

Rosette 1: 23 bottle

CRUISE NO:

9505

UTC DATE:

May 9/95

VESSEL: John P. Tully

STATION NO:

513

HYDRO No.:

2

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	16	1120	12.3		0	-6	28.454			
15	15	1109	11.3	1	10.8	✓	28.685			
14	4	1108	10.4	10	20	✓	29.030			
13	13	1106	9.5	20	30	✓	29.194			
12	12	1105	8.9	30	40	✓	29.280			Blank
11	11	1104	8.9	40	40	CURRENT OK NO CONFIRM	29.471			.005
10	10	1103	8.7	50	50	✓	29.978			.002
9	9	1102	8.9	60	60	✓	30.294			.004
8	8	1101	8.9	80	80	✓	30.750			.005
7	7	1100	9.4	100	100	✓	31.132			.004
6	6	1097	9.8	120	121	✓	31.219			
5	5	1096	9.7	140	140	✓	31.252			1/2
4	4	1095	9.6	160	160	✓	31.267			.1717
3	3	1092	9.6	180	180	✓	31.280			.1717
2	2	1090	9.6	200	200	✓	31.288			.1717
1	1	1087	9.6	B-5m	218	OK Second try No current	31.288			.1717

ENTERED BY: 7.12

CHECKED BY:

Bottom Depth: 226

Cast No: 1 down

2 up

LOC

UTC

Begin:

2230

Bottom:

2236

End:

2257

BEGIN POSITION (GPS)

LAT: 4835.40

LONG: 12330.11

BOTTOM POSITION (GPS)

LAT: 4835.38

LONG: 12330.13

END POSITION (GPS)

LAT: 4835.24

LONG: 12330.36

Comments

Rosette 1: 23 bottle

CRUISE NO: 9505
STATION NO: GEO 1545

UTC DATE: 10/5/95
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 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				10	10	•				
5				20	20	•				
4				50	50	•				
3				100	100	•				
2				200	200	2ND TRIG				
1				B-50	310	•				

ENTERED BY: HUGH

CHECKED BY:

Bottom Depth: 400 m

Cast No:

LOC	UTC
Begin:	1411
Bottom:	1420
End:	1434

BEGIN POSITION (GPS)

LAT: 49 15.07

LONG: 123 45.00

BOTTOM POSITION (GPS)

LAT: 49 15.02

LONG: 123 44.97

END POSITION (GPS)

LAT: 49 15.12

LONG: 123 44.96

Comments

no salinity data, tubing left on sand cell.

Rosette 1: 23 bottle

CRUISE NO:

9505

UTC DATE:

11/5/95

VESSEL: John P. Tully

STATION NO:

MP04

HYDRO No.:

007

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	32	1110	10.8	10	10.3	•	31.552			
15	31	1109	9.6	25	24.2	•	32.496			
14	30	1108	9.3	50	49.1	•	32.572			
13	29	1106	9.0	75	73.5	•	33.149			
12	28	1105	8.7	100	100.2	•	33.517			
11	27	1104	7.8	150	149.9	•	33.818			
10	26	1103	7.6	200	201.0	2nd	33.904			
9	25	1102	6.5	300	299.8	•	33.956			
8	24	1101	6.3	400	399.7	•	34.019			
7	23	1100	5.7	500	501.4	•	34.080			
6	22	1097	5.5	600	600.0	•	34.160			
5	21	1096	4.9	800	801.7	•	34.287			
4	20	1095	5.0	800	801.2	•	34.287	3.789		
3	19	1092	4.7	1000	1000.4	•	34.383		3.748	1577
2	18	1090	4.3	1200	1199.1	•	34.443		(3.775)	
1	17	1087	3.9	B-20	1315.3	•	34.481			

ENTERED BY: HUGH
CHECKED BY:

Bottom Depth: 1324

Cast No: 7

	LOC	UTC
Begin:		1336
Bottom:		1403
End:		1539

BEGIN POSITION (GPS)
LAT: 49° 38.88
LONG: 126° 40.16BOTTOM POSITION (GPS)
LAT: 48° 38.74
LONG: 126° 40.29END POSITION (GPS)
LAT: 48° 38.96
LONG: 126° 40.81Comments
16 bottles used

Rosette 1: 23 bottle

CRUISE NO:

9505

UTC DATE:

13/5/95

VESSEL: John P. Tully

STATION NO:

MP 12

HYDRO No.:

22/27

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)
						Bottle	WOCF	58483		
25	23	55	1157	9.6	10	105	- 32.4951	32.481		
50	22	54	1150	9.7	10	10.6	- 32.5054	32.482		
75	21	53	1155	8.8	25	23.9	- 32.5152	32.483	high spike	2x
100	20	52	1154	8.6	50	50.2	- 33.2075	32.495		
150	19	51	1153	8.0	75	68.9	- 33.7924	32.501		
200	18	50	1152	7.7	100	98.4	- 33.9020	33.190		
300	17	49	1151	6.6	150	149.8	- 33.9627	33.778	34.738	
400	16	48	1150	6.4	200	201.6	- 34.0158	33.885	34.864	
500	15	47	1149	5.4	300	299.7	- 34.0600	33.746	33.942	
600	14	46	1148	5.4	400	398.4	- 34.1354	34.001	34.001	
800	13	45	1146	5.0	500	500.1	- 34.2840	34.047	34.043	
1000	12	44	1145	4.7	600	601.6	x - 34.3807	34.120	34.112	
1250	11	43	1144	4.2	800	798.7	- 34.4552	34.270	34.270	
1500	10	42	1143	4.1	1000	1000.0	- 34.5085	34.366	34.366	
1750	9	41	1142	3.8	1250	1250.8	- 34.5562	34.440	34.429	
2000	[8	40	1141	3.8	1500	1501.4	- 34.5891	34.493	34.489	
2000	[7	39	1140	3.7	1750	1750.1	- 34.5892	34.542		
2250	6	38	1139	3.4	2000	1998.9	- 34.6140	34.575		
2500	5	37	1138	3.3	2250	2249.5	- 34.6276	34.600		
2750	* [4	36	1137	3.3	2500 *	2501.6	- 34.6418	34.614	1.749 cto	T577 = 1.634 T647 1.659
2750	[3	35	1136	3.2	2750	2749.2	- 34.6419	34.629	(1.661)	(1.667)
3000	2	34	1135	3.5	3000	3000	- 34.6485	34.634		
3274.	1	33	1134	3.7	B-20	3274.5	x - 34.6504	34.638		
								Rosette pylon at position 3		

ENTERED BY: 210

CHECKED BY:

Bottom Depth:

Cast No: 22 down

23 mg

LOC

UTC

Begin:

00/4

Bottom:

0117

End:

0234

BEGIN POSITION (GPS)

LAT: 48 58.26

LONG: 13039.82

BOTTOM POSITION (GPS)

LAT: 48 58 / 4

LONG: 120 38.94

END POSITION (GPS)

LAT:

LONG:

Comments

BOTTLE #3 WIERD DOUBLE

SPike AFTER INITIAL TRIGGER

Spikes ??

Rosette 1: 23 bottle

CRUISE NO:

9505

UTC DATE:

14/5/95

VESSEL: John P. Tully

STATION NO:

MP 16

HYDRO No.:

32/33

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)
							Bottle	CTD		
23	78	1157	8.6	10	10.1	✓ high?	32.478	32.463		
22	77	1156	8.6	10	10.1	✓	32.477	32.464 0/3		
21	76	1155	8.2	25	26.7	✓	32.480			
20	75	1154	7.8	50	50.8	✓	32.497			
19	74	1153	7.2	75	78.0	✓	32.490			
18	73	1152	7.1	100	100.5	✓	32.546			
17	72	1151	6.7	150	150.7	✓	33.695			
16	71	1150	6.3	200	200.7	✓	33.836			
15	70	1149	5.4	300	300.3	✓	33.874			
14	69	1148	5.1	400	400.1	✓	33.956			
13	68	1146	4.7	600	603.2	✓	34.153			
12	67	1145	4.3	800	802.7	✓	34.288			
11	66	1144	4.0	1000	1002.4	✓	34.370			
10	65	1143	3.8	1250	1249.4	✓	34.439			
9	64	1142	3.5	1500	1499.8	✓	34.504			
8	63	1141	3.4	1750	1748.2	✓	34.552			
7	62	1140	3.0	2000	2000.2	X✓	34.586			
6	61	1139	3.0	2250	2249.7	✓	34.612	73.27 270	check endpoint	Pos.
5	60	1138	2.8	2500	2501.2	✓	34.632		T577	T647
4	59	1137	2.8	2750	2751.3	✓	34.645	1.652	1.610	1.635
3	58	1136	2.7	3000	3000.6	✓	34.654	34.641 0/3	(1.637)	(1.643)
2	57	1135	2.6	3250	3249.9	✓	34.661	34.648		
1	56	1134	2.6	B-20	3679.2	✓ high	34.670	34.657 0/3		

ENTERED BY: BM

CHECKED BY:

Bottom Depth:

Cast No: 32 ↓
33 ↑

LOC

UTC

Begin: 0352

Bottom: 0438

End: 0555

BEGIN POSITION (GPS)

LAT: 49 16.84

LONG: 134 40.32

BOTTOM POSITION (GPS)

LAT: 49 16.72

LONG: 134.40.71

END POSITION (GPS)

LAT: 49 16.62

LONG: 134 41.43

Comments

10m above bottom

Rosette 1: 23 bottle

CRUISE NO:

9505

UTC DATE:

15/5/95

VESSEL: John P. Tully

STATION NO:

MP 20

HYDRO No.:

40/41

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)
				surface	.2		Bottle	CTD		
23	101	1157	8.4	10	✓ 11.2	✓	32.6566			
22	100	1156	8.4	10	✓ 11.1	X✓	32.6512			
21	99	1155	8.1	25	✓ 25.1	✓	32.6365			
20	98	1154	7.5	50	✓ 48.7	✓	32.6933			
19	97	1153	6.9	75	✓ 74.7	✓	32.7093			
18	96	1152	6.6	100	✓ 100.3	✓	33.8099			
17	95	1151	6.9	150	✓ 151.8	✓	33.7600			
16	94	1150	6.5	200	✓ 200.3	✓	33.8421			
15	93	1149	5.4	300	✓ 300.3	✓	33.8652			
14	92	1148	5.2	400	✓ 400.6	✓	33.9530			
13	91	1146	4.8	600	✓ 599.9	✓	34.1512	.102	check and point 26.67	
12	90	1145	4.4	800	✓ 802.2	✓	34.2704			
11	89	1144	4.1	1000	✓ 1002.9	✓	34.3617			
10	88	1143	3.9	1250	✓ 1250.4	✓	34.4360			
9	87	1142	3.6	1500	✓ 1500.9	✓	34.4910			
8	86	1141	3.3	1750	✓ 1747.8	✓	34.5482			
7	85	1140	3.2	2000	✓ 2000.0	✓	34.5820			
6	84	1139	3.2	2250	✓ 2250.2	✓	34.6104			
5	83	1138	2.9	2500	✓ 2500.2	✓	34.6287			
* 4	82	1137	2.8	2750	✓ 2749.8	✓	34.6438	1.6431	1577 1.600	T647 1.624
3	81	1136	2.7	3000	✓ 2999.3	✓	34.6548	34.6414 .0134	(1.627)	(1.632)
2	80	1135	2.6	3500	✓ 3501.5	✓	34.6696	34.6569 .0127		
1	79	1134	2.5	B-20	4013.1	X✓	34.6778	34.6662 .0116		

ENTERED BY: J.W.

CHECKED BY: H.M.

Bottom Depth: 3953

Cast No: 40 ↓
41 ↑

LOC UTC

Begin: 0233

Bottom: 0328

End: 0444

BEGIN POSITION (GPS)

LAT: 49° 34.054

LONG: 138° 40.263

BOTTOM POSITION (GPS)

LAT: 49 34.07

LONG: 138 40.37

END POSITION (GPS)

LAT: 49 33.89

LONG: 138 40.27

Comments

Rosette 1: 23 bottle

CRUISE NO:

9505

UTC DATE:

15/5/95

VESSEL: John P. Tully

STATION NO:

MP23

HYDRO No.:

47.

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			
23	124	1157	7.7	10	10	✓ 10.7	32.672			
22	123	1156	7.7	25	25	✓ 25.4	32.678			
21	122	1155	6.7	50	49	✓ 49.4	32.681			
20	121	1154	6.6	75	75	X✓ 75.2	32.691			
19	120	1153	6.1	100	100	✓ 99.9	32.715			
18	119	1152	6.2	150	150	X✓ 150.12	33.758			
17	118	1151	5.8	200	200	✓ 198.9	33.832			
16	117	1150	5.1	300	298	✓ 297.5	33.848			
15	116	1149	4.8	400	400	X✓ 399.8	33.927			
14	115	1148	4.9	400	400	✓ 399.8	33.927			
13	114	1146	4.4	600	599	✓ 598.2	34.143			
12	113	1145	4.3	800	805	✓ 806.6	34.265			
11	112	1144	4.2	1000	980*	✓ 982.9	34.337			
10	111	1143	3.7	1250	1249	✓ 1249.5	34.421			
9	110	1142	3.4	1500	1500	✓ 1502.3	34.480			
8	109	1141	3.1	1750	1748	✓ 1748.1	34.525			
7	108	1140	3.0	2000	2000	✓ 2001.0	34.565			
6	107	1139	2.9	2250	2250	✓ 2249.4	34.591			
5	106	1138	2.9	2500	2500	✓ 2500.9	34.612		T577	T647
4	105	1137	3.0	2750	2750	✓ 2751.1	34.629		1.599	1.624
3	104	1136	2.8	3000	3000	✓ 3007.4	34.639		(1.626)	(1.632)
2	103	1135	2.7	3500	3500	✓ 3497.1	34.656			
1	102	1134	2.7	B-20	3818	✓ 3819.2	34.663	300 m off	bottom	

ENTERED BY: J.W.

CHECKED BY:

Bottom Depth: 4057

Cast No: 46 down

47 up

LOC

UTC

Begin: 2122

Bottom: 2212

End: 2341

BEGIN POSITION (GPS)

LAT: 49 46.10

LONG: 141 40.16

BOTTOM POSITION (GPS)

LAT: 49 46.13

LONG: 141. 40.21

END POSITION (GPS)

LAT: 49 45.92

LONG: 141 40.40

Comments

* SHIP SWINGING

BAD WIRE ANGLE

Rosette 1: 23 bottle

CRUISE NO:

9505

UTC DATE:

17/5/95

VESSEL: John P. Tully

STATION NO:

MP26 (1)

HYDRO No.:

51

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			
23	147	1157	6.9	10	9.8	✓	32.673			
22	146	1156	7.2	25	25.8	✓	32.673			
21	145	1155	6.5	50	49.2	✓	32.683			
20	144	1154	6.4	75	76.1	X/NO CURRENT	32.707	cond Trip	check end point	(3)
19	143	1153		100	101.2	✓	32.742	ot Trip	by passed	
18	142	1152	6.3	125	126.2	X/NO CURRENT	33.593	Try		
17	141	1151	5.9	150	150.9	✓	33.778			
16	140	1150	5.8	175	175.6	✓	33.814			
15	139	1149	5.4	200	199.6	✓	33.806			
14	138	1148	4.9	250	248.8	✓	33.838			
13	137	1146	4.9	300	300.2	X/NO CURRENT	33.910			
12	136	1145	4.7	400	403.0	✓	34.001			
11	135	1144	4.5	500	502.6	✓	34.090			
10	134	1143	4.4	600	598.5	✓	34.160			
9	133	1142	4.2	700	699.6	✓	34.219			5000.25
8	132	1141	4.1	800	800.8	✓	34.275			144.59.47
7	131	1140	3.7	900	898.8	✓	34.317			
6	130	1139	3.9	1000	1000.9	✓	34.354			
5	129	1138	3.5	1200	1200.8	✓	34.418		T577	T647
4	128	1137	3.5	1400	1403.0	✓	34.464	2.448	2408	2432
3	127	1136	3.2	1600	1601.1	✓	34.508		(2.435	(2.440)
2	126	1135	3.2	1800	1800.6	✓	34.540			
1	125	1134	3.0	2000	1997.9	✓	34.567			
Ros. Pylon 2 places past CTD when retrieved (2 extra trips)										

ENTERED BY:

CHECKED BY:

Bottom Depth: 4255

Cast No: 50 down

51 up

LOC

UTC

Begin: 2331

Bottom: 0003

End: 0057

BEGIN POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT: 50 00.25

LONG: 144.59.47

END POSITION (GPS)

LAT:

LONG:

Comments

Rosette 1: 23 bottle

CRUISE NO: 9505
STATION NO: MP26

UTC DATE: 17/5/95
HYDRO No.: 53

VESSEL: John P. Tully
POC / NOC.

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	-4					
22										
21										
20										
19										
18										
17										
16										
15										
14										
13										
12	156			200	200	.				
11	155			300	300	.				
10	154			400	400	.				
9	153			500	500	.				
8	152			600	600	.				
7	151			800	800	.				
6	150			1000	1000	.				
5	149			1200	1200	.				
* 4	148			1500	1500	.				
3				1500	1501	.				
2				1500	1500	.				
1				1500	1502	.				

ENTERED BY: H.M.

CHECKED BY:

Bottom Depth:

Cast No: 52

53

LOCUTC

Begin:

Bottom:

End:

BEGIN POSITION (GPS)

LAT:

LONG:

BOTTOM POSITION (GPS)

LAT:

LONG:

END POSITION (GPS)

LAT:

LONG:

Comments

12 bottles closed.

Rosette 1: 23 bottle

CRUISE NO:

9505

UTC DATE:

17/5/95

VESSEL: John P. Tully

STATION NO:

MP26 (3)

HYDRO No.:

55

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	179	1125		10	10	✓				
22	178	1122	7.0	10	10	✓	32.6900			
21	177	1121	6.9	50	10	✓	32.6900			
20	176	1120	6.6	50	50	✓	32.6973			
19	175	1119	6.5	100	50	✓	32.6983			
18	174	1114	5.9	100	100	✓	32.7406			
17	173	1113	5.7	200	100	✓	32.7450			
16	172	1111	5.7	200	200	✓	33.8288			
15	171	1110	5.5	400	200	✓	33.8290			
14	170	1109	5.1	400	400	✓	33.9832			
13	169	1108	5.0	600	400	✓	33.9841			
12	168	1106	4.8	600	600	✓	34.1670			
11	167	1105	4.6	800	600	✓	34.1670			
10	166	1104	4.4	800	800	✓	34.2880			
9	165	1103	4.3	1000	800	✓	34.2880			
8	164	1101	4.3	1250	1000	✓	34.3734			
7	163	1100	3.8	1500	1249	✓	34.4397			
6	162	1097	3.6	1750	1500	✓	34.4984			
5	161	1096	3.4	2000	1750	✓	34.5413			
4	160	1095	3.4	2250	2000	✓	34.5779	1.9581	1.936	1.959
3	159	1092	3.3	2500	2000	✓	34.5778		(1.963)	(1.967)
2	158	1090	3.3	2750	2750	✓	34.6418			
1	157	1087	3.1	3000	3000	✓	34.6518			
							3000 db			

ENTERED BY:

CHECKED BY:

Bottom Depth: 4255

Cast No: 54

55 upcast

LOC

UTC

Begin: 2251

Bottom: 2304

End: 0022

BEGIN POSITION (GPS)

LAT: 4959.58

LONG: 14500.00

BOTTOM POSITION (GPS)

LAT: 4959.58

LONG: 14500.18

END POSITION (GPS)

LAT: 4959.50

LONG: 14459.83

Comments

23 bottles stored.

* THERMOMETER

Rosette 2: 12 bottle

CRUISE NO: 9505

UTC DATE: 22 May 1995

VESSEL: John P. Tully

STATION NO: MP13

HYDRO No.: 59/60

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	189 188			1	✓ 17			32.519		
10	188			1						
9	187			10	✓ 10.2			32.52		
8	186			25	✓ 25.4			32.51		
7	185			50	✓ 49.3			32.48		
6	184			75	✓ 76.0			32.48		
5	183			100	✓ 99.6			32.74		
4	182			* 200	✓ 200.0			33.85		
3	181			* 400	✓ 401.3			33.96		
2	180			* 600	✓ 602.7			34.13		
1	179			* 1000	✓ 1001.7			34.36		

ENTERED BY: J.W.

CHECKED BY: BM

Bottom Depth:

Cast No: 59 down

60 upcast

LOC

UTC

Begin: 0530

Bottom: 0548

End: 0621

BEGIN POSITION (GPS)

LAT: 49 02.85

LONG: 131 40.21

* SAL + NUT ONLY (NO CHL)

Rosette 2: 12 bottle

CRUISE NO: 9505

UTC DATE: 22/5/95

VESSEL: John P. Tully

STATION NO: MP 12 A

HYDRO No.: 61/62

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	194			1	1.5		32.29			
5	193			10	10.9		32.31			
4	192			25	26.2		32.53			
3	191			50	50.1		32.56			
2	190			75	76.8		32.57			
1	189			100	101.2		32.65			

ENTERED BY: JL
CHECKED BY:

Bottom Depth: 200

Cast No: 61/62

	LOC	UTC
Begin:	0149	0849
Bottom:	154	0854
End:	0203	0903

BEGIN POSITION (GPS)
LAT: 4900.53
LONG: 131 10.25

Rosette 2: 12 bottle

CRUISE NO: 9505

UTC DATE: 22/5/95

VESSEL: John P. Tully

STATION NO: MP12

HYDRO No.: 63/64

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	200			1	2.8	•		32.21		
5	199			10	14.4	•		32.20		
4	198			25	25	X✓		32.21		
3	197			50	49.9	•		32.45		
2	196			75	75.6	•		32.60		
1	195			100	99.7	•		32.97		

ENTERED BY: HUGH/TIM/KATE
CHECKED BY:

Bottom Depth: 3239

Cast No: 63/64

	LOC	UTC
Begin:		1128
Bottom:		1134
End:		1144

BEGIN POSITION (GPS)
LAT: 4858.13
LONG: 13040.06

Rosette 2: 12 bottle

CRUISE NO: 9505

UTC DATE: 22/5/95

VESSEL: John P. Tully

STATION NO: MP11

HYDRO No: 65/66

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	206			1	1.6	✓				
5	205			10	10.0	✓				
4	204			25	24.6	✓				
3	203			50	50.1	✓				
2	202			75	74.6	✓				
1	201			100	100.3	✓				

ENTERED BY: HUGH/TIM/KATE
CHECKED BY:

Bottom Depth: 2750

Cast No: 65/66

	LOC	UTC
Begin:		1432
Bottom:		1438
End:		1445

BEGIN POSITION (GPS)
LAT: 48° 56.083
LONG: 130° 10.143

Rosette 2: 12 bottle

CRUISE NO: 9505

UTC DATE: 22/5/95

VESSEL: John P. Tully

STATION NO: MP10

HYDRO No.: 67/68

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

ROSETTE OPERATION

Trip
Depth (db)

Trip
Confirmed

THERMOMETER 1
SERIAL Temp (oC)

THERMOMETER 2
SERIAL Temp (oC)

ENTERED BY: Jm

CHECKED BY:

11											
10											
9											
8											
7											
6	212			1	.7						
5	211			10	✓ 10.6						
4	210			25	✓ 24.5						
3	209			50	✓ 50.4						
2	208			75	✓ 75.1						
1	207			100	✓ 100.0						

Bottom Depth:

Cast No:

LOC

UTC

Begin: 1010

1710

Bottom: 1015

1715

End: 1023

1723

BEGIN POSITION (GPS)

LAT: 48 53.58

LONG: 129 40.11

Rosette 2: 12 bottle

CRUISE NO: 9505
STATION NO: MP09

UTC DATE:
HYDRO No.: 69/20

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										
6	218			1	1.4					
5	217			10	10.6					
4	216			25	24.2					
3	215			50	50.6					
2	214			75	75.2					
1	213			100	100.0					

ENTERED BY:
CHECKED BY: SC

Bottom Depth:
Cast No: 69/20

	LOC	UTC
Begin:		20 06
Bottom:		20 12
End:		20 20

BEGIN POSITION (GPS)
LAT: 48 51 277
LONG: 129 10 079

Rosette 2: 12 bottle

CRUISE NO: 9505

UTC DATE: 22/MAY/1975

VESSEL: John P. Tully

STATION NO: MPO8

HYDRO No.: 71/72

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

ROSETTE OPERATION

Trip Depth (db)	Trip Confirmed
--------------------	-------------------

THERMOMETER 1
SERIAL **Temp (oC**

THERMOMETER 2
SERIAL Temp (oC)

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast No:

LOC

UTC

Begin:

2245

Bottom:

2248

End:

225-

BEGIN POSITION (GPS)

LAT: 48 49.00

LONG: 128 40.00

Rosette 2: 12 bottle

CRUISE NO: 9505

UTC DATE: 23

VESSEL: John P. Tully

STATION NO: 01 09

HYDRO No.: 73/14

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

ROSETTE OPERATION

Trip
Depth (db)

Trip
Confirmed

THERMOMETER 1
SERIAL Temp (oC)

THERMOMETER 2
SERIAL Temp (oC)

ENTERED BY: HUGH/TIM/KATE
CHECKED BY:

11										
10										
9										
8										
7										
6	230			1	1.9	.				
5	229			10	9.9	.				
4	228			25	26.0	.				
3	227			50	50.4	.				
2	226			75	75.5	.				
1	225			100	100.6	.				

Bottom Depth:

Cast No: 73/74

LOC

UTC

Begin:

0153

Bottom:

0158

End:

0206

BEGIN POSITION (GPS)

LAT: 49° 06.397

LONG: 129° 10.022

Rosette 2: 12 bottle

CRUISE NO: 9505

UTC DATE: 23/5/95

VESSEL: John P. Tully

STATION NO: DI 10

HYDRO No.: 75/76

[illegible]

ENTERED BY:

CHECKED BY:

Bottom Depth: 2393

Cast No:

LOC

UTC

Begin: 0445

Bottom: 0450

End: 0459

BEGIN POSITION (GPS)

LAT: 49 23.30

LONG: 129 39.96

Rosette 2: 12 bottle

CRUISE NO: 9505

UTC DATE: 23 MAY 95

VESSEL: John P. Tully

STATION NO: D I 11

HYDRO No.: 78

[illegible]

ENTERED BY: JC

CHECKED BY:

Bottom Depth: 2401

Cast No:

LOC

UTC

Begin: 08 03

Bottom: 0808

End: 0814

BEGIN POSITION (GPS)

LAT: 49 41 077

LONG: 130 10 047

Rosette 2: 12 bottle

CRUISE NO: 9505

UTC DATE: 23 MAY 95

VESSEL: John P. Tully

STATION NO: NP12

HYDRO No.: 80

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	248			1	1.5	.				
5	247			10	10	.				
4	246			25	25	.				
3	245			50	50	.				
2	244			75	75	.				
1	243			100	100	.				

ENTERED BY: HUEY/TIM/KATE
CHECKED BY:

Bottom Depth: 2420
Cast No: 79/80

	LOC	UTC
Begin:		1103
Bottom:		1109
End:		1118

BEGIN POSITION (GPS)
LAT: 49° 58.037
LONG: 130° 40.201

Rosette 2: 12 bottle

CRUISE NO: 9505

UTC DATE: 23

VESSEL: John P. Tully

STATION NO: NP 11

HYDRO No.: 82

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

ROSETTE OPERATION

Trip Depth (db)	Trip Confirmed
--------------------	-------------------

THERMOMETER 1
SERIAL Temp (oC

THERMOMETER 2
SERIAL Temp (oC)

ENTERED BY: HUGH/TIM/KATE

CHECKED BY:

[illegible]

Bottom Depth: 2378

Cast No: 81/82

LOC

UTC

Begin: 1336

Bottom: 1342

End: 1349

BEGIN POSITION (GPS)

LAT: 49° 55.787

LONG: 130° 09.939

Rosette 2: 12 bottle

CRUISE NO: 9505

UTC DATE: 23 MAY/95

VESSEL: John P. Tully

STATION NO: NP 10

HYDRO No.: 84

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

ROSETTE OPERATION

Trip Depth (db)	Trip Confirmed
--------------------	-------------------

THERMOMETER 1
SERIAL Temp (oC

THERMOMETER 2
SERIAL Temp (oC)

ENTERED BY:

CHECKED BY:

Bottom Depth:

Cast No: 83/84

LOC

UTC

Begin:

Bottom:

End:

BEGIN POSITION (GPS)

LAT:

LONG:

Rosette 2: 12 bottle

CRUISE NO: 9505
STATION NO: NP09

UTC DATE: 23/5/95
HYDRO No.: 85/86

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										
6	266			1	✓ 1.2		10.660			
5	265			10	✓ 9.8		10.655			
4	264			25	✓ 24.8		10.588			
3	263			50	✓ 50.3		8.709			
2	262	303-335		75	✓ 75.4		8.032			
1	261			100	✓ 100.7		7.860			

ENTERED BY: BTM
CHECKED BY:

Bottom Depth:
Cast No: 85
86

LOC	UTC
Begin:	
Bottom:	
End:	

BEGIN POSITION (GPS)

LAT:

LONG:

222 - 244

Rosette 2: 12 bottle

CRUISE NO: 9505
STATION NO: NP08

UTC DATE: 23/MAY/95
HYDRO No.: 87/88

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										
6	272			1	1	✓				
5	271			10	9	✓				
4	270			25	26	✓				
3	269			50	50	✓				
2	268			75	76	✓				
1	267			100	100	✓				

ENTERED BY: JL
CHECKED BY:

Bottom Depth: 2234
Cast No:

	LOC	UTC
Begin:		2058
Bottom:		2103
End:		2112

BEGIN POSITION (GPS)

LAT: 49 48 909
LONG: 128 39 639