

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263 TN263		PROJECT & LEG GOA-JERP-LTL Spring 2011		STATION NO. <i>TEST</i>	
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CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD (kts)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN												DAY
58 1	48' 06.	68 N	122	37.	14	W	0	/	MAY 11	1039	9.7	.	29	307	5	
SBE 9+			FLUOR S/N													
PRESS SN			SBE43-Oxy (prime)													
PRI TEMP SN			SBE43-Oxy (sec)													
SEC TEMP SN			Transmissometer													
PRI COND SN			PAR S/N													
SEC COND SN			O2 Tmp Sensor No.													
NIS	DEPTH	Rosette Notes		Hydro Team-PH&EL		Kristian Shake	Strom/Fredrickson	Whittaker-URI	Comments	NIS	No.					
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	DIC/Alk	Frac Chloro	Phyto									
1	1															1
2	2															2
3	3															3
4	4															4
5	5															5
6	6															6
7	7															7
8	8															8
9	9															9
10	10															10
11	11															11
12	12															12

SST=

SSSal=

PS1

PROJECT & LEG										STATION NO.																			
VESSEL R/V Thomas G. Thompson		CRUISE ID TN263 TN263								1																			
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		CLOUD (amt)		WIND		WIND		CLOUD TYPE		WEATHER		BOTTOM		STA. NAME/ID	
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)								
SBE 9+																													
PRESS SN																													
PRI TEMP SN																													
SEC TEMP SN																													
PRI COND SN																													
SEC COND SN																													
NIS	DEPTH	Rosette Notes		Hydro Team-PMEI		Kristan		Strom	Phyto	Micro zoops		Ana A-I	Whittaker-JRI	Comments		NIS													
No.	DESIR ED			SALT	Nut.Btl	O2-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms		No.														
1	b1			1	1	1	1								1														
2	100m			2	2	2	2								2														
3	75'			3	3	3	3								3														
4	50'			4	4	4	4								4														
5	40'			5	5	5	5								5														
6	30'			6	6	6	6								6														
7	25'			7	7	7	7								7														
8	20'			8	8	8	8								8														
9	15'			9	9	9	9								9														
10	10'			10	10	10	10								10														
11	5'			11	5	5	5								11														
12	0'			12	0	0	0								12														
13				13											13														
14				14											14														
15				15											15														
16				16											16														
17				17											17														
18				18											18														

SST=

SSSal=

17/233

Cope DNA

CO₂N₂O

100 150 200

REMARKS
 East Edge of Cast
 East Side Chatman Strait
 Chlorophyll 1-26 1-15 Surface
 MAX. DEPTH = 133 m

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-IEEP-LTL Spring 2011		STATION NO. <u>22</u>																	
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND	WIND	CLOUD	(amt)	BOTTOM	STA. NAME/ID				
		DEG	MIN	DEG	MIN	HR	MN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	DEPTH	WEATHER				
<u>60</u>	<u>02</u>	<u>56</u>	<u>10</u>	<u>87</u>	<u>N</u>	<u>13</u>	<u>42</u>	<u>3</u>	<u>.79</u>	<u>W</u>	<u>03</u>	<u>M A Y</u>	<u>1</u>	<u>1</u>	<u>21</u>	<u>56</u>	<u>5.</u>	<u>1</u>	<u>18</u>	<u>13</u>	<u>27</u>	<u>369</u>	<u>552</u>
SBE 9+																							
PRESS SN																							
PRI TEMP SN																							
SEC TEMP SN																							
PRI COND SN																							
SEC COND SN																							
NIS	DEPTH	Rosette Notes		Hydro Team-PMEI		Kristan	Strom	Phyto	Micro zoops		Ana A-I	Whittaker-JR	Comments		NIS								
No.	DESIRED			SALT	Nut.Btl	02-Btl.No	DIC/Alk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms		No.								
1	<u>180</u>	<u>X269</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								1								
2	<u>300</u>														2								
3	<u>200</u>														3								
4	<u>180</u>														4								
5	<u>50</u>														5								
6	<u>0</u>														6								
7															7								
8															8								
9															9								
10															10								
11															11								
12															12								
13															13								
14															14								
15															15								
16															16								
17															17								
18															18								

SST -

6.8

SSSal -

31.83 m 31.86

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-JERP-LTL Spring 2011		STATION NO. 3												
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND	WIND	CLOUD (amt)	BOTTOM	STA. NAME/ID
		DEG	MIN	DEG	MIN	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	
0	0 35 6 / 0.159 N	134	27.5	134	27.5	11	17	6.7	11.7	1016.7	15	6.7	167.2	7	6.5	15	CS3	
SBE 9+				FLUOR S/N														
PRESS SN				SBE43-Oxy (prime)														
PRI TEMP SN				SBE43-Oxy (sec)														
SEC TEMP SN				Transmissometer														
PRI COND SN				PAR S/N														
SEC COND SN				02 Tmp Sensor No.														
NIS	DEPTH	Rosette Notes		Hydro Team-PMEI		Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-UK		Comments		NIS		
No.	DESIRED	SALT	Nut.Btl	02-Btl.No	DIC/AIk		Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms			No.			
1	BOT	1		7												1		
2	500	1		8	X											2		
3	400	1		9	X											3		
4	300	1		10	X											4		
5	200	1		11	X											5		
6	150	1		12	X											6		
7	100	1		13	X											7		
8	75	1		14	X											8		
9	50	1		15	X											9		
10	40	1		15	X											10		
11	30	1		16	X											11		
12	20	1		032/42	X#2	X#1	X#1	X#2	X#3							12		
13	10	1		17	X											13		
14	0	1		17	X											14		
15																15		
16																16		
17																17		
18																18		

ST=

SSSal=

Nuts 0,25,50,75,100,150,200,250,300,400

PROJECT & LEG												STATION NO.			
VESSEL R/V Thomas G. Thompson			CRUISE ID TN263 TN263			GOA-IEP-LTL Spring 2011									
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. SPD. (kts)	CLOUD (amt) TYPE	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR								
30 45 61	11.19	N	134 32.65	W	04	MA	Y1	10	31	16.5	15	152	30	558	554
SBE 9+			FLUOR S/N												
PRESS SN			SBE43-Oxy (prime)												
PRI TEMP SN			SBE43-Oxy (sec)												
SEC TEMP SN			Transmissometer												
PRI COND SN			PAR S/N												
SEC COND SN			02 Tmp Sensor No.												
NIS No.	DEPTH DESIRED	Rosette Notes		Hydro Team-PMEL		Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-JR	Comments	NIS No.		
				SALT	Nut.Btl	02-Btl/No	DIC/Alk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms		
1	205	✓				2963	✓							LEADER	1
2	406	✓					✓								2
3	200	✓					✓								3
4	100	✓					✓								4
5	50	✓					✓								5
6	35	✓					✓								6
7	0	✓					✓								7
8	✓	✓					✓								8
9	✓	✓					✓								9
10	✓	✓					✓								10
11	✓	✓					✓								11
12	✓	✓					✓								12
13	✓	✓					✓								13
14	✓	✓					✓								14
15	✓	✓					✓								15
16	✓	✓					✓								16
17	✓	✓					✓								17
18	✓	✓					✓								18

SST =

45

SSSal = 31.89 X

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-JERR-LTL Spring 2011		STATION NO. <i>3</i>																
CONSC CAST #	LATITUDE <i>12.56°</i>	LONGITUDE	TIME (GMT)	DRY BULB	WET BULB	PRESSURE SEA STATE VISIBILITY	WIND DIRN. SPD.	WIND CLOUD (amt type WEATHER	BOTTOM DEPTH	STA. NAME/ID												
DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)					
0	0	55	62	22	5	N	13	43	6.3	W	04	MA	Y	1	1	05	23	4.5	14	16123	525	155
SBE 9+						FLUOR S/N		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		02 Trip Sensor No.		MAX. DEPTH =				
PRESS SN																						
PRI TEMP SN																						
SEC TEMP SN																						
PRI COND SN																						
SEC COND SN																						
NIS No.	DEPTH DESIRED	Rosette Notes		Hydro Team-PMEI		Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-JR		Comments		NIS No.						
		SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms											
1	<i>Bot</i>	1				18	092	466	X										1			
2	<i>400</i>	1				19	X												2			
3	<i>300</i>	1				20		X											3			
4	<i>200</i>	1				21	X												4			
5	<i>150</i>	1				22													5			
6	<i>100</i>	1				23	X												6			
7	<i>75</i>	1				24													7			
8	<i>50</i>	1				25	X												8			
9	<i>40</i>	1																				
10	<i>30</i>	1				26																
11	<i>20</i>	1																				
12	<i>10</i>	1																				
13	<i>8</i>	1				27	X															
14	<i>6</i>	1																				
15																						
16																						
17																						
18																						

SST=

SSSal=

VESSEL		CRUISE ID TN263		PROJECT & LEG				STATION NO.										
R/V Thomas G. Thompson		TN263		GOA-ERF-LTL Spring 2011				MM 6										
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE		WIND DIRN. SPD.	CLOUD (amt) TYPE	WIND DIRN. SPD.	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO				YR	HR							
65628.86 N	13511.45 W	4	MA	Y	1	1	13	0	6.5	11	14427		135	5640				
SBE 9+																		
PRESS SN																		
PRI TEMP SN																		
SEC TEMP SN																		
PRI COND SN																		
SEC COND SN																		
Nis	DEPTH	Rosette Notes		Hydro Team-PMEI		Kristian	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UJ	Comments	Nis					
No.	DESIRED	(SALT)		Nut.Btl	02-Btl No	DIC/ALK	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms	No.					
1	6			(270)	28	X							1					
2	100				29								2					
3	75				30	X							3					
4	50				31		L6						4					
5	40				32	X	L5						5					
6	30				33		L4						6					
7	20				34	X	L3						7					
8	10				35		L2	3	6				8					
9	0				36	X	L1		5				9					
10													10					
11													11					
12													12					
13													13					
14													14					
15													15					
16													16					
17													17					
18													18					

SST= 6.8 27 SSSal= 31.881

Spel 0a Nusshwa 01020 30 40 50 75 100

150 200 300 400

Vessel												Project & Leg								Station No.			
R/V Thomas G. Thompson				Cruise ID TN263				GOA-IERP-LTL Spring 2011															
Consc Cast #		Latitude		Longitude		Time (GMT)		Dry Bulb		Wet Bulb		Pressure		Sea State		Wind		Cloud (amt)		Bottom Depth		Sta. Name/ID	
deg	min	N		deg	min	day	mo	yr	hr	min	(°C)	(°C)	(mb)	*	*	(deg)	(kt)	*	*	(m)			
7																					5245		
SBE 9.1		FLUOR/S/N		SBE43-Oxy (prime)		SBE43-Dwy (sec)		Transmissometer		PAR S/N		02 Tmp Sensor No.		REMARKS		MAX. DEPTH =							
PRESS SN														Jen (Fe) Cast									
PRI TEMP SN														No Samples									
SEC TEMP SN														Aborted Cast because Pumped dry at									
PRI COND SN														Bottom in Bunker was									
SEC COND SN																							
NIS	Depth	Rosette Notes		Hydro Team-PMEL		Kristan		Sctom		Phyto		Micro zoops		Kira A-I		Whittaker-JRI		Comments		NIS			
No.	Desired			SALT		02-Btl No		Chloro-I		Formalin glass		Glut.-plastic		Lugols-		FE		Diatoms		No.			
1																				1			
2																				2			
3																				3			
4																				4			
5																				5			
6																				6			
7																				7			
8																				8			
9																				9			
10																				10			
11																				11			
12																				12			
13																				13			
14																				14			
15																				15			
16																				16			
17																				17			
18																				18			

SST =

SSSal =

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-MERR-LTL Spring 2011		STATION NO. 13-76						
CONSC CAST #	LATITUDE	LONGITUDE	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY					
DEG	MIN	DEG	MIN	DAY	MO	HR	DIRN.					
75 6 29 . 0 0 N		35 1 2 . 5 4 W		5	MAY	1	1050					
SBE 9+		FLUOR S/N				6.						
PRESS SN		SBE43-Oxy (prime)				. 07						
PRI TEMP SN		SBE43-Oxy (sec)				50						
SEC TEMP SN		Transmissometer				9						
PRI COND SN		PAR SN				147						
SEC COND SN		02 Tmp Sensor No.				5640						
NIS	DEPTH	Rosette Notes	Hydro Team-PWEL	Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UR	Comments	NIS	
No.	DESIRED		SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms
1	10		27	1							X	
2												1
3												2
4												3
5												4
6												5
7												6
8												7
9												8
10												9
11												10
12												11
13												12
14												13
15												14
16												15
17												16
18												17
												18

ST - 6.873

SSSal - 31.875

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-IERP-LTL Spring 2011				STATION NO.															
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND	WIND	CLOUD (amt)	BOTTOM	STA. NAME/ID			
		85	6	25	.73	N	13	51	9	.95	W	5	MAY	11	12	25	6	2	07	68	19	145	5545
SBE 9+											FLUOR S/N												
PRESS SN											SBE43-Oxy (prime)												
PRI TEMP SN											SBE43-Oxy (sec)												
SEC TEMP SN											Transmissometer												
PRI COND SN											PAR S/N												
SEC COND SN											02 Tmp Sensor No.												
NIS	DEPTH	Rosette Notes		Hydro Team-PNEL		Kristan		Strom		Phyto		Micro zoops		Ana A-I		Whittaker-UR		Comments		NIS			
No.	DESIRED			SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms								No.		
1																					1		
2																					2		
3																					3		
4																					4		
5																					5		
6																					6		
7																					7		
8																					8		
9																					9		
10																					10		
11																					11		
12																					12		
13																					13		
14																					14		
15																					15		
16																					16		
17																					17		
18																					18		

SST = 6.831 SSST = 31.862

10m wire out 16 press | 55m wire out = 61 press
 35m wire out 40 press | 65m wire out → 70 press
 50m wire out 45 press | 75m wire out → 80 press

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-IERP-LTL Spring 2011				STATION NO.						
CONSC CAST #	LATITUDE		CONSC CAST #	LONGITUDE		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	WIND	WIND	CLOUD (amt)	BOTTOM	STA. NAME/ID
	DEG	MIN		DEG	MIN	DAY	MO	YR	HR	DIRN.	SPD.	TYPE	DEPTH	
	95	6	25	.72	N	13	52	0.00	W	5	MA	Y	1	1
SBE 9+														
PRESS SN														
PRI TEMP SN														
SEC TEMP SN														
PRI COND SN														
SEC COND SN														
NIS	DEPTH	Rosette Notes		Hydro Team-PMEL		Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UR	Comments		NIS
No.	DESIRED	SALT		Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Comments		No.
1	130	37(150)				X								1
2	100	38												2
3	75	39				X								3
4	50	40					L6							4
5	40	41				X	L5							5
6	30	42					L4							6
7	20	43					L3							7
8	10	44					L2	5	3	10				8
9	0	45				X	L1							9
10														10
11														11
12														12
13														13
14														14
15														15
16														16
17														17
18														18

ST= 6,837

SSSal = 0.859 O₂ Nwks chlor phyto erops

Cast after Fe Cast

REMARKS
 MAX. DEPTH = 131 m

Lakes

14-77

CRUISE ID TN263												PROJECT & LEG								STATION NO.	
R/V Thomas G. Thompson												GOA-JERR-LTL Spring 2011								15	
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)			DRY BULB		WET BULB		PRESSURE		SEA STATE DIRN.	WIND SPD. (kts)	WIND CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*							*	(deg)
105623.69	N	135027.31	W	5	MAY	11	15	18	6.6	07	126	3				175	SEA 10				
SBE 9+													FLUOR S/N								
PRESS SN													SBE43-Oxy (prime)								
PRI TEMP SN													SBE63-Oxy (sec)								
SEC TEMP SN													Transmissometer								
PRI COND SN													PAR SN								
SEC COND SN													O2 Tmp Sensor No.								
NIS	DEPTH	Rosette Notes		Hydro Team-PMEI		Kristan	Strom		Phyto		Micro zoops		Ana A-I		Whittaker-JR		Comments		NIS		
No.	DESIRED			SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE		Diatoms			No.				
1	16.8			14.6			X										1				
2	150			14.7													2				
3	100			48			X										3				
4	75			49													4				
5	50			50													5				
6	40			51			X										6				
7	30			52													7				
8	20			53													8				
9	10			54			X										9				
10	0	(272) CS (113)															10				
11																	11				
12																	12				
13																	13				
14																	14				
15																	15				
16																	16				
17																	17				
18																	18				

SST = 6.882

SSSal = 31.84⁰ Sal Nuts Che

0 10 20 30 40 50 75 100 150

Pnu Zoons DIC

200 300 400

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263

PROJECT & LEG
GOA-JERP-LTL Spring 2011

STATION NO.

160

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD. (kts)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	*	*	(deg)	*	*	(m)				
11	56	18.56	N		.	W	15	M	A	Y	1	1	6	.3	07	113	14	1013.4	3420
SBE 9+																			
PRESS SN																			
PRI TEMP SN																			
SEC TEMP SN																			
PRI COND SN																			
SEC COND SN																			
NIS	DEPTH	Rosette Notes	Hydro Team-PMEI	Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-JR	Comments	NIS	No.							
No.	DESIRED		SALT	Nut.Btl	02-Btl.No	DIC/ALK	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms							
1				56														1	
2																		2	
3																		3	
4																		4	
5																		5	
6																		6	
7																		7	
8																		8	
9																		9	
10																		10	
11		DON'T USE																11	
12																		12	
13																		13	
14																		14	
15																		15	
16																		16	
17																		17	
18																		18	

19:40

(45 minutes)

SST=

SSSal=

O2 Nuts chloro phyto zoops Kenny w DIC Ekma bottle gre sugar
 00 00 10 20 20 30 40 50 75 100 150 200 300 400 500 750 1000

VESSEL		CRUISE ID TN263		PROJECT & LEG				STATION NO.														
R/V Thomas G. Thompson		TN263		GOA-MERR-LTL Spring 2011				16														
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	WIND DIRN.	WIND SPD.	CLOUD TYPE	BOTTOM DEPTH	STA. NAME/ID								
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)				
11	56	18	.55	N	135	41	16	W	65	MAY	11	18	46	6	.3	47	11	3	14	1611	SEA 24	
SBE 9+					FLUOR S/N																	
PRESS SN					SBE43-Oxy (prime)																	
PRI TEMP SN					SBE43-Oxy (sec)																	
SEC TEMP SN					Transmissometer																	
PRI COND SN					PAR SN																	
SEC COND SN					02 Temp Sensor No.																	
NIS	DEPTH	Rosette Notes		Hydro Team-PMEI		Kristan	Strom	Phyto	Micro zoops	Ana A-1	Whittaker-JR	Comments		NIS								
No.	DESIRED	SALT	Nut.Btl	02-Btl No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms			No.								
1	1500													1								
2	750													2								
3														3								
4	560													4								
5	400													5								
6	300													6								
7	200													7								
8	150													8								
9	125													9								
10	75													10								
11														11								
12	50													12								
13	40													13								
14	30													14								
15	20													15								
16	10													16								
17	10													17								
18	10													18								
19	0													19								
20	0													20								
21														21								
22														22								
23														23								
24														24								

SST=

SSSal=

σ_2 , NTS, Chlor, Phyto, Zoids, Towing w DIC Extra bottle for Subsamples
 0, 0, 10, 10, 20, 20, 30, 40, 50, 75, 100, 150, 200, 300, 400, 500, 750, 1000

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-JERP-LTL Spring 2011				STATION NO. <i>X721</i>									
CONSC CAST #	56 45 46	start	136 08.97	LATITUDE	DEG MIN	DEG MIN	DAY MO YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	WIND DIRN	WIND SPD	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
DEG	56 45 .46 N			DEG	MIN	DEG	MIN	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*
SBE 9+	125 6 4 5 .46 N					136	8 .98 W	06 MAY 11	0830	5 .5	.05	16423				1515	5 E 20
PRESS SN																	
PRI TEMP SN																	
SEC TEMP SN																	
PRI COND SN																	
SEC COND SN																	
NIS	DEPTH	Rosette Notes		Hydro Team-PH&EL	Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-JIF		Comments				NIS No.
NO.	DESIRED	SALT	Nut.Btl	02-Btl No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms						
1	1500	1500											<i>Long and caught in</i>	<i>1</i>			
2	1000	1000		275	72	219	X						<i>3 double - try 4</i>	<i>3</i>			
3	750	10750			73												
4	500	750			74		X										
5	420	500			75												
6	300	400			76		X										
7	225	300			77												
8	200	205			78												
9	150	200			79		X										
10	150	150			80												
11	100	X	X				X	X									
12	100																
13	75																
14	50																
15	40																
16	30																
17	25																
18	10																
19	0																
20																	
21																	
22																	
23																	
24																	

SST = 6.987

SSSal = 31.870

7-16 Nut & DNA

750 1000 1500

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263

PROJECT & LEG
GOA-ERP-LTL Spring 2011

STATION NO. 22																			
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)			DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	BOTTOM DEPTH	STA. NAME/ID		
DEG	MIN		DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(kts)	*	*	*	
135650.03	N	13552.87	W	6	MAY	11	129	5.6	.	05	13225					1975	5010		
SBE 9+																			
PRESS SN																			
PRI TEMP SN																			
SEC TEMP SN																			
PRI COND SN																			
SEC COND SN																			
NIS	DEPTH	Rosette Notes		Hydro Team-PMEL	Kristan	Strom	Phyto	Micro zoops	Ana A	Whittaker-JR	Comments								
No.				02-BTLNO	DIC/AIK	Chloro	Formalin glass	Glut.-plastic	PE	Diatoms									
1	190	276	89		X													1	
2	150		90															2	
3	100		91		X													3	
4	75		92															4	
5	50		93		X	L6												5	
6	40		94		X	L5												6	
7	30		95		X	L4												7	
8	20		96		X	L3												8	
9	10		97		X	L2												9	
10	0		98	215	L1													10	
11																		11	
12																		12	
13																		13	
14																		14	
15																		15	
16																		16	
17																		17	
18																		18	

SST = 6.96

SSSal = 31.95

0 10 20 30 40 50 75 100
100 200

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE DIRN. (deg)	WIND SPO. (kts)	WIND CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	STATION NO.
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN							
145653.06N	13545.74W	6	13545.74W	1	1	1	1324	5.6	.05	13416	134	5	ED5		23	
SBE 9+			FLUOR S/N													
PRESS SN			SBE43-Oxy (prim)													
PRI TEMP SN			SBE43-Oxy (sec)													
SEC TEMP SN			Transmissometer													
PRI COND SN			PAR S/N													
SEC COND SN			O2 Trip Sensor No.													
NIS	DEPTH	ROSETTE NOTES	Hydro Team-PMEL	Kristan	Strom	Phyto	Micro zoopl	Ana AH	Whittaker-LR	Comments	NIS					
No.	DESIRED		SALT	Nut.Btl	O2-BtuNo	DIC/Alk	Chloroph	Formalin glass	Glut.-plastic	Lugols-	No.					
1	127		99	108	X						1					
2	100		100								2					
3	75		101		X						3					
4	50		102			16					4					
5	40		103		X	15					5					
6	30		104			14					6					
7	20		105		X	13					7					
8	10		106			12					8					
9	0		272	107		11					9					
10											10					
11											11					
12											12					
13											13					
14											14					
15											15					
16											16					
17											17					
18											18					

SST = 6.9/4

SSSA= 31.5/6

Nwks calc

0 10 20 30 40 50 75 100

OIC

CONSC CAST #	LATITUDE			LONGITUDE			TIME (GMT)	DRY BULB (°C)	WET BULL (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt TYPE)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	STATION NO.
	DEG	MIN	SEC	MIN	DAY	MO	YR	HR	MIN									
155 6 55 . 10 N	135 33 . 11 W									507	5.5							24
SIDE 9+										FLUOR S/N								
PRESS SN										SBE43-Dry (premo)								
PRI TEMP SN										SBE43-Dry (sec)								
SEC TEMP SN										Transmissometer								
PRI COND SN										PAR S/N								
SEC COND SN										02 Trip Sensor No.								
NIS	DEPTH	Rosette Notes		Hydro Team-PMEL		Kristan	Strom	Phyto	Micro zoops	Ara A-I	Whittaker-LRL	Comments		NIS				
No.	DESIRED	SALT		Nut.BTU	02-BTU	No.	DIC/Calk	Glochel	Formalin glass	Glut.-plastic	Lugols-	Fl	Diatoms	No.				
1	90	108					X											1
2	75	109																2
3	50	110					X											3
4	40	111																4
5	30	112					X											5
6	20	113																6
7	10	114					X											7
8	10	115																8
9	0	116					X											9
10		117																10
11		118																11
12		119																12
13		120																13
14		121																14
15		122																15
16		123																16
17		124																17
18		125																18

SST = 6.37°C SSS= 30.0‰

Depth in meters
 0 10 20 30 40 50 75 100
 150

PROJECT & LEG												STATION NO.					
VESSEL		CRUISE ID TN263		GOA-IERP-LTL Spring 2011								25					
CONSC CAST #	LATITUDE		LONGITUDE				TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	(°C)	(°C)	(mb)	*	(deg)	(kts)	*	*	(m)	
165.656	42 N	125°24.1 P	W	6	1	1	1	16.51	15.9	105	2	24	3	2	136300	B	
SBE 9+																	
PRESS SN																	
PRI TEMP SN																	
SEC TEMP SN																	
PRI COND SN																	
SEC COND SN																	
NIS	DEPTH	ROSETTE NOTES		Hydro Team+PMEL	Kristan		Strom	Phyto		Micro zoopl.	Ana A.	Whittaker-JRU		Comments		NIS No.	
No.	DESIRED	REACH		SALT	Nut.Btl	O2-Btl.No	DIC/AIk	Chloro- Formalin glass	Glut.-plastic	Lugols-	REF						
1	127			216	232		X									1	
2	100			117												2	
3	75			118			X									3	
4	50			119												4	
5	40			120			X									5	
6	30			121												6	
7	20			122			X									7	
8	10			123												8	
9	10															9	
10	0			124			X									10	
11																11	
12																12	
13																13	
14																14	
15																15	
16																16	
17																17	
18																18	

SST = 6.942

SSSal = 31.819 O₂ Sal NwS DNA 0 10 20 30 40 50 75 100 150VESSEL
R/V Thomas G. Thompson
TN263PROJECT & LEG
GOA-IERP-LTL Spring 2011STATION NO.
25

25

VESSEL
R/V Thomas G. Thompson
CRUISE ID TN263
PROJECT & LEG
GOA-HERP-LTL Spring 2011

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)			DRY BULB (°C)	WET BULL (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amb) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	STATION NO.
	DEG	MIN	DEG	MIN	DAY	MO	YR											
① 1757.2	2.66 N	135	1.30 W	07	MA	Y1	10	51	6.0	.	7	344	3	7.5	5E60a	33		
SBE 94																		
PRESS SN																		
PRI TEMP SN																		
SEC TEMP SN																		
PRI COND SN																		
SEC COND SN																		
NIS	DEPTH	Rosette Notes		Hydro Team-PMEL		Kristan	Strom	Phyto	Micro zoops	Ara A-I	Whittaker-LIR	Comments	NIS					
No.	DESIRED	SALT	Nut.Btl	02-Btl No	DIC/Alk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	F	Diatoms	No.						
1	b/t		12.5	222	X							1						
2	wd		126									2						
3	39		127		X							3						
4	20		128									4						
5	14		129									5						
6	6		130		X							6						
7	0		?									7						
8												8						
9												9						
10												10						
11												11						
12												12						
13												13						
14												14						
15												15						
16												16						
17												17						
18												18						

SST = 6.9, 9.6, 2

SSSal = 3.1, 9.1, 3

VESSEL		CRUISE ID TN263		PROJECT & LEG		STATION NO.																
R/V Thomas G. Thompson		TN263		GOA-JERP-LTL Spring 2011		34																
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°F)	PRESSURE (mb)	SEA STATE * * (deg)	WIND DIRN.	WIND SPD. (kts)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
		18	57	21	.99	N	136	4	.74	W	2	MAY	1	1	830	5.3	.	7	345	6	107	5660
SBE 9+															FLUOR S/N							
PRESS SN															SBE43-Oxy (prime)							
PRI TEMP SN															SBE43-Oxy (sec)							
SEC TEMP SN															Transmissometer							
PRI COND SN															PAR S/N							
SEC COND SN															O2 Tmp Sensor No.							
NIS	DEPTH	Rosette Notes		Hydro Team-PMEI		Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-JR		Comments	NIS							
No.	DESIRED			SALT	Nut.Bt	02-Btl/No	DIC/AIk	Chloro-l	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms	No.								
1														1								
2														2								
3														3								
4														4								
5														5								
6														6								
7														7								
8														8								
9														9								
10														10								
11														11								
12														12								
13														13								
14														14								
15														15								
16														16								
17														17								
18														18								

SST = 6.865 SSSal = 31.950

CONSC CAST #	STATION NO.																	
	DEPTH DEG	MIN	DEPTH DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amb)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
195721.99 N	136	4.7	44	74W	7	MAY	1	1933	5.1	0	07	322	4	0	10F	5660		
SBE 9+								FLUOR S/N										
PRESS S/N								SBE-13-Dry (prime)										
PRI TEMP S/N								SBE-43-Oxy (sec)										
SEC TEMP S/N								Transmissometer										
PRI COND S/N								PAR S/N										
SEC COND S/N								02 Tmp Sensor No.										
NIS	DEPTH	Rosette Notes	Hydro Team-PMEI	Kristan	Strom	Phyto	Micro zoops	Ana A-H	Whittaker-JUR	Comments	NIS	No.						
No.	DESIRED		SALT	Nut.Btl	02-Btl/No	DIC/Aik	Chloro	Formalin glass	Gut.-plastic	Lugols-	FE							
1	b		280			X												1
2	b		131															2
3	75		132		X													3
4	50		133		X													4
5	40		134		X													5
6	30		135		X													6
7	20																	7
8	20		136		X													8
9	10		137		L3													9
10	0		138	219	X													10
11																		11
12																		12
13																		13
14																		14
15																		15
16																		16
17																		17
18																		18

SST=

SSSal=

O₂ Nuts Chl Phyto 200P DIC DNA

0 10 20 30 40 50 75 8

Vessel R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-JERI-LTL Spring 2011		STATION NO. 35												
CONSC CAST #	LATITUDE	DEG MIN	LONGITUDE	DEG MIN	DAY MO	YR	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD. (kts)	CLOUD (amt)	WIND TYPE	BOTTOM DEPTH (m)	STA. NAME/ID	
20	57	19.07	N	136	11	77	W	27	MA	11	11	7	5.8	67	36	6	1182	3665
SBE 9+				FLUOR S/N														
PRESS SN				SBE43-Oxy (prime)														
PRI TEMP SN				SBE43-Oxy (sec)														
SEC TEMP SN				Transmissometer														
PRI COND SN				PAR S/N														
SEC COND SN				02 Trip Sensor No.														
NIS No.	DEPTH	ROSETTE NOTES	Hydro Team-PMEI	Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-UR		Comments						NIS No.
1	170		139	X				Chloro-l	Formalin glass	Gut-plastic	Lugols-	FE	Diatoms					1
2	150		140	X														2
3	150		181	X														3
4	100		142	X														4
5	75		143	X														5
6	50		144	X														6
7	40		145	X														7
8	30		146	X														8
9	20		147	X														9
10	10		148	X														10
11	0		149	X														11
12	0	081	150	X														12
13		151	152															13
14																		14
15																		15
16																		16
17																		17
18																		18

SST = 6.916

SSSal=31.951

0 10 20 30 40 50 75 100 150

Vessel R/V Thomas G. Thompson		Cruise ID TN263		Project & Leg GOA-JERRP-LTL Spring 2011		Station No. 36																		
Consc Cast #	Latitude		Longitude		Time (GMT)		Dry Bulb		Wet Bulb		Pressure		Sea State		Wind		Wind		Cloud (amt)		Bottom		Sta. Name/ID	
	deg	min	deg	min	day	mo	yr	hr	min	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	(m)			
21	57	16.89	N	136	20.97	W	7	MAy	11	1315	5.9	.67	349	4	5456	6610								
SBE 9+				FLUOR S/N																				
PRESS SN				SBE43-Oxy (prime)																				
PRI TEMP SN				SBE43-Oxy (sec)																				
SEC TEMP SN				Transmissometer																				
PRI COND SN				PAR SN																				
SEC COND SN				02 Trip Sensor No.																				
NIS	Depth	Rosette Notes		Hydro Team-PMEI		Kristan	Strom	Phyto		Micro zoops		Ana A-I	Whittaker-UFR	Comments		NIS								
No.	Desired	SALT	Nut-Btl	02-Btl No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms			No.										
1	541			282	149	032	X								1									
2	400				150		X								2									
3	400					151		X							3									
4	300					152		X							4									
5	200					153		X							5									
6	150														6									
7	100														7									
8	75														8									
9	50														9									
10	40														10									
11	30														11									
12	30														12									
13	20														13									
14	10														14									
15	0														15									
16															16									
17															17									
18															18									

ST= 7, 156

SSSal= 31, 953

0 10 20 30 40 50 75 100 150 200

300 400 500

PROJECT & LEG										STATION NO.					
VESSEL		CRUISE ID TN263		GOA-IERP-LTL Spring 2011		37									
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(m)	
CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	(°C)	(°C)	(mb)	*	*	(m)	STA. NAME/ID
225711.68N	13637.48W	7	MA	Y	11	1715	6	3	08	23310	1800	5	620	SEC620	
SBE 9+															
PRES SN															
PR/T TEMP SN															
SEC TEMP SN															
PRI COND SN															
SEC COND SN															
NIS	DEPTH	Rosette Notes	Hydro Team-PMEL	Kristan	Strom	Phyto	Micro zoops	Ara A-H	Whittaker-LUR	Comments					NIS
No.	DESIRED		SALT	Nut.Btl	02-Btl No	DIC/Alk	Chloro	Formalin glass	Gut.-plastic	Lugols-	FE				No.
1	1000	✓				162		X							1
2	750	✓				163		X							2
3	500	✓				164		X							3
4	400	✓				165		X							4
5	300	✓				166		X							5
6	200	✓				167		X							6
7	150	✓				168		X							7
8	100	✓				169		X							8
9	75	✓				170		X							9
10	50	✓				171		X	L6						10
11	40	✓				172		X							11
12	40	✓				173		X	L4						12
13	40	✓				174		X	L3						13
14	30	✓				175		X	L2						14
15	20	✓													15
16	10	✓													16
17	10	✓													17
18	0														18

Remarks: *Amo. Comb. Fe & hydro*
 500 900 ✓ 9960 O2 (20) 212
 700 ✓ 950 ✓ 980 ✓

02 Trip Sensor No.
 MAX. DEPTH = m

SST= 7.113 SSSal= 31.955 Sal= 28.3 WNW 10 deg Sub arne
 190 n.n. whidam RDLND NwB 1740 19 Keesey

Vessel R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-HERP-LTL Spring 2011		STATION NO. 51																	
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
23	57 56.99 N	13	40.19 W	38	51	1	1	1	1	752	5.1	1.3	29510	*	*	(deg)	(kts)	*	*	(m)		SENDO	
SBE 9+																							
PRESS SN																							
PRI TEMP SN																							
SEC TEMP SN																							
PRI COND SN																							
SEC COND SN																							
NIS	DEPTH	ROSETTE NOTES	HYDRO TEAM-PMEI	KRISTAN	STROM	PHOTO					MICRO ZOOP	ANELLA	WHITTAKER-JR		COMMENTS								
NO.	DESIRED		SALT	NUT-BT1	02-BH-NO	DIC/AIK	CHLOR	FORMALIN	GLO	GLO	GLASS	GLUT-PLASTIC	LUGOL'S	DIATOMS									
1	b	100		128	91	X																	
2	75			170																			
3	50			189		X																	
4	40			180																			
5	30			184																			
6	30																						
7	20			182		X	13																
8	10																						
9	10																						
10	10			183		X																	
11	0																						
12																							
13																							
14																							
15																							
16																							
17																							
18																							

SST = 6.671

SSSal = 31.748

0 10 10 10

0 10 20 30 40 50

51
100

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-IEP-LTL Spring 2011		STATION NO. 52											
CONSC CAST #	DEG MIN	LATITUDE	DEG MIN	LONGITUDE	DAY MO	YR HR MIN	TIME (GMT)	DRY BULB ("C)	WET BULB ("C)	PRESSURE (mb)	SEA STATE * (deg)	WIND DIRN.	WIND SPD. (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID S.E.K.S
42 45 57	57 54 . 94 N	13 47 . 97 W	38 M A Y 1 1	19 23 5 . 4	13	293 15					*						
SBE 9+		FLUOR SN															
PRESS SN		SBE43-Oxy (prime)															
PRI TEMP SN		SBE43-Oxy (sec)															
SEC TEMP SN		Transmissometer															
PRI COND SN		PAR S/N															
SEC COND SN		02 Temp Sensor No.															
NIS No.	DEPTH DESIRED	Rosette Notes		Hydro Team-PMEL		Kristen	Strom	Phyto		Micro zoops	Ara A-I	Whittaker-UR		Comments		NIS No.	
		SALT	Nut.Btl	02-Btl.No	DIC/Alk	Chloro-I	Formalin glass	Glut.-plastic		Lugols-	FE						
1	30T			185	X											1	
2	100			186	X											2	
3	75			187	X											3	
4	56			188	X											4	
5	40			189	X											5	
6	38			190	X											6	
7	20			191	X											7	
8	10			192	X											8	
9	0			193	118											9	
10	"															10	
11																11	
12																12	
13																13	
14																14	
15																15	
16																16	
17																17	
18																18	

SST= 7.4

SSSal= 31.98

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263 TN263		PROJECT & LEG GOA-ERP-LTL Spring 2011		STATION NO. 53												
CONSC CAST #	LATITUDE	LONGITUDE		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID				
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)
Φ	25	57	52.	59	N	136	55.	02	W	48	MAY	1	12	656	5.3	.	14	28507
SBE 9+																		
PRES S/N																		
PRI TEMP S/N																		
SEC TEMP S/N																		
PRI COND S/N																		
SEC COND S/N																		
NIS No.	DEPTH DESIRED	Rosette Notes		Hydro Team-PMEL	Kristian	Strom	Phyto	Micro zoopl.	Ana Ame	Whittaker-JRR	Comments							
				SALT	Nut.Btl	02-Btl No	DIC/AIk	Globo	Formalin glass	Glut.-plastic	Lugols-	RE	Diatoms					
1	201	/	284	X 284	129	X 093	/											1
2	300	/			195	X												2
3	200	/			196	X												
4	100	/			197	X												
5	75	/			198													
6	50	/			199	X												
7	40	/			200													
8	36	/			201													
9	20	/			202	X												
10	10	/			203													
11	0	/			204	X												
12																		
13																		
14																		
15																		
16																		
17																		
18																		

SST=

7.55

SSSal=32.004

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-IERP-LTL Spring 2011		STATION NO. Φ54									
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE * VISIBILITY	WIND DIRN. SPD (kts)	WIND CLOUD TYPE WEATHER	BOTTOM DEPTH	STA. NAME/ID SEK24	
DEG	MIN	DEG	MIN	DAY	MO.	YR	HR	MIN	**	** (deg)	* (kts)	* * * WEATHER	(m)		
Φ 26	57	47	.62	N	137	11	05	W	08 MAY 11	18	5.9	-	14	29108	20850
SBE 9+									FLUOR S/N						
PRESS SN									SBE43-Oxy (prime)						
PRI TEMP SN									SBE43-Oxy (sec)						
SEC TEMP SN									Transmissometer						
PRI COND SN									PAT S/N						
SEC COND SN									02 Temp Sensor No.						
NIS	DEPTH	Rosette Notes		Hydro Team-PME		Kristan	Strom	Phyto	Micro zoopl.	Ara A-Hg	Whittaker-UR	Comments		NIS	
No.	DESREQ			SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-a	Formalin glass	Gilt.-plastic	Lugols-			No.	
1	BOT			305			X							1	
2	200			206			X							2	
3	150			207			X								
4	100			208			X								
5	75			209			X								
6	50			210			X								
7	40			-											
8	30			203			X								
9	20			211			X								
10	20													9	
11	10													10	
12	10													11	
13	0													12	
14														13	
15														14	
16														15	
17														16	
18														17	
														18	

SST=

SSSal=

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263
TN263
PROJECT & LEG
GOA-HERP-LTL Spring 2011

CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)			DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	BOTTOM DEPTH	STA. NAME/ID	STATION NO. 055
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kt/s)	*	*	(m)	m
0	27	57	56.	15	N	137	21	.87	W	09	MAY 11	0202	6.2	.	15	218	10	1715	ELR 0
SBE 9+									FLUOR S/N										
PRESS S/N									SBE-3-Oxy (prime)										
PRI TEMP S/N									SBE-3-Oxy (sec)										
SEC TEMP S/N									Transmissometer										
PRI COND S/N									PAR S/N										
SEC COND S/N									02 Tmp Sensor No.										
NIS No.	DEPTH DESIRED	Rosette Notes		Hydro Team-PMEL		Kristan	Strom	Phyto	Micro zoops	Ava AII	Whittaker-JUR	Comments		NIS No.	REMARKS				
1	B+T			213	X														1
2	150			214															2
3	100			215	X														3
4	75			216	X														4
5	50			217															5
6	40			X															6
7	30			218	X														7
8	20																		8
9	10			X															9
10	8			285	219	X241													10
11	0																		11
12																			12
13																			13
14																			14
15																			15
16																			16
17																			17
18																			18

SST=

SSSal=

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-HERP-LTL Spring 2011		STATION NO. Φ56					
CONSG CAST #	LATITUDE	LONGITUDE		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)				
DEG	MIN	DEG	MIN	DAY	MO	YR	HR				
Φ 28 57.5	4.93 N	137 13.47 W	49 M A Y 1 1	04	02	6.2	.14				
SBE 9+		FLUOR S/N									
PRESS S/N		SBE43-Oxy (prime)									
PRI TEMP S/N		SBE43-Oxy (sec)									
SEC TEMP S/N		Transmissometer									
PRI COND S/N		PAR S/N									
SEC COND S/N		02 Tmp Sensor No.									
NIS NO.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL	Kristan	Strom	Phyto	Micro zoops	Ana A/I	Whittaker-I/R	Comments	NIS No.
1	<i>BOT</i>										1
2	200				220	X					2
3	150				221	X					3
4	100				222	X					4
5	75				223	X					5
6	50				224	X					6
7	25				225	X					7
8	0				226	X					8
9					227	X					9
10					228	X					10
11					229	X					11
12					230	X					12
13					231	X					13
14					232	X					14
15					233	X					15
16					234	X					16
17					235	X					17
18					236	X					18

SST= 7.35

SSSal= 32208

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263 TN263		PROJECT & LEG GOA-MERL-LTL Spring 2011		STATION NO. 457														
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN	WIND (amt)	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/D			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	
29	52	54	16	48	N	13	70	1	50	09	May	11	06	34	6.1	.	14	29109	448	X5T3
SBE 9+										FLUOR S/N										
PRESS S/N										SBE43-Oxy (prime)										
PRI TEMP S/N										SBE43-Oxy (sec)										
SEC TEMP S/N										Transmissometer										
PRI COND S/N										PAR S/N										
SEC COND S/N										O2 Tmp Sensor No.										
NIS	DEPTH	Rosette Notes		Hydro Team-PMEI		Kristan	Strom	Phyto	Micro zoops	Ana A3	Whittaker-JRC	Comments		NIS	No.					
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No	DIC/Alk	Chloro-O	Formalin glass	Glut.-plastic	Lugols-	FE		Diatoms						
1	Bottom			X	228	X	175												1	
2	400				229	X													2	
3	300				230														3	
4	200				231	X													4	
5	150				232														5	
6	100				233	X													6	
7	75				234														7	
8	50				235	X													8	
9	25				236														9	
10	0				237	X													10	
11																			11	
12																			12	
13																			13	
14																			14	
15																			15	
16																			16	
17																			17	
18																			18	

SST = 27.44

SSSal = 31.99

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-HERP-LTL Spring 2011		STATION NO. 458															
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	WIND DIRN.	WIND SPD.	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
43 45 17.5 N	52.59	13	6'55"	6	3W	19	MA	Y1	1	021	6.1	13	276	7	*	(deg)	(kts)	*	*	(m)	XST2
SBE 9+				FLUOR S/N																	
PRESS SN				SBE43-Oxy (prime)																	
PRI TEMP SN				SBE43-Oxy (sec)																	
SEC TEMP SN				Transmissometer																	
PRI COND SN				PAR S/N																	
SEC COND SN				02 Tmp Sensor No.																	
NIS No.	DEPTH DESIRED	Rosette Notes		Hydro Team-PMEL		Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-JR	Comments		Nis No.							
1	450			SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms								
2	400					232															1
3	300					239		X													2
4	200					240		X													3
5	150					241															4
6	100					242		X													5
7	75					243															6
8	50					244		X													7
9	25					245															8
10	0					246		X													9
11																					10
12																					11
13																					12
14																					13
15																					14
16																					15
17																					16
18																					17
																					18

SST = 7.41

SSSal = 31, 964

0 25 50 75 100 150

300 300 400

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263

PROJECT & LEG
GOA-JERP-LTL Spring 2011

STATION NO.

XST 59

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB	WET BULB	PRESSURE (*mb)	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD. (kts)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	*	*	(deg)	*	*	
315751.5	4N	3650.0	4W	9	MAY	1	1	11	25	5.2	1.3	2.5	3	5	18.2	XST	
SBE 9+			FLUOR SN														59
PRESS SN			SBE43-Oxy (prime)														
PRITEMP SN			SBE43-Oxy (sec)														
SEC TEMP SN			Transmissometer														
PRI COND SN			PAR S/N														
SEC COND SN			02 Tmp Sensor No.														
NIS	DEPTH	Rosette Notes	Hydro Team-PMEL	Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-UR		Comments					
No.	DESIRED		SALT	Nut.Btl	02-BtlNo	DIC/Aalk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms					
1	170		242	113		X											1
2	150		249														2
3	100	✓	250		X												3
4	75		251														4
5	50		252		X												5
6	25		253														6
7	0		288	354	X												7
8																	8
9																	9
10																	10
11																	11
12																	12
13																	13
14																	14
15																	15
16																	16
17																	17
18																	18
19																	19
20																	20

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263
TN263PROJECT & LEG
GOA-IERP-LTL Spring 2011

STATION NO.

62

CONSC CAST #	LATITUDE	LONGITUDE	TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb) *	SEA STATE VISIBILITY	WIND DIRN. (kts) *	WIND SPD. (m/s) *	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
			DEG	MIN	DAY										
32 58	7.69 N	136 44.40 W	9	MA	AY	1	1	1705	5.5	13	1	74	13	99	SELLO
SBE 9+															
PRESS SN															
PRI TEMP SN															
SEC TEMP SN															
PRI COND SN															
SEC COND SN															
NIS No.	DEPTH	ROSETTE NOTES	Hydro Team-PMEL	Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UR	Comments	NIS No.				
			SALT	NUT.BTU	O2-BTU/NO DIC/ALK	Chloro-I	Formalin glass	Glu-t.-plastic	Lugols-	FE	Diatoms				
1	96	✓	(289)	255	(102)	X						1			
2	75	✓		226								2			
3	50			257								3			
4	40			258		X						4			
5	30			34	20 mne	L5						5			
6	30			259		L4						6			
7	20			260		L3						7			
8	10			261		L2						8			
9	10											9			
10	0											10			
11	0											11			
12												12			
13												13			
14												14			
15												15			
16												16			
17												17			
18												18			
19												19			
20												20			

SST= 6.84

SSSal= 31.968

Chlor a DNA

0 10 20 30 40 50
75 100 120 150 200

VESSEL		CRUISE ID TN263		PROJECT & LEG				STATION NO.											
RV Thomas G. Thompson		TN263		GOA-JER-P-LTL Spring 2011				463											
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE * (mb)	SEA STATE * (deg)	WIND DIRN.	WIND SPD. (kts)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	33 58.6	33	58.6	136 1.85	136 1.85	11	MA	Y 1 1 2 1 2 3	6.1	6.1	12	116.5	128	X51					
SBE 9+				FLUOR S/N															
PRESS SN				SBE43-Dry (prime)															
PRI TEMP SN				Transmissometer															
SEC TEMP SN				PAR S/N															
PRI COND SN				02 Temp Sensor No.															
SEC COND SN																			
NIS No.	DEPTH DESIRED	Rosette Notes		Hydro Team-PMEL		Kristan	Strom	Phyto	Micro zoops		Ana A-I	Whittaker-URL	Comments		NIS No.				
1	BOT			290	246.4		X		Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms			1			
2	75				365		X									2			
3	50				246		X									3			
4	40				367		X									4			
5	30						X									5			
6	20				267		X									6			
7	10						X									7			
8	0				268	224	X									8			
9	0															9			
10								X								10			
11																11			
12																12			
13																13			
14																14			
15																15			
16																16			
17																17			
18																18			
19																19			
20																20			

SST=

SSSal=

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263
GOA-JERP-LTL Spring 2011

PROJECT & LEG

GOA-JERP-LTL Spring 2011

STATION NO.

~~P64~~

CONSC

CAST #

LATITUDE

LONGITUDE

TIME (GMT)

REMARKS

MAX. DEPTH = m

DEG

MIN

DEG

MIN

DAY

MO

YR

HR

MIN

(°C)

(°C)

(mb)

* * *

(deg)

(kts)

* * *

(m)

WIND DIRN.

WIND SPD.

CLOUD (amt)

WIND TYPE

WEATHER

BOTTOM DEPTH

STA. NAME/ID

PRESS SN

PRI TEMP SN

SEC TEMP SN

PRI COND SN

SEC COND SN

FLUOR SN

SBE43-Oxy (prime)

SBE43-Oxy (sec)

Transmissometer

PAR SN

02 Tmp Sensor No.

NIS No.	DEPTH DESIRED	Rosette Notes				Hydro Team-PMEL		Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UR	Comments	NIS No.
		SALT	Nut/Btl	O2-Btl/No	DIC/AIk	Chloro-H	Formalin glass	Glut-plastic	Lugols-	FE	Diatoms				
1	80T			269	X233	X									1
2	200			276											2
3	150			271											3
4	100			272											4
5	75			273											5
6	50			274											6
7	40			275											7
8	30			276											8
9	20			277											9
10	10			278											10
11	0			279											11
12															12
13															13
14															14
15															15
16															16
17															17
18															18
19															19
20															20

SST=

SSSal=

VESSEL R/V Thomas G. Thompson		PROJECT & LEG CRUISE ID TN263 TN263 GOA-JERL-TL Spring 2011								STATION NO. <i>65</i>									
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND	WIND	CLOUD (amt)	WEATHER	BOTTOM	STA. NAME/ID
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)
43 55 80 9.74 N	136 36.92 W	10	MA	11	04	142	6.0	10	253	165	153	X5-3							
SBE 9+				FLUOR S/N															
PRESS SN				SBE43-Oxy (prime)															
PRI TEMP SN				SBE43-Oxy (sec)															
SEC TEMP SN				Transmissometer															
PRI COND SN				PAR S/N															
SEC COND SN				02 Tmp Sensor No.															
NIS No.	DEPTH DESIRED	Rosette Notes		Hydro Team-PMEI	Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-UJ		Comments	NIS No.					
1	50	X	280	X	91	X													
2	100																		
3	75																		
4	50																		
5	40																		
6	30																		
7	20																		
8	10																		
9	5																		
10	0																		
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			

SST = 6.3

SSSal = 32.084

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263
TN263PROJECT & LEG
GOA-JERRP-LTL Spring 2011

STATION NO.

65
AKA
SEMCO

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR										
6 36 58	16.10	N	136 53.06	W	10	MAY	11	63.59	6.0	108	54	6	54	0	54	54	25
SBE 9+			FLUOR S/N														
PRESS SN			SBE43-Oxy (prime)														
PRI TEMP SN			SBE43-Oxy (sec)														
SEC TEMP SN			Transmissometer														
PRI COND SN			PAR S/N														
SEC COND SN			02 Temp Sensor No.														
NIS	DEPTH	Rosette Notes	Hydro Team-PMEI	Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-LR		Comments						
No.	DESIRED		SALT	Nut.Btl	02-Btl.No	DIC/ALK	Chloro-l	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms					
1	ROT		289	118	X												1
2	75		290			X											2
3	57		291			X											3
4	40		292														4
5	30		292			X											5
6	20		293			X											6
7	10		294														7
8	0		295														8
9																	9
10																	10
11																	11
12																	12
13																	13
14																	14
15																	15
16																	16
17																	17
18																	18
19																	19
20																	20

SST=

SSSal=

VESSEL

CRUISE ID TN263

PROJECT & LEG

STATION NO.

~~STATION NO.~~

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263
TN263PROJECT & LEG
GOA-JERB-LTL Spring 2011STATION NO.
68

CONSC CAST #	LATITUDE		LONGITUDE		DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND	WIND	CLOUD (amt)	WEATHER	BOTTOM	STA. NAME/ID
	DEG	MIN	DEG	MIN				HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	(m)
<i>Φ 38° 58' 13.82 N</i>	<i>137° 00' 87 W</i>				<i>19</i>	<i>MAY</i>	<i>11</i>	<i>0608</i>	<i>6.2</i>	<i>06</i>	<i>07508</i>					<i>134</i>		

SBE 9+	FLUOR S/N	REMARKS
PRESS SN	SBE43-Oxy (prime)	
PRI TEMP SN	SBE43-Oxy (sec)	
SEC TEMP SN	Transmissometer	
PRI COND SN	PAR S/N	
SEC COND SN	02 Tmp Sensor No.	

NIS No.	DEPTH	Rosette Notes	Hydro Team-PMEL	Kristen	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-LR	Comments	NIS No.
1	1301	/	X	305	X 37	X						1
2	100	/		306	/							2
3	75	/		307	/							3
4	50	/		308	/							4
5	25	/		309	/							5
6	0	/	292	310	X							6
7												7
8												8
9												9
10												10
11												11
12												12
13												13
14												14
15												15
16												16
17												17
18												18
19												19
20												20

SST= 7.2

SSSal= 31.84

NO

PROJECT & LEG												STATION NO.																	
VESSEL R/V Thomas G. Thompson		CRUISE ID TN263 TN263												5EM5															
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		WIND		CLOUD (amt		WEATHER									
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	DIRN.	SPD.	TYPE	BOTTOM	DEPTH	STA. NAME/ID			
03958		1	2.9	3	N	137	5.05	W	10	MAY	11	713	6.9	5			70	15		19.5									
SBE 9+						FLUOR S/N																							
PRESS SN						SBE43-Oxy (prime)																							
PRI TEMP SN						SBE43-Oxy (sec)																							
SEC TEMP SN						Transmissometer																							
PRI COND SN						PAR/SN																							
SEC COND SN						02 Tmp Sensor No.																							
NIS	DEPTH	Rosette Notes		Hydro Team-PMEI		Kristan		Strom		Phyto		Micro zoops		Ana A-I		Whittaker-UFL		Comments											
No.	DESIRED			SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-			FE		Diatoms													
1	110			293	311	93	X																						
2	75			312																									
3	50			313				L6																					
4	40			314			X	L5																					
5	30			315				L4																					
6	20			316			X	L3																					
7	10			317				L2																					
8	0			318			X	L1																					
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													
17																													
18																													
19																													
20																													

ST= 7,20

SSSal= 31.857

0 10 20 30 40 50 75 100

SEMI

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)				DRY BULB		WET BULB		PRESSURE		SEA STATE		WIND DIRN.	WIND SPD.	CLOUD (am) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	MAX. DEPTH =	m	REMARKS	STATION NO.	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	* * (deg)	(kts)	* * (deg)	(m)											
40	58	10	36	N	13	7	13	42	W	10	MA	Y	110	856	6.9	.03	6619	126									
SBE 9+										FLUOR S/N																	
PRESS SN										SBE43-Oxy (prime)																	
PRI TEMP SN										SBE43-Oxy (sec)																	
SEC TEMP SN										Transmissometer																	
PRI COND SN										PAR S/N																	
SEC COND SN										02 Trip Sensor No.																	
Nis	DEPTH	Rosette Notes		Hydro Team-PMEL		Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-JP		Comments													
No.	DESIRED			SALT	Nut.Btl	02-Btl No	DIC/Alk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms														
1	117			319			X																				1
2	75			320																							2
3	50			321			X																				3
4	40			322																							4
5	30			323			X																				5
6	20			324																							6
7	10			325			X																				7
8	0			294	326	841																				8	
9																											
10																											
11																											
12																											
13																											
14																											
15																											
16																											
17																											
18																											
19																											
20																											

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-MERR-LTL Spring 2011		STATION NO. 071											
CONSC CAST #	LATITUDE	DEG MIN	LONGITUDE	DEG MIN	DAY MO	YR HR MIN	TIME (GMT) DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE * * * * *	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
415805.51	N	13729.70	W	110	MAY	11 108	6.3	01	1086	19					142	SEMAD	
SBE 9+				FLUOR S/N													
PRESS SN				SBE43-Oxy (prime)													
PRI TEMP SN				SBE43-Oxy (sec)													
SEC TEMP SN				Transmissometer													
PRI COND SN				PAR/SN													
SEC COND SN				02 Tmp Sensor No.													
NIS No.	DEPTH DESIRED	Rosette Notes		Hydro Team-PnEL	Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-U/I	Comments		NIS No.	REMARKS			
		SALT	Nut.Btl	O2-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms						
1	b			327	X												1
2	100			328													2
3	75			329	X												3
4	50			330													4
5	40			331	X												5
6	30			332													6
7	20			333	X												7
8	10			334													8
9	0	295	335	222	X												9
10																	10
11																	11
12																	12
13																	13
14																	14
15																	15
16																	16
17																	17
18																	18
19																	19
20																	20

SST = 7.4153

SSSal = 32.038

R/V Thomas G. Thompson

UNRUE ID TN263

PROJECT & LEG

GOA-ERLP-LTL Spring 2011

STATION NO.

78

CONSC CAST #	LATITUDE	LONGITUDE	TIME (GMT)		DRY BULB	WET BULB	PRESSURE * (mb)	SEA STATE VISIBILITY	WIND DIRN. SPD.	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
			DEG	MIN										
42 58	46.78 N	141 3.99 W	1	41	1	1	1023	5.6	106	158	1	1393		
SBE 9+														
PRESS SN														
PRI TEMP SN														
SEC TEMP SN														
PRI COND SN														
SEC COND SN														
NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEI	Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UR	Comments				
			SALT	Nut.Btl	O2-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms		
1	1036		29.4	33.6	213									1
2	500		33.7	16.6										2
3	410		33.8											3
4	300		33.9											4
5	200		34.0											5
6	150		34.1											6
7	100		34.2											7
8	75		34.3											8
9	50		34.4											9
10	35		34.5											10
11	0		34.6											11
12														12
13														13
14														14
15														15
16														16
17														17
18														18
19														19
20														20

MAX DEPTH =
m

REMARKS
See Sheet A
Paffer

ST=

SSSal=

CONSC CAST #	LATITUDE										LONGITUDE										TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)														
425846.78	N	141	3.99	W	11	MAY	11	1223	5.6	06	158	2						139.5									YBCSDF					
SBE 9+																				FLUOR S/N												
PRESS SN																				SBE43-Dry (prime)												
PRI TEMP SN																				SBE43-Dry (sec)												
SEC TEMP SN																				Thermometer												
PRI COND SN																				PAR S/N												
SEC COND SN																				02 Trip Sensor No.												
NIS	DEPTH	Rosette Notes		Hydro Team-PMEL		Kristian	Strom		Phyto		Micro zoops		Ana A-I		Whittaker-UJ		Comments		NIS													
No.	DESIRED			SALT	Nut.Btl	02-Btl No	DIC/Alk	Chloro-l	Formalin glass	Glut.-plastic	Lugols-	FE		Diatoms					No.													
1	1036	CTD 1	296	3310	(212)														1													
2	1010	Fay																	2													
3	980	Fay																	3													
4	930	Fay																	4													
5	730	Fay																	5													
6	530	Fay																	6													
7	500	CTD 16		337	166														7													
8	400	CTD 13		338	166														8													
9	300	CTD 15		339	166														9													
10	200	CTD 15		340	166														10													
11	150	CTD 16		341	166														11													
12	100	CTD 17		342	166														12													
13	75	CTD 18		343	166														13													
14	50	CTD 19		344	166														14													
15	30	Fay																	15													
16	25	CTD 10		345	166														16													
17	0	CTD 11		346	166														17													
18																			18													
19																			19													
20																			20													

SST = 7.158

SSSal = 32.366

400 400 400 400

Held out 1036m 30 minutes

MAX DEPTH = m

REMARKS YBCSD was held - Am at 1036m

2100 fm in deep front

Tide 1040 ft backcast

Fe benthic traps 30 530 730 930 980

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263

PROJECT & LEG
GOA-IERP-LTL Spring 2011

STATION NO.

78

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN						
4.358	46.82	N	141	3.93	W	11	MAY	1	1400	5.5	.06			1390	YBC50F
SBE 9+										FLUOR S/N					
PRESS SN										SBE43-Oxy (prime)					
PRIM TEMP SN										SBE43-Oxy (sec)					
SEC TEMP SN										Transmissometer					
PRI COND SN										PAR S/N					
SEC COND SN										02 Tmp Sensor No.					
NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PME	Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-UPL		Comments		Nis No.	
1	30	1 F	245	345	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms					
2	25	25	245	345											
3	20	20	245	345											
4															
5															
6															
7															
8															
9															
10	25	25	245	345											
11	20	20	245	345											
12															
13															
14															
15															
16															
17															
18															
19															
20															

REMARKS

Collect few water samples at depth
One time was set wrong

Sharks at 30m, pose to 26

MAX DEPTH = 860 m

ST= 7.09

SSSal= 32.378

VESSEL
R/V Thomas G. ThompsonCRUISE ID TN263
TN263PROJECT & LEG
GOA-HERR-LTL Spring 2011

STATION NO.

79
YBC5D

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. SPD.	WIND CLOUD TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	MAX. DEPTH = m
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN								
445847.90 N	14047.67 W	11 MAY 11	15425.6	06	350	3	21										
SBE 9+			FLUOR S/N														
PRESS SN			SBE43-Oxy (prime)														
PRI TEMP SN			SBE43-Oxy (sec)														
SEC TEMP SN			Transmissometer														
PRI COND SN			PAR S/N														
SEC COND SN			02 Tmp Sensor No.														
Nis	DEPTH	Rosette Notes	Hydro Team-PMEL	Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-UFR		Comments		NIS			
No.	DESIRED		SALT	Nut.Btl	02-Btl No	DIC/AIk	Chloro-l	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms		No.			
1	b	200	347		X									1			
2	150		348											2			
3	100		349		X									3			
4	75		350		X									4			
5	50		351											5			
6	40		352											6			
7	40		353		X									7			
8	30													8			
9	20		354		X									9			
10	10													10			
11	10		355		X									11			
12	10													12			
13	0													13			
14	0	(213) 356 (175)	X											14			
15														15			
16														16			
17														17			
18														18			
19														19			
20														20			

SST= 21.55

SSSal= 32.330

0 10 20 30 40 50 70 100 150 200

VESSEL		CRUISE ID TN263		PROJECT & LEG				STATION NO.																			
R/V Thomas G. Thompson		TN263		GOA-JERB-LTL Spring 2011				80																			
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE																		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	VISIBILITY																		
	45	58	56.	18	N	140	37.	31	W	1	1	MAY	1	1	18	18	4.	1	*	*	(mb)	(deg)	(kts)	*	*	(m)	
SBE 9+																											
PRESS SN																											
PRI TEMP SN																											
SEC TEMP SN																											
PRI COND SN																											
SEC COND SN																											
NIS	DEPTH	Rosette Notes		Hydro Team-PMEL		Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UR	Comments		Nis													
No.	DESIRED			SALT	Nut.Btl	O2.Btl.No	DIC/AIk	Chloro-H	Formalin glass	Glu-t.plastic	Lugols-	PE	Diatoms	No.													
1															1												
2															2												
3															3												
4															4												
5															5												
6															6												
7															7												
8															8												
9															9												
10															10												
11															11												
12															12												
13															13												
14															14												
15															15												
16															16												
17															17												
18															18												
19															19												
20															20												

SST = 7.266

SSSal = 32,115

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-JERP-LTL Spring 2011		STATION NO. 80													
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO.	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND	WIND	CLOUD (amt	BOTTOM	STA. NAME/ID	
		DEG	MIN	DEG	MIN				(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	
	46 58 56.18 N	140 37.31 W	11 MAY 11	1967	4.2	07	21	7.6	189										
SBE 9+				FLUOR SN															
PRESS SN				SBE43-Oxy (prime)															
PRI TEMP SN				SBE43-Oxy (sec)															
SEC TEMP SN				Transmissometer															
PRI COND SN				PAT SN															
SEC COND SN				02 Temp Sensor No.															
NIS	DEPTH	Rosette Notes		Hydro Team-PNEL		Kristan	Strom		Phyto		Micro zoops		Ana A-I		Whittaker-UR		Comments		NIS
No.	DESIRED	SALT		Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I		Formalin glass		Glut.-plastic		Lugols-		FE		Diatoms		No.
1	b	357		219		x													1
2	150	358				x													2
3	100	359				x													3
4	75	360				x													4
5	50	361				x	L6		L7										5
6	40	362																	6
7	30	363				x	L4		L5										7
8	20	364					L3		L4										8
9	10	365				x	L2		L3										9
10	0	366					L1												10
11																			11
12																			12
13																			13
14																			14
15																			15
16																			16
17																			17
18																			18
19																			19
20																			20

SST=

SSSal=

YBC38

CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)			DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
NIS	DEPTH	Rosette Notes		Hydro Team+NEL		Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UR	Comments						
No.	DESIRED	SALT	Nut.Btl	O2-Btl.No	DIC/AIk	Chloro-I	Formalin	Gluet.-plastic	Lugols-	FE	Diatoms							
1	50	60	X	214	347	X						110 water runs						1
2	100			368		X						Loosker						2
3	75			369		X												3
4	50			370	X													4
5	40				X													5
6	30					X												6
7	20						X											7
8	25						X											8
9	10							X										9
10	20								X									10
11	0									X								11
12											X							12
13												X						13
14													X					14
15														X				15
16															X			16
17																X		17
18																	X	18
19																	X	19
20																	X	20

VESSEL		CRUISE ID TN263		PROJECT & LEG				STATION NO.											
R/V Thomas G. Thompson		TN263		GOA-JERPLTL Spring 2011				82											
CONSC CAST #	LATITUDE	LONGITUDE				TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	BOTTOM DEPTH	STA. NAME/ID			
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	(m)		
0	48	59	11.6	7	N	140	15	.7	W	1	MAY	11	13	56	2	.08	343	13	12476C20
SBE 9+																			
PRESS SN																			
PRI TEMP SN																			
SEC TEMP SN																			
PRI COND SN																			
SEC COND SN																			
REMARKS																			
SB643-Oxy (prime) SB643-Oxy (sec) Transmissometer PAR SN																			
02 Tmp Sensor No.																			
NIS NO.	DEPTH DESIRED	Rosette Notes		Hydro Team-PME	Kristan	Strom	Phyto	Micro zoops *	Ana A	Whittaker-JR	Comments	NIS No.							
		SALT	Nut. Btl	02-BUENO	DIC/Aik	Chloro	Formalin glass	Gut.-plastic	Lugols-	FE	Diatoms								
1	bot			373	X 150	X											1		
2	100			374													2		
3	75			375		X											3		
4	50			376													4		
5	40																5		
6	30																6		
7	25																7		
8	20																8		
9	10																9		
10	0			378	X	L1											10		
11																	11		
12																	12		
13																	13		
14																	14		
15																	15		
16																	16		
17																	17		
18																	18		

SST =

SSSal =

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263

PROJECT & LEG

GOA-IERP-LTL Spring 2011

STATION NO.

83

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR										
φ 4 9 5 9 2 0 . 6 6 N	1 4 4 8 3 . 6 8 W	1 2 M A Y 1 1	4 2 3 0	6 . 5												166	
SBE 9+			FLUOR S/N														
PRESS SN			SBE43-Oxy (prime)														
PRI TEMP SN			SBE43-Oxy (sec)														
SEC TEMP SN			Transmissometer														
PRI COND SN			PAR S/N														
SEC COND SN			02 Tmp Sensor No														
NIS	DEPTH	Rosette Notes	Hydro Team-PMEI	Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-UH		Comments					
No.	DESIRED		SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms					
1																	1
2																	2
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10
11																	11
12																	12
13																	13
14																	14
15																	15
16																	16
17																	17
18																	18
19																	19
20																	20

SST=

SSSal=

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-ERPL-TL Spring 2011				STATION NO. 83													
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
		*	*	*	*	*	*	*	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
45.4	59 23.78 N	140 02.80 W	12 MAY 11	0382	6.7	.	49		32015											7846215	
SBE 9+				FLUOR S/N																	
PRESS SN				SBE43-Doy (prime)																	
PRI TEMP SN				SBE43-Doy (sec)																	
SEC TEMP SN				Transmissometer																	
PRI COND SN				PAR S/N																	
SEC COND SN				O2 Tmp Sensor No.																	
NIS	DEPTH	ROSETTE NOTES		HYDRO TEAM-PME	KRISTAN	STROM	PHOTO		Micro zoopl	AQUA-H	WHITTLAKER-JR		Comments		NIS						
No.	DESIRED			SALT	NUT.BR	O2-BR,NO	DIC/ALK	CHLOROP	FORMALIN	Glass	GLUT-PLASTIC	LUGOLS	FE	DIATOMS							
1	50	50		X215	379	113	X														1
2	100			380																	2
3		SK19																			3
4	75			381		X															4
5	50			382		X		L6													5
6	40							L5													6
7	30					X	L4														7
8	30								X67												8
9	25			383																	9
10	70					L3															10
11	10					L2	X23	X20	X65												11
12	0			384		L1															12
13																					13
14																					14
15																					15
16																					16
17																					17
18																					18

SST=

SSSal=

CRUISE ID TN263												PROJECT & LEG		STATION NO.						
VESSEL R/V Thomas G. Thompson		GOA-IERP-LTL Spring 2011												103		YBCCP				
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		WIND	WIND	CLOUD (amt)	WEATHER	BOTTOM	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	
\$5 15 9.28.63	N	139 52.84	W	12 MA Y	1	1	05 54	4	.8	09	369	ok					103			
SBE 9+					FLUOR S/N															
PRESS SN					SBE43-Oxy (prime)															
PRI TEMP SN					SBE43-Oxy (sec)															
SEC TEMP SN					Transmissometer															
PRI COND SN					PAR S/N															
SEC COND SN					02 Tmp Sensor No.															
NIS	DEPTH	ROSETTE NOTES	Hydro Team-PMEI	Kristan	Strom	Phyto	Macro zoopl	Aqua A	Aqua B	Whittaker-LR	Comments									
No.	DESIRED		SALT	Nut-Btu	02-BBL No	DIC/AIk	Globo	Formalin	glass	Glut.-plastic	Lugols-	PE	PE	PE	Diatoms				NIS	
1	10		X	385															1	
2	75			386															2	
3	50			387															3	
4	40																		4	
5	30																		5	
6	25																		6	
7	20																		7	
8	~12																		8	
9	10																		9	
10	0																		10	
11																			11	
12																			12	
13																			13	
14																			14	
15																			15	
16																			16	
17																			17	
18																			18	

SST=

SSSal=

O₂ flask 172 does not have a home - may be from cast 51/1;

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-MERPLTL Spring 2011		STATION NO. 87	
CONSC CAST #	LATITUDE	LONGITUDE		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)
DEG SBE 9+	MIN	DEG MIN	DAY MO	HR MIN	(*) *	(*) *	SEA STATE VISIBILITY
452	59 17.72 N	140 34.00 W	12 MAY 11	1146	16.6	10	WIND DIRN. WIND SPD.
SBE 9+							CLOUD (amt) TYPE
PRESS SN							WEATHER
PRI TEMP SN							BOTTOM DEPTH
SEC TEMP SN							STA. NAME/ID
PRI COND SN							
SEC COND SN							
02 Tmp Sensor No.							
NIS DEPTH	ROSETTE NOTES	HYDRO TEAM-PHIL	KRISTAN	STROM	PHOTO	MICROZOOPL	Comments
NO. DESIRED		SALT	NUT.BTL	O2-BAL.NO	DIC/AIK	CHLOROP	AQUA A-I
1 50						L6	WHITTAKER-UR
2 40						L5	
3 30							
4 30							
5 30							
6 20							
7 10							
8 0							
9 0							
10							
11							
12							
13							
14							
15							
16							
17							
18							

REMARKS
5 clyp in T2/cm2? Big Nits

MAX. DEPTH = m

SST= 7.449

SSSal= 32,080

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263 TN263		PROJECT & LEG GOA-ERP-LTL Spring 2011		STATION NO. 88								
CONSC CAST #	LATITUDE	DEG MIN	LONGITUDE	DEG MIN	DAY MO	YR HR MIN	TIME (GMT) DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE * VISIBILITY	WIND DIRN. SPD.	WIND CLOUD (amt TYPE WEATHER	BOTTOM DEPTH	STA. NAME/ID
0535859.04 N		14122.19 W		12 MAY 11 2101	9.0	14	9.0	14	1013	738	7	738	7	YBESO
SBE 9+														
PRESS SN							FLUOR S/N							
PRI TEMP SN							SBE43-Oxy (prime)							
SEC TEMP SN							SBE43-Oxy (sec)							
PRI COND SN							Transmissometer							
SEC COND SN							PAR S/N							
02 Tmp Sensor No.														
NIS No.	DEPTH DESIRED	Rosette Notes		Hydro Team-PMEI	Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UR	Comments	Nis No.		
		SALT	Nut.Btl	O2-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Gut-plastic	Lugols-	FE	Diatoms			
1	Bottom	X		392	X							1		
2	500			393	X							2		
3	500			394	X							3		
4	306			395	X							4		
5	200			396	X							5		
6	150			397	X							6		
7	100			398	X							7		
8	75			399	X							8		
9	50			400	X							9		
10	40					44						10		
11	30					45						11		
12	25					44						12		
13	20					43						13		
14	18					42						14		
15	10			402	X	41						15		
16	0			403	X	41						16		
17												17		
18												18		
19												19		
20												20		

SST=

SSSal=

										STATION NO.							
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)
Φ 5 4	59 0 6 . 98	N	14 1 11 . 66	W	12	MAY	11	23	8	9 . 4	.	15	16	803	256		
SBE 9+																	
PRESS SN																	
PRI TEMP SN																	
SEC TEMP SN																	
PRI COND SN																	
SEC COND SN																	
02 Tmp Sensor No.										REMARKS							
NIS No.	DEPTH DESIRED	Rosette Notes		Hydro Team-PMEI	Kristan	Strom	Phyto		Micro zoopl.	Aqua AAT	Whittaker-JR		Comments	NIS No.			
				SALT	Nut.Btl	02-Btl.No	DIC/AIk	Gillnet	Formalin glass	Gut.-plastic	Lugols-	FE					
1	405			X	463	x100	X								1		
2	400			X	404										2		
3	450			X	465		X								3		
4	100			X	406										4		
5	75			X	407		X								5		
6	50			X	408		X								6		
7	40			X											7		
8	30			X											8		
9	25			X	409										9		
10	20			X											10		
11	10			X											11		
12	0			X	410		X								12		
13				X			X								13		
14				X			X								14		
15				X			X								15		
16				X			X								16		
17				X			X								17		
18				X			X								18		

SST=

SSSal=

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-HERPL-TL Spring 2011		STATION NO. 93																
CONSC CAST #	LATITUDE	DEG	MIN	LONGITUDE	DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
										(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)			
Φ	5 5	5 9	1 4	. 9	N	1 4	1 0	. 9	8	W	1 3	M A Y	1 1	0	1 5	9	. 2	.	1 6	2 9	3 0	1 8
SBE 9+																						
PRESS SN																						
PRI TEMP SN																						
SEC TEMP SN																						
PRI COND SN																						
SEC COND SN																						
												02 Tmp Sensor No.	REMARKS									
Nis No.	DEPTH DESIRED	Rosette Notes		Hydro Team-PMEL	Kristan	Strom	Phyto	Macro zoops		Ara A.	Whittaker-UR	Comments		Nis No.								
		SALT	Nut.Btl	02-Btl.No	DIC/ALK	Chloro	Formalin	Glass	Glut.-plastic	Lugols-	Diatoms											
1	BOT	X2/7	-4/1	224	X																	
2	150	X	-4/2																			
3	100	X	-4/3		X																	
4	75	X	-4/4		X																	
5	50	X	-4/5		X																	
6	40	X			X																	
7	30	X			X																	
8	25	X	-4/6		X																	
9	20	X			X																	
10	10	X			X																	
11	0	X	-4/7		X																	
12					X																	
13					L3																	
14					L2																	
15					L1																	
16																						
17																						
18																						

SST = 8.24

SSSal = 37.015

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-HERL-TTL Spring 2011				STATION NO. 94														
CONSC CAST #	LATITUDE		DEG	MIN	DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt	WEATHER	BOTTOM	STA. NAME/ID	
	DEG	MIN								HR.	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	
Φ 5 6 5 9 2 3 . 8 1 N	1 4 0 5 0 . 6 3 W	1 3 M A Y 1 1 6 4 2 6	1 8 . 1	.	6 7	0 8 5 0 2	1 1 6 4 2 6	1 8 . 1	.	6 7	0 8 5 0 2	1 1 6 4 2 6	1 8 . 1	1 1 6 4 2 6	1 8 . 1	1 1 6 4 2 6	1 8 . 1	1 1 6 4 2 6	1 8 . 1	1 1 6 4 2 6	1 8 . 1	
SBE 9+			FLUOR SN																			
PRESS SN			SBE43-Dry (prime)																			
PRI TEMP SN			SBE43-Dry (sec)																			
SEC TEMP SN			Transmissometer																			
PRI COND SN			PAR S/N																			
SEC COND SN			O2 Trip Sensor No.																			
NIS No.	DEPTH	ROSETTE NOTES	Hydro Team-PMEL		Kristan	Strom	Phyto	Micro zoops	Aqua Azul	Whittaker-JR	Comments	NIS No.										
			SALT	Nut.Bt	O2-Bkt No	DIC/ALK	Chloro	Formalin glass	Glut.-plastic	Lugols-	RE	Diatoms										
1	20		418	X																1		
2	100		419																	2		
3	75		420																	3		
4	50		421																	4		
5	40			X																5		
6	30																			6		
7	25																			7		
8	20																			8		
9	10																			9		
10	0																			10		
11																				11		
12																				12		
13																				13		
14																				14		
15																				15		
16																				16		
17																				17		
18																				18		

SST=

8,849

SSSal= 36,782

PROJECT & LEG											STATION NO.								
VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		GOA-HERPL-TL Spring 2011						95									
CONSC CAST #	LATITUDE		LONGITUDE		DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
65° 7' 5" S	93° 1' 52" E	N	140° 39' 9.0" W	13 MAY 11	04	7.8	.19	1641	19	10908	281	MAX. DEPTH =	m	YBEK	16				
SBE 9+			FLUOR S/N																
PRESS SN			SBE43-Oxy (prime)																
PRI TEMP SN			SBE43-Oxy (sec)																
SEC TEMP SN			Transmissometer																
PRI COND SN			PAR S/N																
SEC COND SN			02 Temp Sensor No.																
NIS	DEPTH	ROSETTE NOTES	HYDRO TEAM-PMEI	KRISTAN	STROM	PHOTO	MICRO ZOOPHS	ANALYST	WHITTAKER-JR	COMMENTS	NIS								
No.	DESIRED		SALT	NUT-BTL	02-BTL NO	DIC/ALK	CHLOROPH	FORMALIN GLASS	GLUT.-PLASTIC	LUGOLS-	No.								
1	30	/	424	(222)	X						1								
2	20	/	425		X						2								
3	150	/	426								3								
4	100	/	427		X						4								
5	75	/	428								5								
6	50	/	429	X		L6					6								
7	40	/									7								
8	30	/		X	L5						8								
9	25	/			L4						9								
10	23	/									10								
11	20	-									11								
12	10	-									12								
13	0		431	X	L1						13								
14	0										14								
15											15								
16											16								
17											17								
18											18								

SST=

7.51

SSSal= 32.13

SST= 7.51

SSSal= 32.13

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB	WET BULB	PRESSURE * (mb)	SEA STATE VISIBILITY	WIND DIRN. DIRN.	WIND SPD. (kts)	CLOUD (amt) TYPE	WEATHER	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(deg)	(m)	
58 59 37.12 N			140 31.65 W		13	MAY	11	1020	6.3	21	116	156		
SBE 9+			FLUOR S/N											MAX DEPTH =
PRESS SN			SBE43-Oxy (prime)											
PRI TEMP SN			SBE43-Oxy (sec)											
SEC TEMP SN			Transmissometer											
PRI COND SN			PAR S/N											
SEC COND SN			O2 Temp Sensor No.											
NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL	Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-UR	Comments	NIS No.		
1	147		218	432	227	X								
2	100		433											
3	75		434											
4	50		435											
5	40		436											
6	30	J	437			X								
7	30		5	438										
8	25		6	439										
9	20		7	438		X								
10	10		8	439		L3								
11	10		9	H39										
12	0		10	440		X								
13														
14														
15														
16														
17														
18														
19														
20														

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263

PROJECT & LEG
GOA-IERP-LTL Spring 2011STATION NO.
160

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN											
0	59	59	15	.16	N	14	100	.63	W	13	MAY	1	1	20	19	6.7	23	19113	180
SBE 9+									FLUOR S/N										
PRESS SN									SBE43-Oxy (prime)										
PRI TEMP SN									SBE43-Oxy (sec)										
SEC TEMP SN									Transmissometer										
PRI COND SN									PAR S/N										
SEC COND SN									02 Temp Sensor No.										
NIS No.	DEPTH	Rosette Notes	Hydro Team-PMEL	Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-JUR		Comments						NIS No.	
1	BOT		219	441				Chloro-I	Formalin glass	Glut.-plastic	Lugols-	RE						1	
2	150			442														2	
3	100			443														3	
4	75			444														4	
5	50			445														5	
6	20			446														6	
7	0			447	(219)													7	
8																		8	
9																		9	
10																		10	
11																		11	
12																		12	
13																		13	
14																		14	
15																		15	
16																		16	
17																		17	
18																		18	
19																		19	
20																		20	

SST = 7.58

SSSal = 32.84

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263

PROJECT & LEG
GOA-IERP-LTL Spring 2011STATION NO.
14

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB ("C)	WET BULB ("C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD. (kts)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN											
66°45'9.16.N	49'49"	141°07'.34.W	13MAY11	21116.5											YTXL
SBE 9+			FLUOR S/N												
PRESS SN			SBE43-Oxy (prime)												
PRI TEMP SN			SBE43-Oxy (sec)												
SEC TEMP SN			Transmissometer												
PRI COND SN			PAR S/N												
SEC COND SN			02 Tmp Sensor No.												

REMARKS

MAX. DEPTH =

m

NIS No.	DEPTH	Rosette Notes	Hydro Team-PMEI	Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UR	Comments	NIS No.		
			SALT	Nut.Btl	O2-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms	
1	30			448	-								1
2	150			449	4233								2
3	100			450									3
4	75			451									4
5	40			452									5
6	26			453									6
7	0			454									7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20

SST = 7.7

SSSal = 32.867

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-ERP-LTL Spring 2011		STATION NO. 162												
CONSC CAST #	LATITUDE	DEG MIN	LONGITUDE	DEG MIN	DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WIND TYPE	BOTTOM DEPTH	STA. NAME/ID
6	15° 59' 20.55" N	141° 16' 10" W	13 May 11	22 16	6.5	1.2	3											YTK2
SBE 9+			FLUOR SN															
PRESS SN			SBE43-Dry (prime)															
PRI TEMP SN			SBE43-Dry (sec)															
SEC TEMP SN			Transmissometer															
PRI COND SN			PAR S/N															
SEC COND SN			02 Tmp Sensor No.															
NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL	Kristan	Strom	Phyto			Micro zoops	Ana A-I	Whittaker-URI		Comments					NIS No.
1	30	/	SALT	Nut.Btl	02-Btl.No	DIC/ALK		Chloro- Formalin glass	Glu-t.-plastic	Lugols-	FE	Diatoms						1
2	275	/															2	
3	200	/															3	
4	150	/															4	
5	100	/															5	
6	75	/															6	
7	56	/															7	
8	25	/															8	
9	0	/															9	
10																	10	
11																	11	
12																	12	
13																	13	
14																	14	
15																	15	
16																	16	
17																	17	
18																	18	
19																	19	
20																	20	

SST= 7.85

SSSal= 3209

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263

PROJECT & LEG
GOA-JERP-LTL Spring 2011STATION NO.
143

CONSC CAST #	LATITUDE		LONGITUDE		DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE * * * * (deg)	WIND DIRN.	WIND SPD. (kts)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN																	
46 259 21 . 97 N	14 125 . 12 W	13	MA	Y	1	1	2	32	2	6 . 1	24	21	1508	325	-			YXT3			
SBE 9+			FLUOR S/N																		
PRESS SN			SBE43-Oxy (prime)																		
PRI TEMP SN			SBE43-Oxy (sec)																		
SEC TEMP SN			Transmissometer																		
PRI COND SN			PAT S/N																		
SEC COND SN			02 Tmp Sensor No.																		
REMARKS																					
<i>Note - Nutrit. Bits from Suzanne Strom - Smaller vert</i>																					
NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL	Kristan	Strom	Phyto				Micro zoops	Ana A-I	Whittaker-UR		Comments							NIS No.
1	30T		4220	4164						Chloro-a	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms						1
2	325			4165																	2
3	150			4166																	3
4	100			4167																	4
5	75			4168																	5
6	50			4169																	6
7	25			4170																	7
8	0			4171	X092																8
9																					9
10																					10
11																					11
12																					12
13																					13
14																					14
15																					15
16																					16
17																					17
18																					18
19																					19
20																					20

SST = 7.94

SSSal = 32.05

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-JERB-LTL Spring 2011		STATION NO. 164														
CONSC CAST #	LATITUDE		DEG	MIN	DEG	MIN	DAY	MO.	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND	WIND	CLOUD	WIND	BOTTOM	STA. NAME/ID
	DEG	MIN								HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	(m)	
Φ 6.3	59	25.80	N		141	37.47	W	14	MAY	11	025	6.3	24	147	2	147	182	Y8634		
SBE 9+																				
PRESS SN																				
PRI TEMP SN																				
SEC TEMP SN																				
PRI COND SN																				
SEC COND SN																				
NIS	DEPTH	Rosette Notes		Hydro Team-PMEL	Kristan	Strom	Phyto			Micro zoops	Ana A-I	Whittaker-UR		Comments	NIS					
No.	DESIRED			SALT	Nut.Btl	O2-Btl.No	DIC/ALK	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms		No.					
1	135			472		7									1					
2	150			473		7									2					
3	100			474		7									3					
4	75			475		7									4					
5	50			476		7									5					
6	25			477		7									6					
7	0			478	X	7									7					
8															8					
9															9					
10															10					
11															11					
12															12					
13															13					
14															14					
15															15					
16															16					
17															17					
18															18					
19															19					
20															20					

SST= 7.99

SSSal= 32.149

On flask 91 not written on CTD log - * trash task must be run this cast

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263
TN263PROJECT & LEG
GOA-JERP-LTL Spring 2011

STATION NO.

108
48650

CONSC CAST #	LATITUDE			LONGITUDE			TIME (GMT)			DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(kts)	*	(m)
66 45 90.8 N	141 54.39 W						11	MAY	11	09	50	41.7	24	10183	5	1230			
SBE 9+				FLUOR S/N															
PRESS SN				SBE43-Oxy (prime)															
PRI TEMP SN				SBE43-Oxy (sec)															
SEC TEMP SN				Transmissometer															
PRI COND SN				PAR S/N															
SEC COND SN				02 Tmp Sensor No.															
NIS	DEPTH	Rosette Notes			Hydro Team-PMEI			Kristan			Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UR	Comments			NIS No.
No.	DESIRED		SALT	Nut/Btl	02-Btl	No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms						
1	1211		221	479	093		X												1
2	1000			480	150														2
3	750		481	446	X														3
4	500		482	118	X														4
5	400		483																5
6	300		484		X														6
7	200		485																7
8	150		486																8
9	100		487		X														9
10	75		488																10
11	50		489		X														11
12	40																		12
13	30																		13
14	25																		14
15	20																		15
16	10																		16
17	0																		17
18																			18
19																			19
20																			20

SST = 7.385

SSSal = 30.257

32.363

750 1000 10

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263 PROJECT & LEG GOA-JERP-LTL Spring 2011								STATION NO. 109										
CONSC CAST #	LATITUDE	DEG 65	MIN 59	LONGITUDE	DEG 17.	MIN 39	DAY 14	MO JUN	YR 2011	TIME (GMT) 12:49	DRY BULB 16.9	WET BULB 16.3	PRESSURE (mb) 1016.3	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts) 1.95	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID 73640
SBE 9+				FLUOR S/N																
PRESS SN				SBE43-Oxy (prime)																
PRI TEMP SN				SBE43-Oxy (sec)																
SEC TEMP SN				Transmissometer																
PRI COND SN				PAR S/N																
SEC COND SN				02 Tmp Sensor No.																
NIS	DEPTH	Rosette Notes		Hydro Team-PMEL		Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UR	Comments	Nis	No.						
No.	DESIRED		SALT	Nut.Btl	02-BtlNo	DIC/Alk	Chloro-I	Formalin glass	Gut.-plastic	Lugols-	PE	Diatoms								
1	186		492	211		X														
2	150		493																	
3	100		494																	
4	75		495																	
5	50		496			X	46													
6	40		497				45													
7	30		498				44													
8	20		499				43													
9	10		500			X	42	30	27	77										
10	0		222501			X	41													
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

SST= 7.702

SSSal= 321.269

VESSEL R/V Thomas G. Thompson		PROJECT & LEG GOA-JERP-LTL Spring 2011										STATION NO. 110								
CONSC CAST #	LATITUDE		LONGITUDE		DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND	WIND	CLOUD (amt	BOTTOM	STA. NAME/ID			
	DEG	MIN	DEG	MIN				HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	DIRN.	SPD.	TYPE	WEATHER
	66	59	25.	86	N	14	13	30	6W	14	MAY 11	1403	5.5	1	23	145	4	145		
SBE 9+																				
PRESS SN																				
PRI TEMP SN																				
SEC TEMP SN																				
PRI COND SN																				
SEC COND SN																				
NIS	DEPTH	Rosette Notes		Hydro Team-PMEL		Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UH	Comments	NIS							
No.	DESIRRED			SALT	Nut.Btl	O2-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms	No.						
1	170			223	502															
2	150			503																
3	100			504																
4	75			505																
5	50			506				460												
6	40			507				L5												
7	30			508				L4												
8	20			509				L3												
9	10			510				L2												
10	0			511	175			L1												
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

SST = 7,689

SSSal = 32,092

VESSEL

R/V Thomas G. Thompson

PROJECT & LEG

STATION NO.

111

CRUISE ID TN263
TN263

GOA-MERR-LTL Spring 2011

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE DIRN.	WIND SPD. DIRN.	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	Y3620	MAX DEPTH = m	REMARKS
	DEG	MIN	DEG	MIN	DAY	MO	YR												
6 2 5 9 3 4 . 5 2 N			1 4 1 2 1 . 6 0 W		1 4	M A Y	1 1	1 6	1 5 . 6	1 0 2	1 0 3	2		1 2					
SBE 9+			FLUOR S/N																
PRESS SN			SBE43-Oxy (prime)																
PRI TEMP SN			SBE43-Oxy (sec)																
SEC TEMP SN			Transmissometer																
PRI COND SN			PAR S/N																
SEC COND SN			02 Tmp Sensor No.																
NIS	DEPTH	Rosette Notes	Hydro Team-PnHEL	Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-UHL		Comments		NIS					
No.	DESIRED		SALT	Nut/Btl	O2-Btl/No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms		No.					
1	112		512											1					
2	160		513											2					
3	75		514											3					
4	50		515											4					
5	40		516											5					
6	30		517											6					
7	30		547	14 m B										7					
8	20		518											8					
9	10		519											9					
10	10		519											10					
11	0		520	Subsample										11					
12				L3										12					
13				L3										13					
14				L3										14					
15				L3										15					
16				L3										16					
17				L3										17					
18				L3										18					
19				L3										19					
20				L3										20					

SST= 7.621

SSSal= 31.813

10

30

VESSEL		CRUISE ID TN263								PROJECT & LEG								STATION NO.	
R/V Thomas G. Thompson		TN263								GOA-IERP-LTL Spring 2011								112	
CONSC CAST #	LATITUDE	13.86		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		WIND DIRN. (kts)	WIND SPD. (kt)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)						
68 59	41 11.26 N	14	11	13	86	W	1	4	MAY	1	1	1753	6	.	1	2	1	1364	56
SBE 9+																			
PRESS SN																			
PRI TEMP SN																			
SEC TEMP SN																			
PRI COND SN																			
SEC COND SN																			
NIS DEPTH	Rosette Notes	Hydro Team-PMEL		Kristan	Strom	Phyto				Micro zoops	Ana A-I	Whittaker-URI	Comments	NIS No.					
No. DESIRED		SALT	Nut.Btl	02-Btl.No	DIC/ALK	Chloro-I	Formalin glass	Gut.-plastic	Lugols-	FE	Diatoms								
1 48		225	521	104	X	L6			92										
2 40		522				L5													
3 30		523				L4													
4 20		524				L3			91										
5 10		525				L2	33	30	90										
6 0		526	X			L1													
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			

SST= 6 55

SSSal= 31.628

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-JERP-LTL Spring 2011				STATION NO. 113												
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND	WIND	CLOUD (amt)	WEATHER	BOTTOM	STA. NAME/ID	
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)
0	69 59 33 . 28 N	143 55 . 14 W	15 MAY 11	0233	6.2	.	16		136	05				1362	KTA4					
SBE 9+																				
PRESS SN																				
PRI TEMP SN																				
SEC TEMP SN																				
PRI COND SN																				
SEC COND SN																				
NIS	DEPTH	Rosette Notes		Hydro Team-PMEI		Kristan		Strom		Phyto		Micro zoops		Ana A-I		Whittaker-JRI		Comments		
No.	DESIRED			SALT	Nut-Btl	02-Btl-No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms						NIS No.	
1	ROT	1244	X226	527	X224	X													1	
2	1000			528	X232	X													2	
3	750			529	X222														3	
4	500			530	X219	X													4	
5	500			531	X237														5	
6	300			532	X233	X													6	
7	200			533	X212	X													7	
8	150			534	X233	X													8	
9	100			535															9	
10	75			536															10	
11	50			537															11	
12	40																		12	
13	30																		13	
14	25																		14	
15	20																		15	
16	14																		16	
17	12																		17	
18	10																		18	
19																			19	
20																			20	
21																			21	
22																			22	
23																			23	
24																			24	

SST= 8.65

SSSal= 32.25

NO NO NO

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-IERP-LTL Spring 2011				STATION NO. 114												
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
67°59'39.9" N	144°11'.2" W	15 May 11	0535	16.1	15	1840	5												168	K1A3
SBE 9+	FLUOR S/N																			
PRESS SN	SBE43-Dwy (prime)																			
PRI TEMP SN	SBE43-Dwy (sec)																			
SEC TEMP SN	Transmissometer																			
PRI COND SN	PAR S/N																			
SEC COND SN	O2 Temp Sensor No.																			
NIS	DEPTH	Rosette Notes		Hydro Team-PMEI		Kristan		Strom		Phyto		Micro zoops		Ana A-I		Whittaker-JR		Comments		NIS
No.	DESIRED	SALT		Nut.Btl		O2-Btl No		DIC/ALK		Chloro- Formalin glass		Glut.-plastic		Lugols-		FE		Diatoms		No.
1	80	546		541		91		X												1
2	100																			2
3	75	542		543		X		46												3
4	50	544		545		X		45												4
5	40	546		547		X		43												5
6	30																			6
7	20	548		549		X		43												7
8	10							542		35		32								8
9	0	548						X		41										9
10																				10
11																				11
12																				12
13																				13
14																				14
15																				15
16																				16
17																				17
18																				18
19																				19
20																				20

SST = 7.87

SSSal = 31.94

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263
GOA-JERD-LTL Spring 2011

PROJECT & LEG

STATION NO. 115
121A2

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)				DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR										
7 1	8 9	4 3.	3 1	N	1 4	4 1	8 . 8 7	W	1 5	M A Y	1 1	0 7 / 4	5 . 9	.	1 4	1 7 / 4	1 2 4	
SBE 9+					FLUOR S/N													
PRESS SN					SBE43-Oxy (prime)													
PRI TEMP SN					SBE43-Oxy (sec)													
SEC TEMP SN					Transmissometer													
PRI COND SN					PAR S/N													
SEC COND SN					O2 Tmp Sensor No.													
NIS NO.	DEPTH DESIRED	Rosette Notes		Hydro Team-PMEL		Kristen	Strom		Phyto		Micro zoops		Ana A-I	Whittaker-URI	Comments		NIS No.	
				SALT	Nut.Btl	02-BtlNo	DIC/AIk	Chloro-	Formalin glass	Glut.-plastic	Lugols-		FE	Diatoms				
1	117	/			549		X											1
2	75	/			550	227	X											2
3	50	/			551			L6										3
4	40	/			552		X	L5										4
5	30	/			553			L4										5
6	20				554		X	L3										6
7	10				555			L2	36	33								7
8	10				Kerry													8
9	0				556		X	L1										9
10																		10
11																		11
12																		12
13																		13
14																		14
15																		15
16																		16
17																		17
18																		18
19																		19
20																		20

SST = 8.374

SSSal = 30.031

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263
TN263PROJECT & LEG
GOA-JERD-LTL Spring 2011

STATION NO.

1160
K1A1

CONSC CAST #	LATITUDE			LONGITUDE			TIME (GMT)	DRY BULB	WET BULB	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kt)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	*	*	*	*	*	*		
72 59 46.52	N	144 30.80	W	15	May	11	0848	5.6	.	14	193	4	54					K1A1	
SBE 9+																		MAX. DEPTH =	
PRESS SN																		m	
PRI TEMP SN																			
SEC TEMP SN																			
PRI COND SN																			
SEC COND SN																			
NIS No.	DEPTH	Rosette Notes			Hydro Team-PMEL			Kristan			Strom			Phyto			Comments		NIS No.
	DESIRED	SALT	Nut.Btl	O2-Btl.No	DIC/AIk			Chloro-I	Formalin glass	Gut-plastic	Lugols-			Ana A-I	Whittaker-UJ				
1	77	X																1	
2	50							557		X	L6							2	
3	40							538			L5							3	
4	30							559		X	L4							4	
5	20							510			L3							5	
6	15							561										6	
7	10																	7	
8	10																	8	
9	0																	9	
10																		10	
11																		11	
12																		12	
13																		13	
14																		14	
15																		15	
16																		16	
17																		17	
18																		18	
19																		19	
20																		20	

SST= 21,398 SSSal= 28,823

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263
TN263PROJECT & LEG
GOA-JERP-LTL Spring 2011

STATION NO.

117

CONSC CAST #	LATITUDE		LONGITUDE		DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND	WIND	CLOUD (amt)	WEATHER	BOTTOM	STA. NAME/ID	
	DEG	MIN	DEG	MIN							(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	DEPTH		
73 59 20.2	N	141 45 55.3	W	15 MAY 11	1323	5	.1	12	1562	2042	K184											
SBE 9+																						
PRESS SN																						
PRI TEMP SN																						
SEC TEMP SN																						
PRI COND SN																						
SEC COND SN																						
NIS	DEPTH	Rosette Notes		Hydro Team-PMEL		Kristan		Strom		Phyto		Micro zoops		Ana A-I		Whittaker-UJ		Comments		NIS		
No.	DESIRED			SALT	Nut/Btl	O2-Btl/No	DIC/Alk	Chloro-I	Formalin	Glass	Glut.-plastic	Luggols-	FE		Diatoms						No.	
1	2021			229		113															1	
2																					2	
3																					3	
4																					4	
5																					5	
6																					6	
7																					7	
8																					8	
9																					9	
10																					10	
11																					11	
12																					12	
13																					13	
14																					14	
15																					15	
16																					16	
17																					17	
18																					18	
19																					19	
20																					20	

SST= 8.639

SSSal= 32,088

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	MAX. DEPTH =
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(ft)	(m)
74 59 28.3	N	144 53.87	W	15 MAY 11						5.1	1.1	1012.6	4	551	1418	3	540 m
SBE 9+										FLUOR S/N							
PRESS SN										SBE43-Oxy (prime)							
PRI TEMP SN										SBE43-Oxy (sec)							
SEC TEMP SN										Transmissometer							
PRI COND SN										PAR S/N							
SEC COND SN										02 Tmp Sensor No.							
NIS No.	DEPTH	Rosette Notes	Hydro Team-PMEL	Kristan	Strom	Phyto				Micro zoops	Ana A-I	Whittaker-UR	Comments				NIS No.
1	560	✓	230	118													1
2	75		564														2
3	50	✓	565	X	L6												3
4	40	✓	566		L5												4
5	30	✓	567		L4												5
6	20																6
7	30		568	X	L3												7
8	10																8
9	10		569	X	L2												9
10	10		570		L1												10
11	0																11
12																	12
13																	13
14																	14
15																	15
16																	16
17																	17
18																	18
19																	19
20																	20

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263								PROJECT & LEG GOA-JERL-TL Spring 2011						STATION NO. 119					
CONSC CAST #	LATITUDE		LONGITUDE		DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND	WIND	CLOUD (amt)	WEATHER	BOTTOM	STA. NAME/ID			
	DEG	MIN	DEG	MIN				(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)				
SBE 9+	75	59	36	28	N	144	55	25	W	15	MAY	11	18	24	5	.8	10	155	3	148	K682
PRESS SN																					
PRI TEMP SN																					
SEC TEMP SN																					
PRI COND SN																					
SEC COND SN																					
NIS	DEPTH	Rosette Notes		Hydro Team-PMEL		Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UR	Comments	Nis	No.							
No.	DESIRED		SALT	Nut.Btl	O2-Btl, No	DIC/Alk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms									
1	160		231		241																
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20																					

SST = 8, 200

SSSal = 32, 038

CONSC CAST #	LATITUDE			LONGITUDE			TIME (GMT)			DRY BULB			WET BULB			PRESSURE		SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WIND TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	MAX. DEPTH =	m	KTB\
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)								
4765944.14N	14455.48W			15MAY11	2007		16.3	.	09			17305																	
SBE 9+				FLUOR/S/N																									
PRESS SN				SBE43-Oxy (prime)																									
PRI TEMP SN				SBE43-Oxy (sec)																									
SEC TEMP SN				Transmissometer																									
PRI COND SN				PAR/S/N																									
SEC COND SN				02 Tmp Sensor No.																									
NIS No.	DEPTH	Rosette Notes		Hydro Team-PMEL			Kristan	Strom			Phyto	Micro zoops			Ana A-I	Whittaker-JRJ		Comments		NIS No.									
	DESRED			SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE			Diatoms														
1	0.0T	/		571	X092																1								
2	100	/		572																2									
3	25	/		573																3									
4	50	/		574																4									
5	40	/		575																5									
6	30	/		576																6									
7	20	/		577																7									
8	20	/																		8									
9	10	/		578																9									
10	0	/	X	579																10									
11																				11									
12																				12									
13																				13									
14																				14									
15																				15									
16																				16									
17																				17									
18																				18									
19																				19									
20																				20									

SST-

8.4

SSSal= 30.54

NO NO NO

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263

TN263

PROJECT & LEG

GOA-JERP-LTL Spring 2011

STATION NO.

121

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN.	CLOUD (amt TYPE)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR										HR
7 7 59	43.91	N	145 25	44	W	15	MAY	1	1	23 58	6.3	.	07	233	05	L14	
SBE 9+			FLUOR S/N														MAX. DEPTH = m
PRESS SN			SBE43-Oxy (prime)														
PRI TEMP SN			SBE43-Oxy (sec)														
SEC TEMP SN			Transmissometer														
PRI COND SN			PAR S/N														
SEC COND SN			02 Tmp Sensor No														
NIS No.	DEPTH DESIRED	Rosette Notes		Hydro Team-PMEL		Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-JR		Comments		NIS No.	
				SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	PE	Diatoms				
1	<i>BOT</i>	/		X	580		X									1	
2	75	/			581		X									2	
3	75	/														3	
4	50	/			582		X		56							4	
5	45	/			583		X		53							5	
6	30	/			584		X		54							6	
7	26	/			585		X		53							7	
8	17	/														8	
9	10	/			586		X		52							9	
10	10	/			587	148	X		51							10	
11																11	
12																12	
13																13	
14																14	
15																15	
16																16	
17																17	
18																18	
19																19	
20																20	

SST=

SSSal=

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263
TN263PROJECT & LEG
GOA-IERP-LTL Spring 2011STATION NO.
122

KJ52

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)			DRY BULB (*C)	WET BULB (*C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR											
078593.4	75N	14536.53W	16MA	Y110147	6.3	1.0	6.3	16.3	15.6	1006	12	407	12	76				
SBE 9+																		
PRESS SN																		
PRI TEMP SN																		
SEC TEMP SN																		
PRI COND SN																		
SEC COND SN																		
NIS	DEPTH	Rosette Notes	Hydro Team-PMEI	Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-LIR		Comments		NIS				
No.	DESIRED		SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms		No.				
1	80T		Y	588	X	X								1				
2	100			589										2				
3	75			590		X								3				
4	50			591										4				
5	40			592		X								5				
6	30			593		X								6				
7	20			594										7				
8	10			595		X								8				
9	0			596	x175									9				
10														10				
11														11				
12														12				
13														13				
14														14				
15														15				
16														16				
17														17				
18														18				
19														19				
20														20				

SST = 8.91

SSSal = 32.157

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-ERP-LTL Spring 2011				STATION NO. 123							
CONSC CAST #	LATITUDE	DEG MIN	LONGITUDE	DEG MIN	DAY MO	YR	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE * * (deg)	WIND DIRN. * * (kts)	WIND SPD. * * CLOUD (amt) TYPE	WEATHER * * BOTTOM DEPTH	STA. NAME/ID KIC3
479	59 25.97 N	145 25.90 W	16 MAY 11	0458	6.3	.04	15509	796							
SBE 9+				FLUOR S/N											
PRESS SN				SBE43-Dry (prime)											
PRI TEMP SN				SBE43-Dry (sec)											
SEC TEMP SN				Transmissometer											
PRI COND SN				PAR S/N											
SEC COND SN				O2 Tmp Sensor No.											
NIS	DEPTH	Rosette Notes	Hydro Team-PMEL	Kristan	Strom	Phyto	Micro zoops	Ana AH	Whittaker-LIR	Comments	Nis No.				
No.	DESIRED		SALT	Nut.Btl	O2-Btl No	DIC/ALK	Chloro	Fomalin glass	Glu-t-plastic	Lugols-	FB	Diatoms			
1	BoT	232	597	215	X										1
2	700		598												2
3	500		599		X										3
4	400		600												4
5	300		601		X										5
6	200		602												6
7	150		603		X										7
8	100		604												8
9	75		605												9
10	50		606		X										10
11	40		607		X										11
12	30		608		X										12
13	20		609	X	X										13
14	10		610	X	X										14
15	0		611	X	X										15
16															16
17															17
18															18

SST= 8.58

SSSal= 32200

PROJECT & LEG												STATION NO.	
VESSEL	CRUISE ID TN263	GOA-IEPR-LTL Spring 2011	124										
R/V Thomas G. Thompson	TN263												
CONSC CAST #	LATITUDE	LONGITUDE	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*
8059	17.36	N 14526	.87	W	16	MAY 11	08	6.0	10	1465	1888	K124	
SBE 9+													
PRESS SN													
PRI TEMP SN													
SEC TEMP SN													
PRI COND SN													
SEC COND SN													
NIS	DEPTH	Rosette Notes	Hydro Team-PMEL	Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UR	Comments		NIS No.	
No.	DESIRED		SALT	Nut.Btl	02-Btl No	DIC/ALK	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE		
1	1875		233	612	234								1
2	1500			613	222	X							2
3	1000			614	219								3
4	750			615	37	X							4
5	500			616		X							5
6	400			617	233								6
7	300			618									7
8	200			619		X							8
9	150			620									9
10	100			621									10
11	75			622									11
12	50			623		X	L60						12
13	40			624			L5						13
14	30			625		X	L4						14
15	20			626			L3						15
16	10			627			L2						16
17	0			628		X	L1						17
18													18

SST = 8.4111 SSSal = 32.121

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263
TN263PROJECT & LEG
GOA-HERRP-LTL Spring 2011STATION NO.
125

CONSC CAST #	LATITUDE	LONGITUDE	TIME (GMT)				DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD. (kts)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
			DEG	MIN	DAY	MO	YR									
81 58 55.52	N	143 54.43 W	16	53	1	6	MAY 11	16.3	10.1	1017.0	6	3442	71			
SBE 9+								FLUOR S/N								
PRESS SN								SBE43-Oxy (prime)								
PRT TEMP SN								SBE43-Oxy (sec)								
SEC TEMP SN								Transmissometer								
PRI COND SN								PAR S/N								
SEC COND SN								02 Tmp Sensor No.								
NIS	DEPTH	Rosette Notes	Hydro Team-PMEI	Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UHL	Comments	NIS	No.				
No.	DESIRED		SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms				
1	100		234	629	212											1
2	75		630													2
3	50		631				L6									3
4	40		632				L5									4
5	30		633				L4									5
6	20		634				L3									6
7	20						expt									7
8	10		635				L2									8
9	10															9
10	0		636				L1									10
11																11
12																12
13																13
14																14
15																15
16																16
17																17
18																18
19																19
20																20

SST=

SSSal=

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263
TN263PROJECT & LEG
GOA-HRRP-LTL Spring 2011STATION NO.
126

CONSC CAST #	LATITUDE			LONGITUDE			TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD. (kt)	CLOUD (amb) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR										
8 25 8	5	.5	0	13	7	29	48	W	17	MAY	1	1	6731	7.1	04	30	60	4	1423EN20
SBE 9+				FLUOR S/N															
PRESS SN				SBE43-Oxy (prime)															
PRI TEMP SN				SBE43-Oxy (sec)															
SEC TEMP SN				Transmissometer															
PRI COND SN				PAR S/N															
SEC COND SN				02 Tmp Sensor No.															

REMARKS

MAX. DEPTH =

m

NIS No.	DEPTH	Rosette Notes	Hydro Team-PME	Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UPL	Comments	NIS No.
			SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-t	Formalin glass	Glut.-Plastic	Lugols-	
1	183		235	632	(092)						1
2	100		b38								2
3	75		b39		X						3
4	50		b40			L6					4
5	40		b41		X	L5					5
6	30		b42			L4					6
7	20		b43		X	L3					7
8	10		b44			L2					8
9	0	b45		X	L1						9
10											10
11											11
12											12
13											13
14											14
15											15
16											16
17											17
18											18
19											19
20											20

ST= 8/31/13

SSSal= 31,747

VESSEL

VESSEL CRUISE ID TN263

PROJECT & LEG

$$SST = \sum_{i=1}^n L_i$$

SSSal = 31,638

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-JER-P-LTL Spring 2011		STATION NO. 128					
CONSC CAST #	LATITUDE	DEG MIN	LONGITUDE	DEG MIN	DAY MO	YR HR MIN	TIME (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY				
							(°C) (°C) (mb) * * * (deg) (kts) * * * (m) WIND DIRN. SPD. CLOUD (amt) TYPE WEATHER BOTTOM DEPTH STA. NAME/ID				
8	45° 21' .57" N	137° 41' 95" W	17 MAY 11	1033	4	.6	MAX. DEPTH = m				
SBE 9+				FLUOR S/N							
PRESS SN				SBE43-Oxy (prime)							
PRI TEMP SN				SBE43-Oxy (sec)							
SEC TEMP SN				Transmissometer							
PRI COND SN				PAR SN							
SEC COND SN				02 Tmp Sensor No.							
NIS	DEPTH	Rosette Notes	Hydro Team-PMEI	Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UFR	Comments	NIS
No.	DESIRED		SALT	Nut.Btl	02-Btl No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	No.
1	126	X	832	1655	150						1
2	100	X	656								2
3	75		657								3
4	50		658		X						4
5	40		659		X		L5				5
6	30		660				L4				6
7	20		661		X		L3				7
8	10		662				L2				8
9	0		663		X		L1				9
10											10
11											11
12											12
13											13
14											14
15											15
16											16
17											17
18											18
19											19
20											20

SST= 7.048

SSSal= 31.655

VESSEL		CRUISE ID TN263		PROJECT & LEG		106695		STATION NO.												
R/V Thomas G. Thompson		TN263		GOA-HERR-LTL Spring 2011				129												
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND	CLOUD (amt)	WEATHER	BOTTOM	STA. NAME/ID					
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	
85 58	15.31	136 55	.94	W	17	May	11	11	29	6.8		5	1	362		142				
SBE 9+			FLUOR S/N																	
PRESS SN			SBE43-Oxy (prime)																	
PRI TEMP SN			SBE43-Oxy (sec)																	
SEC TEMP SN			Transmissometer																	
PRI COND SN			PAR SN																	
SEC COND SN			O2 Tmp Sensor No.																	
NIS	Rosette Notes		Hydro Team-PMEL		Kristan		Strom	Phyto	Micro zoops	Ana A-I	Whittaker-UFR	Comments								
No.	DEPTH		SALT		Nut.Btl		O2-Btl No	DIC/Alk	Chloro-l	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms						
1	131		664		X															
2	100		665		X															
3	75		666		X		L6													
4	50		667		X		L5													
5	40		668		X		L4													
6	30.		669		X		L3													
7	20		670		X		L2													
8	10		671		X		L1													
9	0		(238)		X															
10	0		KLR4		J															
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				

SST =

60.781

SSSal =

31.403

2 hr 7 min 1 sec

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263

PROJECT & LEG
GOA-JERR-LTL Spring 2011STATION NO.
131

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)				DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WIND TYPE	BOTTOM DEPTH	STA. NAME/ID	STATION NO.
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	
8 16	57	57	.16	N	136	38	.37	W	17 MAY 11	15	12	7.0	6	220	1		75	SEKO	
SBE 9+					FLUOR S/N														
PRESS SN					SBE43-Oxy (prime)														
PRI TEMP SN					SBE43-Oxy (sec)														
SEC TEMP SN					Transmissometer														
PRI COND SN					PAR S/N														
SEC COND SN					02 Tmp Sensor No.														
NIS	DEPTH	Rosette Notes		Hydro Team-PMEI		Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-UFL		Comments		NIS	STATION NO.		
No.	DESIRED			SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms			No.			
1	1e5			239	673	(13)	X	L6								1			
2	50			674												2			
3	40			675		X	L5									3			
4	30			676			L4									4			
5	20			677		X	L3									5			
6	10			678			L2									6			
7	0			679		X	L1									7			
8	0															8			
9																9			
10																10			
11																11			
12																12			
13																13			
14																14			
15																15			
16																16			
17																17			
18																18			
19																19			
20																20			

SST= 7.423

SSSal= 31.709

PROJECT & LEG												STATION NO.							
VESSEL R/V Thomas G. Thompson			CRUISE ID TN263			GOA-MERR-LTTL Spring 2011					132								
CONSC CAST #	DEG MIN	LATITUDE	DEG MIN	LONGITUDE	DAY	MO	YR	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND	WIND	CLOUD (am)	WEATHER	BOTTOM	STA. NAME/ID	
								HR	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	
875754.89	N	3647.14W	17MAY11	165117.3	16	51	17	16	6.6	9.7	10152	SEK5							
SBE 9+			FLUOR S/N																
PRESS SN			SBE43-Oxy (prime)																
PRI TEMP SN			SBE43-Oxy (sec)																
SEC TEMP SN			Transmissometer																
PRI COND SN			PAR S/N																
SEC COND SN			02 Temp Sensor No.																
NIS	DEPTH	Rosette Notes	Hydro Team-PMEI	Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-LR		Comments		NIS					
No.	DESIRED		SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms		No.					
1	144		240	680	118	X								1					
2	100		681											2					
3	75		682											3					
4	50		683			X	6							4					
5	40		684			X	5							5					
6	30		685			X	4							6					
7	20		686			X	3							7					
8	20		686			X	2							8					
9	10		687			X	1							9					
10	10		687			X	1							10					
11	0		688	WMA		X	1							11					
12														12					
13														13					
14														14					
15														15					
16														16					
17														17					
18														18					
19														19					
20														20					

SST = 8.084

SSSal = 31.697

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263 TN263								PROJECT & LEG GOA-JERR-LTL Spring 2011				STATION NO. 133						
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND	WIND	CLOUD (amt	BOTTOM	STA. NAME/D
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(C)	(C)	(mb)	*	*	(deg)	(kts)	*	*	(m)
	88 57 52.39 N	136 54.72 W	17 MA Y 1 1	18 28	7.3	.	07	287	5		454	55K10								
SBE 9+				FLUOR S/N																
PRESS SN				SBE43-Oxy (prime)																
PRI TEMP SN				SBE43-Oxy (sec)																
SEC TEMP SN				Transmissometer																
PRI COND SN				PAR SN																
SEC COND SN				02 Tmp Sensor No.																
NIS	DEPTH	Rosette Notes		Hydro Team-PMEI		Kristan		Strom		Phyto		Micro zoops		Ana A-I		Whittaker-UR		Comments		NIS
No.	DESIRED			SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin	glass	Glut.-plastic	Lugols-	FE	Diatoms					No.	
1	414	2	448																1	
2	400	/																	2	
3	300	/																	3	
4	200	/																	4	
5	150	/																	5	
6	100	/																	6	
7	75	/																	7	
8	50	/																	8	
9	40	/																	9	
10	30	/																	10	
11	20	/																	11	
12	10	/																	12	
13	0																		13	
14																			14	
15																			15	
16																			16	
17																			17	
18																			18	
19																			19	
20																			20	

SST = 7.856

SSSal = 31.759

Vessel R/V Thomas G. Thompson		Cruise ID TN263		Project & Leg GOA-JERL-LTL Spring 2011				Station No. 134							
Consc Cast #	Latitude	deg min	Longitude	deg min	Day Mo	Yr Hr	Time (GMT) Dry Bulb	Wet Bulb (°C)	Pressure (mb)	Sea State Visibility	Wind Dirn.	Wind Spd. (kts)	CLOUD (amt) Type	Bottom Depth (m)	Sta. Name/ID
#29	57 47.4 N	137 11.37 W	17 MAY 11 2109	7.5	08	29408	337	55K20							
SBE 9+			FLUOR S/N												
PRESS SN			SBE43-Oxy (prime)												
PRI TEMP SN			SBE43-Oxy (sec)												
SEC TEMP SN			Transmissometer												
PRI COND SN			PAR S/N												
SEC COND SN			02 Tmp Sensor No.												
NIS No.	DEPTH Desired	Rosette Notes		Hydro Team-PNEL	Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-URI	Comments	NIS No.			
		SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin Glass	Glut.-plastic	Lugols-	FE	Diatoms				
1	200	1		702											1
2	150	1		703											2
3	100	1		704	X										3
4	75	1		241	705	X/108									4
5	50	1		706											5
6	40	1		707											6
7	30	1		708	X										7
8	20	1		709											8
9	10	1		710	X										9
10	10	1		711											10
11	5	1													11
12	0														12
13															13
14															14
15															15
16															16
17															17
18															18
19															19
20															20

SST=

SSSal=

PROJECT & LEG												STATION NO.			
CRUISE ID TN263												135			
GOA-HERRL-TTL Spring 2011															
CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	* (mb)	* (deg)	* (kts)	* (m)
47°57'11.93 N	136°35.78 W	12 MAY 11	6	13	6	7	1	10	282	11					
SBE 9+			FLUORE S/N												
PRESS SN			SBE43-Oxy (prime)												
PRI TEMP SN			SBE43-Oxy (sec)												
SEC TEMP SN			Transmissometer												
PRI COND SN			PAR SN												
SEC COND SN			02 Tmp Sensor No.												
NIS	DEPTH	Rosette Notes	Hydro Team-PMEI	Kristan	Strom	Phyto	Micro zoops	Dana A-I	Whittaker-UPL	Comments					
No.	DESIRED		SALT	Nut.Btl	02-Btl No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms			
1															1
2															2
3															3
4															4
5															5
6															6
7															7
8															8
9															9
10															10
11															11
12															12
13															13
14															14
15															15
16															16
17															17
18															18
19															19
20															20

SST=

SSSal=

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-HERRL-TTL Spring 2011		STATION NO. 135														
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	PRESSURE SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
49	15°21'11.76"N	136	35.87	18	MA	Y	1	1	03	15	27.8	27.8	1011	285	11	162	MAX. DEPTH =	162	SEG 2D	
SBE 9+				FLUOR S/N																
PRESS SN				SBE43-Oxy (prime)																
PRI TEMP SN				SBE43-Oxy (sec)																
SEC TEMP SN				Transmissometer																
PRI COND SN				PAR SN																
SEC COND SN				02 Tmp Sensor No.																
NIS	DEPTH	Rosette Notes		Hydro Team-PMEL		Kristan	Strom		Phyto		Micro zoops		Ara A-I	Whittaker-JR		Comments		NIS	STATION NO.	
No.	DESRED			SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms					No.	135	
1	Bot					712	X15											1		
2	200					713												2		
3	150					714												3		
4	100					715												4		
5	75					716												5		
6	50					717												6		
7	40					718												7		
8	30					719												8		
9	20					720												9		
10	10					721												10		
11	0					722												11		
12																		12		
13																		13		
14																		14		
15																		15		
16																		16		
17																		17		
18																		18		
19																		19		
20																		20		

SST-

8.56

SSSal- 31.996

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263
TN263PROJECT & LEG
GOA-HERR-LTL Spring 2011

STATION NO. 135

56524

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)			DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND	WIND	CLOUD (amt)	WEATHER	BOTTOM	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(kts)	*	*	(m)
Φ 9 25 7	11.6	3 N	136 35.9	4 W	17	MAY	11	43	58	7.1	11	303	15	17	17			
SBE 9+			FLUOR S/N															
PRESS SN			SBE43-Oxy (prime)															
PRI TEMP SN			SBE43-Oxy (sec)															
SEC TEMP SN			Transmissometer															
PRI COND SN			PAR SN															
SEC COND SN			02 Tmp Sensor No.															
NIS	DEPTH	Rosette Notes		Hydro Team-PMEI	Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-LJF		Comments					
No.	DESIRED			SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms					
1																		1
2																		2
3																		3
4																		4
5																		5
6																		6
7																		7
8																		8
9																		9
10																		10
11																		11
12																		12
13																		13
14																		14
15																		15
16																		16
17																		17
18																		18
19																		19
20																		20

SST=

SSSal=

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263

PROJECT & LEG
GOA-MERRP-LTL Spring 2011STATION NO.
136

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR											
9	35	7	16	.92	N	136	19	84	W	18	MAY	1	1	0628	6.6	12	307	08
SBE 9+																		
PRESS SN																		
PRI TEMP SN																		
SEC TEMP SN																		
PRI COND SN																		
SEC COND SN																		
NIS	DEPTH	Rosette Notes		Hydro Team-PMEI		Kristan	Strom	Phyto		Micro zoops	Ana A-I	Whittaker-UFR		Comments		NIS		
No.	DESIRED			SALT	Nut.Btl	02-Btl.No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms			No.		
1	800	/		242	723											1		
2	150	/		724												2		
3	100	/		725		X										3		
4	75	/		726												4		
5	50	/		727		X		L6								5		
6	40	/		728				L5								6		
7	30	/		729		X		L4								7		
8	20	/		730				L3								8		
9	10	/		731		X		L2								9		
10	5	/		732	x224			L1								10		
11																11		
12																12		
13																13		
14																14		
15																15		
16																16		
17																17		
18																18		
19																19		
20																20		

REMARKS

Cont'd 200

SBE43-Oxy (prime)
SBE43-Oxy (sec)
Transmissometer
PAR S/N
O2 Tmp Sensor No.MAX. DEPTH =
m

SST = 847

SSSal = 32,005

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263
TN263PROJECT & LEG
GOA-IERRP-LTL Spring 2011STATION NO.
137CONSC
CAST #

LATITUDE

LONGITUDE

TIME (GMT)

DRY BULB

WET BULB

PRESSURE

SEA STATE

VISIBILITY

WIND DIRN

WIND SPD.

CLOUD (amt)

WEATHER

BOTTOM DEPTH

STA. NAME/ID

S=65

DEG

MIN

DEG

MIN

DAY

MO

YR

HR

MIN

(°C)

(°C)

(mb)

* * *

(deg)

(ft)

* * *

(m)

MAX. DEPTH =

m

SBE 9+

PRESS SN

PRI TEMP SN

SEC TEMP SN

PRI COND SN

SEC COND SN

FLUOR S/N

SBE43-Oxy (prime)

SBE43-Oxy (sec)

Transmissometer

PAR SN

02 Trip Sensor No.

NIS	DEPTH	Rosette Notes	Hydro Team-PMEI	Kristan	Strom	Phyto	Micro zoops	Ana A-I	Whittaker-JR	Comments	NIS
No.	DESIRED		SALT	Nut.Btl	02-Btl/No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	No.
1	173	✓	243	733	222						1
2	150	✓	734								2
3	100	✓	735								3
4	75	✓	736								4
5	50	✓	737								5
6	40	✓	738								6
7	30		739								7
8	20		740								8
9	10		741								9
10	0		742								10
11											11
12											12
13											13
14											14
15											15
16											16
17											17
18											18
19											19
20											20

SST = 8.679

SSSal = 31.584

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263

PROJECT & LEG

GOA-HERR-LTL Spring 2011

1:50

STATION NO.

138

CONSC CAST #	LATITUDE			LONGITUDE			TIME (GMT)			DRY BULB		WET BULB		PRESSURE		SEA STATE		WIND		CLOUD (amt		WEATHER		BOTTOM		STA. NAME/ID	
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)						
95 57 21.94 N	136 46 31 W			18 MAY 11	0822		6.9	.	11			35506															
SBE 9+				FLUOR S/N																							
PRESS SN				SBE43-Oxy (prime)																							
PRI TEMP SN				SBE43-Oxy (sec)																							
SEC TEMP SN				Transmissometer																							
PRI COND SN				PAR S/N																							
SEC COND SN				O2 Tmp Sensor No.																							
NIS	DEPTH	Rosette Notes			Hydro Team-PNEL			Kristan			Strom		Phyto		Micro zoops		Ana A-I		Whittaker-UR		Comments		Nis		No.		
No.	DESIRED										SALT	Nut-Btl	O2-Btl-No	DIC/AIk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-	FE	Diatoms							
1																											1
2																											2
3																											3
4																											4
5																											5
6																											6
7																											7
8																											8
9																											9
10																											10
11																											11
12																											12
13																											13
14																											14
15																											15
16																											16
17																											17
18																											18
19																											19
20																											20

SST = 7.769

SSSal = 31.532

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-HRP-LTL Spring 2011				STATION NO. 138								
CONSC CAST #	LATITUDE	LONGITUDE		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE (deg)	WIND DIRN.	WIND SPD. (kts)	CLOUD TYPE (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN		*	*	*	*	*		
96	57	21	94	N	136	46	3	W	18	MAY	11	0904	71	11	0054	106
SBE 9+					FLUOR S/N											
PRESS SN					SBE43-Oxy (prime)											
PRI TEMP SN					SBE43-Oxy (sec)											
SEC TEMP SN					Transmissometer											
PRI COND SN					PAR S/N											
SEC COND SN					02 Tmp Sensor No.											
NIS	DEPTH	ROSETTE NOTES	HYDRO TEAM-PWEL	KRISTAN	STROM	PHOTO	Micro zoogs	Ara-AH	Whittaker-JR	Comments						
NO.	DESIRED		SALT	NUT-BTL	O2-BTL-N0	DIC/AIR	Chloro	Formalin	Glass	Glut.-plastic	Lugols-	FE				
1	92				743											
2	75				744											
3	50				745											
4	40				746											
5	30				747		X									
6	20				748		X									
7	10				749		X									
8	0				249											
9	0				750											
10																
11																
12																
13																
14																
15																
16																
17																
18																

SST=

SSSal=

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-ERPL-TL Spring 2011				STATION NO. 139									
CONSC CAST #	LATITUDE	DEG MIN	LONGITUDE	DEG MIN	DAY MO	YR	TIME (GMT)	DRY BULB °C	WET BULB °C	PRESSURE (mb)	SEA STATE +*	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
97 57 23.28	N	136 00.65	W	18 MAY 11	0941	6.9					*	*	*	*		57	SE60a
SBE 9+			FLUOR S/N														
PRESS SN			SBE43-Oxy (prime)														
PRI TEMP SN			SBE43-Oxy (sec)														
SEC TEMP SN			Transmissometer														
PRI COND SN			PAR SN														
SEC COND SN			O2 Tmp. Sensor No.														
REMARKS																	
NIS No.	DEPTH	ROSETTE NOTES	HYDRO TEAM-PME	KRISTAN	STROM	PHOTO	HYDRO	CHLOROPHYLL	FORMALIN GLASS	GUT-PLASTIC	MICRO ZOOPL	ANEMOMETER	WHITTAKER-JR	Comments	NIS No.		
1	45																
2	30															1	
3	20															2	
4	10															3	
5	0															4	
6																5	
7																6	
8																7	
9																8	
10																9	
11																10	
12																11	
13																12	
14																13	
15																14	
16																15	
17																16	
18																17	
																18	

SST = 7,266 SSSal = 31.496

VESSEL R/V Thomas G. Thompson		CRUISE ID TN263		PROJECT & LEG GOA-ERP-LTL Spring 2011				STATION NO.		140									
CONSC CAST #	LATITUDE		LONGITUDE				TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WIND TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	
98 56 52 . 80 N	13 54 57 . 71 W	18 MAY 11	155 1	7.2	.	10	354	7		131								3605	
SBE 9+			FLUOR S/N																
PRESS SN			SBE43-Dwy (prime)																
PRI TEMP SN			SBE43-Dwy (sec)																
SEC TEMP SN			Transmissometer																
PRI COND SN			PAR S/N																
SEC COND SN			O2 Temp Sensor No.																
NIS	DEPTH	Rosette Notes		Hydro Team-PMEL	Kristap	Strom	Phyto	Microzoopl	Ana AAI	Whittaker-UR	Comments	NIS	No.						
No.	DESIRED	SALT	Nut Brt	O2-Brt No	DIA/TAK	Re-Glboro	Formalin glass	Glut.-plastic	Lugols-	TE	Diatoms	No.							
1	5	246	756	223								1							
2	75		757									2							
3	50		757									3							
4	40		758									4							
5	30		760									5							
6	30											6							
7	20		761									7							
8	10		762									8							
9	10		763									9							
10												10							
11												11							
12												12							
13												13							
14												14							
15												15							
16												16							
17												17							
18												18							

SST= 7.431

SSSal= 31.685

141