

[illegible]

VESSEL: John P. Tully

[illegible]

ENTERED BY: JF G

CHECKED BY:

Bottom Depth:	213
Cast No:	

	LOC	UTC
Begin:		1926
Bottom:		1931
End:		1951

BEGIN POSITION (GPS)	
LAT:	48 33.42
LONG:	123 31.25

BOTTOM POSITION (GPS)	
LAT:	48 33 38.2
LONG:	123° 31' 34"

END POSITION (GPS)	
LAT:	48° 33' 23.8"
LONG:	123° 31' 69"

Comments

bottle 12 requires
handle hole to be
plugged.

CRUISE NO: 9402/1
STATION NO: SW04

UTC DATE: MAY 10/94
HYDRO No.: 3

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)
11	35	1163	11.6	1	0.0	11.62	✓	10			27.612
10	34	1164	11.8	10	9.9	10.97	✓				28.033
9	34	1165	10.8	10	9.9	10.98	✓				28.144
8	33	1166	10.8	20	20.1	9.91	✓				29.262
7	32	1167	9.6	30	30.0	9.33	✓				29.475
6	31	1173	10.2	50	50.0	8.46	✓				29.676
5	30	1172	10.2	75	75.0	8.64	✓				30.333
4	29	1171	10.2	100	100.2	8.72	✓	125	P20905 T5777	124.5 7.064	T431 9.083 30.764
3	28	1170	10.4	125	124.6	9.08	✓				30.963
2	27	1169	10.2	150	169.5	9.43	✓				31.192
1	26	1168	10.6	165	169.4	9.45	✓				31.279
12	35A	1162	12.8	1	Tripped			1			
Do TITRATION USED SAL = 30.0 Depth = 0.0m											
Do PROGRAM CRASHED. RESTARTED. FILE APPENDED.											
Do " " AGAIN " " " " " " DOS.MA 2060.025											
Do " " " " " " restarted - appended.											
Oxygen: bottles 1162 assumed Sal. = 30 / D = 0.0											
1168, 1169, 1170 run with S, T in row, D in row											
T577 9.064 = 9.091											
T431 9.083 = 9.090											

9402/1
SHØ7

UTC DATE: MAY 10/94
HYDRO No.: 4

VESSEL: John P. Tully

[illegible]

ENTERED BY:	H3F
CHECKED BY:	

Bottom Depth:	169
Cast No:	4

	LOC	UTC
Begin:		2256
Bottom:		2309
End:		2316

BEGIN POSITION (GPS)
LAT: 48 44.28
LONG: 123 17.48

BOTTOM POSITION (GPS)	
LAT:	48 44.17
LONG:	123 17.66

END POSITION (GPS)	
LAT:	68 44.19
LONG:	123 17.93

[illegible]

[illegible]

* FLASK = 1159.

~~NO FREONS~~

[illegible]

CRUISE NO: 94-02
STATION NO: SA10

UTC DATE: MAY 11/94
HYDRO No.: 7

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)
14	77	1157	10.0	1	3	9.645	✓				
13	78	1156	10.0	10	10.6	9.579	✓				
12	79	1155	10.2	20	20.6	9.455	✓				
11	80	1144	10.0	30	30.5	9.488	✓				
10	81	1153	9.8	50	50.5	9.277	✓				
9	82	1152	9.4	75	75.7	8.936	✓				
8	83	1150	9.2	100	100.5	8.842	✓				
7	84	1151	9.4	125	125.1	8.777	✓				
6	85	1149	9.6	150	150.4	8.611	✓				
5	86	1148	9.4	175	174.9	8.587	✓				
4	87	1147	9.4	200	202.3	8.585	✓	7431	8.596	7577	8.603
3	88	1146	9.4	250	251.8	8.502	✓				
2	89	1145	9.2	250	251.63	8.503	✓				
1	90	1154	9.8	290	271.63	8.484	✓				
					no piers						
					14 Bottles tried						

ENTERED BY:
CHECKED BY:

Bottom Depth: 280
Cast No: 7

LOC	UTC
Begin:	0542
Bottom:	0548
End:	0607

BEGIN POSITION (GPS)
LAT: 48 34.16
LONG: 123 13 66

BOTTOM POSITION (GPS)
LAT: 48 34.12
LONG: 123 13.72

END POSITION (GPS)
LAT: 48 33.87
LONG: 123 13.97

Comments

[illegible]

[illegible]

[illegible]

[illegible]

MP04 (corrected)

UTC DATE: 94 05 12
HYDRO No.: 16

VESSEL: John P. Tully

[illegible]

ENTERED BY: 3W.

CHECKED BY:

Bottom Depth: 1318

Cast No:

	LOC	UTC
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Begin: 2116

Bottom: 2145

End: 2232

BEGIN POSITION (GPS)

LAT: 48 39.58 N

LONG: 126 39.78 W

BOTTOM POSITION (GPS)

LAT: 48 39.97

LONG: 126 39.64

END POSITION (GPS)

LAT: 48 40.58

LONG: 126 39 39

Comments

10 bottles at 1200 in for
CFC test

ORIGINAL

CRUISE NO:
STATION NO:9402
MP04UTC DATE: 940512
HYDRO No.: 16

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)
22 21	133	1003	11.4	10	* 10.3	11.870	✓			✓	31.36
21	134	1004	9.8	50	50.16		✓			✓	32.42
20	135	1008	8.4	100	100.8		✓			✓	33.44
19	136	1009	7.8	150	151		✓			✓	33.80
18	137	1010	7.2	200	199.9		✓			✓	33.89
17	138	1014	6.8	300	300		✓			✓	33.97
16	139	1016	6.2	400	400		✓			✓	34.03
15	140	1020	6.0	600	599.9		✓			✓	34.17
14	141	1022	5.4	600	600		✓			✓	34.17
13	142	1025	5.6	800	798.5		✓			✓	34.31
12	143	1026	5.0	1000	998		✓			✓	34.40
11	144	1027	3.2	1200	1199		✓			✓	34.47
10	145	1028	5.0	1200	1201		✓			✓	34.46
9	146	1029	5.2	1200	1197		✓			✓	34.46
8	147	1031	5.0	1200	1198		✓			✓	34.46
7	148	1032	5.2	1200	1199		✓			✓	34.47
6 5	149	1033	5.2	1200	1199		✓	no confirmation	triggered twice	✓	34.47
5 4	150	1036	5.2	1200	1200		✓			✓	34.47
4 3	151	1039	5.0	1200	* 1201	3.024	✓	T647 3.026	T679 3.027	P6314 1205	34.47 ✓
3 2	152	1040	5.2	1200			✓	= 3.034	= 3.032		34.47
2 1	153	1043	5.0	1200	1200		✓				34.47
1	154			B-10	1364		✓				

ENTERED BY: JW

CHECKED BY:

Bottom Depth: 1318

Cast No:

LOC UTC

Begin: 2116

Bottom: 2145

End: 2232

BEGIN POSITION (GPS)

LAT: 48 39.58

LONG: 126 39.78

BOTTOM POSITION (GPS)

LAT: 48 39.97

LONG: 126 39.64

END POSITION (GPS)

LAT: 48 40.58

LONG: 126 39.39

Comments

10 bottles at 1200 for
CFCs.

21 Bottles triggered

Rosette switch is 4 positions 21 at end of cast

Samples go to 153 only in 21 bottles triggered

check O2 on Sal for missing depth

VESSEL: John P. Tully

[illegible]

ENTERED BY: 263

CHECKED BY:

Bottom Depth: 3270

Cast No:

	LOC	UTC
Begin:	0507	1208
Bottom:		1308
End:		1450

BEGIN POSITION (GPS)
LAT: 48 58.42
LONG: 130 40.72

BOTTOM POSITION (GPS)
LAT: 48 58.63
LONG: 130 41.00

END POSITION (GPS)
LAT: 485869
LONG: 13041.66

Comments
down cast # 24
upcast # 24 + 25
upcast speed .7 m/sec
CTD 15m above bottom.
23 bottles tripped

VESSEL: John P. Tully

[illegible]

ENTERED BY: MR
CHECKED BY:

Bottom Depth: 3640
Cast No: 83

	LOC	UTC
Begin:		1447
Bottom:		1547
End:		1737

BEGIN POSITION (GPS)
LAT: 491716
LONG: 1344025

BOTTOM POSITION (GPS)	
LAT:	4917.08
LONG:	13439.98

END POSITION (GPS)
LAT: 49 16.86
LONG: 134 39.41

Comments

[illegible]

VESSEL: John P. Tully

[illegible]

ENTERED BY: *J.W.*

CHECKED BY: M R

Bottom Depth: 3978

Cast No: 39

LOC	UTC
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Begin:	0140
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Bottom: 0238

End: 0915

BEGIN POSITION (GPS)

LAT: 49' 49. 97

LONG: 142°39.79

BOTTOM POSITION (GPS)

LAT: 49° 49' 39"

LONG: 142° 38.93

END POSITION (GPS)

LAT: 49°48'48"

LONG: 142° 38.70

Comments

Upcast speed
 $\approx 1.4 \text{ m/s}$

WOCE LOG 1992

9402

MP26

UTC DATE: 19 MAY 94

HYDRO No.: 43

VESSEL: John P. Tully

[illegible]

CHECKED BY: JL MR

Cast No: 43

End:	1127
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LONG: 144' 59.83

LONG: 145°00.02

LONG: 145° 00 30

Oxygen samples did not dissolve well when acid added.

ALTB

TRIG

TURN ON

114/12/1998

MP 26

UTC DATE:

MAY 19th 1994

HYDRO No.:

44

VESSEL: John P. Tully

[illegible]

ENTERED BY: 71 W.

CHECKED BY: MR

Bottom Depth: 4238

Cast No: 44

LOC	UTC
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Begin:	1237
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Bottom: 1350

End: 1532

BEGIN POSITION (GPS)

LAT: 50°00.661

LONG: 144° 59.271

BOTTOM POSITION (GPS)

LAT: 50° 00 199

LONG: 144°59, 190

END POSITION (GPS)

LAT: 49° 59.63

LONG: 144° 59' 26"

Comments

2023/11/15

UTC DATE: 20 MAY 1994
HYDRO No.:

VESSEL: John P. Tully

ENTERED BY: F.W.
CHECKED BY: M.R.

Bottom Depth: 4237
Cast No: 45

LOC	UTC
BEGIN:	0758
BOTTOM:	0827
END:	0907

START POSITION (GPS)
LAT: 49°59.62
LONG: 144°59.12

MESS. POSITION (GPS)
LAT: 49° 59' 23"
LONG: 144° 59' 30"

END POSITION (GPS)
LAT: 49° 58.52
LONG: 145° 00.05

COMMENTS

[illegible]

VESSEL: John P. Tully

[illegible]

ENTERED BY:
CHECKED BY:

Bottom Depth:
Cast No:

	LOC	UTC
BEGIN:		2231
BOTTOM:		2317
END:		

START POSITION (GPS)
LAT: 5121.13
LONG: 134 32.89

MESS. POSITION (GPS)
LAT: 5120.32
LONG: 134 33.44

END POSITION (GPS)
LAT:
LONG:

COMMENTS