

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: TEST

CONSC CAST # 201  
 LATITUDE 48° 06' . 68 N  
 LONGITUDE 122° 37' . 06 W  
 DAY 01  
 MO MAY  
 YR 11  
 TIME (GMT) 1639  
 DRY BULB 9.7  
 WET BULB .  
 PRESSURE 29  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. 307  
 WIND SPD. 5  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH 54  
 STA. NAME/ID

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 S/N \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan Shake	Strom/Fredrickson		Whittaker-UR	Comments	Nis No.
			SALT	Nut Btl	O2-Btl,NO		DIC/Alk	Frac Chloro			
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

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 1

CONSC CAST #	LATITUDE		LONGITUDE		DAY	MO	YR	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				HR	MIN													
001	56	10.65	N	134	19.28	W	3	M	A	Y	1	1	19	5.2	.	20	20	18	6	19	140	51A1

REMARKS:  
 First off the East Coast  
 East side Chatham Strait  
 Chlorophyll 1 -> 6 1.5 surface  
 MAX. DEPTH = 133 m

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kistan	Strom		Phyto		Micro zoops Lugols-	Ana A-1 FE	Whittaker-UR1 Diatoms	Comments	NIS No.
			SALT	Nut:Btl	O2-Btl:No		DIC/AIK	Chloro-I	Formalin glass	Glut-plastic					
1	6		N2	1	233	X									1
2	100			2											2
3	75			4											3
4	50			4		X									4
5	40			5		X									5
6	30	246		5		X									6
7	25	30		5		X									7
8	20	285				X									8
9	10	20				X									9
10	10	10				X									10
11	10	10				X									11
12	10	10				X									12
13						X									13
14															14
15															15
16															16
17															17
18															18

SST = 17.2/233  
 SSSal = 35.17  
 DNA 0010 20 30 35 40 50  
 75 100 150 200  
 Chlorophyll 1 -> 6 1.5 surface  
 few larvae from 20m chl

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO.: 22

CONSC CAST # 0025610.87N  
 LATITUDE MIN 087  
 DEGREE MIN 10.87  
 LONGITUDE DEGREE MIN 179.79  
 DAY MONTH YEAR 03 MAY 11  
 TIME (GMT) HR MIN 2156  
 DRY BULB (°C) 5.1  
 WET BULB (°C) .  
 PRESSURE (mb) 18  
 SEA STATE \* \*  
 VISIBILITY \* \*  
 WIND DIRN (deg) 131  
 WIND SPD (kts) 27  
 CLOUD (amt) \* \*  
 WEATHER \* \*  
 BOTTOM DEPTH (m) 869  
 STA. NAME/ID 552  
 MAX DEPTH = m

REMARKS: *raining*  
*Drift Drifted 50798 16:01:00T 03AUG11*

SBE 9+ \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE43-Oxy (prime) \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_  
 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-URR			Comments	NIS No.
			SALT	Nut. Btl	O2-Btl.No	DIC/Alk	Chloro-I	Formalin	glass	Gluc.	-plastic	Lugols-	FE	Diatoms											
1	180		X 269			X 106																		1	
2	300					X																		2	
3	200					X																		3	
4	100					X																		4	
5	50					X																		5	
6	0																							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 No 31.86

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-L1 Spring 2011  
 STATION NO. 3

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
DEG	MIN	DEG	MIN	DEG	MIN				HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	
0	35	6	10	134	27	04	MAY	11	17	04	6.7		17			167	27			6/5	C53
REMARKS: SBE 9+ FLUOR S/N _____ SBE43-Oxy (prime) _____ SBE43-Oxy (sec) _____ Transmissometer _____ PAR S/N _____ O2 Trmp Seson No. _____ MAX DEPTH = _____ m																					

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom		Phyto		Micro zoops		Ana A-1	Whitaker-URI	Diatoms	Comments
			SALT	Nut:Bi	O2-B/LNO		DIC/Alk	Chloro-l	Formalin glass	Glut-plastic	Lugols-					
1	BOT			17												
2	500			18		X										
3	400			19		X										
4	300			10		X										
5	200			14												
6	150			12		X										
7	100			13												
8	75			14		X										
9	50			15												
10	40			15		X										
11	30			14												
12	20			16		X										
13	10			17		X										
14	0			17		X										
15																
16																
17																
18																

SST = \_\_\_\_\_ SSSal = \_\_\_\_\_  
 NLS 0, 25, 50, 75, 100, 150, 200, 250, 300, 400

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 4

CONSC CAST #	LATITUDE		LONGITUDE		DAY	MO	YR	HR	MIN	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	
004	56	11.19	N	134	32	05	W	04	MAY	11	03	17	6.5		15		152	30			558	154
SBE 9+ PRESS SN PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN O2 Temp Sensor No. FLUOR S/N SBE43-Oxy (prime) SBE43-Oxy (sec) Transmissometer PAR S/N REMARKS: 22 4.11 MAX DEPTH = m																						

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Formalin glass	Gluc.-plastic	Micro zoops Lugols-	Ana A-1 FE	Whittaker-UKR Diatoms	Comments	NIS No.
			SALT	Nur. Bl	O2-Btl No										
1	200	✓													1
2	400	✓												2	
3	200	✓				X								3	
4	100	✓				X								4	
5	50	✓				X								5	
6	05	✓				X								6	
7	00					X								7	
8														8	
9														9	
10														10	
11														11	
12														12	
13														13	
14														14	
15														15	
16														16	
17														17	
18														18	

SST = 4.5      SSSal = 31.89      X

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO. 3

CONSC CAST # 12.567  
 DEG MIN LATITUDE  
 DEG MIN LONGITUDE  
 DAY MO YR TIME (GMT)  
 05 04 11 0522  
 DRY BULB (°C) 26.5  
 WET BULB (°C) .  
 PRESSURE (mb) 1.4  
 SEA STATE \* \* \*  
 VISIBILITY \* \* \*  
 WIND DIRN. (deg) 161  
 WIND SPD. (kts) 23  
 CLOUD (amt) \* \* \*  
 WEATHER \* \* \*  
 BOTTOM DEPTH (m) 525  
 STA. NAME/ID C55

REMARKS  
 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 Temp Sensor No.

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom		Phyto		Micro zoops		Ana A-1	Whittaker-JR	Diatoms	Comments	Nis No.
			SALT	Nut B'd	O2-B'd		No DIC/AIK	Chloro-l	Formalin glass	Gluc.-plastic	Lugols-	FE					
1	100	15	26.6	X		L3										1	
2	100	19		X		L2										2	
3	300	20		X		L3										3	
4	200	21		X		L2										4	
5	150	22		X		L3										5	
6	100	23		X		L4										6	
7	75	24		X		L5										7	
8	50	25		X		L6										8	
9	40			X		L4										9	
10	30	26		X		L3										10	
11	20			X		L2										11	
12	10			X		L1										12	
13	0		27	X												13	
14	0			X												14	
15																15	
16																16	
17																17	
18																18	

SST= SSSal=

VESEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-HERP-LTL Spring 2011  
 STATION NO.: *mm 6*

CONSC CAST # 65628  
 LATITUDE 135 11.45 N  
 DEGREE MIN  
 DEGREE MIN  
 LONGITUDE 135 11.45 W  
 DEGREE MIN  
 DAY 4  
 MONTH MAY  
 YEAR 11  
 TIME (GMT) 1300  
 HR MIN  
 DRY BULB 6.5  
 WET BULB  
 PRESSURE 11  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. 144  
 WIND SPD. 27  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH 135  
 STA. NAME/ID 5640  
 MAX DEPTH = 125 m

SBE 9+  
 PRESS SN  
 PRI TEMP SN  
 SEC TEMP SN  
 PRI COND SN  
 SEC COND SN  
 O2 Temp Sensor No.

FLUOR S/N  
 SBE43-Oxy (prime)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N

REMARKS

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom	Phyto		Micro zoops		Ana A-1	Whittaker-LR	Comments	NIS No.
			SALT	Nut.Btl	O2-Btl (NO)		DIC/ALK	Formalin glass	Glut.-plastic	Lugols-				
1	6		270	28		X								1
2	100			29										2
3	75			30		X								3
4	50			31										4
5	40			32		X								5
6	30			33										6
7	20			34		X								7
8	10			35										8
9	0			36		X								9
10	0													10
11														11
12														12
13														13
14														14
15														15
16														16
17														17
18														18

SST = 6.8 7.7      SSSal = 31.8 31

SQUAT 02 NUTS chloa  
 phyto + 200's DIC DNA

0 10 20 30 40 50 75 100

150 200 300 400

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 7

*Wilmhauer Re-Used*

CONSC CAST # 7  
 LATITUDE: 31 DEG 00 MIN 00 SEC N  
 LONGITUDE: 00 DEG 00 MIN 00 SEC W  
 DAY: 11 MO: 11 YR: 11  
 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: KEAS  
 MAX DEPTH = \_\_\_\_\_ m

REMARKS:  
Sea (Fe) cast  
No samples  
Aborted 57m cruise resumed aft of  
Ship in 6000 m's depth

*No Cast, Cast # Re-Used*

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom		Phyto		Micro zoops	Ana A-1	Whittaker-JRI	Comments	NIS No.
			SALT	Nut.Btl	O2-Btl No		DIC/Alk	Chloro-l	Formalin glass	Glut.-plastic					
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 = \_\_\_\_\_

*K*



VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 1376

CONSC CAST # 75629.000 N 13512.54 W  
 DEPT 5 MAY 11 1052  
 TIME (GMT) 1052  
 DRY BULB 6.  
 WET BULB .  
 PRESSURE 07  
 SEA STATE \* \*  
 VISIBILITY \* \*  
 WIND DIRN. 50 (deg)  
 WIND SPD. 9 (kts)  
 CLOUD (amt) \* \*  
 WEATHER \* \*  
 BOTTOM DEPTH 147 (m)  
 STA. NAME/ID SEAD  
 MAX DEPTH = 135 m

FLUOR S/N  
 SBE 9+  
 PRESS SN  
 PRI TEMP SN  
 SEC TEMP SN  
 PRI COND SN  
 SEC COND SN  
 O2 Temp Sensor No.

Hydro Team: PMEL Kristan  
 Strom Phyto  
 Charo-1 Formalin glass  
 Gluc- plastic  
 Lugols-  
 Ana A-1  
 FE  
 Whittaker-UR  
 Diatoms

REMARKS: 1<sup>st</sup> and 2<sup>nd</sup> visits to SEAD to get complete SEA sensor. No samples except Kereey's Diatoms

No.	DEPT	DESIRED	Rosette Notes	SALT	Nut. Btl	O2-Btl. No	DIC/ALK	Strom	Phyto	Micro zoops	Ana A-1	FE	Whittaker-UR	Diatoms	Comments	No.
1	0			37.1	5774											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 = 6.873  
 SSSal = 31.875

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 14-7

CONSC CAST #	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. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
85625	25	73	N	13519	35	5	M	A	11	1	1225	6.2	.	07	*	*	68	19	*	*	*	145	SEA5

REMARKS: Fe Cast No 5 samples above 40m  
 MAX DEPTH = 93 m

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom		Phyto		Micro zoops	Ana A-I	Whitaker-UR	Comments	NIS No.
			Nut Bot	O2-Btl/No	DIC/Alk	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	

SST = 6.831      SSSal = 31.862

10m wind out 16 puffs / 55m wind out = 61 puffs  
 35m wind out 40 puffs / 65m wind out → 70 puffs  
 down to 100m → 92 puffs

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 14-572

CONSC	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
95625	72 N	13520.00 W	5 MAY 11 1341	60	.	07	*	*	70	9	*	*	*	142	SEAS
SBE 9+ _____ FLUOR S/N _____ PRESS SN _____ SBE43-Oxy (urine) _____ PRI TEMP SN _____ SBE43-Oxy (sec) _____ SEC TEMP SN _____ Transmissometer _____ PRI COND SN _____ PAR S/N _____ SEC COND SN _____ O2 Temp Sensor No. _____															
REMARKS Cast after Fe Cast															
MAX DEPTH = 131 m															

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom	Phyto	Formalin glass	Glut.-plastic	Lugols-	Ana A-1	Whittaker-LRI	Diatoms	Comments	NIS No.
			SALT	Nut.Btl	O2-Btl.No										
1	130			37	(150)										1
2	100			38											2
3	75			39			X								3
4	50			40			X								4
5	40			41			X								5
6	30			42											6
7	20			43											7
8	10			44											8
9	0			45			X								9
10															10
11															11
12															12
13															13
14															14
15															15
16															16
17															17
18															18

SST = 6.237  
 SSSal = 31.851  
 2 Nucle Chloro Phyto Exps  
 0 10 20 30 40 50 75 100 150 200 300

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 15

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)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
105623	69N	13527	31W	5	MAY	11	15.6	6.6	07	1	126	3			175	SEA10	
REMARKS: 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 Trmp Seson No. _____																	

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kirstan	Strom	Phyto	Formalin glass	Glut-plastic	Micro zoops	Ana A-1	FE	Whittaker-URI	Diatoms	Comments	NIS No.
			SALT	Nut Btl	O2-Btl/NO												
1	168			476		X											1
2	150			477													2
3	100			478		X											3
4	75			479													4
5	50			50													5
6	40			41		X											6
7	30			52													7
8	20			53													8
9	10			54		X											9
10	0			55													10
11																	11
12																	12
13																	13
14																	14
15																	15
16																	16
17																	17
18																	18

SST = 6.822      SSSal = 31.849      O 10 20 30 40 50 75 100 150  
 Pylro Zoops DIC      200 300 400

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IEP-LT Spring 2011  
 STATION NO.: 16

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	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
115618.56N							15	MAY	11				6.3		07			113	14			1015	SEA20

SE 9+  
 PRESS SN  
 PNI TEMP SN  
 SEC TEMP SN  
 PNI COND SN  
 SEC COND SN

FLUOR S/N  
 SBE43-Oxy (prime)  
 SBE43-Oxy (sec)  
 Transducer  
 PAR S/N  
 O2 Temp Sensor No.

REMARKS  
 Combined Fe & Regular cast  
 W.D. 300 P = 52-54  
 W.D. 300 P = 307-348; W.O. 500, P = 507-509  
 W.O. 700, P = 712-714; W.O. 750, P = 763-765  
 W.O. 780, P = 792-793; W.O. 804, P = 815-817 (85 min)

MAX. DEPTH =

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom	Phyto	Micro zoops		Ana A-I	Whitaker-URI	Comments
			SALT	Nut.Btl	O2-Btl.No			DIC/AIK	Formalin glass			
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												

DON'T USE

Phyto  
 Lugol sheet

24 bottles  
 Avoid if possible

SST =  
 SSSal =  
 02 N US Chloro Phyto 2005 KERRY W DIC EX HG 10076 PRE 5000  
 00 10 10 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-IERP-LTL Spring 2011  
 STATION NO.: 16

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
115618	18	55	N	16	16	W	05	M	AY	11	18	46	6.3	07		11	3	14		1611	SEA24

REMARKS: Combined Fe + Regular Cost  
 W.O. 500, p = 52-54, W.O. 300, p = 307, 308  
 W.O. 500, p = 507, 509, W.O. 300, p = 306, p = 312-314  
 W.O. 750, p = 363-365, W.O. 780, p = 792-794  
 W.O. 804, p = 815-817 (45 min wait time 19:40)

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kriстан	Strom		Phyto		Ana A-1	Whitaker-UR	Comments
			SALT	Nut. Btl	O2-Btl. No		DIC/Alk	Chloro-l	Formalin glass	Glut.-plastic			
1	1000		273	55	X 030	X							
2	750		57	X 244	X								
3		RUSSIA											
4	560		274	58	X 232	X							
5	400		59	X 241	X								
6	300		60		X								
7	200		61		X								
8	150		62		X								
9	100		63		X								
10	75		64		X								
11		DO NOT USE											
12	50		65		X								
13	40		66	X 118	X								
14	30		67	X	X 113	X							
15	20		68	X	X 114	X							
16	20				X 115	X							
17	10		69	X	X 116	X							
18	10				X 117	X							
19	0		70	X	X 118	X							
20	0		70	X	X 119	X							
21													
22													
23													
24													

SST =  
 SSSal =  
 O<sub>2</sub>, NDS, Chlor, phae, zoops, Karyo W DIC Extra bottles for Suzanne  
 0, 10, 10, 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-IERP-LTL Spring 2011  
 STATION NO. **X7 21**

CONSC CAST # 564546  
 DEG 56 MIN 45 LATITUDE 136 08.97  
 DEG 136 MIN 08.97 LONGITUDE 06 M A Y 11  
 TIME (GMT) 0830  
 DRY BULB 5.5  
 WET BULB .  
 PRESSURE 05  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. 164  
 WIND SPD. 23  
 CLOUD (amt) \*  
 WEATHER \*  
 BOTTOM DEPTH 1515  
 STA. NAME/ID SED20

SBE 9+ FLUOR S/N  
 SBE43-Oxy (prime)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp Sensor No.

REMARKS: *Extra bottle 225 1 max*

MAX DEPTH = m

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL		Kristan	Strom		Phyto		Ana A-I	Whitaker-LR	Comments	NIS No.
			SALT	Nut Btl		O2-Btl/No	DIC/Alk	Chloro-I	Formalin glass				
1	1500	1500		X									1
2	1000	1000	275	72	219	X							2
3	750	750		73		X							3
4	500	750		74		X							4
5	400	500		75									5
6	300	400		76		X							6
7	225	300		77									7
8	200	205		78									8
9	150	200		79		X							9
10	100	150		80		X							10
11	100	X	X	X	X	X	X	X					11
12	100	X	X	81		X							12
13	75			82									13
14	50			83		X							14
15	40			84		X							15
16	30			85		X							16
17	20			86		X							17
18	10			87		X							18
19	0			88									19
20													20
21													21
22													22
23													23
24													24

SST = 6.987  
 SSS = 31.870  
 1-16 Nuts and DNA  
 00 1000 30 40 50 75 100 150 200 300 400 500  
 750 1000 1500

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 22

CONSC CAST # 135650.03 N 13552.87 W 6 MAY 11 1129 5.6 . 05 13225

DEG MIN DEG MIN DAY MO YR HR MIN (GMT) DRY BULB (°C) WET BULB (°C) PRESSURE (mb) SEA STATE VISIBILITY WIND DIRN. (deg) WIND SPD. (kts) CLOUD (amt) TYPE WEATHER

DEPTH (m) 19750/10  
 MAX. DEPTH = 197

REMARKS

No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Micro zoops			Ara A-1	Whittaker-JRD	Comments	NIS No.
			SALT	Nut Btl	O2-BLINO				DIC/AIK	Lugols-	FE				
1	6	197	276	89		X								1	
2	150		90											2	
3	100		91			X								3	
4	75		92											4	
5	50		93			X	L16							5	
6	40		94			X	L5							6	
7	30		95			X	L4							7	
8	20		96				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 = 31.915

0 10 20 30 40 50 75 100  
 150 200



VESSEL: R/V Thomas G. Thompson  
 CAUSE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 23

CONSC	CAST #	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. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	145653.06N			13545.74W			6	MAY	11	13	24	5:16			05			134	16			136	SE05

SBE 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 FLODK S/N \_\_\_\_\_  
 SBE43-Oxy (prime) \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 Transducer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 02 Temp Sensor No. \_\_\_\_\_  
 REMARKS \_\_\_\_\_  
 MAX DEPTH = / m

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom		Phyto		Micro zoops		Ana AI	Whittaker-LR	Comments	NIS No.
			SALT	Nut.Btl	02-Btl/No		DIC/Alk	Glucose	Formalin glass	Gluc.-plastic	Lugols					
1	127			99	108	X									1	
2	100			100											2	
3	75					X									3	
4	50						L6								4	
5	40					X	L5								5	
6	30						L4								6	
7	20					X	L3								7	
8	10						L2								8	
9	0						L1								9	
10															10	
11															11	
12															12	
13															13	
14															14	
15															15	
16															16	
17															17	
18															18	

SST = 6.914  
 SSS = 31.916  
 Nutr chl  
 DIC  
 0 10 20 30 40 SD 75 100  
 15m 2m

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO.: 24

CONSC	LATITUDE		LONGITUDE		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 (m)	STA. NAME/ID
CAST #	DEG	MIN	DEG	MIN							(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*		(m)	
15655.10	N		13532.11	W	6	MAY	11	15	07		5.5	.	05			44	2				99	5400

SEB 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_

FLUOR S/N \_\_\_\_\_  
 SEB43-Oxy (prims) \_\_\_\_\_  
 SEB43-Oxy (sec) \_\_\_\_\_  
 Transducer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_

02 Temp Sensor No. \_\_\_\_\_

REMARKS \_\_\_\_\_

MAX DEPTH = \_\_\_\_\_ m

NIS No.	DEPTH DESIRED	Rosette/Notes	Hydro Team-PNEL			Kristan	Strom	Phyto	Micro zoops			Ana-Al	Whittaker-JLR	Comments	NIS No.
			SALT	NutrBtl	02-Btl No				DIC/Alk	Chloro	Formalin glass				
1	90					X								1	
2	75					X								2	
3	50					X	L6							3	
4	40						L5							4	
5	30					X	L4							5	
6	20						L3							6	
7	10					X	L2							7	
8	10													8	
9	0						L1							9	
10														10	
11														11	
12														12	
13														13	
14														14	
15														15	
16														16	
17														17	
18														18	

SST = 6.7  
 SSSal = 31.5  
 SILL on pump  
 0 10 10 20 30 40 50 75 100  
 150 1

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 25

CONSC	LATITUDE		LONGITUDE		DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
CAST #	DEG	MIN	DEG	MIN							(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	
165	65	42	125	34	18	W	6	May	11	1651	5.9		05			04	2.			1365	003
REMARKS																					
MAX DEPTH =																					

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL		Kristan	Strom		Phyto		Micro zoops		Ana. Adj.	Whitaker-UR	Comments	NIS No.
			Nut. Bot	O2-Btl No		DIC/Alk	Chloro-a	Formalin glass	Gluc.-plastic	Lugols-	Diatoms				
1	127		238	233	X										1
2	100		117												2
3	75		118		X										3
4	50		119		X										4
5	40		120		X										5
6	30		121		X										6
7	20		122		X										7
8	10		123		X										8
9	10		124		X										9
10	0														10
11															11
12															12
13															13
14															14
15															15
16															16
17															17
18															18

SST = 6.942  
 SSSal = 31.819  
 Q2 Sal PWS DWA 0103030405075100150

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 33

CONSC CAST #	LATITUDE			LONGITUDE			DAY	MO	YR	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	SEC	DEG	MIN	SEC				HR	MIN	SEC												
01757	22	06	N	136	13	0	07	MAY	11	06	51	6.0	.	7	*	3	44	3					75	SEGOA

REMARKS: 279 Sal 36600  
 SBE 94: \_\_\_\_\_  
 PRESS SN: \_\_\_\_\_  
 SBE 43-Oxy (urine): \_\_\_\_\_  
 SBE 43-Oxy (sec): \_\_\_\_\_  
 SEC TEMP SN: \_\_\_\_\_  
 Transducer: \_\_\_\_\_  
 PAR S/N: \_\_\_\_\_  
 SEC COND SN: \_\_\_\_\_  
 O2 Temp Sensor No: \_\_\_\_\_

N/S No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan DIC/CAK	Strom Chloro	Phyto Formalin glass	Gut- plastic	Micro zoops Lugols-	Ana-A-I FE	Whittaker-UR Diatoms	Comments	N/S No.
			SALT	Nut.BI	O2-BI.No									
1	bot			125	222	X								1
2	40			126									2	
3	30			127		X							3	
4	20			128									4	
5	10			129									5	
6	0			130		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	

SST = 6.962 SSSal = 31.913

Leaving

SEGOA

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 34

CONSC CAST # 185721.99 N  
 DEG MIN 136 4.74 W  
 DAY MO YR 7 MAY 11  
 HR MIN 830  
 DRY BULB (°C) 5.3  
 WET BULB (°C) .  
 PRESSURE (mb) 7  
 SEA STATE \* \*  
 VISIBILITY \* \*  
 WIND DIRN. (deg) 345  
 WIND SPD. (kts) 6  
 CLOUD (amt) \* \*  
 TYPE \* \*  
 WEATHER \* \*  
 BOTTOM DEPTH (m) 107  
 STA. NAME/ID SE60

REMARKS: *Shoof*  
*Seen Cast*  
*No Samples*

FLUOR S/N  
 SBE43-Oxy (pHme)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp Sensor No.

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL				Kristan	Strom	Phyto	Formalin glass	Gluc -plastic	Lugols-	Ana A-I	FE	Whitaker-URI	Diatoms	Comments	NIS No.
			SALT	Nut Btl	O2-Btl No	DIC/Alk												
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

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 34

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	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
195721	99	N	136	4.74	W	7	MAY	11	1	933	5.1	07	*	*	322	4	*	*	106	SEGO

NIS No.	DEPTH DESIRED	Rosette Notes	SALT	Hydro Temp-PWEL Nut Btl	O2-Btl No	Kristan DIC/Aik	Strom Chlorophyll	Phyto Formalin glass	Micro zoops Lugols-	Ara A-1 FE	Whittaker-URI Diatoms	Comments	NIS No.
1	6		280	131		X							1
2	6.5			132		X							2
3	7.5			133		X							3
4	50			134		X							4
5	40			135		X							5
6	30			136		X							6
7	20			137		X							7
8	20			138		X							8
9	10			139		X							9
10	0			138		X							10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18

SST =  
 SSSal =  
 0 20 30 40 50 75 8  
 0 20 30 40 50 75 8  
 0 10 20 30 40 50 75 8

VESSEL: R/V Thomas G. Thompson  
CRUISE ID: TN263  
PROJECT & LEG: GOA-IERP-1L Spring 2011  
STATION NO: 35

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	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
205719.07			N	136	11	77	W	7	MAY	11	11	17	5.3	.	07	*	*	36	6	*	*	*	1182	5EG5		
SBE 9+ PRESS SN PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN	FLUOR S/N SBE43-Oxy (prme) SBE43-Oxy (sec) Transmissometer PAR S/N O2 Temp Sensor No.																									

NIS No.	DEPTH DESIRED	Rosette Notes	SALT	Nut. Bri	O2-Bul.No	DIC/Alk	Kristan	Strom Chloro-I	Phyto Formalin	glass	Glut.-plastic	Micro zoops Lugols-	Ana A-1 FE	Whittaker-URI Diatoms	Comments	NIS No.
1	170 150			139 140			X									1
2	130			141			X									2
3	100			142			X									3
4	75			143			X									4
5	50			144			X									5
6	40			145			X									6
7	30			146			X									7
8	20			147			X									8
9	10			148			X									9
10	0			149			X									10
11	0			150			X									11
12	0			151			X									12
13				152			X									13
14				153			X									14
15				154			X									15
16				155			X									16
17				156			X									17
18				157			X									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-IBRP-LTL Spring 2011  
 STATION NO.: 360

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	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
2157	16	89	136	20	27	W	7	M	13	15	5.9		67			349	4				545	5610

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Micro zoops		Ana A-I	Whittaker-UR	Comments
			SALT	Nut. Btl	O2-Btl/No				DIC/AIK	Chloro-I			
1	544		383	149	032	X							
2	400			150		X							
3	400			151		X							
4	300			152		X							
5	200			153		X							
6	150			154		X							
7	100			155		X							
8	75			156		X							
9	50			157		X							
10	40			158		X							
11	30			159		X							
12	30			160		X							
13	20			161		X							
14	10					X							
15	0					X							
16													
17													
18													

SST = 7.15°C      SSSal = 31.953

0 10 20 30 40 50 75 100 150 200  
 300 400 500

REMARKS: MAX DEPTH = 544 m



VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO: 37

CONSC CAST #	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. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
2257	11	68	N 13637.48	W	7	MAY	11	1715	2	3	08						283	10				180056620	6620

REMARKS:  
 Area Combined Fe & hydro  
 500V 950V 9910  
 700V 980V  
 O2 (20) 212

NIS No.	DEPTH DESIRED	Rosette Notes	SALT	Nut. Bti	O2-Bti.No	DIC/Aik	Strom Chlorophyll	Phyto Formalin glass	Micro zoops Lugols-	Ana Al IBS	Whittaker-JR Diatoms	Comments	NIS 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							10
11	40	✓		172		X							11
12	40	✓		173		X							12
13	40	✓		174		X							13
14	30	✓		175		X							14
15	20	✓		176		X							15
16	10	✓		177		X							16
17	10	✓		178		X							17
18	0	✓		179		X							18

542000

19 Reber

SST = 31.13  
 SSSal = 31.955  
 Sal = 28.83  
 190  
 Wind direction  
 Wind speed  
 10 dpo  
 SWG  
 176  
 176  
 176

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 51

CONSC CAST #	DEG	MIN	LATITUDE	DEG	MIN	LONGITUDE	DAY	MO	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
235756	99	N	13640	19	W	8	MAY	11	17	52	5.1			13			295	10			112	5E10
REMARKS: ..... MAX. DEPTH = 100 m																						

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto		Micro zoops	Ara-M	Whittaker-UR	Comments	NIS No.
			SALT	Nut. Btl	O2-Btl/No			DIC/Alk	Gluc					
1	10	100												1
2	75													2
3	50													3
4	40													4
5	30													5
6	20													6
7	10													7
8	10													8
9	10													9
10	10													10
11	0													11
12														12
13														13
14														14
15														15
16														16
17														17
18														18

SST = 6.671      SSSal = 31.748      0 10 10 10      0 10 20 30 40 50      75 100

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 52

CONSC CAST # 424  
 LATITUDE 57 54.94 N  
 DEGREE MIN  
 LONGITUDE 134 47.97 W  
 DEGREE MIN  
 DATE: MAY 11 1983  
 TIME (GMT) 08:11  
 DRY BULB 5.4 (°C)  
 WET BULB . (°C)  
 PRESSURE 13 (mb)  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. 293 (deg)  
 WIND SPD. 15 (kts)  
 CLOUD (amt) \*  
 WEATHER \*  
 BOTTOM DEPTH 157 (m)  
 STA. NAME/ID SEKS  
 MAX DEPTH = m

SBE 9+ \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE43-Oxy (primo) \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 Transmissometer \_\_\_\_\_  
 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-1	Whittaker-JR	Comments	Nis No.
			SALT	Nut. Btl	O2-Btl.No				DIC/Alk	Lugols-				
1	100	185	X										1	
2	100	186	X										2	
3	75	187	X										3	
4	50	188	X										4	
5	40	189	X										5	
6	30	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  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 53

CONSC CAST #		LATITUDE		LONGITUDE		DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
25	57	52.5	9N	13	65	5.02	W	48	M	11	12	05	56	5.3			14				28	507	465	SEKID
REMARKS: SBE 9+ PRESS SN PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN FLUOR S/N SBE43-Oxy (prine) SBE43-Oxy (sec) Transmissometer PAR S/N O2 Trp Sensor No.																								

NIS No.	DEPTH DESIRED	Reset/te Notes	SALT	Nut. Bl	O2-B/LNO	DIC/AIK	Kristan	Strom	Phyto	Formalin glass	Glut.-plastic	Micro zoops	Lugols-	Ava. A.I.	FE	Whittaker-JRK	Diatoms	Comments	NIS No.	
1	300	284	X	284	194	X	092	X												1
2	300			195			X													2
3	200			196			X													3
4	100			197			X													4
5	75			198																5
6	50			199			X													6
7	40			200																7
8	36			201																8
9	20			202			X													9
10	10			203			X													10
11	0			204			X													11
12																				12
13																				13
14																				14
15																				15
16																				16
17																				17
18																				18

SST = 7.55  
 SSSal = 32.064

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO.:  $\phi$ 54

CONSC	CAST #	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 (deg)	WIND SPD (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	$\phi$ 26	57	47.62	N	137	11.05	W	08	M	A	Y	11	23	18	5.9			14	*	29	108		2285	SEK24

SBE 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_  
 SBE43-Oxy (prime) \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 Transducer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 REMARKS \_\_\_\_\_  
 MAX. DEPTH = \_\_\_\_\_ m

NIS No.	DEPTH DESIRED	Rosette/Notes	Hydro Team-PMEL			Krisan	Strom		Phyto		Micro zoops		Ana A-13	Whittaker-UR	Diatoms	Comments	NIS No.
			SALT	Nut. Blt	O2-Blt.No		DIC/AIK	Chlor-a	Formalin	glass	Glut-plastic	Lugok-					
1	Bot			805		X											1
2	200			200		X											2
3	150			207		X											3
4	100			208		X											4
5	75			209													5
6	50			210		X											6
7	40																7
8	30																8
9	20					X											9
10	20																10
11	10																11
12	10																12
13	0					X											13
14																	14
15																	15
16																	16
17																	17
18																	18

SST = \_\_\_\_\_  
 SSSal = \_\_\_\_\_

bottom says not clip

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 055

CONSC CAST # 0275756  
 LATITUDE 15 N  
 LONGITUDE 3721.87 W  
 DAY 09  
 MO MAY  
 YR 11  
 TIME (GMT) 0202  
 DRY BULB (°C) 6.2  
 WET BULB (°C) .  
 PRESSURE (mb) 1.5  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN (deg) 218  
 WIND SPD. (kts) 10  
 CLOUD (amt) \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 1715  
 STA. NAME/ID ELR0

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 S/N  
 O2 Trp Sensor No.

Nis No.	DEPTH DESIRED	Rosette Notes	SALT	Hydro Team-PMEI	Kristian	Strom	Phyto	Micro zoops	Ara Al	Whittaker-LR	Comments	Nis No.
1	Bot			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	0		X285	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-ERP-LTL Spring 2011  
 STATION NO.  $\phi 56$

CONSC CAST #  $\phi 285754$   
 LATITUDE: DEG MIN  $13713.47$  N  
 LONGITUDE: DEG MIN  $0902.62$  W  
 DAY MO YR: 09 MAY 11  
 TIME (GMT) HR MIN: 04 02  
 DRY BULB (C): 6.2  
 WET BULB (C):  
 PRESSURE (mb): 14  
 SEA STATE: \*  
 VISIBILITY: \*  
 WIND DIRN (deg): 287  
 WIND SPD. (kts): 14  
 CLOUD (amt) TYPE WEATHER: \* \* \*  
 BOTTOM DEPTH (m): 303  
 STA. NAME/ID: XST4

SBE 9+  
 PRESS SN  
 P90 TEMP SN  
 SEC TEMP SN  
 P90 COND SN  
 SEC COND SN  
 FLUOR S/N  
 SBE43-Oxy (prme)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 I02 Temp Sensor No.  
 REMARKS: *Transcript of CTD Sound*

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Micro zoops			Ava A4	Whittaker-LR	Comments	NIS No.
			SALT	Nut Bt	O2-B/LNO				DIC/Aik	Chloro-a	Formalin glass				
1	Bottom			220		X									1
2	200			221		X									2
3	150			222		X									3
4	100			223		X									4
5	75			224		Y									5
6	50			225											6
7	25			226		Y									7
8	0		X1560	227		X166	V								8
9															9
10															10
11															11
12															12
13															13
14															14
15															15
16															16
17															17
18															18

SST = 7.35  
 SSSal = 32.208

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO.: 457

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
29	52	54.68	N	13	7	01	50	W	09	MAY	11	06	36	6.1		14		29	109		448	X573

REMARKS: Midday... MOCNOPS SITE

SBE 9+ \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE43-Oxy (prime) \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 Transmissometer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 O2 Trip Sensor No. \_\_\_\_\_

MAX DEPTH = \_\_\_\_\_ m

NIS No.	DEPTH DESIRED	Rosette Notes	SALT	Hydro Temp-PMEL Nut Btl	O2-Btl No	Kristan DIC/Alk	Strom Chloro-I	Phyto Formain glass	Micro zoops Lugols-	Ana. Al. LITE	Whittaker-JR Diatoms	Comments	NIS No.
1	Bot		X	228	X	175	X						1
2	400			229									2
3	300			230									3
4	200			231									4
5	150			232									5
6	100	X		233									6
7	75	X		234									7
8	50	X		235									8
9	25	X		236								Vent open	9
10	0	X		237									10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18

SST = 24.4  
 SSSal = 31.99



VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 458

CONSC CAST # 34  
 DEGREE MIN 57 52.59 N  
 DEGREE MIN 13 45.63 W  
 DAY MONTH YEAR 09 MAY 11  
 TIME (GMT) 1021  
 DRY BULB (°C) 6.1  
 WET BULB (°C) .  
 PRESSURE (mb) 13  
 SEA STATE \* \*  
 VISIBILITY \* \*  
 WIND DIRN. (deg) 276  
 WIND SPD. (kts) 7  
 CLOUD (amt) \* \*  
 TYPE \* \*  
 WEATHER \* \*  
 BOTTOM DEPTH (m) 460  
 STA. NAME/ID XST2  
 MAX. DEPTH = m

FLUOR S/N  
 SBE43-Oxy (prme)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 Q2 Temp Sensor No.

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kistan	Strom			Phyto			Micro zoops			Ana A-1 FE	Whittaker-URI Diatoms	Comments	NIS No.
			SALT	Nut. Btl	O2-Btl No		DIC/Alk	Chloro-l	Formalin glass	Gluc.-plastic	Lugols-	FE	Diatoms						
1	450			238		X												1	
2	400			239														2	
3	300			240		X												3	
4	200			241														4	
5	150			242		X												5	
6	100			243														6	
7	75			244		X												7	
8	50			245														8	
9	25			246		X												9	
10	0			247														10	
11				150														11	
12																		12	
13																		13	
14																		14	
15																		15	
16																		16	
17																		17	
18																		18	

SST = 7.41  
 SSSal = 31.964  
 0 25 50 75 100 150  
 200 300 400

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO. **288** 59

CONSC CAST # 315751.54N  
 LATITUDE MIN 3650.04W  
 DEGREE MIN DAY MO YR HR MIN  
 9 MAY 11 1125  
 TIME (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. WIND SPD. CLOUD (amt) TYPE WEATHER  
 5.2 . . . 13 \* \* 253 5 \* \* \*  
 BOTTOM DEPTH STA. NAME/ID  
 182 XST1

FLUOR S/N  
 SBE43-Oxy (prime)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp Sensor No.

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PWEL			Kristan	Strom	Phyto	Formalin glass	Gut-plastic	Micro zoops	Lugols-	Ana A-1	FE	Whittaker-UR	Diatoms	Comments	NIS No.
			SALT	Nut.Btl	O2-Btl.No													
1	172 ✓			242	113	X												1
2	150 ✓			249		X												2
3	100 ✓			250		X												3
4	75 ✓			251														4
5	50 ✓			252		X												5
6	25 ✓			253														6
7	0			254		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

SST = 7.397 SSSal = 31.981

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IEP-LTL Spring 2011  
 STATION NO.: 602

CONSC CAST # 3258  
 DEG 7.69 N  
 MIN 7.69 N  
 LONGITUDE DEG 13644.48 W  
 MIN 13644.48 W  
 DAY 9  
 MO MAY  
 YR 11  
 HR 17  
 MIN 05  
 TIME (GMT) 1705  
 DRY BULB (°C) 5.5  
 WET BULB (°C) .  
 PRESSURE (mb) 13  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN (deg) 171  
 WIND SPD (kts) 13  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 99  
 STA. NAME/ID 5E10  
 MAX. DEPTH = m

REMARKS: 102405us  
 SURF KEYS

SBE 9+  
 PRESS SN  
 PRI TEMP SN  
 SEC TEMP SN  
 PRI COND SN  
 SEC COND SN  
 O2 Temp Sensor No.

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Micro zoops			Ana A-1	Whittaker-JRK	Comments	Nis No.
			SALT	Nut. Bl	O2-Btl.No				DIC/Aik	Chloro-l	Formalin glass				
1	96	✓	289	255	108	X									1
2	75	✓		226											2
3	50			253		X									3
4	40			258											4
5	40			259											5
6	30			260											6
7	20			261											7
8	10			261											8
9	10														9
10	0														10
11	0	D		268		X									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  
 75 100 150 200

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO.: 463

CONSC CAST # 33  
 LATITUDE 28° 06.78' N  
 LONGITUDE 126° 31.88' W  
 DATE: 09 MAY 11  
 TIME (GMT): 2123  
 DRY BULB: 26.1  
 WET BULB: .  
 PRESSURE: 1020  
 SEA STATE: \*  
 VISIBILITY: \*  
 WIND DIRN: 116  
 WIND SPD: 15  
 CLOUD (amt): \*  
 WEATHER: \*  
 BOTTOM DEPTH: 128  
 STA. NAME/ID: X51

REMARKS: \_\_\_\_\_

FLUOR S/N: \_\_\_\_\_  
 SBE43-Oxy (primo): \_\_\_\_\_  
 SBE43-Oxy (sec): \_\_\_\_\_  
 Transmissometer: \_\_\_\_\_  
 PAR S/N: \_\_\_\_\_  
 O2 Temp Sensor No.: \_\_\_\_\_

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PWEL			Kristan	Strom	Phyto	Formalin glass	Glut.-plastic	Micro zoops	Lugols-	Ana A-I	FE	Whittaker-JIR	Diatoms	Comments	Nis No.
			SALT	Nut.Btl	O2-Btl.No													
1	0-1		290	264		X												1
2	1-2			265		X												2
3	3-4			266														3
4	4-5			267														4
5	5-6			267		X												5
6	6-7			267														6
7	7-8			268		X												7
8	8-9			268	224													8
9	9-10																	9
10	10-11																	10
11	11-12																	11
12	12-13																	12
13	13-14																	13
14	14-15																	14
15	15-16																	15
16	16-17																	16
17	17-18																	17
18	18-19																	18
19	19-20																	19
20	20-21																	20

SST= \_\_\_\_\_ SSSal= \_\_\_\_\_

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 264

CONSC CAST #: 345808.64N  
 LATITUDE: 13635.62W  
 DEG MIN DAY MO YR HR MIN  
 09 MAY 11 2346  
 DRY BULB (°C): 6.1  
 WET BULB (°C):  
 PRESSURE (mb): 10  
 SEA STATE: \*  
 VISIBILITY: \*  
 WIND DIRN. (deg): 198  
 WIND SPD. (kts): 14  
 CLOUD (amt) TYPE: \*  
 WEATHER:  
 BOTTOM DEPTH (m): 320  
 STA. NAME/ID: X52

SE 9+  
 PRESS SN  
 PPI TEMP SN  
 SEC TEMP SN  
 PPI COND SN  
 SEC COND SN  
 FLUOR S/N  
 SBE43-Oxy (prime)  
 SBE43-Oxy (sec)  
 Transmittometer  
 PAR S/N  
 O2 Temp Sensor No.  
 REMARKS: G(2)-G(1) > 10 on ascent

N/S No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom		Phyto		Micro zoops		Ana A-1 FE	Whittaker-UR Diatoms	Comments	N/S No.
			SALT	Nur. Btl	O2-BU/No		DIC/Alk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-					
1	Bot			219	X233	X										1
2	200			276		✓										2
3	150			271												3
4	100			277		X										4
5	75			273												5
6	50			274		✓					X 56					6
7	40			275							X 55					7
8	30			276							X 54					8
9	20			277		✓					X 53					9
10	10			278						X 20	X 16	X 53				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  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 68

CONSC CAST # 0355809.74N  
 DEGREE MIN LONGITUDE 13636.92W  
 DAY 10 MO MAY YR 11  
 TIME (GMT) 0142  
 DRY BULB 6.0  
 WET BULB .  
 PRESSURE 10  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. 053 (deg)  
 WIND SPD. 2 (kts)  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH 145 (m)  
 STA. NAME/ID X53

REMARKS  
 MAX. DEPTH = m

FLUOR S/N  
 SBE43-Oxy (prime)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 Q2 Temp Sensor No.

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom		Phylo		Micro zoops		Ana A-I	FE	Whittaker-UR	Diatoms	Comments	NIS No.
			SALT	Nut.Btl	O2-Btl.No		DIC/Alk	Chloro-I	Formalin glass	Glut.-plastic	Lugols-							
1	BAT		X	280	X091	X												1
2	100			281		X												2
3	75			282		X												3
4	50			283														4
5	40			284		X												5
6	30			285														6
7	20			286		X												7
8	10			287														8
9	0			288		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 = 6.3  
 SSSal = 32.084

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 65

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	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	
3658	16	10	136	53	06	10	11	03	59	6.0	.	08			54	06					915	SENR-25

REMARKS: \_\_\_\_\_  
 MAX. DEPTH = \_\_\_\_\_ m

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Formalin glass	Glut-plastic	Lugos-	Micro zoops	Ana A-I	FE	Whittaker-LR	Diatoms	Comments	Nis No.
			SALT	Nut.BI	O2-BI.No													
1	80			289	118	X												1
2	75			290														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	995													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-IERP-TL Spring 2011  
 STATION NO. ~~67~~ 67

CONSC CAST # 4375815.27 N  
 DEGREE MIN 13656.09 W  
 DAY 10  
 MO MAY  
 YR 11  
 TIME (GMT) 0459  
 DRY BULB 6.1  
 WET BULB .  
 PRESSURE 07  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 45  
 WIND SPD. (kts) 10  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 145  
 STA. NAME/ID SEMP  
 MAX DEPTH = m

SEC 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 S/N \_\_\_\_\_  
 O2 Trmp Sension No. \_\_\_\_\_

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Formalin glass	Glut-plastic	Micro zoops	Lugols-	Ana A-I	FE	Whittaker-UR	Diatoms	Comments	Nis No.
			SALT	Nut:Btl	O2-Btl.No													
1	90L	✓		296		X												1
2	100	✓		297		X												2
3	75	✓		298		X												3
4	50	✓		299		X												4
5	40	✓		300														5
6	35	✓		301		X												6
7	20	✓		302														7
8	16	✓		303		X												8
9	D			304	X232													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-ERP-LTL Spring 2011  
 STATION NO: 668

CONSC CAST # 0385813.82 N  
 LATITUDE 13700.87 W  
 DEG MIN DAY MO YR HR MIN  
 13 70 08 11 06 08  
 LONGITUDE 13700.87 W  
 DEG MIN DAY MO YR HR MIN  
 13 70 08 11 06 08  
 TIME (GMT) 0608  
 DRY BULB (°C) 6.2  
 WET BULB (°C) .  
 PRESSURE (mb) 06  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 075  
 WIND SPD. (Kts) 08  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 134  
 STA. NAME/ID SEM2.5

REMARKS  
 SBE 9+ FLUOR S/N  
 PRESS SN SBE43-Oxy (prime)  
 PRT TEMP SN SBE43-Oxy (sec)  
 SEC TEMP SN Transmissometer  
 PRT 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-1 FE	Whittaker-UR Diatoms	Comments	Nis No.
			SALT	Nut.Br1	O2-Br1.No		DIC/Alk	Chloro-l	Formalin glass	Glut.-plastic	Lugols-					
1	100	X	305	X037	X										1	
2	100		306												2	
3	75		307												3	
4	50		308												4	
5	25		309												5	
6	0		310												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

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.  $\phi 69$

CONSC CAST # 030581  
 LATITUDE 2.93 N  
 DEGREE MIN  
 LONGITUDE 137.505 W  
 DEGREE MIN  
 DAY 10  
 MO MAY  
 YR 11  
 TIME (GMT) 7:13  
 HR MIN  
 DRY BULB (C) 6.9  
 WET BULB (C) .  
 PRESSURE (mb) 5  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 70  
 WIND SPD. (kts) 15  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER  
 BOTTOM DEPTH (m) 125  
 STA. NAME/ID SEM5

SBE 9+ FLUOR S/N  
 PRESS SN SBE43-Oxy (prine)  
 PRI TEMP SN SBE43-Oxy (sec)  
 SEC TEMP SN Transmissometer  
 PRI COND SN PAR S/N  
 SEC COND SN O2 Temp Sensor No.

REMARKS

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kistan	Strom	Phylo	Formalin glass	Glut-plastic	Micro zoops	Lugols-	Ana A-I	FB	Whitaker-URI	Diatoms	Comments	NIS No.
			SALT	Nut.Bil	O2-Bil.No													
1	110		393	311	93													1
2	75			312		X												2
3	50			313			L6											3
4	40			314		X	L5											4
5	30			315			L4											5
6	20			316		X	L3											6
7	10			317			L2											7
8	0			318		X	L1											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 = 7.20  
 SSSal = 31.857  
 0 10 20 30 40 50 75 100

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO.: 070

CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DAY MO	YR	TIME (GMT) HR MIN	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
405810	10.26 N	13713.42 W	10	MAY	11 0856	6.9	.	03			66	19			126	SEM10

REMARKS  
 SBE 9+ FLUOR S/N  
 PRESS SN SBE43-Oxy (prime)  
 PRI TEMP SN SBE43-Oxy (sec)  
 SEC TEMP SN Transmitter  
 PRI COND SN PAR S/N  
 SEC COND SN O2 Temp Sensor No.

No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom	Phyto	Micro zoops			Ana A-I	Whitaker-JR	Comments	No.
			SALT	Nut.Btl	O2-Btl.No			DIC/ALK	Chloro-1	Formalin glass				
1	119			319										1
2	75			320			X							2
3	50			321			X							3
4	40			322			X							4
5	30			323			X							5
6	20			324			X							6
7	10			325			X							7
8	0			326			X							8
9				327										9
10				328										10
11				329										11
12				330										12
13				331										13
14				332										14
15				333										15
16				334										16
17				335										17
18				336										18
19				337										19
20				338										20

SST = 7.008  
 SSSal = 34.927

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 071

CONSC CAST #	LATITUDE		LONGITUDE		DAY	MO	YR	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				HR	MIN											
4	15	51	137	29	10	MAY	11	11	08	6.3	.	01	*	*	086	19			142	SEM20

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 Trnp Sension No. \_\_\_\_\_

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL		Kristan	Strom	Phyto	Formalin glass	Slut.-plastic	Lugols-	Micro zoops	Ana A-I FE	Whittaker-LR Diatoms	Comments	NIS No.
			SALT	Nut:Btl											
1	0														1
2	100			327											2
3	75			328											3
4	50			329											4
5	40			330											5
6	30			331											6
7	20			332											7
8	10			333											8
9	0			334											9
10				335											10
11				022											11
12															12
13															13
14															14
15															15
16															16
17															17
18															18
19															19
20															20

SST = 7.453 SSSal = 32.038

R/V Thomas G. Thompson  
 PROJECT & LEG: TN263  
 GOA-REP-LTL Spring 2011  
 STATION NO. 78  
 CRUISE ID: TN263

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
425846.78	N	141	3.99	W	11	MAY	11	1223	5.16			106			158	1			1395	YBC05

REMARKS: 1223 depth 1253 start up  
 See Starboard page

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Krisian	Strom		Phyto		Micro zoops		Ana A-I	Whittaker-LR	Comments
			SALT	Nut:Btl	O2-Btl/LNO		DIC/Aik	Chloro-I	Formalin glass/Gut.-plastic	Lugols-	FE	Diatoms			
1	1036		2916	336	212										
2	500			337	166										
3	410			338											
4	300			339											
5	200			340											
6	150			341											
7	100			342											
8	75			343											
9	50			344											
10	25			345											
11	0			346											
12															
13															
14															
15															
16															
17															
18															
19															
20															

SST=

SSSal=

11 Flushed with seawater closed

10 d11 on

9 d13.6H

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-REP-LTL Spring 2011  
 STATION NO.: 70

CONSC		LATITUDE		LONGITUDE		DAY	MO	YR	HR	MIN	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
425846	78 N	141	3.99 W	11	MAY	11	1223	5.6	06	158	2	1895									1895	Y13C50F

REMARKS: Y13C50 was too shallow - Anomalous  
 2100 PAR was too faint. Turn back on PARACAST.  
 50 bottles stops 30 530 730 930 980  
 1010  
 Held out 1036m 30 minutes

NIS No.	DEPTH DESIGED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Micro zoops	Ana A-1	Whittaker-URI	Comments
			SALT	Nut. Bri	O2-Bri/No							
1	1036	CTD ✓ ①	296	336	212							
2	1010	Fe ✓										
3	980	Fe ✓										
4	930	Fe ✓										
5	730	Fe ✓										
6	530	Fe ✓										
7	520	CTD ✓ ②		337	166							
8	400	CTD ✓ ③		338								
9	300	CTD ✓ ④		339								
10	200	CTD ✓ ⑤		340								
11	150	CTD ✓ ⑥		341								
12	100	CTD ✓ ⑦		342								
13	75	CTD ✓ ⑧		343								
14	50	CTD ✓ ⑨		344								
15	20	CTD ✓ ⑩		345								
16	0	CTD ✓ ⑪		346								
17												
18												
19												
20												

SST = 7.15A SSS = 32.366  
 0 at 50 75 100 150 200 300  
 400 500 600

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-TL Spring 2011  
 STATION NO.: 78

CONSC CAST # 435  
 DEGREE MIN 846.82 N  
 DEGREE MIN 141 3.93 W  
 DAY MONTH YEAR 11 MAY 11  
 TIME (GMT) 1400  
 DRY BULB 5.5  
 WET BULB  
 PRESSURE 06  
 SEA STATE  
 VISIBILITY  
 WIND DIRN. (deg)  
 WIND SPD. (kts)  
 CLOUD (amt) TYPE  
 WEATHER  
 BOTTOM DEPTH (m) 1370  
 STA. NAME/ID YBC506

SEC 9+  
 PRESS SN  
 PRI TEMP SN  
 SEC TEMP SN  
 PRI COND SN  
 SEC COND SN  
 O2 Trp Sensor No.  
 FLUOR S/N  
 SBEF43-Oxy (pHme)  
 SBEF43-Oxy (sec)  
 Transmissometer  
 PAR S/N

REMARKS  
 Do not collect for water from missing depth  
 one time was set wrong  
 Starts at 30m, pushes 26m

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Krisan	Strom	Phyto	Micro zoops			Ana A-I	Whittaker-UR	Diatoms	Comments	NIS No.
			SALT	Nut:Btl	O2-Btl.No				DIC/AIK	Chloro-I	Formalin glass					
1	30	NO. 10	345												checked thorough	1
2	25	NO. 10	345												1-9 tubularly closed since	2
3	20	NO. 10	346												we started at 30m	3
4																4
5																5
6																6
7																7
8																8
9																9
10	25		345													10
11	20		346													11
12																12
13																13
14																14
15																15
16																16
17																17
18																18
19																19
20																20

SST = 7.09  
 SSSal = 32.378

VESSEL

R/V Thomas G. Thompson

CRUISE ID TN263

PROJECT & LEG  
GOA-IERP-LTL Spring 2011

STATION NO.  
79

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)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
44	58 47.92 N	14 04 7.67 W	11 MAY 11 1542	5.6	.	06	*	*	350	3			211	YBCSD

DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(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 \_\_\_\_\_ O2 Temp Sensor No. \_\_\_\_\_

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kjistan	Strom	Phyto			Micro zoops		Ana A-1	Whittaker-JR	Comments	NIS No.
			SALT	Nut-Bit	O2-Bit/No			DIC/Alk	Formalin glass	Glut.-plastic	Lugols-	FEE				
1	6	200		347												1
2	150			348												2
3	100			349												3
4	75			350												4
5	50			351												5
6	40			352												6
7	40			353												7
8	30			354												8
9	20			355												9
10	10			356												10
11	10			357												11
12	10			358												12
13	0			359												13
14	0			360												14
15																15
16																16
17																17
18																18
19																19
20																20

SST = 21.55      SSSal = 32.320      0 10 20 30 40 50 60 70 80 90 100 110 120

DIGITALY taken  
 10 min after  
 other other samples



VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO.: 80

CONSC CAST # 455856.18 N  
 LATITUDE 14037.31 W  
 DEGREE MIN DAY MO YR HR MIN  
 14 037 31 11 MAY 11 18 18  
 LONGITUDE 11MAY11  
 TIME (GMT) 1818  
 DRY BULB (°C) 4.1  
 WET BULB (°C) .  
 PRESSURE (mb) 07  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 193  
 WIND SPD. (kts) 7  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 196  
 STA. NAME/ID Y8E40  
 MAX. DEPTH = 126 m

REMARKS  
 Fe Cast  
 No 50 samples  
 Depth 20 45 70 100 126 500 depth

Nis No	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL				Strom		Phyto		Micro zoops		Ana A-1 FE	Whittaker-UR Diatoms	Comments	Nis No
			SALT	Nut.Btl	O2-Btl.No	DIC/AIK	Chloro-l	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 = 7.266  
 SSSal = 32.115

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 80

CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DAY	MO	YR	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
4/65856.18		18	14037.31		31	11	MAY	11	1967	4.2	.	07	*	*	217	6	*	*	*	189	78C40

SE 9+  
 PRESS SN  
 PRT TEMP SN  
 SEC TEMP SN  
 PRT COND SN  
 SEC COND SN  
 O2 Temp Sensor No.

FLUOR S/N  
 SBE43-Oxy (prime)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N

REMARKS  
 East of the E Coast

MAX. DEPTH = m

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Krisnan	Strom		Phyto		Micro zoops		Ana A-1	Whittaker-UR	Diatoms	Comments	NIS No.
			SALT	Nut. Blt	O2-Blt.No		DIC/Alk	Chloro-l	Formalin glass	Glut.-plastic	Lugol's	FE					
1	10				219	X											1
2	150				352	X											2
3	100				359												3
4	75				360	X											4
5	50				361												5
6	40				362	X											6
7	30				363	X											7
8	20				364												8
9	10				365	X											9
10	0				366												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-IERP-LTL Spring 2011  
 STATION NO.: 81

CONSC CAST #	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. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
047	59	04	140	25	34	W	11	M	A	Y	1	1	22	12	58	08	30	809				141	YR-30

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 Trp Sensor No.

NIS DEPTH Rosette Notes Hydro Team-PMEL Kristan Strom Phyto Ana A-1 Whitaker-UR Comments  
 No. DESIRED SALT Nut.Btl O2-Btl.No DIC/Alk Chloro-I Formalin glass/Glut.-plastic Lugos- FE Diatoms

NIS No.	DEPTH DESIRED	Rosette Notes	SALT	Nut.Btl	O2-Btl.No	DIC/Alk	Chloro-I	Formalin glass/Glut.-plastic	Lugos-	FE	Whitaker-UR	Comments	NIS No.
1	Bot		214	367		X	L7						1
2	100			368		X	L7					No water for notes	2
3	75			369			L7					Locker	3
4	50			370			L6						4
5	40					X	L5						5
6	30						L4						6
7	20					X							7
8	25			371									8
9	10					Y	L2	22	19				9
10	20						L3						10
11	0			372	092		L1						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-IEP-LTL Spring 2011  
 STATION NO.: 82

CONSC CAST #	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 (m)	STA. NAME/ID
04859	12	67	N	140	15	7	1	13	56	2.2	08	*	*	343	13			12	YBC 20

REMARKS: \_\_\_\_\_

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 S/N \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_

Nis No.	DEPTH DESIRED	Rosette/Notes	Hydro Team-PMEL		Kistan	Strom		Phyto		Macro zoops		Diatoms	Comments	Nis No.
			SALT	Nut Btl		O2-Btl.No	DIC/Aik	Chlorophyll	Formalin glass	Glut.-plastic	Lugols-			
1	bot			373	X									1
2	100			374										2
3	75			375	Y									3
4	50			376										4
5	40													5
6	30													6
7	25			377	X									7
8	20													8
9	10													9
10	0			378	X									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 #	DEG	MIN	LATITUDE	DEG	MIN	LONGITUDE	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
0495920	06	6	66N	140	03	68W	12	MAY	11	02	30	06:50	6.5	.	09	**	**	33	2	1	**	**	166	YBC 10

SBE 9+ \_\_\_\_\_ FLUOR S/N \_\_\_\_\_  
 PRESS SN \_\_\_\_\_ SBE43-Oxy (p/m) \_\_\_\_\_  
 PNI TEMP SN \_\_\_\_\_ SBE43-Oxy (sec) \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_ Transmissometer \_\_\_\_\_  
 PNI COND SN \_\_\_\_\_ PAR S/N \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_ O2 Temp Sensor No. \_\_\_\_\_

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL	Kristan	Strom	Phyto	Chloro-l	Formalin glass	Glut-plastic	Micro zoops	Lugols-	Ana A-I	FE	Whittaker-UR	Diatoms	Comments	NIS 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

REMARKS:  
 For Cast - no bottles (losing seabird pellets)  
 20m  
 45m  
 70m  
 100m  
 120m  
 140m  
 160m  
 180m  
 200m  
 20:15 Local (03:15Z)

SST = \_\_\_\_\_ SSSal = \_\_\_\_\_

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-HERP-LTL Spring 2011  
 STATION NO.: 83

CONSC CAST # 0545920.78N  
 DEG MIN  
 LONGITUDE DEG MIN  
 14002.80W 12 MAY 11  
 TIME (GMT) 0332  
 DRY BULB 6.7  
 WET BULB  
 PRESSURE 09  
 SEA STATE  
 VISIBILITY  
 WIND DIRN (deg) 320  
 WIND SPD (Kts) 15  
 CLOUD (amt) \* \* \*  
 WEATHER  
 BOTTOM DEPTH (m) 1781  
 STA. NAME/ID XBCB

SE 9+  
 PRESS SN  
 PR1 TEMP SN  
 SEC TEMP SN  
 PR1 COND SN  
 SEC COND SN

FLUOR S/N  
 SBE43-Oxy (prine)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N

O2 Temp Sensor No.

REMARKS

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Formalin glass	Gut-plastic	Micro zoops	Lugos-	Ana-A-1	FE	Whittaker-JR	Diatoms	Comments	NIS No.
			SALT	Nut. Bri	O2-Bri.No													
1	bet		X215	379	113	X												1
2	100			380														2
3		SKIP																3
4	75			381		X												4
5	50			382		X				X68								5
6	40																	6
7	30					X				X67								7
8	25														X			8
9	25																	9
10	20									X66								10
11	10									X23	X20	X65						11
12	0																	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.: 484

CONSC CAST # 515928  
 DEPT 28  
 LATITUDE 13 N  
 DEPT 1  
 LONGITUDE 84 W  
 DAY 12  
 MO MAY  
 YR 11  
 TIME (GMT) 0554  
 DRY BULB 4.8  
 WET BULB .  
 PRESSURE 103  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN 309  
 WIND SPD. 05  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH 103  
 STA. NAME/ID YBCP

REMARKS: SBE 9+ FLUOR S/N  
 SBE43-Oxy (prine)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp Sensor No.

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Formalin glass	plastic	Lugos-	Micro zoops	Ana A-1	Whittaker-JR	Diatoms	Comments
			SALT	Nur. Btl	O2-Btl.No											
1	Bot ✓		X	385		Y										
2	75 ✓			386												
3	50 ✓			387		Y	46				X 22					
4	40 ✓						45									
5	30 ✓						44				X 21					
6	25 ✓			388		Y										
7	20 ✓						43				X 20					
8	15 ✓															
9	10 ✓						42	X 24	X 21	X 69						
10	0 ✓			389		Y	41									
11																
12																
13																
14																
15																
16																
17																
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-HERP-LTL Spring 2011  
 STATION NO.: 87

CONSC CAST # \_\_\_\_\_  
 DEG MIN DEG MIN DEG MIN DAY MO YR HR MIN  
 0525917.72 N 14034.00 W 12 MAY 11 1146  
 TIME (GMT) DRY BULB (°C) WET BULB (°C) PRESSURE (mb) SEA STATE VISIBILITY WIND DIRN. (deg) WIND SPD. (Kts) CLOUD (amt) TYPE WEATHER  
 6.6 . 10 32616 1138  
 MAX. DEPTH = \_\_\_\_\_ m

REMARKS: Sugarman's STD  
 help in Talcum? Big BTZ

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom	Phyto	Micro zoops	Ana Ad	Whittaker-JRF	Comments	NIS No.
			SALT	Nut. Btl	O2-Btl/No							
1	50		210			L6						1
2	40					L5						2
3	30						Expt					3
4	30											4
5	30					L4						5
6	20					L3						6
7	10						Expt					7
8	10					L2						8
9	0					L1						9
10												10
11												11
12												12
13												13
14												14
15												15
16												16
17												17
18												18

SST = 7.449  
 SSSal = 32.080



VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTI Spring 2011  
 STATION NO.: 88

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	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0535859.04N	14	18	2.19W	12	MA	11	21	01	9.0	14	127	13											758	YBESD

REMARKS:   
 SBE 9+   
 PRESS SN   
 PRI TEMP SN   
 SEC TEMP SN   
 PRI COND SN   
 SEC COND SN   
 O2 Trmp Sensor No.   
 FLUOR S/N   
 SBE43-Oxy (prime)   
 SBE43-Oxy (sec)   
 Transmissometer   
 PAR S/N

NIS No.	DEPTH DESIRED	Rosette Notes	SALT	Nut Btl	O2-Btl.No	Kristan DIC/Alk	Strom Chloro-I	Phyto Formalin glass Glut.-plastic	Micro zoops Lugols-	Ana A-I FE	Whittaker-UR Diatoms	Comments	NIS No.
1	0-1		X	392	K106	X							1
2	500			393		X							2
3	400			394		X							3
4	300			395	x215								4
5	200			396		X							5
6	150			397									6
7	100			398		X							7
8	75			399									8
9	50			400		X							9
10	40												10
11	30												11
12	25			401		X							12
13	20												13
14	10												14
15	0			402		X						breakers	15
16	0			K02		X							16
17													17
18													18
19													19
20													20

SST=   
 SSSal=

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-1, TL Spring 2011  
 STATION NO.: 89

CONSC CAST # 545906.98 N  
 DEGS MIN 14111.66 W  
 DAY MO YR 12 MAY 11  
 HR MIN 1233.8  
 DRY BULB (°C) 9.4  
 WET BULB (°C) .  
 PRESSURE (mb) 15  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 168  
 WIND SPD. (kts) 03  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 250  
 STA. NAME/ID YBE4P

REMARKS

MAX. DEPTH = m

FLUOR S/N  
 SBE43-Oxy (princ)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp Sensor No.

NIS No.	DEPTH DESIRED	Rosette/Notes	Hydro Team-PMEL			Kistan	Strom	Phyto			Micro zoops	Ana. Adj	Whittaker-UR	Comments	NIS No.
			SALT	Nur.Btl	O2-Btl.No			DIC/ALK	Chlo.	Formalin glass					
1	100		X	403	x100	X								1	
2	110			404										2	
3	150			405		X								3	
4	100			406										4	
5	75			407		X								5	
6	50			408		X								6	
7	40													7	
8	30													8	
9	25			409										9	
10	20					X								10	
11	10													11	
12	0			410		X								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-IEP-LTL Spring 2011  
 STATION NO.: 93

CONSC CAST # 0555914.91 N  
 DEG MIN  
 LONGITUDE DEG MIN 141.00.98 W  
 DAY MO YR 13 MAY 11  
 TIME (GMT) HR MIN 0155  
 DRY BULB (°C) 9.2  
 WET BULB (°C) .  
 PRESSURE (mb) 1.6  
 SEA STATE \* \*  
 VISIBILITY \* \*  
 WIND DIRN. (deg) 293  
 WIND SPD. (kts) 01  
 CLOUD (amt) \* \*  
 WEATHER \* \*  
 BOTTOM DEPTH (m) 18.1  
 STA. NAME/ID Y0E30

SE 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 S/N  
 Q2 Temp Sensor No.

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom		Phyto		Micro zoops	Ara A1	Whittaker-JR	Comments	NIS No.
			SALT	Nur.Btl	O2-Btl.No		DIC/ALK	Chlor	Formalin glass/Gut.-plastic	Lugols-					
1	601		X2H	-411	224	X									1
2	150			-412											2
3	100			-413		X									3
4	75			-414		X									4
5	50			-415											5
6	40					X									6
7	30														7
8	25														8
9	20					X									9
10	10														10
11	0														11
12															12
13															13
14															14
15															15
16															16
17															17
18															18

SST = 8.24  
 SSSal = 32.015

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-HERP-LTL Spring 2011  
 STATION NO.: 94

CONSC	CAST #	DEG	MIN	LATITUDE	DEG	MIN	LONGITUDE	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 (m)	STA. NAME/ID
	056	59	23	81 N	140	50	23 W	13	M	A	11	04	26	8.1	.	17	*	*	085	02	*	*	*	161	YBE20

SBE 9+ \_\_\_\_\_ FLUOR S/N \_\_\_\_\_  
 PRESS SN \_\_\_\_\_ SBE43-Oxy (prine) \_\_\_\_\_  
 PRT TEMP SN \_\_\_\_\_ SBE43-Oxy (sec) \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_ Transmissometer \_\_\_\_\_  
 PRT COND SN \_\_\_\_\_ PAR S/N \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_ O2 Temp Sensor No. \_\_\_\_\_  
 REMARKS: \_\_\_\_\_  
 MAX. DEPTH = \_\_\_\_\_ m

NIS No.	DEPTH DESIRED	Rosette/Notes	SALT	Nut. Bt	O2-Btl. No	DIC/Alk	Strom	Pyro	Formalin glass	Gluc.-plastic	Micro zoops	Lugols-	Are. Ad.	Whittaker-UR	Diatoms	Comments	NIS No.
1	Bot			418		X											1
2	100			419													2
3	75			420		X											3
4	50			421													4
5	40					X											5
6	30																6
7	20																7
8	25																8
9	20					X											9
10	10					X											10
11	0																11
12	0																12
13																	13
14																	14
15																	15
16																	16
17																	17
18																	18

SST = 8.849 SSSal = 36.782

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IEP-LTL Spring 2011  
 STATION NO.: 95

CONSC CAST # 14039  
 LATITUDE 13° 03' 11.52" N  
 DEGREE 14  
 MINUTE 03  
 SECOND 11.52  
 N  
 LONGITUDE 108° 08' 19" W  
 DEGREE 108  
 MINUTE 08  
 SECOND 19  
 W  
 TIME (GMT) 07:04  
 HR 07  
 MIN 04  
 DRY BULB 7.8  
 WET BULB  
 PRESSURE 1.09  
 SEA STATE  
 VISIBILITY 10  
 WIND DIRN 08  
 WIND SPD. 08  
 CLOUD (amt) TYPE WEATHER  
 BOTTOM DEPTH 281  
 STA. NAME/ID YBE16

SE 9+  
 PRESS SN  
 PRI TEMP SN  
 SEC TEMP SN  
 PRI COND SN  
 SEC COND SN  
 FLUOR S/N  
 SBE43-Oxy (prine)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Trp Sensor No.  
 REMARKS  
 MAX. DEPTH =

Nis No	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Micro zoops	Ara Al	Whittaker-UPL	Comments	Nis No.
			SALT	Nur. Bri	O2-Bri.No								
1	301			424	223	X							1
2	205			425		X							2
3	150			426									3
4	100			427		X							4
5	75			428									5
6	50			429		X							6
7	40												7
8	30					X							8
9	25			430									9
10	23										X		10
11	20												11
12	10												12
13	0			431		X							13
14	0										X		14
15													15
16													16
17													17
18													18

SST = 7.51  
 SSSal = 32.13

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 96

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	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (Kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
5859	37	12	N	14031	65	W	13	MAY	11	10	20	10:20	6.3		21	*	*	116	6	*	*	156	Y10E2.5

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 Temp Sensor No. \_\_\_\_\_

NIS DEPTH: \_\_\_\_\_ Rosette Notes: \_\_\_\_\_  
 No. DESIRED: \_\_\_\_\_ SALT: \_\_\_\_\_  
 Nut. Bl: \_\_\_\_\_ O2-Btl. No: \_\_\_\_\_ DIC/Alk: \_\_\_\_\_  
 Hydro Tean-PWEL: \_\_\_\_\_ Kristan: \_\_\_\_\_  
 Strom: \_\_\_\_\_ Chloro-I: \_\_\_\_\_  
 Phyto: \_\_\_\_\_ Formalin glass-Gut.-plastic: \_\_\_\_\_  
 Micro zoops: \_\_\_\_\_ Lugols: \_\_\_\_\_  
 Ana A-I: \_\_\_\_\_ FE: \_\_\_\_\_  
 Whittaker-JIR: \_\_\_\_\_ Diatoms: \_\_\_\_\_  
 Comments: \_\_\_\_\_

NIS No.	DEPTH	Rosette Notes	SALT	Nut. Bl	O2-Btl. No	DIC/Alk	Kristan	Strom	Chloro-I	Phyto	Formalin glass-Gut.-plastic	Micro zoops	Lugols	Ana A-I	FE	Whittaker-JIR	Diatoms	Comments	NIS No.
1	147		218	432	027		X											037%	1
2	100			433															2
3	75			434			X												3
4	50			435															4
5	40			436			X												5
6	30			437															6
7	30	↘																	7
8	25																		8
9	20						X												9
10	10																		10
11	10																		11
12	0						X												12
13																			13
14																			14
15																			15
16																			16
17																			17
18																			18
19																			19
20																			20

SST = \_\_\_\_\_  
 SSSal = \_\_\_\_\_  
 30 10

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO. 100

CONSC CAST # 0  
 DEG 59.59  
 MIN 15.16  
 N 14  
 DEG 100.63  
 MIN 13  
 W 13  
 DAY MAY 11  
 MO 20  
 YR 19  
 HR 06  
 MIN 07  
 TIME (GMT)  
 DRY BULB (°C)  
 WET BULB (°C)  
 PRESSURE (mb) 23  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 191  
 WIND SPD. (kts) 13  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 180  
 STA. NAME/ID Y0824

REMARKS  
 SALT O2 redid the same #?

SBE 9+  
 PRESS SN  
 PRT TEMP SN  
 SEC TEMP SN  
 PRT COND SN  
 SEC COND SN  
 FLUOR S/N  
 SBE43-Oxy (primo)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp Sensor No.

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL				Strom		Phyto		Micro zoops		Ana A-1 FE	Whittaker-URI Diatoms	Comments	Nis No.
			SALT	Nut. Btl	O2-Btl. No	DIC/ALK	Chloro-l	Formalin	glass	Glut.-plastic	Lugols-					
1	Bot		219	441											1	
2	156			442											2	
3	100			443											3	
4	75			444											4	
5	50			445											5	
6	20			446											6	
7	0			447											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-TL Spring 2011  
 STATION NO.: 141

CONSC CAST #: 0545916.99 N  
 DEGREE: 41 07.34 W  
 DATE: 13 MAY 11  
 TIME (GMT): 12:11  
 DRY BULB: 6.5  
 WET BULB: .  
 PRESSURE: 23  
 SEA STATE: \*  
 VISIBILITY: \*  
 WIND DIRN.: 182  
 WIND SPD.: 13  
 CLOUD (amt): \*  
 WEATHER: \*  
 BOTTOM DEPTH: 202  
 STA. NAME/ID: YTX1

SEC COND SN: \_\_\_\_\_  
 PRI COND SN: \_\_\_\_\_  
 SEC TEMP SN: \_\_\_\_\_  
 PRI TEMP SN: \_\_\_\_\_  
 SEC COND SN: \_\_\_\_\_  
 PRI COND SN: \_\_\_\_\_  
 SEC TEMP SN: \_\_\_\_\_  
 PRI TEMP SN: \_\_\_\_\_  
 TRANSMISSOMETER: \_\_\_\_\_  
 PAR S/N: \_\_\_\_\_  
 Q2 Temp Sensor No.: \_\_\_\_\_

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL				Krisan	Strom	Phyto	Formalin glass	Glut. plastic	Micro zoops	Lugols-	Ana A-1	FE	Whittaker-UR	Diatoms	Comments	NIS No.
			SALT	Nut.Btl	Q2-Btl.No	DIC/Alk													
1	Bot			448															1
2	150			449	4233														2
3	100			450															3
4	75			451															4
5	40			452															5
6	20			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 = 32.067



VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO.: 162

CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DAY	MO	YR	HR	MIN	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
661	59	20	141° 16' 10" W	13	5	MAY	11	11	12	16	6.5	.	23	*	*	210	11	*	*	*	330	YTK2

REMARKS: Seawater sampled at 0755 hr + 160 m away from stern. Plankton net works good. O2 (good) at 100 m depth.

SBE 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 02 Temp Sensor No. \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE43-Oxy (pHme) \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 Transmittometer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Micro zoops			Ana A-1	Whittaker-UKR	Comments	NIS No.										
			SALT	Nutr.Btl	02-Btl No				DIC/Alk	Chloro-1	Formalin glass					Glut.-plastic	Lugols-	FE	Diatoms						
1	100	1																							
2	275	1																							
3	200	1																							
4	150	1																							
5	100	1																							
6	75	1																							
7	56	1																							
8	25	1																							
9	0	1																							
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									

SST = 7.85  
 SSSal = 32.09

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO.: 143

CONSC CAST # 46259  
 DEG 21.97  
 MIN N  
 LONGITUDE DEG 141.25  
 MIN 12W  
 DAY 13  
 MO MAY  
 YR 11  
 TIME (GMT) 5:32  
 HR 22  
 MIN 22  
 DRY BULB (°C) 6.1  
 WET BULB (°C) .  
 PRESSURE (mb) 24  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 615  
 WIND SPD. (kts) 08  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 325  
 STA. NAME/ID X13

REMARKS  
 Note - Nut Bits from Suzanne Sirota - smaller  
 VOT

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom		Phyco		Micro zoops		Ana A-1		Whittaker-UR		Comments	NIS No.
			SALT	Nut. Blt	O2-Blt.No	DIC/AIK	Chloro-l	Formalin	glass	Glut.-plastic	Lugds-	FE	Diatoms				
1	100		X220	464													1
2	225			465													2
3	150			466													3
4	100			467													4
5	75			468													5
6	50			469													6
7	25			470													7
8	0			471	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-ERP-LTL Spring 2011  
 STATION NO.: 184

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	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
63	59	25	80 N	141	30	47 W	14	MAY	11	00	25	0025	6.3	.	24	*	*	147	02	*	*	*	182	Y8-34

SBE 9+ \_\_\_\_\_ FLUOR S/N \_\_\_\_\_  
 PRESS SN \_\_\_\_\_ SBE43-Oxy (prime) \_\_\_\_\_  
 PRT TEMP SN \_\_\_\_\_ SBE43-Oxy (sec) \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_ Transmissometer \_\_\_\_\_  
 PRT COND SN \_\_\_\_\_ PAR S/N \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_ O2 Temp Sensor No. \_\_\_\_\_

NIS No.	DEPTH DESIRED	Rosette Notes	SALT	Nut. Blt	O2-Blt.No	DIC/AIK	Kristan	Strom	Phyto	Formalin glass	Glut.-plastic	Micro zoops	Lugds-	Ana A-1	FE	Whittaker-UR	Diatoms	Comments	NIS No.
1	125			472			2												1
2	150			473			3												2
3	100			474			4												3
4	75			475			5												4
5	50			476			6												5
6	25			477			7												6
7	0			478	X		8												7
8							9												8
9							10												9
10							11												10
11							12												11
12							13												12
13							14												13
14							15												14
15							16												15
16							17												16
17							18												17
18							19												18
19							20												19
20							20												20

SST = 7.99      SSSal = 32.149  
 O2 flask 91 not written on CTD log - X the flask must be from this cast

MAX. DEPTH = m

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 108

CONSC CAST #	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. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
645908	08	44	14154.39	14	39	14	MAY	11	09	50	0950	4.7		24			183	5				1230	Y8650

SBE 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 PRT TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 PRT COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE43-Oxy (prime) \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 Transmissometer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_  
 REMARKS: 20 OF

NIS No.	DEPTH DESIRED	Rosette Notes	SALT	Hydro	Tear-PMEL	Kristan	Strom	Phyto	Formalin glass	Glut.-plastic	Micro zoops	Lugol's	Ana A-1	FE	Whittaker-UR	Diatoms	Comments	NIS No.
1	221		479	093	X													1
2	1000		480	150	X													2
3	750		481	160	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		490		X													14
15	20																	15
16	10																	16
17	0		491															17
18																		18
19																		19
20																		20

SST = 7.895  
 SSSal = 32.257  
 7.938  
 32.202  
 750 1000

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 109

CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
65	59	17.39	N	141	48.61	W	14	MAY	11	12	12	4.9		23			163	4				195	78640

SBE 9+ \_\_\_\_\_ FLUOR S/N \_\_\_\_\_  
 PRESS SN \_\_\_\_\_ SBE43-Oxy (prime) \_\_\_\_\_  
 PPI TEMP SN \_\_\_\_\_ SBE43-Oxy (sec) \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_ Transducer \_\_\_\_\_  
 PPI COND SN \_\_\_\_\_ PAR S/N \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_ O2 Temp Sensor No. \_\_\_\_\_

REMARKS: 3

NIS No.	DEPTH DESCRIBED	Rosette Notes	SALT	Nut. Bt.	O2-Btl. No.	DIC/Alk	Kristan	Strom	Phyto	Formalin glass	Glut.-plastic	Micro zoops	Lugols-	Ana A-1	FE	Whittaker-UR	Diatoms	Comments	NIS No.
1	186			492	211		X												1
2	150			493															2
3	100			494															3
4	75			495															4
5	50			496			X					80							5
6	40			497															6
7	30			498								79							7
8	20			499									78						8
9	10			500			X												9
10	0			222501			X												10
11																			11
12																			12
13																			13
14																			14
15																			15
16																			16
17																			17
18																			18
19																			19
20																			20

SST = 7.702 SSSal = 32.264

VESEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 110

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	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
665925.86N	14	13.3	06W	14	MAY	11	14	03	5.5	23	145	4	125										170	Y18630

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 Temp Sensor No. \_\_\_\_\_

NIS DEPTH: \_\_\_\_\_ Rosette Notes: \_\_\_\_\_  
 No. DESIRED: \_\_\_\_\_ SALT: \_\_\_\_\_  
 Hydro Team-PMEL: Kristan  
 O2-Btl, No DIC/Alk

NIS No.	DEPTH	SALT	Nut. Btl	O2-Btl, No	DIC/Alk	Strom	Phyco	Formalin glass-Gluc.-plastic	Micro zoops	Lugol's-	Ana A-I	FE	Whittaker-UR	Diatoms	Comments	NIS No.
1	170	223	502													1
2	150		503													2
3	100		504													3
4	75		505													4
5	50		506													5
6	40		507													6
7	30		508													7
8	20		509													8
9	10		510													9
10	0		511	175												10
11																11
12																12
13																13
14																14
15																15
16																16
17																17
18																18
19																19
20																20

SST = 7.689 SSSal = 32.032

REMARKS: NO DIC NO HW?

MAX. DEPTH = 170 m

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 111

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	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
625934.52	N	11	41.21.60	W	14	MAY	11	11	16	11	5.16	5.16	1022					123	2			12.1	Y8020

SBE 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 O2 Trnp Sension No. \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE43-Oxy (prime) \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 Transmissometer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 REMARKS \_\_\_\_\_  
 MAX DEPTH = \_\_\_\_\_ m

NIS No.	DEPTH DESIRED	Rosette Notes	SALT	Nut:Btl	O2-Btl/No	DIC/AIK	Strom	Chloro-I	Phyto	Formalin glass	Glut.-plastic	Micro zoops	Lugol's-	Ana A-I	FE	Whittaker-UR	Diatoms	Comments	NIS No.
1	112			512				L1											1
2	H00			513				L2											2
3	75			514				L3											3
4	50			515				L4											4
5	40			516				L5											5
6	30			517				L6											6
7	30			518				L7											7
8	20			519				L8											8
9	10			519				L9											9
10	10			520				L10											10
11	0			520				L11											11
12																			12
13																			13
14																			14
15																			15
16																			16
17																			17
18																			18
19																			19
20																			20

SST = 7.021      SSSal = 31.813      10 30

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 112

CONSC CAST # 685941.26N 14188.86W 14 MAY 11 1753  
 LATITUDE: 13.86  
 LONGITUDE: 141.86  
 TIME (GMT): 1753  
 DRY BULB: 26.1  
 WET BULB: .  
 PRESSURE: 21  
 SEA STATE: \*  
 VISIBILITY: \*  
 WIND DIRN: 136  
 WIND SPD: 4  
 CLOUD (amt): \*  
 TYPE: \*  
 WEATHER: \*  
 BOTTOM DEPTH: 56  
 STA. NAME/ID: Y13610  
 MAX. DEPTH = 58 m

SBE 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 P11 TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 P11 COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Formalin glass-Gut-plastic	Micro zoops	Ana A-1	Whittaker-JR	Diatoms	Comments	Nis No.
			SALT	Nut.Btl	O2-Btl.No										
1	48		225	521	106	X	L6		92					1	
2	40			522			L5							2	
3	30			523			L4		91					3	
4	20			524			L3		90					4	
5	10			525			L2	33	30	09				5	
6	0			526		X	L1							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 = 26.55  
 SSSal = 31.620



VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 113

CONSC CAST #	LATITUDE		LONGITUDE		DAY	MO	YR	TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTDOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN				HR	MIN											
069	59	3.28	14	35	14	W	15	M	A	11	02	33	6.2		16				1362	K1A4
																			1245	K1A4

SEB 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 O2 Trp Sensor No. \_\_\_\_\_

FLUOR S/N \_\_\_\_\_  
 SEB43-Oxy (prme) \_\_\_\_\_  
 SEB43-Oxy (sec) \_\_\_\_\_  
 Transmissometer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_

REMARKS: O(1) jump at ~ 500m

MAX DEPTH = \_\_\_\_\_ m

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Formalin glass	Glut.-plastic	Lugol's	Micro zoops	Ana A-1	Whitaker-JR	Comments	NIS No.
			Nut Btl	O2-Btl/No	DIC/Alk											
1	80	✓ 1245	X 226	X 227	X 224	X									1	
2	100	✓		X 228	X 232	X									2	
3	750	✓		X 229	X 222										3	
4	500	✓		X 30	X 219	X									4	
5	400	✓		X 31	X 237										5	
6	300	✓		X 32	X 233	X									6	
7	200	✓		X 33	X 212	X									7	
8	150	✓		X 34											8	
9	100	✓		X 35											9	
10	75	✓		X 36		X									10	
11	50	✓		X 37		X									11	
12	40	✓		X 38		X									12	
13	30	✓		X 39											13	
14	25	✓		X 40											14	
15	20	✓		X 41		X									15	
16	14	✓		X 42											16	
17	12	✓		X 43											17	
18	0	✓		X 44		X									18	
19															19	
20															20	
21															21	
22															22	
23															23	
24															24	

SST = 8.65      SSSal = 37.25      NO      NO      NO

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO.: 114

CONSC CAST #	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. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
27	59	39	144.11.20 W	15	MA	11	11	05	35		6.1			15			184	05				168	K1A3

REMARKS: \_\_\_\_\_  
 MAX. DEPTH = \_\_\_\_\_ m

SBE 9+ \_\_\_\_\_  
 FILLOR S/N \_\_\_\_\_  
 SBE43-Oxy (prime) \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 Transmissometer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_

No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Formalin glass	Glut.-plastic	Micro zoops	Lugols-	Ana A-1	FE	Whittaker-JRI	Diatoms	Comments	No.
			SALT	Nut:BI	O2-Btl.No													
1	Bot			546														1
2	100			541	91	X												2
3	75			542		X												3
4	50			543		X												4
5	40			544		X												5
6	30			545		X												6
7	20			546		X												7
8	10			547		X												8
9	0			548														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  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO.: 115

CONSC CAST #	LATITUDE		LONGITUDE		DAY	MO	YR	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				HR	MIN											
71	8	31	14	18	15	MAY	11	07	14	5.9	.	14	*	*	171	4	*	*	124	11A2

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 S/N \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_

REMARKS: *Flask 227 lost, must be flask 150 which has no home*

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Tearn-PMEL		Kristap DIC/Alk	Strom Chloro-I	Phyto Formalin glass-Glut.-plastic	Micro zoops Lugold's	Ana A-I FE	Whittaker-UR Diatoms	Comments	NIS No.
			Nut.Btl	O2-Btl.No								
1	17	✓	549		X	L6						1
2	75	✓	550	<del>227</del>	X							2
3	50	✓	551			L5						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											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= 32.031

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 116

CONSC CAST # 725946.52 N  
 LATITUDE 14 30.80 W  
 DEGREE MIN DAY MO YR HR MIN  
 15 MAY 11 0848  
 TIME (GMT) 5.6  
 DRY BULB (C) 14  
 WET BULB (C) 14  
 PRESSURE (mb) 193  
 SEA STATE \* \*  
 VISIBILITY (deg) 4  
 WIND DIRN. (Kts) \* \*  
 WIND SPD. (Kts) \* \*  
 CLOUD (amt) \* \*  
 TYPE WEATHER \* \*  
 BOTTOM DEPTH (m) 84  
 STA. NAME/ID K1A1  
 MAX DEPTH = m

N/S No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Krisan DIC/Alk	Strom Chloro-I	Phyto Formalin glass	Glut-plastic	Micro zoops Lugols-	Ana A-I FE	Whitaker-JIR Diatoms	Comments	N/S No.
			Nut.BI	O2-Btl.No										
1	77	✓	557			X	76							1
2	50	✓	558				75							2
3	40	✓	559			X	74							3
4	30	✓	560				73							4
5	20	✓	561				72							5
6	15	✓					71							6
7	10	✓												7
8	10	✓												8
9	0		563	166		X	71							9
10														10
11														11
12														12
13														13
14														14
15														15
16														16
17														17
18														18
19														19
20														20

SST = 28.392  
 SSSal = 28.223

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 117

CONSC CAST # 735  
 LATITUDE 9 20. 21 N  
 LONGITUDE 14 55. 32 W  
 DAY 15  
 MO MAY  
 YR 11  
 TIME (GMT) 13 23  
 DRY BULB 5.1  
 WET BULB .  
 PRESSURE 102  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 156  
 WIND SPD. (kts) 2  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 2042  
 STA. NAME/ID K184  
 MAX DEPTH = 2021 m

SSE 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 S/N  
 O2 Temp Sensor No.

N/S	DEPTH	Rosette Notes	Hydro Team-PMEL			Strom	Phyto	Micro zoops	Ana A-I	Whittaker-JR	Comments	N/S
			SALT	Nut.Btl	O2-Btl.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

REMARKS  
 NO NUTS, CHLOR, DIC  
 JUST Sal, O<sub>2</sub>  
 edge of eddy?

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 118

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	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
74	59	28.31	N	144	53.84	W	15	MAY	11				5.1		11			126	4				551	K1182

REMARKS: High clouds 0-20 fms  
 SBE 9+ \_\_\_\_\_ FLUOR S/N \_\_\_\_\_  
 PRESS SN \_\_\_\_\_ SBE43-Oxy (prme) \_\_\_\_\_  
 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	SALT	Hydro Team-PWEL	Kristan	Strom	Phyto	Formalin glass-Gut.-plastic	Micro zoops	Ana A-1	Whittaker-UR	Comments	NIS No.
1	560	✓	330		118								1
2	75	✓		564									2
3	50	✓		565		X	L6						3
4	40	✓		566			L5						4
5	30	✓		567			L4						5
6	20							Suzanne expt					6
7	30					X	L3						7
8	10							Suzanne expt					8
9	10					X	L2						9
10	10						L1						10
11	0												11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20

SST = 8.559 SSSal = 32.049

10 20

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO.: 119

CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID						
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(kts)	*	*	*	(m)							
75	59	36	28	14	45	55	15	25	W	15	M	A	Y	11	1	18	25	S.	8	10	15	5	3	168	KL82

SSE 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 S/N \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_

Nis No.	DEPTH	Rosette Notes	Hydro Team-PMEL			Strom	Phyto	Formalin glass	Glut.-plastic	Micro zoops	Lugols-	Ana A-1	FE	Whittaker-UR	Diatoms	Comments	Nis No.
			SALT	Nut.Btl	O2-Btl.No												
1	160		231		241												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 = 8.200  
 SSSal = 32.038

REMARKS: No samples

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-JERP-L TL Spring 2011  
 STATION NO.: 124

CONSC	LATITUDE		LONGITUDE		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 (m)	STA. NAME/ID
476	59	44	114	N	15	M	A	Y	11	2007	6.3		09	*	*	173	05	*	*	*	020	KTB1

SBE 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE43-Oxy (artine) \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 Transmissometer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 REMARKS \_\_\_\_\_  
 MAX. DEPTH = \_\_\_\_\_ m

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom	Phyto	Micro zoops			Ana A-I	Whittaker-LJR	Comments	NIS No.
			SALT	Nut:BI	O2-BI.No			DIC/Alk	Chloro-I	Formalin glass				
1	100	✓		571	X092									1
2	75	✓		573										2
3	50	✓		574										3
4	40	✓		575										4
5	30	✓		576										5
6	20	✓		577										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  
 PO NO PO PO



VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 121

CONSC CAST #	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. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
77	59	43.91	N	14	58	5.44	W	15	M	A	Y	11	23	58	6.3			07					14	K2C1

SEC 9+ \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE43-Oxy (prine) \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 Transmission \_\_\_\_\_  
 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	Whitaker-URI	Comments	NIS No.
			SALT	Nut.BI	O2-BI.No		DIC/Alk	Chloro-l	Formalin glass	Glut-plastic					
1	Bot	/	X	530		X								1	
2	75	/		581		X								2	
3	75	/											X	3	
4	50	/		582		X								4	
5	46	/		583										5	
6	30	/		584										6	
7	26	/		585										7	
8	17	/											X	8	
9	10	/		586										9	
10	0	/		587	148	X								10	
11														11	
12														12	
13														13	
14														14	
15														15	
16														16	
17														17	
18														18	
19														19	
20														20	

SST = \_\_\_\_\_  
 SSSal = \_\_\_\_\_

MAX DEPTH = \_\_\_\_\_ m

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 122

CONSC CAST # 078  
 DEG 59 MIN 34.75 N  
 DEG 145 MIN 58.653 W  
 DAY 16 MO MAY YR 11  
 TIME (GMT) HR 01 MIN 47  
 DRY BULB (°C) 6.3  
 WET BULB (°C) .  
 PRESSURE (mb) 06  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 124  
 WIND SPD. (kts) 07  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 126  
 STA. NAME/ID KIT2

REMARKS

FLUOR S/N  
 SBE43-Oxy (prime)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp Sensor No.

MAX DEPTH = m

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Krisan	Strom	Phyto	Formalin glass	Glut- plastic	Micro zoops	Lugols-	Ana A-1	FE	Whittaker-UR	Diatoms	Comments	NIS No.
			SALT	Nut.Btl	O2-Btl.No													
1	Bot	/	Y	588	X	X												1
2	100	/		589														2
3	75	/		590		X												3
4	50	/		591			S6											4
5	40	/		592		X	S5											5
6	30	/		593		X	S4											6
7	20	/		594			S3											7
8	10	/		595		X	S2											8
9	0	/		596	X	175	S1											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-IERP-LTL Spring 2011  
 STATION NO.: 123

CONSC CAST #	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. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
279	59	25.97	N	145	25.90	16	MAY	11	04	58		6.3		04			155	09			796	RICC3

SBE 9+ \_\_\_\_\_ FLUOR S/N \_\_\_\_\_  
 PRESS SN \_\_\_\_\_ SBE43-Oxy (prme) \_\_\_\_\_  
 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	SALT	Hydro Temp-NUT:BrI	O2-Btl.No	Kristan DIC/Alk	Strom Chloro-a	Phyto Formain glass	Gut.-plastic	Micro zoops Lugols-	Ana A-I FB	Whittaker-JR Diatoms	Comments	NIS No.
1	Bot	232 x		597	Y215	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		X								9
10	50			606										10
11	40			607		X								11
12	30			608										12
13	20			609		X								13
14	10			610										14
15	0			611		X								15
16														16
17														17
18														18

SST = 8.55 SSSal = 32.200

MAX DEPTH =

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IEP-LTL Spring 2011  
 STATION NO.: 124

CONSC	CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	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
	8059	17	36	N	14	5	26	11	08	08	6.0	6.0	0.2	*	*	146	9	*	*	*	1888	K124
REMARKS: 1875 + 8 1904 SB 1952 KWD MAX. DEPTH = 1875 m																						

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyco	Micro zoops			Ana A-1	Whittaker-JR	Diatoms	Comments	NIS No.
			SALT	Nut. Btl	O2-Btl. No				DIC/Alk	Chloro-1	Formalin glass					
1	1875		233	6/12	249	X									1	
2	1500			6/13	222	X									2	
3	1000			6/14	219	X									3	
4	750			6/15	37	X									4	
5	500			6/16		X									5	
6	400			6/17	233										6	
7	300			6/18											7	
8	200			6/19		X									8	
9	150			6/20											9	
10	100			6/21		X									10	
11	75			6/22		X		L10							11	
12	50			6/23		X									12	
13	40			6/24				L5							13	
14	30			6/25		X		L4							14	
15	20			6/26				L3							15	
16	10			6/27				L2							16	
17	0			6/28		X		L1							17	
18															18	

SST = 8.441 SSSal = 32.121

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-L1 Spring 2011  
 STATION NO.: 125

CONSC CAST # 815855  
 DEGREE MIN 52N  
 DEGREE MIN 143  
 LONGITUDE 5.433 W  
 DAY 16  
 MO MAY  
 YR 11  
 HR 16  
 MIN 5.3  
 DRY BULB (°C)  
 WET BULB (°C)  
 PRESSURE (mb) 01  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 130  
 WIND SPD. (kts) 6  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER  
 BOTTOM DEPTH (m) 392  
 STA. NAME/ID T1

REMARKS: Cast the Sargassum float on 9/16/11

SEC COND SN  
 PRESS SN  
 PRI TEMP SN  
 SEC TEMP SN  
 PRI COND SN  
 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.
			SALT	Nut/Bt	O2-Bt/No				DIC/AIK	Chloro-I	Formalin glass				
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							expt							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  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 126

CONSC	CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	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							
	8258	5	50	N	13	72	9	48	W	13	M	A	Y	1	1	07	31	7.1				04						1425	SEM20
REMARKS																													
FLUOR S/N																													
SBE43-Oxy (prme)																													
SBE43-Oxy (sec)																													
Transmissometer																													
PAR S/N																													
O2 Temp Sensor No.																													

NIS No.	DEPTH DESIRED	Rosette Notes	SALT	Nut.Btl	O2-Btl No	DIC/ALK	Kristan	Strom	Chloro-I	Phyto	Formalin glass	Glut-plastic	Micro zoops	Lugols-	Ana A-I	FE	Whittaker-URI	Diatoms	Comments	NIS No.
1	183		235	637	098		X													1
2	100			638																2
3	75			639			X													3
4	50			640																4
5	40			641			X													5
6	30			642																6
7	20			643			X													7
8	10			644																8
9	0			645			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 = 8.013  
 SSSal = 31.747

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LT Spring 2011  
 STATION NO.: 127

CONSC CAST # 8358  
 DEG 10.15 N  
 MIN 137.308 W  
 DAY 17  
 MO MAY  
 YR 11  
 TIME (GMT) 0907.3  
 DRY BULB (°C) 4  
 WET BULB (°C) 4  
 PRESSURE (mb) 1013  
 SEA STATE 2  
 VISIBILITY 2  
 WIND DIRN. (deg) 228  
 WIND SPD. (kts) 2  
 CLOUD (amt) 128  
 TYPE  
 WEATHER  
 BOTTOM DEPTH (m)  
 STA. NAME/ID 56M10

REMARKS

FLUOR S/N  
 SBE43-Oxy (prime)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp Sensor No.

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom		Phyto			Micro zoops		Ana A-I	Whittaker-UR	Diatoms	Comments	Nis No.
			SALT	Nut.Btl	O2-Btl.No		DIC/Alk	Chloro-I	Formalin	glass	Glut.-plastic	Lugols-	FE					
1	121			646														1
2	160			647		X												2
3	75			648		X												3
4	50			649		X												4
5	40			650														5
6	30			651		X												6
7	20			652														7
8	10			653		X												8
9	0			654														9
10																		10
11																		11
12																		12
13																		13
14																		14
15																		15
16																		16
17																		17
18																		18
19																		19
20																		20

SST = 7.787  
 SSSal = 31.638

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 128

CONSC	LATITUDE		LONGITUDE		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	
CAST #	DEG	MIN	DEG	MIN							(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*		(m)	SEM5
84581	2.57	N	137	4.95	W	17	M	A	Y	11	10	00	4			0						132	

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 Trip Sensor No. \_\_\_\_\_

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Krisian	Strom	Phyto	Formalin glass	Glut.-plastic	Micro zoops	Lugols-	Ana A-I	FB	Whittaker-URI	Diatoms	Comments	NIS No.
			SALT	Nut:Btl	O2-Btl.No													
1	126		232	1655	150													1
2	100			656														2
3	75			657		X	L6											3
4	50			658		X	L5											4
5	40			659		X	L4											5
6	30			660														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

MAX DEPTH = m



VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO.: 129

CONSC	LATITUDE		LONGITUDE		DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
8558	15.31	N	136.55	94	W	MAY	11	11	29		6.8		5			136.2				142	SEM0

REMARKS: MAX DEPTH = 131 m

SBE 9+ \_\_\_\_\_ FLUOR S/N \_\_\_\_\_  
 PRESS SN \_\_\_\_\_ SBE43-Oxy (prine) \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_ SBE43-Oxy (sec) \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_ Transmitter \_\_\_\_\_  
 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	Formalin glass	Glut-plastic	Lugols-	Micro zoops	Ana A-1	FE	Whittaker-UR	Diatoms	Comments
			SALT	Nut. Blt	O2-Blt.No												
1	131					X											
2	100					X											
3	75					X											
4	50					X											
5	40					X											
6	30					X											
7	20					X											
8	10					X											
9	0					X											
10	0					X											
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

SST = 0.781  
 SSSal = 31.703  
 12.10.11  
 3.1.7.5.2  
 W. McCann

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 131

CONSC CAST # 816  
 DEG 57.57 MIN 16 N  
 LONGITUDE DEG 136.38 MIN 37 W  
 DAY 17 MO MAY YR 11  
 TIME (GMT) HR 15 MIN 12  
 DRY BULB (°C) 7.0  
 WET BULB (°C) .  
 PRESSURE (mb) 6  
 SEA STATE \* \*  
 VISIBILITY (deg) 0  
 WIND DIRN (deg) 0  
 WIND SPD. (kts) 1  
 CLOUD (amt) \* \*  
 TYPE \* \*  
 WEATHER  
 BOTTOM DEPTH (m) 75  
 STA. NAME/ID SEKO  
 MAX DEPTH = m

SEC 9+ FLUOR S/N  
 PRESS SN SBE43-Oxy (pHme)  
 PRI TEMP SN SBE43-Oxy (sec)  
 SEC TEMP SN Transmissometer  
 PRI COND SN PAR S/N  
 SEC COND SN O2 Trip Sensor No.

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL		Kristan	Strom		Phyto		Micro zoops		Ana A-1 FE	Whittaker-LR Diatoms	Comments	NIS No.
			SALT	Nut.Bt		O2-Bt/LNO	DIC/AIK	Chloro-l	Formalin glass	Glut-plastic	Lugols-				
1	1.5		2397	673	113										1
2	5.0			674											2
3	4.0			675		X									3
4	3.0			676		X									4
5	2.0			677		X									5
6	1.0			678											6
7	0			679											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

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 132

CONSC CAST # 8757  
 DEG 54.89 N  
 MIN 54.89 N  
 LONGITUDE DEG 13647.14 W  
 MIN 13647.14 W  
 DAY 17  
 MO MAY  
 YR 11  
 TIME (GMT) HR 16  
 MIN 51  
 DRY BULB (°C) 27.3  
 WET BULB (°C) .  
 PRESSURE (mb) 6  
 SEA STATE \* \* \*  
 VISIBILITY \* \* \*  
 WIND DIRN. (deg) 070  
 WIND SPD. (kts) 3  
 CLOUD (amt) \* \* \*  
 TYPE \* \* \*  
 WEATHER \* \* \*  
 BOTTOM DEPTH (m) 152  
 STA. NAME/ID SEKS

REMARKS

MAX DEPTH = m

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kriстан	Strom		Phyto		Micro zoops	Ana A-1	Whittaker-LJR	Comments	NIS No.
			SALT	Nut Btl	O2-Btl/No		DIC/Alk	Chlor-a	Formalin glass	Glut-plastic					
1	144		240	680	118	X								1	
2	100			681		X								2	
3	75			682		X								3	
4	50			683		X								4	
5	40			684		X								5	
6	30			685		X								6	
7	20			686		X								7	
8	20			687		X								8	
9	10			688		X								9	
10	10			687										10	
11	0			688		X								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  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 133

CONSC	CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	885	75	2.39	N	136	54.72	W	17	M	A	Y	1	1	18	28	7.3	.	07	*	287	5	4545	EC10

SBE 9+ \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE43-Oxy (prime) \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 Transmissometer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_

REMARKS \_\_\_\_\_

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Krisian	Strom	Phyco	Formalin glass	Glut.-plastic	Micro zoops	Lugol's	Ana A-I	FE	Whittaker-UR	Diatoms	Comments	NIS No.
			SALT	Nut:Btl	O2-Btl													
1	462	4481		689	241													1
2	400			690														2
3	300			691														3
4	200			692														4
5	150			693														5
6	100			694														6
7	75			695														7
8	50			696														8
9	40			697														9
10	30			698														10
11	20			699														11
12	10			700														12
13	0			701														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-IERP-LTL Spring 2011  
 STATION NO.: 134

CONSC CAST #		LATITUDE		LONGITUDE		DAY	MO	YR	HR	MIN	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		
289	5747	11	41	137	11	39	W	17	M	A	Y	1	1	2109	7.5	.	08	*	*	29	08	*	*	55	STKAD

REMARKS: *Card to 200m / 330*  
 MAX DEPTH = m

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Formalin glass	Glut- plastic	Micro zoops Lugol's	Ana A-1 FE	Whittaker-UR Diatoms	Comments	NIS No.
			SALT	Nut Btl	O2-Btl										
1	200	/		702										1	
2	150	/		703										2	
3	100	/		704			X							3	
4	75	/	241	705	X108									4	
5	50	/		706										5	
6	40	/		707										6	
7	30	/		708			X							7	
8	20	/		709										8	
9	10	/		710			X							9	
10	10	/												10	
11	5	/					X							11	
12	0	/												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-IERP-LTL Spring 2011  
 STATION NO.: 135

CONSC CAST # 49057111.93N  
 LATITUDE 13635.78W  
 DEGREE MIN DAY MO YR HR MIN  
 13 6 35 7 11 01 36  
 LONGITUDE 18 MAY 11 01 36  
 TIME (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN WIND SPD. CLOUD TYPE WEATHER  
 (C) (C) (mb) \* \* (deg) (kts) \* \* \* \*  
 7.1 10 282 11  
 BOTTOM DEPTH 1685  
 STA. NAME/ID SEG24  
 REMARKS: Iron cast - no bottle samples  
 50m ✓  
 250m ✓  
 300m at 6:15g ✓  
 330m ✓  
 365 (wind stop)  
 also remaining dry for marks on wire  
 150m ✓  
 275m ✓  
 boat out 19:40 (34 min)

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Formalin glass	Glut-plastic	Lugols-	FE	Whitaker-UR	Diatoms	Comments
			SALT	Nut. BH	O2-BH No										
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

SST= SSSal=

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2011  
 STATION NO.: 135

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
49152	11	76	N	3635	18	M	A	1	1	0315	7.0	11			085	11			1402	SEG 20

REMARKS: to 300m  
 MAX DEPTH = m

No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Formalin glass	Glut-plastic	Lugols-	Micro zoops	Ana A-1	Whittaker-UR	Diatoms	Comments	No.
			SALT	Nut:Btl	O2-Btl.No												
1	Bot			712	X215												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 = 8.51  
 SSSal = 31.99

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IRP-LTL Spring 2011  
 STATION NO.: 135

CONSC CAST # 0925711.63N  
 LATITUDE  
 DEGREE MIN  
 LONGITUDE 13635.94W  
 DEGREE MIN  
 DAY 17  
 MONTH MAY  
 YEAR 11  
 TIME (GMT) 0358  
 DRY BULB 7.1  
 WET BULB  
 PRESSURE 11  
 SEA STATE \*  
 VISIBILITY 303  
 WIND DIRN. (deg) 10  
 WIND SPD. (kts) \*  
 CLOUD (amt) \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 1717  
 STA. NAME/ID SEG24  
 SBE 9+ FLUOR S/N  
 PRESS SN SBE43-Oxy (prme)  
 PRI TEMP SN SBE43-Oxy (sec)  
 SEC TEMP SN Transmissometer  
 PRI COND SN PAR S/N  
 SEC COND SN O2 Trp Sensor No.

REMARKS: two 1-ltr bottles  
 SOW 1 75m  
 140m  
 SORT (30m)  
 21:35 OP  
 - DO CTD BOTTLES -

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kistan	Strom	Phyto	Micro zoops		Ana A-1	Whittaker-UR	Comments	NIS No.
			SALT	Nut:Bl	O2-BI:No				DIC/Alk	Chloro-I				
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-IERP-LTL Spring 2011  
 STATION NO.: 136

CONSC CAST # 0935716.93N  
 LATITUDE DEG MIN  
 DEGREE MIN 13619.84W  
 DAY MO YR 18 MAY 11  
 TIME (GMT) HR MIN 0628  
 DRY BULB (°C) 6.6  
 WET BULB (°C) .  
 PRESSURE (mb) 1.2  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 307  
 WIND SPD. (kts) 08  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 452  
 STA. NAME/ID SEGD

REMARKS: Cast to 200  
 MAX. DEPTH = m

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Krisian	Strom	Phyto	Formalin glass	Glut.-plastic	Micro zoops	Lugols-	Ana A-1	FE	Whittaker-LIR	Diatoms	Comments
			SALT	Nut:Btl	O2-Btl.No												
1	800	✓	242	723													
2	150	✓		724													
3	100	✓		725													
4	75	✓		726													
5	50	✓		727													
6	40	✓		728													
7	30	✓		729													
8	20	✓		730													
9	10	✓		731													
10	0	✓		732	X224												
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

SST = 847  
 SSSal = 32.005

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 137

CONSC	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
CAST #	DEG	MIN	DEG	MIN				HR	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	SE65
9457	19	46	N	136	12	25	W	18	MAY	11	717	7.2						131	
REMARKS																			
MAX DEPTH =																			

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto			Micro zoops	Ana A-1	Whittaker-UR	Comments	NIS No.
			SALT	Nut Btl	O2-Btl.No			DIC/Aik	Chloro-I	Formalin glass					
1	173	✓	213	733	222									1	
2	150	✓		734										2	
3	100	✓		735										3	
4	75	✓		736										4	
5	50	✓		737						104				5	
6	40			738						<del>10</del>				6	
7	30			739						103				7	
8	20			740						102				8	
9	10			741						101				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-IEP-LTL Spring 2011  
 STATION NO.: 138

CONSC CAST # 955721.94 N  
 LATITUDE 136 4.63 W  
 DEG MIN DAY MO YR HR MIN  
 18 MAY 11 0822  
 TIME (GMT) 5:50  
 DRY BULB 6.9  
 WET BULB .  
 PRESSURE 11  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. 355  
 WIND SPD. 06  
 CLOUD (amt) \*  
 WEATHER \*  
 BOTTOM DEPTH 107  
 STA. NAME/ID 5660

SE 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 S/N  
 O2 Trp Sensor No.  
 REMARKS: ① 10 ③ 60 ⑤ 85  
 5 DON Cast No 5 samples

N/S No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom	Phyto	Micro zoops	Ana A-I	Whitaker-JR	Comments	N/S No.
			Nut Btl	O2-Btl	No DIC/AIK							
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 = 7.799  
 SSSal = 31.532

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IEP-LTL Spring 2011  
 STATION NO.: 138

CONSC CAST # 9657  
 LATITUDE 21.94 N  
 DEGREE MIN  
 LONGITUDE 136 4.63 W  
 DEGREE MIN  
 TIME (GMT) 18 MAY 11 0904  
 HR MIN  
 DRY BULB 7.1 (°C)  
 WET BULB (°C)  
 PRESSURE 111 (mb)  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 005  
 WIND SPD. (kts) 4  
 CLOUD (amt) \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 106  
 STA. NAME/ID 5660

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 S/N \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_  
 REMARKS: Regular Cast after Fe Cast

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kristan	Strom	Phyto	Micro zoops		Ara-Al	Whittaker-JPL	Comments	NIS No.
			SALT	Nut.Btl	O2-Btl.No				DIC/Alk	Lugols-				
1	99			743										1
2	75			744										2
3	50			745					108					3
4	40			746										4
5	30			747					107					5
6	20			748					106					6
7	10			749					105					7
8	0			249	750	219								8
9	0													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-ERP-LTL Spring 2011  
 STATION NO.: 139

CONSC CAST # 97  
 DEG 57.23.28 N  
 LONGITUDE DEG 136.00.65 W  
 DAY 18  
 MO MAY  
 YR 11  
 HR 09  
 MIN 41  
 TIME (GMT)  
 DRY BULB 6.9 (°C)  
 WET BULB (°C)  
 PRESSURE 12 (mb)  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 304  
 WIND SPD. (kts) 2  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 57  
 STA. NAME/ID SE60a  
 MAX. DEPTH = m

SBE 9+  
 PRESS SN  
 PRI TEMP SN  
 SEC TEMP SN  
 PRI COND SN  
 SEC COND SN  
 FLUOR S/N  
 SBE43-Oxy (prme)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp Sensor No.

REMARKS

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Kistan	Strom	Phyto	Micro zoops			Whittaker-LR	Comments	NIS No.
			SALT	Nutr. Btl	O2-Btl. No				DIC/Alk	Glut	plastic			
1	45			751										1
2	30			752										2
3	20			753										3
4	10			754										4
5	0			755	037									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 = 7.266  
 SSSal = 31.496

VESSEL: R/V Thomas G. Thompson  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2011  
 STATION NO.: 140

CONSC CAST # 985652.80 N  
 LATITUDE 13 54 57.71 W  
 DEGREE MIN DAY MO YR HR MIN TIME (GMT) 18 MAY 11 1551  
 DRY BULB 7.2 (C)  
 WET BULB (C)  
 PRESSURE 102 (mb)  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 354  
 WIND SPD. (kts) 7  
 CLOUD (amt) \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 131  
 STA. NAME/ID 3605  
 REMARKS: Should be 283  
 MAX. DEPTH =

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL		Kristan D/C/Alk	Strom		Phyto		Micro zoops		Ana-Al	Whittaker-UR	Comments	NIS No.
			SALT	Nut Brl		O2-Btl No	Glucoc-1	Formalin glass	Gluc-plastic	Lugols-	FE				
1	0		246	756	223										1
2	7.5			759											2
3	50			759											3
4	40			759											4
5	30			760											5
6	30														6
7	20			760											7
8	10			762											8
9	10														9
10	0			762											10
11															11
12															12
13															13
14															14
15															15
16															16
17															17
18															18

SST = 7.931  
 SSSal = 31.685

10 30