓	c				
19				40	40	✓	c				
18				40	40	✓	c				
17				40	40	✓	c				
16				40	40	✓	c				
15				80	80	✓	c				
14				80	80	✓	c				
13				80	80	✓	c				
12				80	80	✓	c				
11				80	80	✓	c				
10				120	120	✓	c				
9				120	120	✓	c				
8				120	120	✓	c				
7				120	120	✓	c				
6				120	120	✓	c				
5				160	160	✓	c				
4				160	160	✓	c				
3				160	160	✓	c				
2				160	160	✓	c				
1				160	160	✓	click				

Bottom Depth: 4223
Cast No: 130
131

LOC	UTC
Begin:	1529
Bottom:	1533
End:	1556

BEGIN POSITION (GPS)
LAT: 49° 59.21'
LONG: 145° 0.35'

BOTTOM POSITION (GPS)
LAT: 49° 59.12'
LONG: 145° 0.29'

END POSITION (GPS)
LAT: 49° 59.03'
LONG: 145° 0.12'

Comments

CRUISE NO:
STATION NO:

95-12
MP 26 'P'

UTC DATE:
HYDRO No.:

95-09-05
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 Temp.	Trip Confirmed	SERIAL	Temp (oC)	SERIAL	Temp (oC)
23											
22											
21											
20											
19											
18											
17											
16											
15											
14											
13											
12				8	8	✓	C				
11				8	8	✓	C				
10				8	8	✓	C				
9				8	8	✓	C				
8				8	8	✓	C				
7				8	8	✓	C				
6				8	8	✓	C				
5				50	50	✓	C				*
4				50	50	✓	C				
3				50	50	✓	C				
2				50	50	✓	C				
1				50	50	✓	C				

ENTERED BY: RHB
CHECKED BY:

Bottom Depth: 4223
Cast No: 132 & 135

	LOC	UTC
Begin:		<u>1707</u>
Bottom:		<u>1711</u>
End:		<u>1735</u>

BEGIN POSITION (GPS)
LAT: 49° 58.64
LONG: 144° 59.36

BOTTOM POSITION (GPS)
LAT: 49° 58.64
LONG: 144° 59.34

END POSITION (GPS)
LAT: 49° 58.76
LONG: 144° 58.79

Comments
water for Jen
* Program bombed

Rosette 1: 23 bottle

CRUISE NO: 9512

UTC DATE: 6/9/95

VESSEL: John P. Tully

STATION NO: MP 26

HYDRO No.: 136

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				10	✓					
22				↑	✓					
21					✓					
20					✓					
19					✓					
18					✓					
17					✓					
16					✓					
15					✓					
14					✓					
13					✓					
12					✓					
11					✓	c				
10					✓	c				
9					✓	c				
8					✓	c				
7					✓	c				
6					✓	c				
5					✓	c				
4					✓	c				
3					✓	c				
2					✓	c				
1				10	✓	click				

ENTERED BY: RHT
 CHECKED BY:

Bottom Depth: 4283

Cast No:

	LOC	UTC
Begin:		<u>1530</u>
Bottom:		
End:		<u>1540</u>

BEGIN POSITION (GPS)
 LAT: 49° 58.77
 LONG: 144° 56.97

BOTTOM POSITION (GPS)
 LAT:
 LONG:

END POSITION (GPS)
 LAT: 49° 58.75
 LONG: 144° 56.93

Comments
(23) bottles @ 10m for MUN.

Rosette 1: 23 bottle

CRUISE NO:

UTC DATE:

Sept 7, 1995

VESSEL: John P. Tully

STATION NO:

MP 26 ^{Maurice's}
Est

HYDRO No.:

140 ← not sure

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				300	300					
22				300	300					
21				350	350					
20				350	350					
19				350	350					
18				400	405					
17				400	409	- Bottle bypassed by Rosette				
16				400	401	" " " "				
15				500	500					
14				500	500					
13				500	500					
12				1000	1000					
11				1000	1000					
10				1000	1000					
9				1500	1500					
8				1500	1500					
7				1500	1500					
6				2000	1999					
5				2000	1999					
4				2000	2000					
3				3000	2994					
2				3000	2996					
1				3000	3000					

ENTERED BY: _____
 CHECKED BY: _____

Bottom Depth: _____

Cast No: _____

	LOC	UTC
Begin:		
Bottom:		
End:		

BEGIN POSITION (GPS)
 LAT: _____
 LONG: _____

BOTTOM POSITION (GPS)
 LAT: _____
 LONG: _____

END POSITION (GPS)
 LAT: _____
 LONG: _____

Comments

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	Surface				0.6					
22	Surface				0.6					
21	5				5					
20	5				5					
19	10				10					
18	10				10					
17	20				20					
16	20				20					
15	30				30					
14	30				30					
13	40				40					
12	40				40					
11	50				50					
10	50				50					
9	60				59					
8	60				60					
7	70				71	not confirmed				
→ 6	70				71					
5	80				80	NOT Confirmed				
4	80				80					
3	90				90					
2	90				90					
1	100				99.94					

Salinity check

peak of concentrated mass

ENTERED BY: _____

CHECKED BY: _____

Bottom Depth: _____

Cast No: _____

LOC UTC

Begin: _____

Bottom: _____

End: _____

BEGIN POSITION (GPS)

LAT: _____

LONG: _____

BOTTOM POSITION (GPS)

LAT: _____

LONG: _____

END POSITION (GPS)

LAT: _____

LONG: _____

Comments