

ROSETTE LOG

IOS CAST

MISSION ID: 2007-15 STATION: SIO3 CAST NUMBER: 1 UTC DATE (dd/mm/yyyy): 15/07/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	1	1333	0	Bot-10	✓ 217	✓		✓										
2	2	1338	0	200	✓													
3	3	1340	0.031	175	✓													
4	4	1341	0.055	150	✓													
5	5	1344	0.513	125	✓													
6	6	1347	0.636	100	✓													
7	7	1349	1.423	75	✓													
8	8	1351	3.020	50	✓													
9	9	1354	3.387	25	✓													
10	10	1356	3.890	10	✓ 11.04													
11	11	1358	4.774	5	62													
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully
 ENTERED BY: HR & WRC
 CHECKED BY: DA

Bottom Depth: 225

Cast # down: 1
 Cast # up: 1

Time	LOC	UTC
Begin:		2101
Bottom:		2107
End:		2124

START POSITION (GPS)
 LAT: 48 35.66
 LONG: 123 30.08

BOTTOM POSITION (GPS)
 LAT: 48 35 20
 LONG: 123 30 02

END POSITION (GPS)
 LAT: 48° 35.84' N
 LONG: 123° 29.99' W

Comments: OXYGEN: RED BOX
 NUTRIENTS: GREEN RACK

ROSETTE LOG

UBC CAST

MISSION ID: 2007-15 STATION: SI03 CAST NUMBER: 2 UTC DATE (dd/mm/yyyy): 15/08/2007 UTC

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION			Samples taken												Cast to Collect water for UBC scientists																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
				Sample Depth	Confirmed pressure		SAL		NUT		TCO		C13																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
1	12			200	✓	200																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

Comments:

SHIP: CCGS JP TULLY
ENTERED BY: WRC
CHECKED BY:

Bottom Depth: 226

Cast # down: 2
Cast # up:

Time	LOC	UTC
Begin:	1523	2223
Bottom:	1530	2230
End:	1555	2255

START POSITION (GPS)
LAT: 48 35 629
LONG: 123 30.043

BOTTOM POSITION (GPS)
LAT: 48 35.629
LONG: 123 30.043

END POSITION (GPS)
LAT: 48 35.742
LONG: 123 30.059

ROSETTE LOG

MISSION ID: 2007-15 STATION: P2 CAST NUMBER: 4 UTC DATE (dd/mm/yyyy): 16/08/07

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		RHA				
							OXY			ALK		CHL		LIB				
1	37	1443	2.277	Bot-10	✓ 105	✓												
2	38	1414	2.950	100	✓ 100	✓						✓						
3	39	1418	4.408	75	✓	✓						✓						
4	40	1421	4.405	75	✓	✓						✓						
5	41	1424	4.245	50	✓	✓						✓						
6	42	1426	4.073	25	✓	✓	✓	✓				✓						50
7	43	—		10	✓													00
8	44	—		10	✓													00
9	45	—		10	✓													00
10	46	—		10	✓													00
11	47	1431	7.580	10	✓	✓						✓	✓	✓				50
12	48	1432	7.978	5	✓	✓						✓						50
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: J.P. TULLY
 ENTERED BY: MR
 CHECKED BY: _____

Bottom Depth: 116

Cast # down: 4
 Cast # up: _____

Time	LOC	UTC
Begin:	<u>0823</u>	<u>1523</u>
Bottom:	<u>0827</u>	<u>1527</u>
End:	<u>1539</u>	

START POSITION (GPS)
 LAT: 48 36 05
 LONG: 125 59 99

BOTTOM POSITION (GPS)
 LAT: 48 36 05
 LONG: 125 59 99

END POSITION (GPS)
 LAT: 48 35 95
 LONG: 125 59 99

Comments: OXYGEN: BLUE BOX
NUTRIENTS: RED RACK

ROSETTE LOG

SHALLOW CAST

12-1.5m/gal

MISSION ID: 2007-15 STATION: P4 CAST NUMBER: 8 UTC DATE (dd/mm/yyyy): 16/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		HPCL				
						OXY				ALK		CHL		ONAR				
1	50			300	✓ 300			✓	✓									20
2	51			200	✓			✓	✓									30
3	52			175	✓			✓	✓					✓				20
4	53			100	✓			✓	✓			✓	✓					55
5	54			75	✓			✓	✓			✓	✓					40
6	55			50	✓			✓	✓			✓	✓					50
7	56			40	✓			✓	✓			✓	✓					05
8	57			30	✓			✓	✓			✓	✓					20
9	58			25	✓			✓	✓			✓	4					30
10	59			20	✓			✓	✓			✓	✓					25
11	60			15	✓			✓	✓			✓	✓					40
12	61			10	✓			✓	✓			✓	4					40
13	62			5	✓			✓	✓			✓	4					10
14	63			5	✓			✓	✓			✓	✓			✓		
15	64			0	✓			✓	✓			✓	✓					
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully
ENTERED BY: WRC
CHECKED BY:

Bottom Depth: 1305

Cast # down: 8
Cast # up:

Time	LOC	UTC
Begin:	1356 PDT	2056 UTC
Bottom:	1401 "	2101
End:	1421 "	2121

START POSITION (GPS)
LAT: 48 39.157 N
LONG: 126 39.695 W

BOTTOM POSITION (GPS)
LAT: 48 39.078 N
LONG: 126 39.578 W

END POSITION (GPS)
LAT: 48 38.976 N
LONG: 126 39.481 W

Comments: NUTS: BROWN BACK

ROSETTE LOG

ANISSA'S CAST

MISSION ID: 2007-15 STATION: P4 CAST NUMBER: 9 UTC DATE (dd/mm/yyyy): 16/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	C13	CHL						
1	65			1200	✓	1200												CHUK
2	66			1000	✓													Anissa 20
3	67			1000	✓													
4	68			500	✓													
5	69			500	✓													10
6	70			10	✓													45
7	71			10	✓													
8	72			10	✓													
9	73			10	✓													
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully
 ENTERED BY: WRC
 CHECKED BY:

Bottom Depth: 1311

Cast # down: 9

Cast # up:

Time	LOC	UTC
Begin:		2210
Bottom:		2228
End:		2245

START POSITION (GPS)
 LAT: 48 39.074 N
 LONG: 126 40.024 W

BOTTOM POSITION (GPS)
 LAT: 48 39.025
 LONG: 126 39.895

END POSITION (GPS)
 LAT: 48 38.988 N
 LONG: 126 39.821 W

Comments:

ROSETTE LOG

MISSION ID: 2007-15 STATION: P4 CAST NUMBER: 10 UTC DATE (dd/mm/yyyy): 16/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	C13	CHL	OC2	OC3	OC4	OC5	OC6	OC7	
1	74	1297	0.460	Bot-10	✓	1306	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	75	1300	0.372	1250	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15
3	76	1301	0.210	1000	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	55
4	77	1302	0.227	1000	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	78	1305	0.255	800	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6	79	1306	0.454	600	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	415
7	80	1307	0.980	400	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	40
8	81	1309	1.335	300	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	25
9	82	1313	2.581	250	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	415
10	83	1314	1.875	200	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	08
11	84	1315	2.163	175	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13
12	85	1317	2.581	150	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12
13	86	1318	3.380	125	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	14
14	87	1319	4.221	100	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	19
15	88	1320	6.062	75	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	20
16	89	1321	6.478	50	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	20
17	90	1322	6.383	25	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	30
18	91	1323	6.203	10	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	30
19	92	1324	5.987	5	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	20
20																		
21																		
22																		
23																		
24																		

Comments: NUTRIENTS: WHITE RACK
OXYGEN: WHITE BOX

SHIP: Tully
ENTERED BY: JRC
CHECKED BY:

Bottom Depth: 1310 m

Cast # down: 10

Cast # up:

Time	LOC	UTC
Begin:	<u>1618PDT</u>	<u>2318</u>
Bottom:	<u>1638PDT</u>	<u>2338</u>
End:	<u>1510PDT</u>	<u>0010</u>

START POSITION (GPS)
LAT: 48 39.080
LONG: 126 39.874

BOTTOM POSITION (GPS)
LAT: 48 39.065N
LONG: 126 39.598W

END POSITION (GPS)
LAT: 48 39.007N
LONG: 126 39.308

ROSETTE LOG

Chris Langdon
Miami

MISSION ID: 2007-15 STATION: P8 CAST NUMBER: 14 UTC DATE (dd/mm/yyyy): 17/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	96	1297	1.413	2000	✓	✓												
2	97	1306	0.797	1500	✓													
3	98	1301	0.361	1250	✓													
4	99	1302	0.276	1000	✓													
5	100	1305	0.305	800	✓													
6	101	1306	0.309	800	✓													
7	102	1307	0.433	600	✓													
8	103	1309	1.083	400	✓													
9	104	1313	1.697	300	✓													
10	105	1314	2.397	250	✓													
11	106	1315	3.320	200	✓													
12	107	1317	3.402	175	✓													
13	108	1318	3.798	150	✓													
14	109	1319	4.565	125	✓													Hot well sealed
15	110	1320	5.269	100	✓													
16	111	1321	6.478	75	✓													
17	112	1322	6.787	50	✓													
18	113	1323	5.996	25	✓													
19	114	1324	5.836	10	✓													
20	115			10	✓													
21	116			10	✓													
22	117			10	✓													
23	118			10	✓													
24	119			5	✓													loop

SHIP: Tully
ENTERED BY: WRC
CHECKED BY: MD

Bottom Depth: 2373

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	0529	1229
Bottom:	0559	1259
End:	0656	1356

START POSITION (GPS)
LAT: 48 49 014
LONG: 128 40 039

BOTTOM POSITION (GPS)
LAT: 48 48 988
LONG: 128 39 996

END POSITION (GPS)
LAT: 48 49 014
LONG: 128 40 003

Comments: Not yellow
Oxy white

ROSETTE LOG

MISSION ID: 2007-15 STATION: P12 CAST NUMBER: 19 UTC DATE (dd/mm/yyyy): 18/8/07

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3		FAZI		HR		
						OXY		CHL		ALK		CHL		FCM		DI7		
1	123	1413	2.556	Bot-10	✓ 3222	✓	✓	✓	✓	✓				✓	✓	✓		
2	124	1414	2.425	3000	✓					✓				✓	✓	✓		
3	125	1418	2.321	3000	✓													
4	126	1421	1.916	2500	✓													
5	127	1424	1.397	2000	✓					✓				✓	✓	✓		
6	128	1426	0.692	1500	✓									✓	✓	✓		
7	129	1427	0.1432	1250	✓			✓	✓									
8	130	1428	0.263	1000	✓				✓					✓	✓	✓	✓	
9	131	1429	0.361	800	✓				✓									
10	132	1430	0.670	600	✓				✓								✓	
11	133	1431	1.467	400	✓				✓					✓	✓	✓		
12	134	1432	2.511	300	✓				✓									
13	135	1433	3.449	250	✓									✓	✓	✓		
14	136	1434	4.067	200	✓				✓					✓	✓	✓		
15	137	1440	4.302	175	✓													
16	138	1443	4.704	150	✓									✓	✓	✓		
17	139	1445	5.257	125	✓													
18	140	1446	6.334	100	✓				✓					✓	✓	✓		
19	141	1447	6.674	75	✓													
20	142	1448	6.820	50	✓				✓					✓	✓	✓		
21	143	1451	7.035	25	✓				✓									
22	144	1452	6.201	10	✓				✓					✓	✓	✓		
23	145	1454	6.029	5	✓				✓	✓								
24	—																	

Comments: OXYGEN: BLUE BOX
NUTRIENTS: LIGHT BLUE

SHIP: TULLY
ENTERED BY: MR
CHECKED BY: MD

Bottom Depth: 3227

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		1445
Bottom:		1525
End:		1630

START POSITION (GPS)
LAT: 48 58 22
LONG: 130 39 953

BOTTOM POSITION (GPS)
LAT: 48 58 182
LONG: 130 39 972

END POSITION (GPS)
LAT: 48 58 21
LONG: 130 40.02

ROSETTE LOG

MISSION ID: 2007-15

STATION: P12

CAST NUMBER: 20

UTC DATE (dd/mm/yyyy): 18/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	146			2000	✓ 2000													
2	147			2000	✓													
3	148			1000	✓													
4	149			1000	✓													
5	150			500	✓													
6	151			500	✓													
7	152			10														
8	153			10														
9	154			10														
10	155			10														
11	156	1456	6.271	10		✓	✓	✓										
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: OXY: LABELLED

SHIP: TULLY

ENTERED BY: MR

CHECKED BY: MD

Bottom Depth: 3220

Cast # down: 20

Cast # up:

Time	LOC	UTC
Begin:		1730
Bottom:		1802
End:		1831

START POSITION (GPS)

LAT: 48 58 204

LONG: 130 40 007

BOTTOM POSITION (GPS)

LAT: 48 58 226

LONG: 130 40 006

END POSITION (GPS)

LAT: 48 58 23

LONG: 130 39 96

ROSETTE LOG

DMS CAST

MISSION ID: 2007-15 STATION: P12 CAST NUMBER: 22 UTC DATE (dd/mm/yyyy): 18/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		HAL				
1	157			300	✓ 301			✓	✓									45
2	158			200	✓													45
3	159			175	✓									✓				43
4	160			100	✓								✓	✓				40
5	161			75	✓									✓	✓			40
6	162			50	✓									✓				59
7	163			40	✓									✓				46
8	164			30	✓			✓										00
9	165			25	✓									4				52
10	166			20	✓													52
11	167			15	✓													50
12	168			10	✓									4				50
13	169			5	✓				✓				✓	4				15
14	170			5	✓													
15	171			0	✓			✓	✓				✓					40
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: CCGS JP Tully
 ENTERED BY: WRC MR
 CHECKED BY: WRC

Bottom Depth: 3228

Cast # down:
 Cast # up:

Time	LOC	UTC
Begin:		1930
Bottom:		1940
End:		1952

START POSITION (GPS)
 LAT: 48 58 19S
 LONG: 130 39 95E

BOTTOM POSITION (GPS)
 LAT: 48 58 21S
 LONG: 130 39 94E

END POSITION (GPS)
 LAT: 48 58 16S
 LONG: 130 39 98E

Comments: NUTRIENTS: ORANGE RACK

ROSETTE LOG

MISSION ID: 2007-15 STATION: P14 CAST NUMBER: 25 UTC DATE (dd/mm/yyyy): 19/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	C13	CHL						
1	173			10	✓													
2	174			10	✓													
3	175			10	✓													
4	176			10	✓	6.394	✓	✓	✓			✓						
5	177			5	✓		✓	✓				✓						
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Tully
ENTERED BY: WRC
CHECKED BY:

Bottom Depth: 3008

Cast # down: 24
Cast # up:

Time	LOC	UTC
Begin:	131 40.077	639
Bottom:		709
End:		740

START POSITION (GPS)
LAT: 49 02.557 N
LONG: 131 40.077 W

BOTTOM POSITION (GPS)
LAT: 49 07 458
LONG: 132 39 889

END POSITION (GPS)
LAT: 49 07 420
LONG: 132 40 003

ROSETTE LOG

MISSION ID: 2007-15 STATION: P16 DEEP CAST CAST NUMBER: 27 UTC DATE (dd/mm/yyyy): 19/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		GAS		HR		
1	179	1333	2.955	Bot-10	✓ 3685	✓	✓	✓	✓	✓				✓	✓	✓		
2	180	1338	* 2.816	3500	✓													* tiny bubble in bottle
3	181	1340	2.497	3000	✓									✓	✓	✓		
4	182	1341	2.030	2500	✓													
5	183	1344	2.026	2500	✓					✓								
6	184	1347	1.332	2000	✓				✓					✓	✓	✓		
7	185	1349	0.576	1500	✓									✓	✓	✓		
8	186	1351	0.368	1250	✓				✓									
9	187	1354	0.272	1000	✓				✓					✓	✓	✓		
10	188	1356	0.295	800	✓				✓									
11	189	1358	0.385	600	✓				✓									
12	190	1360	0.983	400	✓				✓					✓	✓	✓	✓	
13	191	1361	1.683	300	✓				✓									
14	192	1362	2.489	250	✓									✓	✓	✓		
15	193	1363	3.863	200	✓				✓					✓	✓	✓	✓	
16	194	1364	4.100	175	✓			✓										
17	195	1366	3.906	150	✓									✓	✓	✓		
18	196	1367	4.091	125	✓													
19	197	1368	5.682	100	✓				✓					✓	✓	✓		
20	198	1371	6.343	75	✓													
21	199	1373	6.734	50	✓				✓					✓	✓	✓		
22	200	1374	6.733	25	✓				✓									
23	201	1375	6.200	10	✓				✓					✓	✓	✓		
24	202	1376	6.188	5	✓				✓									

Comments: Nuts Blue & Oxy Red

SHIP: Tully
ENTERED BY: MR
CHECKED BY: MD

Bottom Depth:

Cast # down: 27
Cast # up: 27

Time	LOC	UTC
Begin:	950	1650
Bottom:		1736
End:		1851

START POSITION (GPS)
LAT: 49 17 038
LONG: 134 39 994

BOTTOM POSITION (GPS)
LAT: 49 16 988
LONG: 134 40 600

END POSITION (GPS)
LAT: 49 16 801
LONG: 134 39 950

ROSETTE LOG

DMS CAST

MISSION ID: 2007-15 STATION: P16 CAST NUMBER: 28 UTC DATE (dd/mm/yyyy): 19/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		HP/L				
1	203			300	✓ 300.8			✓	✓									
2	204			200	✓			✓	✓									55
3	205			175	✓			✓	✓					✓				09
4	206			100	✓			✓	✓					✓				40
5	207			75	✓			✓	✓					✓				50
6	208			50	✓			✓	✓					✓				58
7	209			40	✓			✓	✓					✓				11
8	210			30	✓			✓	✓					✓				18
9	211			25	✓			✓	✓					4				20
10	212			20	✓			✓	✓					✓				15
11	213			15	✓			✓	✓					✓				13
12	214			10	✓			✓	✓					✓				21
13	215			5	✓			✓	✓					✓				23
14	216			5	✓			✓	✓					✓				✓
15	217			0	✓			✓	✓					✓				58
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: CCGS Tully
 ENTERED BY: WRC
 CHECKED BY: WRC

Bottom Depth: 3620

Cast # down: 28
 Cast # up: 28

Time	LOC	UTC
Begin:	1310	2010
Bottom:	1313	2013
End:	1331	2031

START POSITION (GPS)
 LAT: 49 16.930
 LONG: 134 40.050

BOTTOM POSITION (GPS)
 LAT: 49 16.858
 LONG: 134 40.115

END POSITION (GPS)
 LAT: 49 16.741
 LONG: 134 40.069

Comments: NUTS: GREEN BACK

ROSETTE LOG

ANISSA'S CAST

MISSION ID: 2007-15 STATION: P16 CAST NUMBER: 29 UTC DATE (dd/mm/yyyy): 19/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	218			2000	✓ 2001													30
2	219			2000	✓													
3	220			1000	✓													06
4	221			1000	✓													
5	222			500	✓													46
6	223			500	✓													30
7	224			10	✓													
8	225			10	✓													
9	226			10	✓													
10	227			10	✓													Not much water in?
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: Tully
ENTERED BY: WPCO
CHECKED BY:

Bottom Depth: 3619

Cast # down: 29
Cast # up:

Time	LOC	UTC
Begin:	1412	2112
Bottom:	1441	2141
End:		2205

START POSITION (GPS)
LAT: 49 17.216
LONG: 134 39.934

BOTTOM POSITION (GPS)
LAT: 49 17.082
LONG: 134 40.040

END POSITION (GPS)
LAT: 49 16.99
LONG: 134 40.00

Comments:

ROSETTE LOG

MISSION ID: 2007-15 STATION: P18 CAST NUMBER: 33 UTC DATE (dd/mm/yyyy): 20/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK		CHL						
1	229			10	✓													
2	230			10	✓													
3	231			10	✓													
4	232	1456	6.665	10	✓	✓	✓	✓				✓						Bubble
5	233			5	✓	✓		✓				✓						
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 3817

Cast # down: 33
Cast # up: 33

Time	LOC	UTC
Begin:	0353	1053
Bottom:	0421	1121
End:	0455	1155

START POSITION (GPS)
LAT: 49 25 964
LONG: 136 39 894

BOTTOM POSITION (GPS)
LAT: 49 25 998
LONG: 136 40 00

END POSITION (GPS)
LAT: 49 26 069
LONG: 136 40 068

ROSETTE LOG

MISSION ID: 2007-15 STATION: P19 CAST NUMBER: 34 UTC DATE (dd/mm/yyyy): 20/8/2007

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	234			30														
2	235	1457		30	7.142	✓	✓	✓					✓					Bubble in Oxy
3	236			5		✓		✓					✓					
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: J.P. TULLY
ENTERED BY: MR
CHECKED BY: MD

Bottom Depth: 3966

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	1005	1705
Bottom:	1035	1735
End:	1105	1805

START POSITION (GPS)
LAT: 49 29 996
LONG: 137 39 87

BOTTOM POSITION (GPS)
LAT: 49 30 007
LONG: 137 39 996

END POSITION (GPS)
LAT: 49 30 056
LONG: 134 40 070

ROSETTE LOG

MISSION ID: 2007-15 STATION: P20 DMS CAST NUMBER: 35 UTC DATE (dd/mm/yyyy): 20/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		Cl3		HPCL				
						OXY		SH		ALK		CHL		ONL				
1	237			300	✓ 301			✓	✓									
2	238			200	✓			✓	✓									10
3	239			175	✓			✓	✓					✓				15
4	240			100	✓			✓	✓				✓	✓				45
5	241			75	✓			✓	✓				✓	✓				53
6	242			50	✓			✓	✓				✓	✓				60
7	243			40	✓			✓	✓				✓	✓				57
8	244			30	✓			✓	✓				✓					10
9	245			30	✓												MARIA	10
10	246			25	✓			✓	✓				✓	✓				15
11	247			25	✓									5			HPCL	15
12	248			20	✓			✓	✓				✓					10
13	249			15	✓			✓	✓				✓					40/5
14	250			10	✓			✓	✓				✓	✓				35
15	251			10	✓									5			HPCL	35
16	252			5	✓			✓	✓				✓	✓				30
17	253			5	✓									5			HPCL	30
18	254			5	✓												MARIA	
19	255			5	✓												ONAR	
20	256			0	✓			✓	✓				✓					
21																		
22																		
23																		
24																		

Comments: NUTS: BROWN RACK

SHIP: J.P. TULLY
ENTERED BY: MR WRC
CHECKED BY: WRC

Bottom Depth: 3944

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	1555 PDT	2255
Bottom:	1601	2301
End:	1619	2319

START POSITION (GPS)
LAT: 49.33.99 N
LONG: 138.39.81 W

BOTTOM POSITION (GPS)
LAT: 40.34.025 N
LONG: 138.39.835 W

END POSITION (GPS)
LAT: 49.34.03 N
LONG: 138.39.91 W

ROSETTE LOG

MISSION ID: 2007-15 STATION: P20 ANISSA'S CAST CAST NUMBER: 36 UTC DATE (dd/mm/yyyy): 21/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	C13	CHL						
1	257			2000	✓ 2000													
2	258			2000	✓													
3	259			1000	✓													
4	260			1000	✓													
5	261			500	✓													
6	262			500	✓													I 45
7	263			10	✓													T 25 7
8	264			10	✓													
9	265			10	✓													
10	266			10	✓													I 10
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: J.P. TULLY
ENTERED BY: MR
CHECKED BY: WRC

Bottom Depth: 3945

Cast # down: 36
Cast # up:

Time	LOC	PDT	UTC
Begin:	1703		0003
Bottom:	1735		0035
End:	1800		0100

START POSITION (GPS)
LAT: 49 34.06 N
LONG: 138 39.82 W

BOTTOM POSITION (GPS)
LAT: 49 33.956 N
LONG: 138 39.840 W

END POSITION (GPS)
LAT: 49 34.009 N
LONG: 138 39.983 W

ROSETTE LOG

MISSION ID:

200715

STATION:

P20

CAST NUMBER:

37

UTC DATE (dd/mm/yyyy):

21/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	CFC	TCO	ALK	C13	CHL	Gau	FCR	HR	DIZ	
1	267	1413	3.244	Bot -10	✓ 4025	✓		✓	✓	✓				✓✓	✓	✓✓		
2	268	1414	2.895	3500	✓													07
3	269	1418	2.522	3000	✓									✓✓	✓	✓✓		00
4	270	1421	1.928	2500	✓					✓								14
5	271	1424	1.919	2500	✓													
6	272	1426	1.242	2000	✓				✓					✓✓	✓	✓✓		11
7	273	1427	0.515	1500	✓									✓✓	✓	✓✓		11
8	274	1428	0.298	1250	✓			✓	✓								4	45
9	275	-	-	1000	✓ NO TRIP				✓					✓✓	✓	✓✓	4	BOTTLE DID NOT TRIP
10	276	1430	0.400	800	✓				✓								4	55
11	277	1431	0.621	600	✓				✓								4	*Bubbles } check 35
12	278	1432	1.278	400	✓				✓					✓✓	✓	✓✓	4	Ox4 seg 32 #3 20
13	279	1433	2.116	300	✓				✓								4	35
14	280	1434	2.829	250	✓									✓✓	✓	✓✓	4	57
15	281	1440	3.845	200	✓				✓					✓✓	✓	✓✓	4	05
16	282	1443	4.236	175	✓													17
17	283	1443	4.601	150	✓									✓✓	✓	✓✓	4	27
18	284	1446	5.180	125	✓									✓✓	✓	✓✓	4	41
19	285	1447	6.791	100	✓				✓					✓✓	✓	✓✓	4	52
20	286	1448	6.960	75	✓													58
21	287	1451	6.912	50	✓				✓					✓✓	✓	✓✓	4	05
22	288	1452	6.514	25	✓				✓									03
23	289	1454	6.457	10	✓				✓					✓✓	✓	✓✓		Bubble
24	290	2090	6.481	5	✓				✓									Bubbles 56

Comments:

OXYGEN: BLUE Box

NUTS: RED PACK

SHIP: J. P. TULLY

ENTERED BY: MR

CHECKED BY: WRC

Bottom Depth: 3946

Cast # down: 37

Cast # up:

Time LOC UTC

Begin: 1840 0140

Bottom: 1939 0239

End: 0344

START POSITION (GPS)

LAT: 49 34.468

LONG: 138 39.325

BOTTOM POSITION (GPS)

LAT: 49 34.267

LONG: 138 39.569

END POSITION (GPS)

LAT: 49 33.971

LONG: 138 39.702

ROSETTE LOG

MISSION ID: 2007-15 STATION: P22 CAST NUMBER: 41 UTC DATE (dd/mm/yyyy): 21/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY				ALK		CHL					
1	292			30	✓													MARIA
2	293	1457	6.999	30	✓	✓	✓	✓					✓					
3	294			10														ANISSA
4	295			10														
5	296			10														
6	297	1456	6.731	10		✓	✓	✓					✓					
7	298			5														MARIA
8	299			5		✓		✓					✓					
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: Tully
ENTERED BY: MR
CHECKED BY: MD

Bottom Depth: 3921

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		1345
Bottom:		1421
End:		1452

START POSITION (GPS)
LAT: 49 41 984
LONG: 140 39 926

BOTTOM POSITION (GPS)
LAT: 49 41 977
LONG: 140 40 031

END POSITION (GPS)
LAT: 49 42 08
LONG: 140 40 03

ROSETTE LOG

MISSION ID: 2007-15 STATION: P24 CAST NUMBER: 43 UTC DATE (dd/mm/yyyy): 22/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
1	301			10	✓													
2	302			10	✓													
3	303			10	✓													
4	304	1426	OXY ??	10	✓ 6.617	✓		✓					✓					sample left in tab
5	305			5	✓	✓		✓					✓					NOT cooled 09
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: JP Tully
 ENTERED BY: WRC
 CHECKED BY:

Bottom Depth: 3964

Cast # down: 43

Cast # up: 43

Time	LOC	UTC
Begin:	1712 PDT	0012
Bottom:	1743	0043
End:	1805	0105

START POSITION (GPS)
 LAT: 49 50.345
 LONG: 142 40.042

BOTTOM POSITION (GPS)
 LAT: 49 50.844
 LONG: 142 39.978

END POSITION (GPS)
 LAT: 49 51.470 N
 LONG: 142 40.318

Comments:

ROSETTE LOG

SUNRISE DMS CAST

MISSION ID: 2007-15 STATION: P26 CAST NUMBER: 47 UTC DATE (dd/mm/yyyy): 22/8/2007

Niskin No.	Sample No.	OXY. Flask	OXY. m/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		HPLE				
1	308			300	✓			✓	✓									
2	309			200	✓			✓	✓									
3	310			175	✓			✓	✓					✓				
4	311			100	✓			✓	✓					✓	✓			
5	312			75	✓			✓	✓					✓	✓✓			
6	313			50	✓			✓	✓					✓	✓			
7	314			40	✓			✓	✓					✓	✓			
8	315			30	✓			✓	✓					✓				
9	316			30	✓													MARIA
10	317			25	✓			✓	✓					✓	✓✓			
11	318			25	✓										5			ANGELICA
12	319			20	✓			✓✓	✓✓					✓				
13	320			15	✓			✓	✓					✓				
14	321			10	✓			✓	✓					✓	✓✓			
15	322			10	✓										5			ANGELICA
16	323			5				✓	✓					✓	W			
17	324			5											5			ANGELICA
18	325			5														MARIA
19	326			0				✓	✓					✓				
20																		
21																		
22																		
23																		
24																		

Comments: NUTS: WHITE RACK

SHIP: J.P. TULLY
 ENTERED BY: MR
 CHECKED BY:

Bottom Depth: 4222

Cast # down: 47

Cast # up:

Time	LOC	UTC
Begin:	<u>0736</u>	<u>1436</u>
Bottom:	<u>0742</u>	<u>1442</u>
End:		<u>1459</u>

START POSITION (GPS)
 LAT: 50 00 08
 LONG: 145 00 05

BOTTOM POSITION (GPS)
 LAT: 50 00 06
 LONG: 145 00 04

END POSITION (GPS)
 LAT: 50 00 00
 LONG: 145 00 017

ROSETTE LOG

MISSION ID: 2007-15 STATION: P26 CAST NUMBER: 48 UTC DATE (dd/mm/yyyy): 22/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		CHL		GR		
1	327	1413	3.1403	Bot-10	✓	4317	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2	328	1414	3.236	4000	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	329	1418	2.980	3500	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	330	1421	2.554	3000	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	331	1424	1.952	2500	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6	332	1426	1.316	2000	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
7	333	1427	0.609	1500	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
8	334	1428	0.402	1250	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
9	335	1429	0.331	1000	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
10	336	1430	0.486	800	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
11	337	1431	0.529	600	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
12	338	1432	0.801	400	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
13	339	1433	1.560	300	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
14	340	1434	2.243	250	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
15	341	1440	2.869	200	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
16	342	1443	3.122	175	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
17	343	1445	3.351	150	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
18	344	1446	4.055	125	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
19	345	1447	5.729	100	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
20	346	1448	7.045	75	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
21	347	1451	7.282	50	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
22	348	1452	6.906	25	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
23	349	1454	6.463	10	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
24	350	3090	6.433	5			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

SHIP: JP TULLY
ENTERED BY: MR
CHECKED BY:

Bottom Depth: 4222

Cast # down: 48

Cast # up:

Time	LOC	UTC
Begin:		<u>1547</u>
Bottom:		<u>1652</u>
End:		<u>1804</u>

START POSITION (GPS)
LAT: 50 00 083
LONG: 145 00 053

BOTTOM POSITION (GPS)
LAT: 49 59 873
LONG: 145 00 070

END POSITION (GPS)
LAT: 49 59.723
LONG: 145 00.1538

Comments:

Oxy Blue
Nut Blue

ROSETTE LOG

MISSION ID: 2007-15 STATION: P26 CAST NUMBER: 51 UTC DATE (dd/mm/yyyy): 22/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	DMs	TCO	ALK	CI3	CHL	HPL	DNAL	PHM		
1	351			300	✓ 299			✓	✓									
2	352			200	✓			✓	✓									45
3	353			175	✓			✓	✓					✓				01
4	354			100	✓			✓	✓				✓	✓				48
5	355			75	✓			✓	✓				✓	✓				07
6	356			50	✓			✓	✓				✓	✓				08
7	357			40	✓			✓	✓				✓	✓				10
8	358			{ 30	✓			✓	✓				✓					10
9	359			{ 30	✓													
10	360			{ 30	✓										✓		MARIA	
11	361			{ 25	✓			✓	✓				✓	✓			ONAR	
12	362			{ 25	✓									5			ANGELICA	17
13	363			{ 20	✓ 19			✓	✓				✓					22
14	364			{ 20	✓ 19										✓		ONAR	
15	365			15	✓ 15			✓	✓				✓				TOP VALVE NOT CLOSED	20
16	366			{ 10	✓ 10			✓	✓				✓	✓				14
17	367			{ 10	✓ 10									5			ANGELICA	
18	368			{ 10	✓ 10										✓		ONAR	
19	369			{ 5	✓			✓	✓				✓	✓		✓		
20	370			{ 5	✓									5			ANGELICA	
21	371			{ 5	✓												MARIA	
22	372			{ 0	✓			✓	✓				✓				TOP VALVE NOT CLOSED	
23	373			{ 0	✓										✓		ONAR	
24																		

Comments: NUTRIENTS: YELLOW PACK

SHIP: J.P. TULLY
 ENTERED BY: MR
 CHECKED BY: WRC

Bottom Depth: 4222

Cast # down: 51
 Cast # up:

Time	LOC	UTC
Begin:	<u>1440 PDT</u>	<u>2140</u>
Bottom:	<u>1445 "</u>	<u>2145</u>
End:	<u>1502</u>	<u>2202</u>

START POSITION (GPS)
 LAT: 49 59.973
 LONG: 144 59.999

BOTTOM POSITION (GPS)
 LAT: 49 59.962
 LONG: 144 59.989

END POSITION (GPS)
 LAT: 49 59.989
 LONG: 145 00.108

ROSETTE LOG

MISSION ID: 2007-15 STATION: P26 CAST NUMBER: 52 UTC DATE (dd/mm/yyyy): 22/08/2007 START

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
							OXY			ALK		CHL						
1	374			4000	✓													ONAR
2	375			3000	✓													ONAR
3	376			2000	✓													ONAR
4	377			2000	✓													UBC
5	378			2000	✓													UBC
6	379			1000	✓													UBC
7	380			1000	✓													UBC
8	381			1000	✓													ONAR
9	382			500	✓													UBC
10	383			500	✓													UBC
11	384			400	✓													ONAR
12	385			10	✓													UBC
13	386			10	✓													UBC
14	387			10	✓													UBC
15	388			10	✓													UBC
16																		UBC
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: CCGS JP TOLLY
ENTERED BY: WRC
CHECKED BY:

Bottom Depth: 41222

Cast # down: 52

Cast # up: 52

Time LOG T UTC
Begin: 1637 2337
Bottom: 1727 0027
End: 0117

START POSITION (GPS)

LAT: 50 00.040

LONG: 145 00.020

BOTTOM POSITION (GPS)

LAT: 50 0.119

LONG: 145 0.092

END POSITION (GPS)

LAT: 50 00.096

LONG: 145 00.049

LINE-P CRUISE

ROSETTE LOG

ONAR @ MOORING SITE

MISSION ID: 2007-15

STATION: P26

CAST NUMBER: 54

UTC DATE (dd/mm/yyyy):

23/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	389			30	✓			✓					✓					ONAR
2	390			20	✓			✓					✓					"
3	391			10	✓			✓					✓					"
4	392			0	✓			✓					✓					"
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments:

SHIP: TULLY
ENTERED BY: WRC
CHECKED BY:

Bottom Depth: 4189

Cast # down: 54

Cast # up:

Time	LOC	PDT	UTC
Begin:	2032		0332
Bottom:	2039		0339
End:			0345

START POSITION (GPS)
LAT: 50 07.691
LONG: 144 49.465

BOTTOM POSITION (GPS)
LAT: 50 07.728
LONG: 144 49.584

END POSITION (GPS)
LAT: 50 7.735
LONG: 144 49.666

ROSETTE LOG

MISSION ID: 2007-15 STATION: P26 CAST NUMBER: 55 SUNSET DMS EAST UTC DATE (dd/mm/yyyy): 23/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	DMS	TCO	ALK	C13	CHL	HPGL				
1	393			300	✓			✓	✓									
2	394			200	✓			✓	✓									
3	395			175	✓			✓	✓					✓				
4	396			100	✓			✓	✓				✓	✓				
5	397			75	✓			✓	✓				✓	✓				
6	398			50	✓			✓	✓				✓	✓				
7	399			40	✓			✓	✓				✓	✓				
8	400			30	✓			✓	✓				✓					
9	401			{ 25	✓			✓	✓				✓	✓				
10	402			{ 25	✓									5				
11	403			20	✓			✓	✓				✓					
12	404			15	✓			✓	✓				✓					
13	405			{ 10	✓			✓	✓				✓	✓				
14	406			{ 10	✓									5				
15	407			{ 5	✓			✓	✓				✓	✓				
16	408			{ 5	✓									5				
17	409			0	✓			✓	✓				✓					
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: NUTS: ORANGE BACK

SHIP: CCGS Tully
ENTERED BY: WRC
CHECKED BY:

Bottom Depth: 4221

Cast # down: 55
Cast # up:

Time	LOC	UTC
Begin:		0534
Bottom:		0541
End:		0557

START POSITION (GPS)
LAT: 50 00.22
LONG: 145 00.42

BOTTOM POSITION (GPS)
LAT: 50 00.292
LONG: 145 00.452

END POSITION (GPS)
LAT: 50 00.414
LONG: 145 00.547

ROSETTE LOG

MISSION ID: 2007-15 STATION: P49 CAST NUMBER: 58 UTC DATE (dd/mm/yyyy): 23/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
							OXY		CEL		ALK		CHL					
1	412			3000	✓	3000	✓			✓✓								
2	413			3000	✓					✓✓								
3	414				✓					✓✓								
4	415				✓					✓✓								
5	416				✓					✓✓								
6	417				✓													
7	418			3000	✓													
8	419				✓													
9	420				✓													
10	421				✓													
11	422			3000	✓													
12	423			3000	✓													
13	424				✓													
14	425				✓													
15	426				✓													
16	427			3000	✓													
17	428			3000	✓													
18	429				✓													
19	430				✓													
20	431				✓													
21	432			3000	✓													
22	433			3000	✓													
23	434			3000	✓	2995												
24	435			5	✓			✓					✓					DO NOT USE tripped @ 2995m

Comments:

SHIP: J.P. TULLY
ENTERED BY: MR
CHECKED BY:

Bottom Depth: 3890

Cast # down: 58
Cast # up:

Time	LOC	PDT	UTC
Begin:	1057		1757
Bottom:	1130		1830
End:	1207		1907

START POSITION (GPS)
LAT: 50 54 04
LONG: 144 17 148

BOTTOM POSITION (GPS)
LAT: 50 53 980
LONG: 144 17 2

END POSITION (GPS)
LAT: 50 53.770
LONG: 144 17.622

ROSETTE LOG

MISSION ID: 2007-15 STATION: P33 CAST NUMBER: 59 UTC DATE (dd/mm/yyyy): 23/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3		O15				
1	436	1413	1.531	2000	✓ 2000	✓	✓	✓										
2	437	1414	0.679	1500	✓	✓												
3	438	1418	0.422	1250	✓	✓												
4	439	1421	0.355	1000	✓									✓✓				
5	440	1424	0.388	800	✓									✓✓				
6	441	1426	0.399	600	✓									✓✓				
7	442	1427	0.692	400	✓									✓✓				
8	443	1428	1.053	300	✓													
9	444	1429	1.462	250	✓													
10	445	1430	2.062	200	✓													
11	446	1431	2.387	175	✓													
12	447	1432	2.982	150	✓													
13	448	1433	3.614	125	✓													
14	449	1434	4.523	100	✓													
15	450	1440	5.1650	75	✓									✓				
16	451	1443	7.247	50	✓									✓				
17	452	1445	6.956	25	✓									✓				
18	453	1446	6.441	10	✓									✓				
19	454	1447	6.459	5	✓	✓	✓	✓						✓				
20																		
21																		
22																		
23																		
24																		

SHIP: J.P. TULLY
 ENTERED BY: MR WRE
 CHECKED BY:

Bottom Depth: 3621

Cast # down: 59
 Cast # up:

Time LOC PDT UTC
 Begin: 1512 2212
 Bottom: 1544 2244
 End: 1622 2322

START POSITION (GPS)
 LAT: 50 54.01
 LONG: 143 35.38

BOTTOM POSITION (GPS)
 LAT: 50 54.00
 LONG: 143 35.51

END POSITION (GPS)
 LAT: 50 53.93
 LONG: 143 35.78

Comments: NUTS: BROWN
 OXYGEN: BLUE

ROSETTE LOG

MISSION ID: 2007-15 STATION: R17 CAST NUMBER: 64 UTC DATE (dd/mm/yyyy): 24/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	C13	CHL	DIS					
1	458	1413	1.385	2000	✓ 2000	✓	✓	✓										
2	459	1414	0.667	1500	✓	✓												
3	460	1418	0.442	1250	✓	✓												
4	461	1421	0.332	1000	✓								✓					
5	462	1424	0.410	800	✓													
6	463	1426	0.497	600	✓								✓					
7	464	1427	0.896	400	✓								✓					
8	465	1428	1.187	300	✓													
9	466	1429	1.669	250	✓													
10	467	1430	2.313	200	✓													
11	468	1431	2.871	175	✓													
12	469	1432	3.421	150	✓													
13	470	1433	4.127	125	✓													
14	471	1434	5.755	100	✓								✓					
15	472	1440	7.028	75	✓								✓					
16	473	1443	7.308	50	✓								✓					
17	474	1445	6.914	25	✓								✓					
18	475	1446	6.411	10	✓								✓					
19	476	1447	6.416	5	✓	✓	✓	✓					✓					
20																		
21																		
22																		
23																		
24																		

Comments: Oxy - Blue
NUTS green

SHIP: Tully
ENTERED BY:
CHECKED BY:

Bottom Depth: 3831

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	0622	1322
Bottom:	0650	1350
End:	0730	1430

START POSITION (GPS)
LAT: 5102017
LONG: 14055930

BOTTOM POSITION (GPS)
LAT: 5102058
LONG: 14056041

END POSITION (GPS)
LAT: 5102000
LONG: 14056184

ROSETTE LOG

MISSION ID: 2007-15 STATION: R13 CAST NUMBER: 69 UTC DATE (dd/mm/yyyy): 25/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13		D155		
1	480	1297	1.401	2000	✓ 2005	✓	✓	✓								
2	481	1300	0.608	1500	✓	✓										
3	482	1301	0.387	1250	✓	✓										
4	483	1302	.276	1000	✓									✓✓		
5	484	1303	0.404	800	✓											
6	485	1306	0.696	600	✓									✓✓		
7	486	1307	1.344	400	✓									✓✓		
8	487	1309	2.309	300	✓											
9	488	1313	3.06	250	✓											
10	489	1314	3.833	200	✓											
11	490	1315	4.296	175	✓											
12	-	-	-	175												-Not drawn
13	491	1318	4.658	150				✓								
14	492	1319	5.162	125									✗			
15	493	1320	6.258	100									✓			
16	494	1321	6.881	75									✓			
17	495	1322	7.097	50									✓			
18	496	1323	6.759	25									✓			
19	497	1324	6.306	10		✗	✓	✓					✓			
20	498	1325	6.305	5		✓	✓	✓					✓			
21																
22																
23																
24																

SHIP: JP Tully
 ENTERED BY: WRC
 CHECKED BY:

Bottom Depth: 3632

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:	<u>2329</u>	<u>0629</u>
Bottom:	<u>2358</u>	<u>0658</u>
End:	<u>0045</u>	<u>0745</u>

START POSITION (GPS)
 LAT: 51 11.08
 LONG: 138 05.87

BOTTOM POSITION (GPS)
 LAT: 51 11.214
 LONG: 138 06.048

END POSITION (GPS)
 LAT: 51 11 244
 LONG: 138 06 347

Comments: NATS - yellow
OXY - white

ROSETTE LOG

MISSION ID: 2007-15 STATION: R9N CAST NUMBER: 76 UTC DATE (dd/mm/yyyy): 27/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	502	1413	8.859	2000	✓	✓		✓										cloudy
2	503	1414	10.545	1500		✓												
3	504	1418	0.337	1250	✓	✓												
4	505	1421	0.262	1000	✓													
5	506	1424	0.388	800	✓													
6	507	1427	0.940	600	✓													bubbles
7	508	1426	1.750	400	✓			✓										
8	509	1428	1.484	300	✓													
9	510	1429	1.474	250	✓													
10	511	1430	1.491	200	✓													
11	512	1431	1.546	175	✓													
12	513	1432	1.852	150	✓													
13	514	1433	2.342	125	✓													
14	515	1434	3.814	100	✓								✓					
15	516	1440	5.365	75	✓								✓					
16	517	1443	6.177	50									✓					
17	518	1445	6.993	25				✓	✓				✓					Bubble
18	519	-	-	25														MARIA
19	520	1447	6.269	10				✓	✓				✓					
20	521	1448	6.164	5		✓	✓	✓					✓					
21	522	-		5														MARIA
22																		
23																		
24																		

SHIP: TULLY
ENTERED BY: WRC
CHECKED BY:

Bottom Depth: 3479

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	0519	1219
Bottom:	0547	1247
End:	0631	1331

START POSITION (GPS)
LAT: 51 31 039
LONG: 135 14 938

BOTTOM POSITION (GPS)
LAT: 51 30 904
LONG: 135 14 908

END POSITION (GPS)
LAT: 51 30 06
LONG: 135 14 284

Comments: Oxy - blue
NUT - Blue

ROSETTE LOG

MISSION ID: 2007-15 STATION: M35 CAST NUMBER: 81 UTC DATE (dd/mm/yyyy): 28/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13				
							OXY			ALK		CHL				
1	526	1413	1.501	2000	✓ 2005	✓	✓									strange curve
2	527	1414	0.691	1500	✓	✓										
3	528	1418	0.1398	1250	✓	✓										
4	529	1421	0.285	1000	✓											
5	530	1424	0.276	800	✓											
6	531	1427	0.479	600	✓											
7	532	1426	1.169	400	✓			✓								
8	533	1428	1.873	300	✓											
9	534	1429	2.219	250	✓											
10	535	1430	2.620	200	✓											
11	536	3090	2.840	175	✓											
12	537	1432	3.043	150	✓											
13	538	1433	3.699	125	✓											
14	539	1434	4.621	100	✓							✓				
15	540	1440	6.237	75	✓							✓				
16	541	1443	6.116	50	✓							✓				
17	542	1445	6.768	25	✓			✓	✓			✓				
18	543	-		25	✓											MARIA
19	544	1447	5.956	10	✓			✓	✓			✓				
20	545	1448	5.963	5	✓		✓	✓	✓			✓				
21	546	-		5	✓											MARIA
22																
23																
24																

Comments: OXY - BLUE
NUT - LIGHT BLUE

SHIP: CCGS JP Tully
ENTERED BY: WRC
CHECKED BY:

Bottom Depth: 2733 meters

Cast # down: 81
Cast # up:

Time	LOC	UTC
Begin:	2307	0607
Bottom:	2335	0635
End:		

START POSITION (GPS)
LAT: 51 27.742
LONG: 132 23.767

BOTTOM POSITION (GPS)
LAT: 51 27.541
LONG: 132 23.964

END POSITION (GPS)
LAT: 51 27 440
LONG: 132 24 016

ROSETTE LOG

MISSION ID: 2007-15 STATION: M33 CAST NUMBER: 83 UTC DATE (dd/mm/yyyy): 28/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
						OXY				ALK		CHL						
1	548	1413	1.379	2000	✓ 2000	✓	✓	✓										
2	549	1414	0.618	1500	✓	✓												
3	550	1418	0.361	1250	✓	✓												
4	551	1421	0.262	1000	✓													
5	552	1424	0.276	800	✓													
6	553	1427	0.503	600	✓													
7	554	1426	1.102	400	✓			✓										
8	555	1428	1.809	300	✓													
9	556	1429	2.286	250	✓													
10	557	1430	2.926	200	✓													
11	558	3090	3.123	175	✓													
12	559	1432	3.568	150	✓													
13	560	1433	4.555	125	✓													
14	561	1434	5.607	100	✓													
15	562	1446	6.249	75	✓							✓						
16	563	1443	6.171	50	✓							✓						
17	564	1445	6.804	25	✓							✓						
18	565	-	-	25	✓													MARIA
19	566	1447	6.067	10	✓							✓						
20	567	1448	6.012	5								✓						
21	568			5		✓	✓	✓										MARIA
22																		
23																		
24																		

SHIP: TULLY
ENTERED BY: MD
CHECKED BY:

Bottom Depth: 2307

Cast # down: 83
Cast # up:

Time	LOC	UTC
Begin:	409	1109
Bottom:	439	1139
End:	517	1217

START POSITION (GPS)
LAT: 51 43 708
LONG: 131 49 931

BOTTOM POSITION (GPS)
LAT: 51 43 522
LONG: 131 49 999

END POSITION (GPS)
LAT: 51 43 428
LONG: 131 49 877

Comments: Oxy - Blue
Nuts - green

ROSETTE LOG

MISSION ID: 2007-15 STATION: SS1 CAST NUMBER: 85 UTC DATE (dd/mm/yyyy): 28/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken										Lots of Salps in Niskin Bottles
				Sample Depth	Confirmed pressure	SAL	OXY	NUT	TCO	ALK	CI3	CHL				
1	570	1413	0.788	Bottom-10	✓ 504		✓	✓								
2	571	1414	1.198	400	✓	✓										
3	572	1418	2.229	300	✓	✓										-oxy not full down
4	573	1421	2.055	250	✓	✓		✓								
5	574	1424	2.591	200	✓											
6	575	1427	3.060	175	✓											
7	576	1426	3.590	150	✓											
8	577	1428	4.373	125	✓											
9	578	—	—	100	✓							✓				Bottle Empty
10	579	1430	5.777	75	✓											
11	580	3090	5.925	50	✓											
12	581	1432	5.999	25	✓											
13	582	1433	5.937	10	✓											large zooplankton
14	583	1434	6.007	5	✓	✓	✓	✓				✓				"
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																

SHIP:
ENTERED BY: WRC
CHECKED BY:

Bottom Depth: 513

Cast # down: 85
Cast # up:

Time	LOC	PDT	UTC
Begin:	1544	2244	
Bottom:	1553	2253	
End:	1610	2310	

START POSITION (GPS)
LAT: 51 11.966 N
LONG: 130 00.332 W

BOTTOM POSITION (GPS)
LAT: 51 11.866 N
LONG: 130 00.424 W

END POSITION (GPS)
LAT: 51 11.828 N
LONG: 130 00.778 W

Comments: OXYGEN BLUE BOX
NUTRIENTS RED RACK

ROSETTE LOG

MISSION ID: 2007-15 STATION: 553 CAST NUMBER: 88 UTC DATE (dd/mm/yyyy): 29/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken											
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13					
							OXY			ALK		CHL					
✓1	585	1333	1.819	B-10	✓ 280		✓	✓									
✓2	586	1338	1.889	250	✓	✓											
✓3	587	1340	2.282	200	✓	✓											
✓4	588	1341	2.613	175	✓	✓											
✓5	589	1344	4.021	150	✓												
✓6	590	1347	4.894	125	✓			✓									
✓7	591	1349	5.506	100	✓							✓					
✓8	592	1351	6.015	75	✓							✓					
✓9	593	1354	4.706	50	✓							✓					
✓10	594	1356	5.191	25	✓							✓					
✓11	595	1358	6.090	10	✓							✓					
✓12	596	1360	6.100	5	✓	✓	✓	✓				✓					
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

SHIP: JP TULLY
ENTERED BY: WRC
CHECKED BY:

Bottom Depth: 290

Cast # down: 88
Cast # up:

Time	LOC	UTC
Begin:		0330
Bottom:		0336
End:		0350

START POSITION (GPS)
LAT: 51 15.068
LONG: 129 21.348

BOTTOM POSITION (GPS)
LAT: 51 15.077
LONG: 129 21.238

END POSITION (GPS)
LAT: 51 15.028
LONG: 129 21.295

280

Comments: OXYGEN RED. TOP
NUTRIENTS YELLOW

ROSETTE LOG

MISSION ID: 2007-15 STATION: 555 CAST NUMBER: 90 UTC DATE (dd/mm/yyyy): 29/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	598	1297	2.045	B-10	✓ 195			✓	✓									
2	599	1300	2.1063	175	✓	✓												
3	600	1301	2.216	150	✓	✓												
4	601	1302	2.970	125	✓	✓		✓										Bubble
5	602	1305	3.591	100	✓							✓						
6	603	1306	4.777	75	✓							✓						
7	604	1307	5.009	50	✓							✓						
8	605	1309	5.897	25	✓							✓						
9	606	1313	5.907	10	✓							✓						
10	607	1314	5.897	5	✓	✓	✓	✓				✓						
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: OXYGEN WHITE TOP BOX
NUTRIENTS WHITE

SHIP:
ENTERED BY: WRC
CHECKED BY:

Bottom Depth: 204

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:	0109	809
Bottom:	0115	0815
End:	0125	0825

START POSITION (GPS)
LAT: 51 28 058
LONG: 128 30 041

BOTTOM POSITION (GPS)
LAT: 51 28 042
LONG: 128 30 046

END POSITION (GPS)
LAT: 51 27 990
LONG: 128 30 002

ROSETTE LOG

MISSION ID: 2007-15 STATION: 557 CAST NUMBER: 93 UTC DATE (dd/mm/yyyy): 29/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	610	1413	2.665	13-10	✓ 110		✓	✓										
2	611	1414	2.571	100	✓	✓		1						✓				
3	612	1418	3.047	75	✓	✓		✓						✓				
4	613	1421	3.912	50	✓	✓		1						✓				
5	614	1424	4.587	25	✓									✓				
6	615	1427	4.760	10	✓									✓				
7	616	1426	6.880	5	✓	✓		1						✓				
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Oxy - Blue
Nut - orange

SHIP:

ENTERED BY: MD

CHECKED BY:

Bottom Depth: 120

Cast # down:

Cast # up:

Time	LOC	UTC
Begin:	0535	1235
Bottom:	0539	1239
End:	0547	1247

START POSITION (GPS)

LAT: 51 24 656

LONG: 127 47 647

BOTTOM POSITION (GPS)

LAT: 51 24 606

LONG: 127 47 642

END POSITION (GPS)

LAT: 51 24 634

LONG: 127 47 41

ROSETTE LOG

MISSION ID: 2007-15 STATION: RT-1 CAST NUMBER: 94 UTC DATE (dd/mm/yyyy): 29/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	617	1333	2.595	B-10	✓ 320													
2	618	1338	2.554	300	✓	✓												
3	619	1340	2.473	250		✓												
4	620	1341	2.541	200		✓		✓										
5	621	1344	2.647	175														
6	622	1347	2.668	150														
7	623	1349	2.690	125														
8	624	1351	2.647	100									✓					
9	625	1354	2.917	75									✓					
10	626	1356	3.902	50									✓					
11	627	1358	4.421	25									✓					
12	628	1360	5.892	10	✓								✓					
13	629	1361	6.964	5		✓							✓					
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: TULLY
 ENTERED BY: MD
 CHECKED BY:

Bottom Depth: 230

Cast # down:
 Cast # up:

Time	LOC	UTC
Begin:		1346
Bottom:		1351
End:		1407

START POSITION (GPS)
 LAT: 51 26 324
 LONG: 127 38 269

BOTTOM POSITION (GPS)
 LAT: 51 26 288
 LONG: 127 38 398

END POSITION (GPS)
 LAT: 51 26 20
 LONG: 127 38 77

Comments: Nuts - Labelled
Oxy - Red

ROSETTE LOG

MISSION ID: 2007-15 STATION: RS 4 CAST NUMBER: 101 UTC DATE (dd/mm/yyyy): 29/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	632	1377	2.704	bot -10	✓	286		x	x									
2	633	1380	2.611	250	✓		x											change depth to 250
3	634	1381	2.587	200	✓		x											
4	635	1382	2.462	175	✓		x		x									
5	636	1384	2.248	150	✓													
6	637	1386	2.175	125	✓													
7	638	1389	2.260	100	✓							x						
8	639	1391	3.217	75	✓							x						
9	640	1392	4.243	50	✓							x						
10	641	1393	4.658	25	✓							x						
11	642	1394	6.288	10	✓							x						
12	643	1395	-	5	✓		x	x	x			x						No sample
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: Oxy - ORANGE
NUTS - ORANGE

SHIP: Tully
ENTERED BY: MD
CHECKED BY:

Bottom Depth: 296

Cast # down:
Cast # up:

Time	LOC	UTC
Begin:		1855
Bottom:		1859
End:		1912

START POSITION (GPS)
LAT: 51 38.952
LONG: 127 26.528

BOTTOM POSITION (GPS)
LAT: 51 38.950
LONG: 127 26.563

END POSITION (GPS)
LAT: 51 38.944
LONG: 127 26.641

ROSETTE LOG

MISSION ID: 2007-15 STATION: M2 CAST NUMBER: 106 UTC DATE (dd/mm/yyyy): 30/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		CI3						
							OXY			ALK		CHL						
1	646	1297	2.545	B-10	✓ 195			x	x									
2	647	1300	2.647	150	✓	x		x										
3	648	1301	2.743	125	✓	x		x										
4	649	1302	2.793	100	✓	x		x	x			x						
5	650	1305	2.909	75	✓			x				x						
6	651	1306	3.376	50	✓			x				x						
7	652	1307	5.100	25	✓			x				x						
8	653	1309	5.1783	10	✓			x				x						
9	654	1313	5.807	5	✓	x	x	x				x						
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: OXYGEN WHITE TOP BOX
NUTRIENTS WHITE (PAPER LABELS)

SHIP: JP TULLY
ENTERED BY: WRC
CHECKED BY:

Bottom Depth: 195

Cast # down: 106
Cast # up:

Time	LOC	UTC
Begin:	1900	0200
Bottom:	1905	0205
End:	1914	0214

START POSITION (GPS)
LAT: 51 46 45
LONG: 127 53 29

BOTTOM POSITION (GPS)
LAT: 51 46 46
LONG: 127 53 33

END POSITION (GPS)
LAT: 51 46 45
LONG: 127 53 36

ROSETTE LOG

MISSION ID: 2007-15 STATION: M3 CAST NUMBER: 107 UTC DATE (dd/mm/yyyy): 30/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
							OXY			ALK		CHL						
1	655	1413	2.592	207-10	✓	290		✓	✓									
2	656	1414	2.522	300	✓	290	✓											
3	657	1415	2.559	250	✓		✓											
4	658	1421	2.554	200	✓		✓											
5	659	1424	2.647	175	✓													
6	660	1427	2.712	150	✓													
7	661	1426	2.741	125	✓													
8	662	1428	2.809	100	✓								✓					
9	663	1429	2.885	75	✓								✓					
10	664	1430	3.233	50	✓								✓					
11	665	3090	4.627	25	✓								✓					
12	666	1432	5.779	10	✓								✓					
13	667	1433	6.071	5	✓		✓	✓	✓				✓					
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Comments: OXYGEN → BLUE TOP
NUTS → INDIVIDUALLY LABELLED

SHIP:
ENTERED BY: WRC
CHECKED BY: W

Bottom Depth: 302

Cast # down: 107
Cast # up:

Time	LOC	UTC
Begin:	1953	0253
Bottom:	1959	0259
End:	2017	0317

START POSITION (GPS)
LAT: 51° 46' 34"
LONG: 127° 54' 52"

BOTTOM POSITION (GPS)
LAT: 51° 46' 41"
LONG: 127° 54' 49"

END POSITION (GPS)
LAT: 51° 46' 46"
LONG: 127° 54' 47"

ROSETTE LOG

MISSION ID: 2007-05 STATION: M4 CAST NUMBER: 108 UTC DATE (dd/mm/yyyy): 30/08/2007

Niskin No.	Sample No.	OXY. Flask	OXY. ml/l	ROSETTE OPERATION		Samples taken												
				Sample Depth	Confirmed pressure	SAL		NUT		TCO		C13						
1	668	1333	2.504	Bot-10	✓ 421													
2	669	1338	2.531	400	✓	✓												
3	670	1340	2.538	300	✓	✓												
4	671	1341	2.529	250	✓	✓												
5	672	1344	2.568	200	✓													
6	673	1347	2.596	175	✓													
7	674	1349	2.639	150	✓													
8	675	1351	2.683	125	✓													
9	676	1354	2.905	100	✓													
10	677	1356	2.980	75	✓													
11	678	1358	3.055	50	✓													
12	679	1360	3.984	25	✓													
13	680	1361	5.158	10	✓													
14	681	1362	5.548	5	✓	✓												
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SHIP: J.P. TULLY
 ENTERED BY: MR
 CHECKED BY:

Bottom Depth: 432

Cast # down: 108

Cast # up:

Time	LOC	UTC
Begin:	2050	0350
Bottom:	2058	0358
End:	2114	0414

START POSITION (GPS)
 LAT: 51 44.66
 LONG: 128 00.29

BOTTOM POSITION (GPS)
 LAT: 51 44.592
 LONG: 128 00.210

END POSITION (GPS)
 LAT: 51 44.56
 LONG: 127 59 75

Comments: OXYGEN: RED TOP LID AND O
NUTRIENTS -> individual labels