

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IBP-LTL Spring 2013  
 STATION NO.: 5AK1

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
0160	00	43	N	149	22	05	APR	13	01	14	3.5			13			180	04			154	5AK1

REMARKS: *drifted from expected depth*

NIS No.	DEPTH DESIRED	ROSETTE NOTES	SALT	Nut. Btl	O2-Btl No.	Strom	Phyco	Formalin g/l	Gut.-plastic	Micro Zoops	Ara A-1	FE	Dean	Comments	NIS No.
1	BOT													5. temperature deep water	1
2															2
3															3
4															4
5															5
6	50														6
7	40														7
8	30														8
9	20														9
10	10														10
11	0														11
12															12

SST = 45  
 SSSal =

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: Fe TEST

CONSC CAST # 00258  
 LATITUDE 47.91 N  
 LONGITUDE 142.39 W  
 DAY 05 APR 13  
 TIME (GMT) 22:17  
 DRY BULB 2.8  
 WET BULB .  
 PRESSURE 01  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN 8  
 WIND SPD 709  
 CLOUD (amt) \*  
 WEATHER \*  
 BOTTOM DEPTH 3000  
 STA. NAME/ID F27051

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) \_\_\_\_\_  
 Transmittometer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_

REMARKS: This cast is to test the procedure for attaching the three metal vanes to the SBE 9+  
 Fe BUB at 10, 80 + 100m

No.	DEPTH DESIRED	Rosette Meters	Hydro Team - PMEL			Strom	Plyto	Micro zoops		Ana A-I	Dean	Comments	No.
			SALT	Nit. Br	O2-Btl. No			Chloro-l	Formalin g				
1	50											molecular sample	1
2	10			001								wal samp	2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12

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

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IEP-LTL Spring 2013  
 STATION NO.: SEMBO

CONSC CAST #	LATITUDE			LONGITUDE			TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
	DEG	MIN	SEC	DEG	MIN	SEC														DAY	MO	YR	HR	MIN
035205	20	53	N	137	28	74	W	06	A	P	13	16	18	2.6				95			7	20	14	SEMBO

SBE 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 PRT TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 PRT COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE43-Oxy (frame) \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 Transducer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 O2 Trip Sensor No. \_\_\_\_\_  
 REMARKS: \_\_\_\_\_  
 MAX. DEPTH = 137 m

Nbs No.	DEPTH DESIRED	Residual Name	Hydro Team-PNEL			Strom	Physio	Formalin g/l	Glut-plastic	Lugols-	Micro zoops	Ara A-1 FE	Dean	Comments	Nbs No.
			SALT	Nut. Bri	O2-BU.No										
1	Bot	137	2	003										1	
2	100			004										2	
3	75			005										3	
4	50			006										4	
5	40			007										5	
6	30			008										6	
7	80			009										7	
8	10			010						X				8	
9	10			011										9	
10	0			011										10	
11														11	
12														12	

SST= SSS=

VESSEL: MONASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO: 5EM10

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
00458	10	26	13	53	06	A	13	13	31	1331	3.7		96	*	*	84	24	*	*		125	5EM10

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

No.	DEPTH DESIRED	Rosetta Notes	Hydro Team-PMEL			Strom	Phyto	Micro zoops			Ana A-I	Dean	Comments	No.
			SALT	Nut. Bl	O2-Btl. No			Chloro-I	Formalin g	Glut. plastic				
1	30ft		3	12	292									1
2	100			13										2
3	35			14										3
4	50			15										4
5	40			16										5
6	30			17										6
7	80			18										7
8	10			19										8
9	0			20										9
10														10
11														11
12														12

SST = \_\_\_\_\_ SSSal = \_\_\_\_\_ 292

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IRP-LTL Spring 2013  
 STATION NO: 5EM5,0

CONC CAST # 0552  
 LATITUDE 2.59 N  
 LONGITUDE 137.04.98 W  
 DAY 06  
 MO APR  
 YR 13  
 TIME (GMT) 2025  
 DRY BULB 3.9  
 WET BULB .  
 PRESSURE 96  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. 067  
 WIND SPD. 19  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH 1095  
 STA. NAME/ID 5EM5,0

SBE 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_  
 REMARKS \_\_\_\_\_  
 MAX. DEPTH = \_\_\_\_\_ m

N/S No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PWEL		Strom Chloro-I	Phyto Formalin g	Micro zoops GIUT.-plastic Lugols-	Ana A-I FE	Dean	Comments	N/S No.
			SALT	Nut. BI							
1	Bot			21							1
2	100			22							2
3	75			23		54					3
4	50			24							4
5	40			25		56					5
6	30			26							6
7	20			27					X		7
8	20			27		58					8
9	10			28		59					9
10	0			29		510					10
11	0								X		11
12											12

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

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: SEM2.5

CONSC CAST # 0065813.83 N  
 LATITUDE 13700.87 W  
 DEGREE MIN DAY MO YR HR MIN  
 13 70 08 01 3 21 28  
 LONGITUDE  
 DEGREE MIN DAY MO YR HR MIN  
 13 70 08 01 3 21 28  
 TIME (GMT) 04.2  
 DRY BULB WET BULB  
 PRESSURE 97  
 SEA STATE \* \* \* \* \*  
 VISIBILITY \* \* \* \* \*  
 WIND DIRN. 073  
 WIND SPD. 19  
 CLOUD (amt) \* \* \* \* \*  
 TYPE \* \* \* \* \*  
 WEATHER \* \* \* \* \*  
 BOTTOM DEPTH 1315  
 STA. NAME/ID SEM2.5  
 MAX. DEPTH = m

SBE 9+ 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			Strom	Phyto	Formalin	glut.-plastic	Lugols-	Micro zoops	Ana A-1 FE	Dean	Comments	NIS No.
			SALT	Nur.Btl	O2-Btl.No										
1	100			31	29										1
2	75			32											2
3	50			33											3
4	40			34											4
5	30			35											5
6	20			36											6
7	10			37											7
8	0			38											8
9				39											9
10															10
11															11
12															12

SST= SSSat=

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO: SEMO

CONSC CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIR (deg)	WIND SPD (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0715815.00	N		136.516	87	02	APR	13	23	13	5.4		98			045	14			157	SEM0

SBE 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE-43-Oxy (prime) \_\_\_\_\_  
 SBE-43-Oxy (sec) \_\_\_\_\_  
 Transmissometer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 REMARKS: BIG BLOOM  
 FL = 9.70

Nbs	DEPTH	SALT	Nut BR	O2-B/L No	Strom	Ptyo	Formalin g/l	Glut. plastic	Lugols	Ana A-I	FE	Dean	Comments	Nbs
1	051	4	40		55									1
2	125		41											2
3	160		42											3
4	75		43											4
5	50		42.1		55									5
6	40		45		56									6
7	30		46		57									7
8	20		47		58									8
9	10		48		59									9
10	0		49	289	510									10
11														11
12														12

SST = 5.4  
 SSSat = 31.94

VESSEL NOASHIP OSCAR DYSON  
 CRUISE ID TN263  
 PROJECT & LEG GOA-IERP-LTL Spring 2013  
 STATION NO. SEM-25

CONC 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
0858	14	25	23	58	07	A	P	13	03	00	6.4	99			081	09			865	SEM-25

SBE 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 PRT TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 PRT COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE 43-Oxy (prime) \_\_\_\_\_  
 SBE 43-Oxy (sec) \_\_\_\_\_  
 Transmissometer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 O2 Trnp Sensor No. \_\_\_\_\_

NIS No.	DEPTH DESIRED	Hydro Team-PMEL			Strom			Phyto			Micro zoops			Ana A-I			Dean	Comments	NIS No.
		SALT	Nut Bit	O2-Btl.No	Chloro-I	Formain g	Gluc.-plastic	Lugols-	Ana A-I	FE									
1	100		50	288															1
2	50		51																2
3	40		52																3
4	30		53																4
5	20		54																5
6	10		55																6
7	0		56																7
8																			8
9																			9
10																			10
11																			11
12																			12

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



VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO. X51

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
00958	06	57	13	23	07	A	P	13	03	14	6.2	01			079	12			310	X51

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

Nbs No.	DEPTH DESIRED	Hydro Team-PMEL			Strom		Formalin g/l		Micro Zoopl		Ara A-1 FE	Dean	Comments	Nbs No.
		SALT	Nut Btl	O2-Btl No	Chloro-I	Formalin g/l	Gluc.-plastic Lugols-							
1	Bot		57			57								1
2	250		58											2
3	200		59											3
4	150		60											4
5	120		91											5
6	50		92			50								6
7	40		93			57								7
8	30		94			58								8
9	20		95			59								9
10	10		96			510								10
11	0		97			511								11
12														12

SST =  
 SSSal =  
 No label sheet found for 61-90 in gap

n/301



VESSEL: NOAHSHIP OSCAR DYSON  
 CRUISE ID: IN263  
 PROJECT & LEG: GOA-IRP-LTL Spring 2013  
 STATION NO.: X53

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 DIRNL (deg)	WIND SPD (Kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
Φ 1158	10	12	N	13037	32	W	2	A	P	R	1	3	003	27.8	.1	05					72	19	132	111

REMARKS: MAX DEPTH = 125 m  
 SBE 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 P/N TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 P/N COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 02 Temp Sensor No. \_\_\_\_\_

Nis No.	DEPTH DESIRED	Kosella Woods	Hydro Team-PNEL		Strom	Phyto	Micro zoopl	Ana A-I	Dean	Comments	Nis No.
			SALT	Nut Btl							
1	Bot			109							1
2	100			114							2
3	75			111							3
4	50			112							4
5	40			113							5
6	30			114							6
7	20			115							7
8	10			116							8
9	0			117							9
10	1			118							10
11	2			119							11
12	3			120							12

SST = \_\_\_\_\_  
 SSSal = \_\_\_\_\_  
 285

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IRP-LTL Spring 2013  
 STATION NO: 3670

CONSC CAST # 0125  
 LATITUDE 08.40 N  
 LONGITUDE 136.44 W  
 DAY: 7 APR 13  
 TIME (GMT): 1007  
 DRY BULB: 6.1  
 WET BULB: .  
 PRESSURE: 06  
 SEA STATE: \*  
 VISIBILITY: \*  
 WIND DIRN: 080  
 WIND SPD: 13  
 CLOUD (amt): \*  
 CLOUD TYPE: \*  
 WEATHER: \*  
 BOTTOM DEPTH: 161  
 STA. NAME/ID: 12

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)  
 Transmittometer  
 PAR S/N  
 02 Temp Sensor No.

No.	DEPTH DESIRED	Rosette Nodds			Hydro Team-PWEL			Strom	Plyto	Formalin g/l	Gut-plastic	Lugols-	Micro zoops	Ana A-I	FE	Dean	Comments	No.
		SALT	Nut.Btl	O2-Btl.No	Chloro-I	Formalin g/l	Gut-plastic											
1	6	93	118	284														1
2	7.5		119															2
3	SD		271															3
4	40		272															4
5	30		273															5
6	20		274															6
7	10		275															7
8	0		276															8
9																		9
10																		10
11																		11
12																		12

SST = 6 SSSal = 284

MAX DEPTH = 93 m



VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IRPLTL Spring 2013  
 STATION NO.: X572

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
145752	2	71	136	56	7	A	P	13	18	15	6.2	11	*	*	126	18			430	
REMARKS: MAX DEPTH = 439 m																				

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

Nbs No	DEPTH DESIRED	Rosetta Nokes			Hydro Team - PWEL		Strom	Plyto	Formalin g	Glut- plastic	Lugols-	Ana A-1	Dean	Comments	Nbs No
		SALT	Nut Bl	O2-Bit.No	Chloro-I	Micro zoops									
1	Bot	434	287	282	X										1
2	200		288												2
3	150		289												3
4	100		290												4
5	75		291												5
6	50		292												6
7	410		293												7
8	30		294												8
9	20		295												9
10	10		296												10
11	0		297												11
12															12

SST = \_\_\_\_\_ SSSAI = \_\_\_\_\_  
 chl  
 \* will measure filtered volume - may not be 135

Bottle broken

Prod expt  
 Prod expt

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: XST3

NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: XST3

CONSC CAST # 01557  
 LATITUDE 53.714 N  
 LONGITUDE 137.03.72 W  
 DAY 07  
 MO APR  
 YR 13  
 HR 20  
 MIN 04  
 DRY BULB 6.2  
 WET BULB .  
 PRESSURE 1.2  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN 132  
 WIND SPD 17  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH 935  
 STA. NAME/ID XST3  
 MAX DEPTH = m

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

No.	DEPTH DESIRED	Rozetta Notes	Hydro Team PMEL			Strom	Chloro-l	PhyTo	Formalin gl	Glut.-plastic	Lugols-	Micro zoops	Ara A-1	FE	Dean	Comments	No.
			Nut.Btl	O2-Btl.No													
1	301		299	281													1
2	301		300														2
3	100		301														3
4	150		302														4
5	100		303														5
6	50		304														6
7	40		305														7
8	30		306														8
9	20		307														9
10	10		308														10
11	0		309														11
12																	12

SST = SSSal =

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO: X574

CONSC CAST # 4165755  
 LATITUDE 18° 12.25' N  
 LONGITUDE 73° 07.13' W  
 DAY 07 APR 13  
 TIME (GMT) 21:59  
 DRY BULB 6.4  
 WET BULB .  
 PRESSURE 1.013  
 SEA STATE .  
 VISIBILITY .  
 WIND DIRN 158  
 WIND SPD 15  
 CLOUD (amt) .  
 WEATHER .  
 BOTTOM DEPTH (m) 52  
 STA. NAME/ID X574

SBE 9+ \_\_\_\_\_  
 SBE43-Oxy (p/parts) \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 Transmission \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_

REMARKS: Subtidal C/P Max 8-30 m

Nfs No.	DEPTH DESIRED	SALT	Hydro Team - P/WEL		Chloro- <i>a</i>	Pyro- <i>g</i>	Micro zoopl		Ana A-1	Dean	Comments	Nfs No.
			Nit. Blt	O2 Blt. No			Lugols-	Lugols-				
1	Bot	318										1
2	275	311										2
3	200	312										3
4	150	313										4
5	100	314										5
6	50	315										6
7	40	316										7
8	30	317										8
9	20	318										9
10	10	319										10
11	0	320										11
12												12

SST - SSS91-



VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IRP-LTL Spring 2013  
 STATION NO.: X575

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
017	57	56	44 N	137	20	610 W	07	APR	13	03	30	0330	6.7		14			143	16				168	X575

REMARKS: *Boat kept floating by hand. Use 10-30m.*

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) \_\_\_\_\_  
 Transducer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_

Nie No.	DEPTH DESIRED	Repetitive Meters	SALT	Hydro Team-P/MEL	Chloro-I	Strom	Physio	Formalin g	Glu.-Plastic	Micro zoopl.	Lugols-	Ana A-I	FE	Dean	Comments	Nis No.
1	125		321	279												1
2	160		323													2
3	75		324													3
4	50		325													4
5	40		326													5
6	30		327													6
7	25		328													7
8	10		329													8
9	5		330													9
10																10
11																11
12																12

SST = 5.99  
 SSSalt = 32.4

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: SEK20

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 DIRNL (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
018	5	7	47.62 N	3	7	11.41 W	08	A	P	13	01	54	6.0		1.3			162	14				2265	ERY20

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	Rosetta Notes	Hydro Team-PMEL			Strom		Phyto		Micro Zoops		Ana A-1 FE	Dean	Comments	Nis No
			SALT	Nut. Btl	O2-Btl No	Chloro-1	Formalin	glut.-plastic	Lugols-						
1	005	180									X			1	
2	150	150									X			2	
3	100	100									X			3	
4	50	50									X			4	
5	10	30									X			5	
6	10	15									X			6	
7	10													7	
8	10													8	
9	10													9	
10	10													10	
11	10													11	
12	10													12	

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

140  
90

VESSEL: NOA SHIP OSCAR DYSON  
 CRUISE ID: TNZ63  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: 5EKR00

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
01957147	87	N	13711.94	W	08	APR	13	03	23	5.9	13	15816											2245EKR00

REMARKS: Full CTD cast

SBE #4: \_\_\_\_\_  
 PRESS SN: \_\_\_\_\_  
 PRI TEMP SN: \_\_\_\_\_  
 SEC TEMP SN: \_\_\_\_\_  
 PRI COND SN: \_\_\_\_\_  
 SEC COND SN: \_\_\_\_\_  
 FLUOR S/N: \_\_\_\_\_  
 SBE43-Oxy (prme): \_\_\_\_\_  
 SBE43-Oxy (sec): \_\_\_\_\_  
 Transmission: \_\_\_\_\_  
 PAR S/N: \_\_\_\_\_  
 O2 Temp Sensor No.: \_\_\_\_\_

Nbr	No.	DEPTH DESIRED	SALT	Hydro Team-FMEL			Chloro-I	Pyro	Formalin g	Gut. plastic	Lugols-	Micro-zoope	Ana A-I	Dean	Comments	Nbr
				Nat.BI	O2-BILO	Hydro Team-FMEL										
1	180	180	331	182												1
2	150	150	332													2
3	150	150	333													3
4	150	150	334													4
5	75	75	335								X					5
6	50	50	336								X					6
7	40	40	337					57								7
8	30	30	338					58			X					8
9	20	20	339					59			X					9
10	10	10	340					510	X		X					10
11	0	0	341					511								11
12																12

SST = 26 SSS = 32

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO: SER10

CONSC CAST #	02057	LATITUDE	52.45 N	LONGITUDE	12655.18 W	DAY	08	MO	APR	YR	13	TIME (GMT)	0541	DRY BULB (°C)	5.8	WET BULB (°C)	.	PRESSURE (mb)	13	SEA STATE	*	VISIBILITY	*	WIND DIRN. (deg)	157	WIND SPD. (kts)	12	CLOUD (amt)	*	WEATHER	*	BOTTOM DEPTH (m)	9535	STA. NAME/ID	10
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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 Model	Hydro Team-PWEL			Strom	Prylo	Micro zoops		Ara A-I	Dean	Comments
			SALT	Nut Btl	O2-Btl No			Chloro-I	Formalin g			
1	65		10	342	132							
2	400			343								
3	300			344								
4	200			345								
5	100			346								
6	50			347								
7	40			348								
8	30			349								
9	20			350								
10	10			351								
11	0			352								
12												

SST = 5.85 SSSal = 32.15

MAX DEPTH = m

11975-5754.53 18647.02  
 04

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.																		
NOASHIP OSCAR DYSON		TN263		GOA-ERP-LTL Spring 2013		SEK 5																		
NOASHIP OSCAR DYSON		DY1304																						
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	
215755.0			13647.5			08	A	R	1	3	0855												SEK 5	SEK 5
SBE 9+		FLUOR S/N		SBE43-Oxy (pHme)		SBE43-Oxy (sec)		Transmissionmeter		PAR S/N		O2 Temp Sensor No.		REMARKS										
PRESS SN		SBE43-Oxy (pHme)		SBE43-Oxy (sec)		Transmissionmeter		PAR S/N		O2 Temp Sensor No.		Fe coat per Ana												
PRI TEMP SN		SBE43-Oxy (pHme)		SBE43-Oxy (sec)		Transmissionmeter		PAR S/N		O2 Temp Sensor No.														
SEC TEMP SN		SBE43-Oxy (pHme)		SBE43-Oxy (sec)		Transmissionmeter		PAR S/N		O2 Temp Sensor No.														
PRI COND SN		SBE43-Oxy (pHme)		SBE43-Oxy (sec)		Transmissionmeter		PAR S/N		O2 Temp Sensor No.														
SEC COND SN		SBE43-Oxy (pHme)		SBE43-Oxy (sec)		Transmissionmeter		PAR S/N		O2 Temp Sensor No.														
No.	DEPTH DESIRED	Hydro Team: PNEI		Siron		Phyto		Micro zoopl		Ana A-I		Dean		Comments		No.								
1		SALT	Nutr. BUI	O2-BIL/No	Chloro-I	Formalin gluat.	plastic	Lugols-	FE	Dean	Comments	1												
2												2												
3												3												
4												4												
5												5												
6												6												
7												7												
8												8												
9												9												
10												10												
11												11												
12												12												

SST= SSS= NO subsurfs this cast





Event log in Chl 21

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO																
NOASHIP OSCAR DYSON		DY1304		GOA-IERP-LTL Spring 2013		5620																
CONSC CAST #	LATITUDE		LONGITUDE		DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIR (deg)	WIND SPD (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
2357	57.30 N		15639.45 W		8	A	P	R	1	3	11	17	5.2	1.2	1.2	137	11				109	23
SEC 9+	REMARKS																					
PRESS SN	S9643-Oxy (prme)																					
PR1 TEMP SN	S9643-Oxy (sec)																					
SEC TEMP SN	Transmissometer																					
PR1 COND SN	PAR S/N																					
SEC COND SN	O2 Top Sensor No.																					
Nite No.		DEPTH	Desired	Hydro Team	FLUOR S/N	CHLORO-1	PRYLO	Formalin g/l	GLUT. PLASTIC	LOGGERS	Micro Zooge	ANA A-1	FE	Dean	Comments	Ns No.						
	1	5		11	363	S3					X					1						
	2	25			364	S4										2						
	3	50			365	S5					X					3						
	4	40			366	S6					X					4						
	5	30			367	S7					X					5						
	6	20			368	S8					X					6						
	7	10			369	S9					X					7						
	8	0			370	S0										8						
	9															9						
	10															10						
	11															11						
	12															12						

SST= SSSalt= 25.2

Discovered Te chests (tube bottomers) can find mysaliprid after cast - don't know how long this was here

MAX DEPTH = 700 m

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LT Spring 2013  
 STATION NO.: 55120

CONSC CAST # 245739  
 LATITUDE 137 21.34 W  
 DEGREE MIN DAY MO YR HR MIN  
 137 21.34 W 8 APR 13 1817  
 TIME (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN WIND SPD. CLOUD (amt) TYPE WEATHER  
 5.0 5.0 06 \* \* 13527 \* \* \* \*  
 BOTTOM DEPTH 1518  
 STA. NAME/ID

REMARKS: Prod cont for Suzanne  
 MAX DEPTH = 100 m

NIS No.	DEPTH DESIRED	Rosette Notes			Hydro Team-PWEL			Strom			Phyto			Micro zoops			Ana A-1 FE	Dean	Comments	NIS No.
		SALT	Nut. Blt	O2-Blt. No	* Chloro-l	Formalin gl	Gur.-plastic	Lugols-												
1	100		371																1	
2	75		372																2	
3	50		373				X												3	
4	40		374				X												4	
5	30		375				X												5	
6	20		376				X												6	
7	20																		7	
8	10						X												8	
9	10						X												9	
10	0																		10	
11																			11	
12																			12	

\* val to be measured during filtration

SST= SSSal=



VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO: 5E10

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
25573	9	61	N	36	21	W	10	A	P	13	16	50	11.0		13			209	07			20	PH

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) \_\_\_\_\_  
 Transmission \_\_\_\_\_  
 PAR S/N \_\_\_\_\_

REMARKS: Pod Cast for Suzanne

MAX DEPTH = 77 m

No.	DEPTH DESIRED	SALT	Hydro Team-P/MEL	Stron	Phyto	Micro Zoopl	Ana A-I	Dean	Comments	No.
		Nct. Bl	O2-Btl. No	Chloro-I	Formalin g	Gut. -Plastic	Lugols-	FE		
1	77	381	279	X						1
2	50	382		X						2
3	40	383		X						3
4	30	384		X						4
5	20	385		X						5
6	20			O					pod cap	6
7	10	386		X						7
8	10			X					pod cap	8
9	0	387		X					pod cap	9
10										10
11										11
12										12

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

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO: SE 620

CONSC CAST # 02657  
 LATITUDE 12.04 N  
 LONGITUDE 136.35.59 W  
 DAY 11  
 MO APR  
 YR 13  
 HR 07  
 MIN 22  
 DRY BULB 1.3  
 WET BULB .  
 PRESSURE 1.09  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. 232  
 WIND SPD. 1.4  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH 1.66  
 STA. NAME/ID

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  
 Collected Fe STD STD  
 16 bottles samples

No	DEPTH	ROSETTE NOTES	HYDRO TEAM - PMEL			Strom	Phyto	Micro zoops		Ana A-1	Dean	Comments	No
			SALT	Nut. Blt	O2-Blt No			Fornalin g	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

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

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IRP-LTL Spring 2013  
 STATION NO.: **SEC 24**

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
827	57	12	01 N	136	36	05 W	11	APR	13	09	06	0906	0.0	.	70	5		30	6	15			1680	

REMARKS: *Standard Cast*

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. \_\_\_\_\_

MAX. DEPTH = 472.0 m

Nis No.	DEPTH DESIRED	Hydro Team - P-MEL			Strom. Phys.			Micro zoopl.			Ana A-I	FE	Dean	Comments	Nis No.
		SALT	Nat. Btl	O2-Btl No	Chloro-I	Formalin g	Gut-Plastic	Lugols-	FE						
1	b	12	389											1	
2	300		390											2	
3	200		391											3	
4	100		392											4	
5	75		393											5	
6	50		394											6	
7	40		395				57							7	
8	30		396				58							8	
9	20		397				39							9	
10	10		398				SID	X	X	X				10	
11	0		399				S11							11	
12														12	

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

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO: 56610

CONSC CAST # 285716.94 N  
 LATITUDE 13620.42 W  
 LONGITUDE 11 APR 13  
 TIME (GMT) 12:07  
 DRY BULB (°C) 21  
 WET BULB (°C) 21  
 PRESSURE (mb) 1011  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN (deg) 069  
 WIND SPD (kts) 11  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 550  
 STA. NAME/ID

SBE 9+ FLUOR S/N  
 SBE43-Oxy (prime)  
 SBE43-Oxy (sec)  
 Transmissionometer  
 PAR S/N  
 O2 Temp Sensor No.  
 REMARKS: One bottle to test Amara's theory about why deep bottles not closing

NIS No	DEPTH DESIRED	Rosalie Notes	Hydro Team-PMEL			Strom			Micro zoops			Ana A-1 FE	Dean	Comments	NIS No
			SALT	Nut. Btl	O2-Btl/No	Chloro-1	Phyto	Formalin	glut.-plastic	Lugols-					
1															1
2															2
3															3
4															4
5															5
6															6
7															7
8															8
9															9
10															10
11															11
12															12

SST = SSSal =

VESSEL: **NOASHIP OSCAR DYSON** CRUISE ID: **IN263** PROJECT & LEG: **GOA-IEP-LT, Spring 2013** STATION NO.: **56610**

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 DIRNL (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER TYPE	BOTTOM DEPTH (m)	STA. NAME/ID	
02957	16	96	N	13	02	10	11	13	12	03	1.7		21		25	51	2				589	

SBE 9+ \_\_\_\_\_ FLUOR S/N \_\_\_\_\_  
 PRESS SN \_\_\_\_\_ SBE43 Oxy (prime) \_\_\_\_\_  
 P11 TEMP SN \_\_\_\_\_ SBE43 Oxy (sec) \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_ Transducer \_\_\_\_\_  
 P11 COND SN \_\_\_\_\_ PAR S/N \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_ O2 Temp Sensor No. \_\_\_\_\_

REMARKS: *Standard Cast*

MAX DEPTH = 500 m

NLS No.	DEPTH DESCRIBED	SALT	Hydro Team-PHEL		Strom	Phyco	Formalin g/l	Gut. plastic	Lugols	Micro zoopl	Ara A-I	FE	Dean	Comments	NLS No.
			Nut. Blt	OC-BU No											
1	500		401	281											1
2	300		402												2
3	200		403												3
4	100		404												4
5	75		405												5
6	50		406						X						6
7	40		407												7
8	30		408						X						8
9	20		409						X						9
10	10		410						X						10
11	0		411												11
12															12

SST= \_\_\_\_\_ SSS= \_\_\_\_\_

VESSEL: **NOASHIP OSCAR DYSON** CRUISE ID: **TN263** PROJECT & LEG: **GOA-ERP-LTL Spring 2013** STATION NO.: **5650**

CONSC CAST #: **305719** LATITUDE: **52°N** LONGITUDE: **136°12'43"W** DAY: **11** MO: **A** YR: **13** TIME (GMT): **1426** DRY BULB (°C): **20** WET BULB (°C): **17** PRESSURE (mb): **22** SEA STATE: **2** VISIBILITY: **24** WIND DIRN. (deg): **210** WIND SPD. (kts): **10** CLOUD (amt): **17** WEATHER: **177** BOTTOM DEPTH (m): **177** STA. NAME/ID: **158**

SBE 9+ \_\_\_\_\_ FLUOR S/N \_\_\_\_\_ REMARKS: **Fa Cast No Samples**  
 PRESS SN \_\_\_\_\_ SBE43-Oxy (prime) \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_ SBE43-Oxy (sec) \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_ Transmissionmeter \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_ PAR S/N \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_ O2 Temp Sensor No. \_\_\_\_\_

Nis No.	DEPTH DESIRED	Rosetta Notes	Hydro Team-PMEL			Strom			Phyto			Micro zoops			Ana A-1 FE	Dean	Comments	Nis No.
			SALT	Nut. Bri	O2-Bri.No	Chloro-l	Formalin g	Glut.-plastic	Lugols-									
1																	1	
2																	2	
3																	3	
4																	4	
5																	5	
6																	6	
7																	7	
8																	8	
9																	9	
10																	10	
11																	11	
12																	12	

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

62

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: *SEGS*

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 DIRNL (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
315719		20	N	136	11	11	A	P	R	13	15	58	1.8		22		243	12			176	

SIB 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. \_\_\_\_\_

REMARKS: *Standard cast*

MAX DEPTH = 160 m

Nis No.	DEPTH DESIRED	SALT	Hydro Team-PH&L		Stromb	Phylo	Micro zoopl		Ana A-I	Dean	Comments	Nis No.
			NAT.BRI	O2-BRI.No			Chloro-l	Formalin g/Luc-plastic Lugols-				
1	170	13	412									1
2	150		413									2
3	100		414									3
4	75		415									4
5	50		416					X				5
6	40		417									6
7	30		418					X				7
8	20		419					X				8
9	10		420					X				9
10	0		421	222								10
11												11
12												12

SST= \_\_\_\_\_ SSSal= *28.2*

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: 5E60

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
3257	22	01	N	136	4	11	APR	13	17	32		11.2		22	*	*	170	10	*	*		162	

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: Prod Cast buoyane  
 MAX DEPTH = 95 m

No.	DEPTH DESIGNED	Rozette Notes	Hydro Team-PMEL			Strom	Phyto	Formalin g	Glut.-plastic	Lugols-	Micro zoops	Ana A-I	FE	Dean	Comments	No.
			SALT	Nit. Bl	O2-Btl No											
1	6			422	(283)											1
2	7.5			423												2
3	10			424			X									3
4	10			425			X									4
5	30			426			X									5
6	20															6
7	20			427			X									7
8	10															8
9	10			428			X									9
10	0			429			X									10
11																11
12																12

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



VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: 5600A

CONUSC 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 DRN (deg)	WIND SPD (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
3357	23	10	N	18	00	15	W	41	A	13	15	00	1.8		28			201	10				55	

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

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

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

Nis No.	DEPTH DESIRED	Hydro Team PAEL			Stron	Phyco	Micro zoopl		Ana A-I	Dean	Comments	Nis No.
		SALT	Nut.BI	O2-BI/No			Formalin g/l	Glut -plastic				
1	50		430									1
2	40		431									2
3	30		432									3
4	20		433									4
5	10		434									5
6	0		435	284								6
7												7
8												8
9												9
10												10
11												11
12												12

SST = \_\_\_\_\_  
 SSSsal = \_\_\_\_\_  
 284

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-FERP-LTL Spring 2013  
 STATION NO.: SED0

CONSC CAST # 4345655.28 N  
 LATITUDE DEG MIN 3538.25 W  
 DAY 13  
 MO APR  
 YR 13  
 TIME (GMT) HR MIN 303  
 DRY BULB (°C) 1.5  
 WET BULB (°C) .  
 PRESSURE (mb) 06  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN (deg) 00  
 WIND SPD (kts) 18  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 99  
 STA. NAME/ID SED0

REMARKS: hi chl temp 20  
 O2 chem dispensers 15 OH sticking

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom	Phyto	Formalin g	Glut.-plastic	Micro zoops	Ana A-1	Dean	Comments	Nis No.
			SALT	Nit. BI	O2-BILO									
1	20	RO1	436	437	279								1	
2	75												2	
3	50		438	439		33							3	
4	40		439			54							4	
5	30		440			35							5	
6	20		441			56							6	
7	10		442			57							7	
8	0		443			58							8	
9													9	
10													10	
11													11	
12													12	

SST = SSSal =

VESEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: **SEDS**

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
635	56	53	08	N	13	APR	13	05	04	0504	6.4		02			272	13			130	SEDS

REMARKS: *On clean water dispenser sticking badly*

SBE 9+ \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE43-Oxy (prime) \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 P10 TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 TRANSMISSOMETER \_\_\_\_\_  
 P10 COND SN \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_

NLS No.	DEPTH DESIRED	SALT	Hydro Team-PWEL		Storm	Phyto	Formalin g/L	Micro zoops	Lugols	Ana A-I	Dean	Comments	NLS No.
			Nut Bri	O2-BRI No									
1	Bot		444	286									1
2	106		445										2
3	75		446									<i>Leaker Top cap did not seal</i>	3
4	50		447										4
5	40		448										5
6	30		449										6
7	20		450										7
8	16		451						X				8
9	0		452										9
10													10
11													11
12													12

SST = 6.27  
 SSSalt = 32.03

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO: SED 14

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	
036	56	50	17 N	135	53	48 W	13	APR	13	06	51		51.5		09	*	*	32	47	7	*	*	174	SED/C

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 \_\_\_\_\_

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom Chloro-l	Phyto Formalin g	Micro zoops Glut.-plastic Lugols-	Ara A-1 FE	Dean	Comments	Nis No.
			SALT	Nutr. Bl	O2-Btl.No							
1	6031			453	287							1
2	150			454								2
3	100			455								3
4	75			456								4
5	50			457								5
6	40			458								6
7	30			459								7
8	20			460								8
9	10			461								9
10	5			462								10
11												11
12												12

SST = 4.1  
 SSSal = 32.00

Do O<sub>2</sub> at 1000m

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.																
NOASHIP OSCAR DYSON		DY1304		GOA-IERPLTL Spring 2013		SEDR0																
CONSC	LATITUDE	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
037	5645.18 N	13	36	8	95	13	A	P	R	13	0920	5.4		11			33	120			1510	SEDR0
SBE 9+	FLUOR S/N	REMARKS																				
PRESS SN	SBE43-Oxy (prime)	Doo p 'at'																				
PAR TEMP SN	SBE43-Oxy (sec)																					
SFC TEMP SN	Transmissometer																					
PAR COND SN	PAR S/N																					
SFC COND SN	O2 Temp Sensor No.																					
No.	DEPTH	Hydro Team-PMEL		Strom		Micro zoops		Ana A-1	Dean	Comments		No.										
	DESIRED	SALT	Nut. Bl	O2-Btl.No	Chloro-I	Formalin g	Glut.-plastic	Lugols-														
1	Bot	16	464	088								1										
2	100		465	089								2										
3	253		466	090								3										
4	520		467	091								4										
5	100		468									5										
6	50		469		S6							6										
7	42		470		S7							7										
8	30		471		S8							8										
9	20		472		S9							9										
10	10		473		S10			X				10										
11	0		474		S11							11										
12												12										

SST= SSSal=

MAX DEPTH = 1501 m

VESSEL: NO SHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO: 5667.5

CONSC CAST # 03857  
 LATITUDE 7 00.65 N  
 LONGITUDE 135 58.70 W  
 DAY 13 APR 13  
 TIME (GMT) 1652  
 DRY BULB 5.3  
 WET BULB .  
 PRESSURE 14  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN 36  
 WIND SPD 9  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH 90  
 STA. NAME/ID  
 MAX DEPTH = 85 m

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 02 Temp Sensor No.

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom	Phyto	Micro zoops	Ana A-1	Dean	Comments	Nis No.
			SALT	Nut. Bl	O2-Bl. No							
1	Bot			475								1
2	75			476								2
3	50			477								3
4	10			478								4
5	30			479								5
6	20			480								6
7	20			480								7
8	10			481								8
9	10			481								9
10	0			482								10
11	0			482								11
12												12

SST =  
 SSS =  
 13m to surface

not used water

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IRP-LTL Spring 2013  
 STATION NO.: SEA20

CONSC CAST # 0375618  
 LATITUDE 18.60 N  
 DEG MIN  
 LONGITUDE 75.11 W  
 DEG MIN  
 DAY 14  
 MO APR  
 YR 13  
 TIME (GMT) 0930  
 DRY BULB 4.0  
 WET BULB .  
 PRESSURE 19  
 SEA STATE 5  
 VISIBILITY 3  
 WIND DRN. 33  
 WIND SPD. 10  
 CLOUD (amt) TYPE WEATHER  
 BOTTOM DEPTH 9875  
 STA. NAME/ID 561820

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) \_\_\_\_\_  
 Transmission \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_

No	DEPTH DESIRED	Hydro Team-PMEL			Strom		Plyto		Micro Zoopl		Ana A-I	FE	Dean	Comments	No
		SALT	Nit. Blt	O2-Btl.No	Chlor.-I	Formalin g/l	Gluc.-Plastic	Lugols-							
1															1
2															2
3															3
4															4
5															5
6															6
7															7
8															8
9															9
10															10
11															11
12															12

SST= SSSal=

12  
 162  
 262  
 362  
 412  
 462  
 482  
 497  
 512  
 482  
 50  
 532

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO: SE420

CONSC CAST # 405612  
 DEGREE MIN 12.98 N  
 DEGREE MIN 13542.58 W  
 DAY 19  
 MO APR  
 YR 13  
 TIME (GMT) 1120  
 DRY BULB 3.8  
 WET BULB  
 PRESSURE 1020  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 359  
 WIND SPD. (kts) 12  
 CLOUD (amt) \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 1021410  
 STA. NAME/ID SE420

REMARKS: Full hydro out  
 Niskind hung up, did not close  
 MAX DEPTH = 1021410

No.	DEPTH DESIRED	Rosette Index	Hydro Team-PMEL		Strom Chloro-1	Phyto Formalin g	Micro zoops Glut- plastic Lugols-	Ara A-1 FE	Dean	Comments	No.
			SALT	Nut. Bri							
1	Bot		17	484	293						1
2	7.50			485	897						2
3	5.00			484							3
4	2.50			487							4
5	1.00			488							5
6	5.0			489		S6					6
7	1.0			490		S7					7
8	3.0			491		S8					8
9	2.0			492		S9					9
10	1.0			493		S10	X	X		N/D	10
11	0			494		S11					11
12											12

SST =  
 SSSal =



VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IEP-LTL Spring 2013  
 STATION NO.: SEA 10 (47)

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
04115623		03	135206		14	APR	13	14	56		4.3		20			320	15			1745	SEA 10

REMARKS: \_\_\_\_\_  
 SBE 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE43-Oxy (pHme) \_\_\_\_\_  
 SBE43-Oxy (Sec) \_\_\_\_\_  
 Transmissometer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_

No	DEPTH DESIRED	SALT	Hydro Team-PWEL		Chlor-I	Formalin g/l	Gluc.-plastic	Lugols-	Ara A-1	FE	Dean	Comments	No.
			Nut Btl	O2-Btl No									
1	Bot 170		495										1
2	150		496										2
3	100		497										3
4	75		498										4
5	50		499		S5			X					5
6	40		500		S6								6
7	30		501		S7			X					7
8	20		502		S8			X					8
9	10		503		S9	22	20	X					9
10	0		504	146	S10								10
11													11
12													12

SST = \_\_\_\_\_ SSS41 = \_\_\_\_\_

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO: 42

CONSC CAST # 42  
 DEG 56.26  
 MIN 46  
 LONGITUDE DEG 35.19  
 MIN 95  
 DAY 19  
 MO APR  
 YR 13  
 TIME (GMT) 1640  
 DRY BULB (°C) 5.3  
 WET BULB (°C) .  
 PRESSURE (mb) 81  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN (deg) 318  
 WIND SPD (kts) 0.8  
 CLOUD (amt) \*  
 TYPE WEATHER \*  
 BOTTOM DEPTH (m) 122  
 STA. NAME/ID SEAS

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

Nis No.	DEPTH DESIRED	ROSETTE NOTES	Hydro Team-PMEL			Stron Chloro-I	Phyto Formalin	Glut-plastic	Micro zoops Lugols	Ana A-I FB	Dean	Comments	Nis No.
			SALT	Nit.BrI	O2-Btl.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

SST = SSSal =

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IRP-LTL Spring 2013  
 STATION NO.:

CONC	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
	4356	26	45	13	51	9	APR	13	17	40	4.9	.	21	3	5	9	06				1.23	SEAS

SBE 0+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE43-Oxy (prime) \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 Transducer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 O2 Trip Sensor No. \_\_\_\_\_

REMARKS: Standard + Prod

MAX. DEPTH = 118 m

No.	DEPTH	DESIGNED	SALT	Nut. Bl	O2-Btl. No	Strom	Phyto	Formalin g	Glut. -plastic	Macro zoopl.	Lugols-	Amo A-I	FE	Dean	Comments	Nfs
1	10		18	505	132	X										1
2	15			506		X										2
3	50			507		X				X						3
4	40			508		X										4
5	30			509		X				X						5
6	20			510		X				X						6
7	10			511		X				X					Prod	7
8	10			512		X									Prod	8
9	0			513		X									Prod	9
10	0														Dean	10
11	0															11
12	0															12

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

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: 3545

CONSC CAST #	445626.42	LATITUDE DEG	MIN	42	N	LONGITUDE DEG	MIN	13519.86	DAY	14	MO	APR	YR	13	TIME (GMT) HR	18	MIN	23	DRY BULB (°C)	4.3	WET BULB (°C)		PRESSURE (mb)	1022	SEA STATE	*	VISIBILITY	*	WIND DIRN. (deg)	354	WIND SPD. (kts)	07	CLOUD (amt)	*	TYPE	*	WEATHER	*	BOTTOM DEPTH (m)	18.7	STA. NAME/ID	
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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. \_\_\_\_\_

REMARKS: Fe-2 to cover missing depth

No	DEPTH DESIRED	Rogette Makes	Hydro Team-PMEL			Strom	Pyro	Micro zoops		Ana A-I	Dean	Comments	No
			SALT	Nut.Btl	O2-Btl.No			Formalin g	Gluc.-plastic Lugols-				
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12

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

VESEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IBP-LTL Spring 2013  
 STATION NO: 58A0

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	
15	56	29	02 N	135	12	44 W	14	A	P	R	13	20	08	5.7		22			30	6	07		142	58A0

No.	DEPTH DESIRED	SALT	Hydro Team-PWEL		Strom		Phyco		Micro Zoopl		Ana A-I	FE	Dean	Comments	No.
			Nut Btl	O2-Btl No	Chloro-I	Formalin g	Gut.-plastic	Lugols-							
1	100		513	182											1
2	75		514												2
3	50		515												3
4	25		516												4
5	10		517												5
6	0		518												6
7	0		519												7
8	0		520												8
9	0		521												9
10															10
11															11
12															12

SST = 6.11      SSSal = 31.95

REMARKS

MAX. DEPTH =

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: MN263  
 PROJECT & LEG: GOA-IRP-LTL Spring 2013  
 STATION NO.: CST1

CONSEC CAST #: 0465610  
 LATITUDE: 13 41 N  
 LONGITUDE: 134 19.34 W  
 DAY: 15  
 MO: APR  
 YR: 13  
 TIME (GMT): 0626  
 DRY BULB: .  
 WET BULB: .  
 PRESSURE: .  
 SEA STATE: .  
 VISIBILITY: .  
 WIND DIRN: .  
 WIND SPD: .  
 CLOUD (amt): .  
 TYPE: .  
 WEATHER: .  
 BOTTOM DEPTH: 139  
 STA. NAME/ID: CST1  
 MAX DEPTH = 131 m

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

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PAEL		Strom	Plyto	Micro zoops	Ana A-I	Dean	Comments	NIS No.
			SALT	N/C-BI							
1	85			522							1
2	100			523							2
3	75			524							3
4	50			525							4
5	40			526							5
6	30			527							6
7	20			528							7
8	10			529							8
9	0			530							9
10											10
11											11
12											12

SST = 4.35  
 SSSal = 32.04

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: CST 2

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	56	10.65	N	134	23	6	W	15	A	P	R	13	02	11									480	CST 2

SBE 9+ \_\_\_\_\_ FLUOR S/N \_\_\_\_\_  
 PRESS SN \_\_\_\_\_ SBE43-Oxy (prime) \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_ SBE43-Oxy (sec) \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_ Transmissometer \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_ PAR S/N \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_ O2 Temp Sensor No. \_\_\_\_\_  
 REMARKS: \_\_\_\_\_  
 MAX DEPTH = 402 m

Nis No.	DEPTH DESIRED	Hydro Team-PWEL			Storm Choro-I	Phyco		Ana A-I	Dean	Comments	Nis No.
		SALT	Nut. Blt	O2-Blt. No		Formalin g/l	Micro Zoopl. Lugols-				
1	301		531	255							1
2	350		532								2
3	250		533								3
4	150		534								4
5	100		535								5
6	50		536								6
7	40		537								7
8	30		538								8
9	20		539								9
10	10		540								10
11	0		541								11
12											12

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

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: 573 48

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
048	56	10.93	N	134	27	5	15	A	13	10	02											573	573

REMARKS: No chlorophylls

MAX DEPTH = 575 m

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team - PAEL	Strom	Phyco	Micro zoops	Ana A-I	Dean	Comments	NIS No.
1	0		542							1
2	30		543							2
3	250		544							3
4	150		545							4
5	100		546							5
6	50		547							6
7	40		548							7
8	30		549							8
9	20		550							9
10	10		551							10
11	0		552							11
12										12

SST = SSSal =



VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: C574 (49)

CONC	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	
	49	56	10.87	N	134	33	6	11	15	APR	13	12	18									559	K574

SBE 9+ \_\_\_\_\_ FLUOR S/N \_\_\_\_\_  
 PRESS SN \_\_\_\_\_ SBE43-Oxy (prime) \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_ SBE43-Oxy (sec) \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_ Transducer \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_ PAR S/N \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_ O2 Temp Sensor No. \_\_\_\_\_  
 REMARKS: \_\_\_\_\_  
 MAX DEPTH = 550 m

Nie No.	DEPTH DESIRED	Salinity	Hydro Team-P&EL	Strom	Phyto	Formalin gl	Gluc.-plastic	Micro zoopl.	Lugols-	Ana A-I	FE	Dean	Comments	Nis No.
1	0	553	300											1
2	30	554												2
3	20	555												3
4	150	556												4
5	100	557												5
6	50	558												6
7	40	559			L7									7
8	30	560			L8									8
9	20	561			L9									9
10	10	562			L10	X	X	X						10
11	0	563			L11									11
12														12

SST = SSSal =

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-4TL Spring 2013  
 STATION NO.: 0575 50

CONSC CAST #	5056	LATITUDE DEG	11.08	MIN	08	N	LONGITUDE DEG	34	MIN	37	W	DAY	15	MO	APR	YR	13	TIME (GMT) HR	14	MIN	20	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

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. \_\_\_\_\_

REMARKS: *no chlorophyll sample*

No	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL		Strom	Phyto	Micro zoopl	Ara A-1	Dean	Comments	No
			SALT	Ntr:Bi							
1	150		20	564	296						1
2	250			565							2
3	150			566							3
4	100			567							4
5	75			568							5
6	50			569							6
7	40			570							7
8	30			571							8
9	20			572							9
10	10			573							10
11	0			574							11
12											12

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

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO: SE 410

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
05151608		49	N	136	13	16	15	APR	13	23	12	5.1			30			N/A	N/A			23905	SE 410

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: No NUMERICAL CTD Cast Bot 500m

Nis No.	DEPTH DESIRED	Rozette Notes	Hydro Team-PMEL			Strom Chloro-l	Phyto Formalin g	Micro zoops Glut.-plastic Lugols-	Ana A-1 FE	Dean	Comments	Nis No.
			Nut. Bl	O2-Btl.No	SALT							
1	60		575	229								1
2	350		576									2
3	200		577									3
4	100		578									4
5	75		579							1L molecular		5
6	50		580							1L molecular		6
7	40		581									7
8	30		582							1L molecular		8
9	20		583									9
10	10		584							1L molecular		10
11	0		585									11
12												12

SST = 6.4 SSSal = 32.52

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO: **SEH46**

CONC	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	
	525608	13	55	13	60	16	A	13	08	19											2590	SEH46

REMARKS: *To Cast*  
*Upcast is separate file 052B*

SBE 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 P/TI TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 P/TI COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_

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

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

No.	DEPTH DESIRED	Observed Net	SALT	NUC.BI	O2-BTL.No	Strom	Phyto	Micro zoopl	Ana A-I	Dean	Comments	No.
1	500											1
2	300											2
3	200											3
4	100											4
5	75											5
6	50											6
7	30											7
8	0											8
9												9
10												10
11												11
12												12

SST = \_\_\_\_\_  
 SSSM = \_\_\_\_\_

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.:

CONSC CAST #	DEG	LATITUDE MIN	DEG	LONGITUDE MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIR (deg)	WIND SPD (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
53	56	18.48	N	135.42	00	W	16	A	P	R	13	03	05	4.1	.	31	.	.	.	309	06	10135E420

SSE 9+  
 PRESS SN  
 PRI TEMP SN  
 SEC TEMP SN  
 PRI COND SN  
 SEC COND SN  
 SEC COMID SN  
 FLUOR S/N  
 SSE43-Oxy (prime)  
 SSE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp Sensor No.

Nis No.	DEPTH DESIRED	SALT	Hydro Team-PWEL		Strom	Chloro-I	Phyto	Formalin	Gluc-	plastic	Lugols-	Micro Zoopl	Ana A-I	FE	Dean	Comments	Nis No.
			Nut. Blt	O2-Btl No													
1	500		586														1
2	300		587														2
3	150		588														3
4	75		589														4
5	50		590														5
6	40		591														6
7																	7
8	30		592														8
9	20		593														9
10	10		594														10
11	0		595														11
12																	12

SST = 6.1  
 SSSal = 32.0?

driftstar deployed at end of cast  
 111976 10-Apr-2013 06:42  
 56 18.72  
 135 42.51

No Btl on STD

Cast to 500m to make full  
 multi-transect cast

119973 deployed after Multinet  
 56 50.564 136 07.083  
 0523 16 April (local)

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TNZ63  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: SED20 54

CONSC	CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	545	64	5.25	136	08.72	16	APR	13	10	35	41.0	.	310	*	*	148	02	*	*	1490	SE020

REMARKS: For Multinet Row  
 MAX DEPTH = 500 m

Nis	DEPTH	Rosette Notes	Hydro Team-PMEL			Strom	Phyco	Micro zoops		Ana A-1	FE	Dean	Comments	Nis
			DESIRED	SALT	Nut Btl			O2-Btl No	Formalin g					
1	500		22	596	281								1	
2	350			597									2	
3	200			598									3	
4	100			599									4	
5	50			600			L5						5	
6	40			601			L6						6	
7	30			602			L8					No b o t t l e	7	
8	20			603			L9						8	
9	10			604			L10						9	
10	0			605			L11						10	
11													11	
12													12	

111974  
 102542

SST = SSSal =

VESSEL: NOA SHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: 55-  
 55604

CONC	CAST #	DEG	MIN	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	
55	57	23	06	N	13	00	53	W	16	A	P	13	16	48	2	8	27	1	200	8			60	55604

SBE 9+ \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE43-Oxy (prime) \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 SBE43-Oxy (sec) \_\_\_\_\_  
 PBI TEMP SN \_\_\_\_\_  
 Transmission \_\_\_\_\_  
 PBI COND SN \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_  
 REMARKS: No Chlor Sample  
 MAX DEPTH = 55 m

Nis	DEPTH	Rosette Notes	Hydro Team-PMEL		Strom	Phyto	Micro zoops		Ana A-1	Dean	Comments	Nis
			NO	DESIRED			Nuc. Bl	O2-BLIND				
1	08	55	SAID	607	4							1
2	40			608								2
3	30			609								3
4	20			610								4
5	10			611								5
6	0			612	252							6
7												7
8												8
9												9
10												10
11												11
12												12

SST = \_\_\_\_\_ SSSal = \_\_\_\_\_  
 606 Underway sample

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: 56

CONSC CAST # 5657  
 LATITUDE 22.04 N  
 DEGREE MIN  
 LONGITUDE 136.04 W  
 DEGREE MIN  
 DAY MONTH YEAR 13 APR 13  
 TIME (GMT) 17:23  
 HR MIN  
 DRY BULB 28.8  
 WET BULB .  
 PRESSURE 27  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN 156  
 WIND SPD. 12  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH 98  
 STA. NAME/ID 5660  
 MAX DEPTH = m

SBE 9+ FLUOR S/N  
 PRESS SN SBE-43-Oxy (prime)  
 PRI TEMP SN SBE-43-Oxy (sec)  
 SEC TEMP SN Transmissometer  
 PRI COND SN PAR S/N  
 SEC COND SN Q2 Temp Sensor No.

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Chloro-l	Phyto	Micro zoops	Ana A-l	Dean	Comments	Nis No.
			SALT	Nut. Bit	O2-Btl No							
1	B			613	283							1
2	75			614								2
3	50			615		X						3
4	40			616		X						4
5	30			617		X						5
6	20			618		X						6
7	20			618		X						7
8	10			619		X						8
9	10			619		X						9
10	0			620		X						10
11												11
12												12

SST = SSSal =

REMARKS: 1 Rod Cast 93



VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: 57

CONSC CAST # 05762  
 LATITUDE 19.61 N  
 LONGITUDE 13611.98 W  
 DAY 16  
 MO APR  
 YR 13  
 TIME (GMT) 18:03  
 DRY BULB (°C) 30  
 WET BULB (°C) .  
 PRESSURE (mb) 26  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 157  
 WIND SPD. (kts) 14  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 175  
 STA. NAME/ID BEG5  
 MAX DEPTH = 172 m

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) \_\_\_\_\_  
 Transmission \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 Q2 Temp Sensor No. \_\_\_\_\_

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PWEL			Strom	Plyro	Formalin g	Glut.-plastic	Lugols-	Micro zoops	Ana A-I	FE	Dean	Comments	Nis No.
			SALT	Nut Btl	O2-Btl No											
1	13	172	23	621	284										1	
2	160			622											2	
3	75			623											3	
4	50			624											4	
5	40			625											5	
6	30			626											6	
7	20			627											7	
8	10			628											8	
9	0			629											9	
10															10	
11															11	
12															12	

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

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IRP-LTL Spring 2013  
 STATION NO.: 58610 58

CONSC: 0585717.08 N  
 CAST #: 13619.88 W  
 LATITUDE: 13619.88 W  
 LONGITUDE: 16 APR 13  
 TIME (GMT): 19:22.5  
 DRY BULB: 26  
 WET BULB: 26  
 PRESSURE: 1016.1  
 SEA STATE: \*  
 VISIBILITY: \*  
 WIND DIRN: 146  
 WIND SPD: 10  
 CLOUD (amt): \*  
 TYPE: \*  
 WEATHER: \*  
 BOTTOM DEPTH: 386  
 STA. NAME/ID: 58610

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

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PWEL			Strom	Phylo	Micro zoops		Ana A-1	FE	Dean	Comments	Nis No.
			SALT	Nut. Btl	O2-Btl No			Chloro-I	Formalin g/l					
1	B			630									1	
2	300			631									2	
3	200			632									3	
4	100			633									4	
5	75			634									5	
6	50			635									6	
7	40			636									7	
8	30			637									8	
9	20			638									9	
10	10			639									10	
11	0			640									11	
12				285									12	

SST = SSSal =

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: 59

CONC	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	
059	57	12	00	136	35	55	W	16	A	P	13	20	55	21.8		24						1458	516620

REMARKS: *For cast*

SB43-Oxy (prime) \_\_\_\_\_  
 SB43-Oxy (sec) \_\_\_\_\_  
 Transmissometer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom	Phyco	Micro zoops		Ana A-1	Dean	Comments	Nis No.
			SALT	Nut Btl	O2-Btl No			Formalin g/l	Gut. -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

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

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.:

CONSC CAST # 605712.17N 13653.96W 16 APR 13 2244 3.3 . 22 15326 16051624  
 DEG MIN DEG MIN DAY MO YR HR MIN (°C) (°C) (mb) \* \* (deg) (kts) \* \* (m)  
 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

SBE 9+ \_\_\_\_\_ FLUOR S/N \_\_\_\_\_  
 PRESS SN \_\_\_\_\_ SBE43-Oxy (prime) 904  
 PRI TEMP SN \_\_\_\_\_ SBE43-Oxy (sec) (910) not used  
 SEC TEMP SN \_\_\_\_\_ Transmissometer  
 PRI COND SN \_\_\_\_\_ PAR S/N \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_ O2 Temp Sensor No. \_\_\_\_\_

REMARKS: TAP + CAP noisy from bottom up to 655 cm upcast  
 MAX. DEPTH = m

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL		Strom Chloro-l	Phyto Formalin g/L		Micro zoops Lugols-		Ana A-l FE	Dean	Comments	NIS No.
			SALT	Nutr.Btl		O2-Btl.No	Glut.-plastic	Lugols-					
1	66	bet											1
2	1022											No Sample - Bottle Drained	2
3	500												3
4	300												4
5	100												5
6	50												6
7	40												7
8	30												8
9	20												9
10	10												10
11	0												11
12													12

SST = 6.14 SSSal = 32.34

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.:

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 DRN (deg)	WIND SPD (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0611	57	29	N	136	58	W	17	A	13	05	30		3.3		22			153	26			16	SEK11D

REMARKS: Big Bottle 30m  
 MAX DEPTH =

No.	DEPTH DESIRED	Rosette Notes	SALT	Nut. Btl	O2-Btl No	Strom	Phyto	Formalin g/l	Gluc.-plastic	Micro zoops	Lugols	Ana A-l	FE	Dean	Comments	No.
1	15			652	088											1
2	15			653												2
3	50			654												3
4	40			655												4
5	30			656												5
6	20			657												6
7	10			658												7
8	0			659											bottles broke	8
9																9
10																10
11																11
12																12

SST = SSS =  
 Markers on bottles are wrong - to be corrected

VESSEL: NOA SHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-REP-LTL Spring 2013  
 STATION NO.:

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
06257	58	24	136	47	15	W	17	A	P	R	13	34	6	4.2	12	252	17	155	SKS	SKS	155	SKS

REMARKS: NISKIN 7 TOOKED  
 MAX DEPTH = 118 m

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom	Phyto	Micro zoops		Ana A-I FE	Dean	Comments	Nis No.
			SALT	Nut. Btl	O2-Btl No			Formalin q	Glut.-Plastic				
1	Bot			660	289							1	
2	100			661								2	
3	75			662								3	
4	50			663								4	
5	40			664								5	
6	30			665								6	
7	20			666								7	
8	10			667							bottle SB broke	8	
9	0			668								9	
10												10	
11												11	
12												12	

SST = SSSal =

Draft 11974 Dep 57 51.986 136 54.624  
 4/17/2013 15:05 GMT

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.																	
NOA SHIP OSCAR DYSON		TN263		GOA-IERP-LTL Spring 2013		SER10 63																	
NOA SHIP OSCAR DYSON		DY1304		GOA-IERP-LTL Spring 2013		SER10 63																	
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)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	063	57	52.43	136	55.01	17	APR	13	14	49	4.4		12			260	13				454	SER10	
SBE 9+		FLUOR S/N		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		SEC COND SN		O2 Temp Sensor No.		REMARKS						MAX DEPTH = 450 m	
PRESS SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		SEC COND SN		O2 Temp Sensor No.		REMARKS									
PRI TEMP SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		SEC COND SN		O2 Temp Sensor No.		REMARKS									
SEC TEMP SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		SEC COND SN		O2 Temp Sensor No.		REMARKS									
PRI COND SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		SEC COND SN		O2 Temp Sensor No.		REMARKS									
SEC COND SN		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		SEC COND SN		O2 Temp Sensor No.		REMARKS									
NIS	DEPTH	Rosette Notes		Hydro Team-PWEL		Strom		Plyro		Micro zoops		Ana A-1		Dean		Comments						NIS	No.
	DESIRED			SALT		Nut.Btl		O2-Btl.No		Chloro-I		Formalin g		Gut.-plastic		Lugols-							
1	6	450		25		669																1	1
2	300					671																2	2
3	200					672																3	3
4	150					673																4	4
5	100					674																5	5
6	50					675				S6												6	6
7	40					676				S7												7	7
8	30					677				S2												8	8
9	20					678				S9												9	9
10	10					679				S10												10	10
11	0					680		290		S11												11	11
12																						12	12

SST = 29.0 SSSal = 39.0  
 Nutrient bottle 670 unnecessary  
 669 wasnt needed cuz 62, 50 there  
 is a gap

in bottom lower  
 sensor offset 20 on upcast

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN283  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: 56120

CONSC CAST # 1045747  
 LATITUDE 13° 57' 47" N  
 LONGITUDE 73° 21' 43" W  
 DAY: 7 APR 13  
 TIME (GMT): 1641  
 DRY BULB (°C): 14  
 WET BULB (°C): 14  
 PRESSURE (mb): 1014  
 SEA STATE: 5  
 VISIBILITY: 25  
 WIND DIRN (deg): 91  
 WIND SPD. (kts): 14  
 CLOUD (amt): 28  
 CLOUD TYPE: 14  
 WEATHER: 14  
 BOTTOM DEPTH (m): 263  
 STA. NAME/ID: 1045747

SEC 9+  
 SBE 43-Oxy (prime)  
 SBE 43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 Q2 Temp Sensor No.  
 REMARKS: MAX DEPTH = 249 m

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PWEL			Strom Chloro-I	Phyto Formalin g/l	Micro zoops Glut- plastic Lugols-	Ana A-I FE	Dean	Comments	Nis No.
			SALT	Nut Btl	O2 Btl No							
1	249			691	291							1
2	150			692								2
3	100			693								3
4	50			694								4
5	40			695								5
6	30			696								6
7	20			697								7
8	10			698						prod		8
9	10			698						prod		9
10	0			699								10
11	0			699								11
12												12

SST =  
 SSSal =  
 Lost labels 681-690



VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: 5123065

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	
	65	13	42.50	N	72	72	W	12	A	P	13	19	35	3.9		17		023	09			2018	5123065

REMARKS: No Fluor or PAR  
 1250  
 1250

Nis	DEPTH	Rosette Notes	Hydro Team-PMEL			Strom	Phyto	Micro zoops		Ana A-I	FE	Dean	Comments	Nis
			SALT	Nut Btl	O2-Btl No			Formalin g/l	Gut.-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

SST = SSSal =

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.:

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
665742		42	N	13730		08	17	A	13	21	22		4.3		18	*	*	289	14	*	*	*	2159	SEK 30

REMARKS: No Filter or PAR  
 MAX DEPTH = m

SBP 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	SALT	Nut Bri	O2-Bri No	Strom	Phyto	Formalin g/l	Glut.-plastic	Micro zoops	Lugols-	Ana A-I	FE	Dean	Comments	Nis No.
1	300L		26	740	292											1
2	1500			761	293											2
3	1000			752												3
4	300L			743												4
5	150			744												5
6	50			745												6
7	40			746												7
8	30			747												8
9	20			748												9
10	10			749												10
11	0			714												11
12																12

SST = 5.95  
 SSSal = 31.97  
 Sal = 29.2

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: SEM-2.5

CONSC CAST #	DEG	LATITUDE	DEG	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
067581	14.21	N	3052.85	W	18	A	13	05	22		3.9	.	24	*	*	254	11	*	*	*	89	SEM-2.5

REMARKS: \_\_\_\_\_  
 MAX DEPTH = \_\_\_\_\_

SBE 9+  
 FILLUR S/N  
 SBE43-Oxy (prime)  
 PRESS SN  
 SBE43-Oxy (sec)  
 PRT TEMP SN  
 SEC TEMP SN  
 Transmissometer  
 PRT COND SN  
 PAR S/N  
 SEC COND SN  
 Q2 Temp Sensor No.

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL		Strom	Phyco	Formalin g	Glut.-plastic	Micro zoops	Lugols-	Ana A-1	FE	Dean	Comments	Nis No.
			SALT	Nut.Bri											
1	Bot			711										1	
2	50			712										2	
3	40			713										3	
4	30			714										4	
5	20			715										5	
6	10			716										6	
7	0			717										7	
8														8	
9														9	
10														10	
11														11	
12														12	

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

VESSEL: NOA SHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: SEMD

CONSC CAST # 06858  
 LATITUDE 19.02 N  
 LONGITUDE 136.56 W  
 DAY 18 APR 13  
 TIME (GMT) 05:04  
 DRY BULB (°C) 20  
 WET BULB (°C) 20  
 PRESSURE (mb) 20  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN (deg) 259  
 WIND SPD (kts) 15  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 150  
 STA. NAME/ID SEMD

SBE 9+ \_\_\_\_\_  
 PRESS SN \_\_\_\_\_  
 PRI TEMP SN \_\_\_\_\_  
 SEC TEMP SN \_\_\_\_\_  
 PRI COND SN \_\_\_\_\_  
 SEC COND SN \_\_\_\_\_  
 FLUOR S/N \_\_\_\_\_  
 SBE-43-Oxy (pHme) \_\_\_\_\_  
 SBE-43-Oxy (sec) \_\_\_\_\_  
 Transmissometer \_\_\_\_\_  
 PAR S/N \_\_\_\_\_  
 O2 Temp Sensor No. \_\_\_\_\_

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PVEL		Strom	Phyto	Micro zoops	Ana A-I	Dean	Comments	Nis No.
			SALT	Nut. Btl							
1	60			718		LL9					1
2	100			719							2
3	75			720							3
4	50			721		S4					4
5	40			722		S5					5
6	30			723		S6					6
7	20			724		S7					7
8	10			725		S12					8
9	0			726		S9					9
10											10
11											11
12											12

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

REMARKS: NISKIN4 and 9 eaked

VESSEL: NOA SHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: SEM 2.5

CONC: 6958  
 CAST #: 13.71 N  
 DEG: 18601.01 W  
 DAY: 18 APR 13  
 TIME (GMT): 0643  
 DRY BULB: 4.1  
 WET BULB: .  
 PRESSURE: 20  
 SEA STATE: \*  
 VISIBILITY: \*  
 WIND DIRN: 246  
 WIND SPD: 8  
 CLOUD (amt): \*  
 WEATHER: \*  
 BOTTOM DEPTH: 1335  
 STA. NAME/ID: 42.5

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.

N/S	DEPTH	Rosette Notes	Hydro Team-PMEL			Strom			Pyro			Micro zoops			Ana A-I	Dean	Comments	N/S
			SALT	Nut Bit	O2-Bit No	Chloro-I	Formalin g/l	Glut.-plastic	Lugols-	FE								
1	1000	Bait		727													1	
2	750			729													2	
3	500			730													3	
4	300			731													4	
5	100			732													5	
6	0			733													6	
7	0			734													7	
8	0			735													8	
9	0			131													9	
10																	10	
11																	11	
12																	12	

SST=

SSSal=

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: SEM5

CONSC: 705  
 CAST #: 012  
 LATITUDE: 13° 05' 60" N  
 DEGREE: 13  
 MINUTE: 05  
 SECOND: 00  
 LONGITUDE: 78° 13' 07" W  
 DEGREE: 78  
 MINUTE: 13  
 SECOND: 07  
 TIME (GMT): 07:21  
 DRY BULB: 4.1  
 WET BULB: .  
 PRESSURE: 29  
 SEA STATE: \*  
 VISIBILITY: \*  
 WIND DIRN: 299  
 WIND SPD: 07  
 CLOUD (amt): \*  
 TYPE: \*  
 WEATHER: \*  
 BOTTOM DEPTH: 128  
 STA. NAME/ID: SEM5

REMARKS: NISKIN 9 leaked a little  
 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			Strom	Phyto	Micro zoops		Ana A-1	Dean	Comments	Nis No
			SALT	Nut.Bt	O2-Bt.No			Chloro-l	Formalin q				
1	100	BOSS		736	146								1
2	150			737									2
3	150			738									3
4	50			739									4
5	40			740									5
6	30			741									6
7	20			742									7
8	10			743									8
9	0			744									9
10													10
11													11
12													12

SST = SSSal =

VESSEL: NOA SHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-HERP-LTL Spring 2013  
 STATION NO.: SEMID 071

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
7158	10	33	N	137	12	18	A	13	0	16	0416	4.0	.	20	*	*	255	9	*	*	*	124	SEMID

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-PWEL			Strom		Phyto		Micro zoops		Ana A-I	Dean	Comments	Nis No.
			SALT	Nut. Btl	O2-Btl No	Chloro-I	Formalin g/l	Glut.-plastic	Lugols-	FE					
1	100		27	745	182									1	
2	75			747										2	
3	50			748										3	
4	40			749										4	
5	30			750										5	
6	20			751										6	
7	10			752										7	
8	0			753	X									8	
9														9	
10														10	
11														11	
12														12	

SST = SSS =

Removal vent closed

Removal vent closed

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LT Spring 2013  
 STATION NO.: SEM20 7a

CONSC CAST # 7a  
 LATITUDE 18° 05' 54" N  
 DEGREE MIN  
 LONGITUDE 73° 29' 16" W  
 DEGREE MIN  
 DAY 18  
 MO APR  
 YR 13  
 TIME (GMT) 0944  
 HR MIN  
 DRY BULB 4.1  
 WET BULB .1  
 PRESSURE 1.9  
 (mb)  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRLN (deg) 229  
 WIND SPD (kts) 0.8  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 1405  
 STA. NAME/ID SEM20

SBE 9+ FLUOR S/N  
 SBE 43-Oxy (umme)  
 SBE 43-Oxy (sec)  
 SBE 43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp Sensor No.  
 REMARKS  
 MAX. DEPTH = 133 m

No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom		Phyto		Micro zoops		Ana A-I FE	Dean	Comments	No.
			SALT	Nut. Bit	O2-BU.No	Chloro-I	Formalin gl	Glut.-plastic	Lugols-						
1	6			755											1
2	100			756											2
3	75			757											3
4	50			758											4
5	40			759											5
6	30			760											6
7	20			761											7
8	10			762											8
9	0			763											9
10															10
11															11
12															12

SST = SSSal =



*Fair weather Ground*

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IRP-LTL Spring 2013  
 STATION NO.: 73

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	
73	25	26	N	135	00	25	W	18	A	13	17	29	21.3		16	*	31	31	17	*			16	FGa

REMARKS: *Prod Cast*

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

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom	Phyco	Micro zoops		Ana A-1 FE	Dean	Comments	Nis No.
			SALT	Nut Btl	O2-Btl No			Formalin g	Gluc. -plastic Lugols-				
1	6	80	28	764	244	X						1	
2	50			765		X						2	
3	40			766		X						3	
4	30			767		X						4	
5	20			768		X						5	
6	10					-						6	
7	0			769		X						7	
8	0											8	
9	0			770		X						9	
10												10	
11												11	
12												12	

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

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: 74

CONSC CAST # 745847  
 LATITUDE 14 04 7.85 N  
 LONGITUDE 19 04 7.67 W  
 DATE 19 APR 13  
 TIME (GMT) 1225  
 DRY BULB 3.2  
 WET BULB .  
 PRESSURE 1012.0  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN 266  
 WIND SPD 03  
 CLOUD (amt) \*  
 WEATHER \*  
 BOTTOM DEPTH 205  
 STA. NAME/ID Y8C50

REMARKS: Fe Cast No bottles

Nis	DEPTH	Rosette Notes	Hydro Team-PIEL	Strom	Phyto	Micro zoops	Ara A-I	Dean	Comments	Nis	
No.	DESIRED		SALT	Nut Btl	O2-Btl No	Chloro-I	Formalin g	Gut.-Plastic	Lugol's-	FE	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

SST = SSS =



VESSEL: NOA SHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: 76

CONSC CAST # 765856  
 LATITUDE 18 N  
 DEGREE MIN  
 LONGITUDE 14037.24 W  
 DEGREE MIN  
 DAY MONTH YEAR 19 APR 13  
 TIME (GMT) 1600  
 DRY BULB (C) 5.6  
 WET BULB (C) .  
 PRESSURE (mb) 21  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 079  
 WIND SPD. (kts) 61  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 186  
 STA. NAME/ID YBC40

REMARKS: MAX DEPTH = 180 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.

Nts	DEPTH	Rosette Notes	Hydro Team-PWEL		Strom	Phyto	Micro zoops		Ana A-I	Dean	Comments	Nts
			SALT	Nut.Btl			O2-Btl.No	Formalin g/l				
1	13		29	782								1
2	150			783								2
3	100			784								3
4	75			785								4
5	50			786								5
6	40			787								6
7	30			788								7
8	20			789								8
9	10			790								9
10	0			791								10
11												11
12												12

SST = 25.4  
 SSSal = 25.4

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: 77

CONSC CAST # 775903  
 LATITUDE 14 02 30.69 N  
 LONGITUDE 14 02 30.68 W  
 DAY 19 APR 13  
 TIME (GMT) 1757  
 DRY BULB 4.7  
 WET BULB .  
 PRESSURE 28  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 127  
 WIND SPD. (kts) 01  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 145  
 STA. NAME/ID YBC30

REMARKS: Prod Cast  
 MAX. DEPTH = 140 m

NIS No.	DEPTH DESCRIBED	Rosette Notes		Hydro Team-PWEL		Strom	Pyro	Micro zoops		Ana A-I	FE	Dean	Comments	NIS No.
		SALT	Nut. Blt	O2-Blt. No	Chloro-I			Formalin g	Glut.-plastic					
1	3		140		792	255		X						1
2	100				793									2
3	75				794			X						3
4	52				795			X						4
5	40				796			X						5
6	30				797			X						6
7	20		PROD		798			X					Prod	7
8	20				798			X						8
9	10		PROD		799			X					Prod	9
10	10				799			X						10
11	0				800			X						11
12														12

SST= SSSal=

VESSEL: NOA SHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: 78

CONSC CAST # 7859  
 LATITUDE 03.71 N  
 LONGITUDE 14026.73 W  
 TIME (GMT) 19 APR 13 1835  
 DRY BULB 3.6  
 WET BULB .  
 PRESSURE 22  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN 111  
 WIND SPD 18  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH 145  
 STA. NAME/ID Y8C30

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-FWEL			Strom	Phyto	Micro zoops		Ana A-I	Dean	Comments	Nis No.
			SALT	Nut.BI	O2-Btl.No			Formalin q	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

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

FE Cast

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

VESSEL: NOA SHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-HERP-LTL Spring 2013  
 STATION NO.: 79

CONSC CAST # 795912.83 N  
 LATITUDE 14014.4 W  
 DEG MIN DAY MO YR HR MIN TIME (GMT) 21 51  
 DRY BULB 4.5  
 WET BULB .  
 PRESSURE 24  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN 164  
 WIND SPD 6  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH 123  
 STA. NAME/ID 78620

SBE 9+ FLUOR S/N  
 SBE43-Oxy (p/ime)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp Sensor No.  
 REMARKS: Emergency stop needed - hit bottom

Nis No.	DEPTH DESIRED	Rosette Notes			Hydro Team-PWEL			Strom	Phyto		Micro zoops		Ana A-1	FE	Dean	Comments	Nis No.
		SALT	Nut Bri	O2-Bri No	Formalin g	Gut.-plastic	Lugols-										
1	501	30	801			X											1
2	751		802														2
3	501		803			X											3
4	501		804			X	L										4
5	401		805			X											5
6	301		806			X											6
7	201		807			X											7
8	101		808			X											8
9	0		809	262													9
10																	10
11																	11
12																	12

SST =

SSSal =

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.:

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)	WIND CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
845921	17	N	14003.96	W	20	A	P	13	00	05		4.2		25			23	2				164	YBC-14

REMARKS: Fe Cast - 5 new samplers  
 MAX. DEPTH =

NIS No.	DEPTH DESIRED	Rosette Notes	SALT	Nutr. Btl	O2-Btl No	Strom Chloro-I	Phyto Formalin gl	Micro zoops Gluc.-plastic Lugols-	Ana A-I FE	Dean	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

SST= SSSa=



VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: Y13C10

CONSC CAST # 0815921.03N  
 LATITUDE 14004.06W  
 DEGREE MIN DAY MO YR HR MIN  
 24 APR 13 01 22 4.2  
 TIME (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN WIND SPD. CLOUD (amt) TYPE WEATHER  
 25 \* \* \* \* \*  
 9 5 \* \* \* \* \*  
 (deg) (kts) (m) (m)  
 BOTTOM DEPTH STA. NAME/ID  
 163YBC10

REMARKS  
 Spherulites day - Vial of mucus  
 Deep water high S + Neoplus

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom		Phyco		Micro zoops		Ana A-I	FE	Dean	Comments	Nis No.
			SALT	Nut. Btl	O2-Btl No	Chloro-I	Formalin g/l	Gluc.-plastic	Lugol's							
1	Bot			810	275										1	
2	125			811											2	
3	105			812											3	
4	75			813											4	
5	50			814			X			79					5	
6	40			815			X								6	
7	30			816			X			78					7	
8	20			817			X			77				Label lost, duct tape	8	
9	10			818			X			37 38 76					9	
10	0			819			X								10	
11															11	
12															12	

SST = SSSal =  
 Fluorometer did ~ 55 m coming back up  
 Drifter after barge 111974

20-Apr-2013 02:59  
 59 21.55  
 140 43.54

Label

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-HERP-LTL Spring 2013  
 STATION NO.:

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
0825929	29	49 N	395	075 W	20	A	13	03	29	ST.2			25	*	*	044	00	*	*	77	YBCφ V8C0

REMARKS:  
 Imbalance near Yelakot  
 Chl=13  
 G1 looks bad

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom			Phyto		Micro zoops		Ana A-I FE	Dean	Comments	NIS No.
			SALT	Nut Btl	O2-Btl No	Chloro-I	Formalin g	Glut.-plastic	Lugols-							
1	800			820	2955		X			X						1
2	500			821			X									2
3	400			822			X									3
4	300			823			X			X						4
5	200			824			X			X						5
6	100			825			X			X						6
7	0			826			X									7
8																8
9																9
10																10
11																11
12																12

SST=  
 SSSal=

Drift Area 122542 at ~ 48C50  
 58 50.04 140 46.52  
 20 Nov 2013 1809 GMT

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.														
NOASHIP OSCAR DYSON		DY1304		GOA-ERP-LTL Spring 2013		YBC50/83														
CONSC	LATITUDE		LONGITUDE		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	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	
835247	39	N	14053	56	20	A	13	16	42	4.5		30			08510				233	
SBE 9+	FLUOR S/N		SBE43-Oxy (prime)		SBE43-Oxy (sec)		Transmissometer		PAR S/N		O2 Temp Sensor No.		REMARKS							
PRESS SN											Red Cool, not to depth									
PRI TEMP SN																				
SEC TEMP SN																				
PRI COND SN																				
SEC COND SN																				
Ns	DEPTH	Rosette Notes	Hydro Team-PMEL	Strom	Phyto	Micro zoops	Ana A-I	FE	Dean	Comments										
No.	DESIRED		SALT	NUT.Btl	O2-BU.No	Formalin g	Glut.-plastic	Lugols-												No.
1	100																			1
2	75																			2
3	50								X											3
4	40								X											4
5	30								X											5
6	30								-											6
7	20								X											7
8	10								X											8
9	10								X											9
10	0								X											10
11																				11
12																				12

SST = SSSal =

O<sub>2</sub>-T<sub>50</sub> / S<sub>1</sub>-B<sub>1</sub>

VESSEL NOASHIP OSCAR DYSON		CRUISE ID TN263		PROJECT & LEG GOA-IERP-LTL Spring 2013		STATION NO.				
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)				
845858.43 N		14121.52 W		2 APR 13		2152.510				
DEG	MIN	DEG	MIN	DAY	MO	YR	HR			
SBE 9+		FLUOR S/N		REMARKS						
PRESS SN		SBE43-Oxy (pHme)		MAX DEPTH =						
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	Rosette Notes	Hydro Team-PMEL	Strom	Phyto	Micro zoops	Ana A-I	Dean	Comments	Nis No.
	DESIRED		SALT	Chloro-I	Formalin g	Gut.-plastic	Lugol's	FE		
1	560		31							1
2	400		838							2
3	300		839							3
4	150		840	X						4
5	50		841	X						5
6	40		842	X						6
7	30		843	X						7
8	20		844	X						8
9	15		845	X						9
10	10		846	X						10
11	0		296							11
12										12

SST = 5.6

SSSal = 32.37

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO: 118540

CONSC CAST # 0855906.91 N  
 LATITUDE 14 11.22 W  
 DEGREE MIN DAY MO YR HR MIN  
 21 APR 13 01 26  
 TIME (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. WIND SPD. CLOUD (amt) WEATHER  
 5.5 . 02 \* \* (deg) (kts) \* \* (m)

REMARKS: MAX DEPTH =  
 SBE 9+ FLUOR S/N  
 SBE43-Oxy (prime)  
 SBE43-Oxy (sec)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 Q2 Temp Sensor No.

NIS No.	DEPTH DESCRIBED	Reset/Notes	MUTS Hydro Team-PV/E/L	Nut. Btl	O2-Btl No	Strom	Pyro	Formalin g/l	Gluc- plastic	Lugols-	Micro zoops	Ana A-1	FE	Dean	Comments	NIS No.
1	Reset				344											1
2	175			848												2
3	125			849												3
4	75			850												4
5	50			851												5
6	40			852												6
7	30			853												7
8	20			854												8
9	10			856												9
10	0			852												10
11																11
12																12

SSSai = 32.41  
 not bottle 855 empty  
 Caud - Briny fluorometer cable



VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: XBE30

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)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
08759	15	01	N 141	00	74	W	21	A	P	13	0458	3.8	.	31	*	357	08			177	XBE30

REMARKS: On the way up at ~150 m, all depths were plankton toophy, then bluewater.

SBE 9+ FLUOR S/N  
 PRESS SN SBE43-0xy (prine)  
 PRI TEMP SN SBE43-0xy (sec)  
 SEC TEMP SN Transmissometer  
 PRI COND SN PAR S/N  
 SEC COND SN O2 Temp Sensor No.

NIS No.	DEPTH DESIRED	Rosetta Notes	SALT	Nut. Btl	O2-Btl No.	Strom	Phyto	Formalin g/l	Glut. -plastic	Micro zoops	Lugols-	Ara A-I	FE	Dean	Comments	NIS No.
1	Bot		32	859												1
2	135			860												2
3	75			861												3
4	50			862												4
5	40			863												5
6	30			864												6
7	20			865												7
8	10			866												8
9	0			867	303											9
10																10
11																11
12																12

SST = SSS =

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IRP-LTL Spring 2013  
 STATION NO.: YBE20

CONSC CAST # 0885923.18 N  
 LATITUDE 14 24 9.86 W  
 DEGREE MIN DAY MO YR HR MIN TIME (GMT) 306  
 DEGREE MIN LONGITUDE 21 APR 13 306 3.9  
 DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN. WIND SPD. CLOUD (amt) TYPE WEATHER  
 (C) (C) (mb) \* \* (deg) (kts) \* \* \* \* \*  
 32 \* \* 003 05 \* \* \* \* \*  
 BOTTOM DEPTH STA. NAME/ID  
 (m) (m)  
 154 YBE20

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 DESCRIBED	Rosette Notes	Hydro Team-PWEL			Strom	Phyco	Micro zoops		Ana A-I	Dean	Comments	NIS No.
			SALT	Nut. Blt	O2-Blt No			Chloro-I	Formalin g/L				
1	051			808	304							1	
2	100			869								2	
3	151			870								3	
4	501			871								4	
5	401			873			S5					5	
6	301			873			S6					6	
7	201			874			S7					7	
8	101			875			S12					8	
9	01			876			S9					9	
10												10	
11												11	
12												12	

SST = 3  
 SSSal = 32.15

MAX DEPTH = m



VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IBRP-LTL Spring 2013  
 STATION NO.:

CONSC CAST # 8957931.70 N  
 LATITUDE 14039.25 W  
 DEGREE MIN DAY MO YR HR MIN  
 21 APR 13 09 04  
 TIME (GMT) DRY BULB WET BULB PRESSURE SEA STATE VISIBILITY WIND DIRN WIND SPD CLOUD (amt) WEATHER  
 2.5 . 32 \* \* 04707 \* \* \* \*  
 (°C) (°C) (mb) (deg) (kts) (m)  
 BOTTOM DEPTH STA. NAME/ID  
 272 YBE 14

SBE 9+ FLUOR S/N  
 SBE 43-Oxy (prime)  
 SBE 43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp sensor No.  
 REMARKS: MAX DEPTH = 264 m

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom Chloro-I	Phyto Formalin gl	Micro zoops Lugols-	Ana A-I FE	Dean	Comments	Nis No.
			SALT	Nut Btl	O2-Btl No							
1	13	264	33	878	279							1
2	200			879								2
3	120			880								3
4	100			881								4
5	75			882								5
6	50			883								6
7	40			884								7
8	30			885								8
9	20			886								9
10	10			887								10
11	0			888								11
12												12

SST=

SSS=

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: 90

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	
90	14	03	1	72	21	A	13	11	11	0.9		32			053	08					178	Y8E95

REMARKS: MAX DEPTH = 173 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 \_\_\_\_\_ Q2 Temp Sensor No. \_\_\_\_\_

NIS No.	DEPTH DESIRED	Rosette Notes	SALT	Nut Btl	Q2-Btl No	Strom	Phyto	Formalin g	Gut.-plastic	Micro zoops	Lugols-	Ana A-I	FE	Dean	Comments	NIS No.
1	13			889	270											1
2	130			890												2
3	100			891												3
4	75			892												4
5	50			893												5
6	40			894												6
7	30			895												7
8	20			896												8
9	10			897												9
10	0			898												10
11																11
12																12

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

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: 91

CONSC CAST # 915915.21 N  
 LATITUDE 141 00.67 W  
 DAY 21 APR 13  
 TIME (GMT) 17:17  
 DRY BULB 4.7  
 WET BULB .  
 PRESSURE 38  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. 137  
 WIND SPD. 08  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH 175  
 STA. NAME/ID YB30/YTX0

REMARKS: *Prod Cast*  
 MAX DEPTH = 171 m

Nis No	DEPTH DESIRED	Rosette Notes			Hydro Team-PWEL			Strom		Phyto		Micro zoops		Ara A-1	FE	Dean	Comments	Nis No
		SALT	Nut Blt	O2-Blt.No	Chloro-I	Formalin g	Gut.-plastic	Lugols-										
1	3	34	899	281														1
2	100		900															2
3	75		901															3
4	50		902															4
5	40		903															5
6	30		904															6
7	20		905															7
8	20		<del>906</del>															8
9	10		906															9
10	10																	10
11	0		907															11
12																		12

SST = SSSal =

VESSEL: NOA SHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-HERP-LTL Spring 2013  
 STATION NO.: 92

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
9259	17	24	N	141	06	21	APR	13	18	11	1811	6.0	.	32	*	*	143	07	*	*	*	260	YT201

REMARKS: MAX DEPTH = 195 m

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		Strom		Phyto		Micro zoops		Ana A-I	Dean	Comments	Nis No.
			SALT	Nut. Btl	O2-Btl No	Chloro-I	Formalin g/l	Gut.-plastic	Lugols-	FE				
1	B	195		908										1
2	150			909										2
3	100			910										3
4	75			911										4
5	50			912										5
6	40			913										6
7	20			914										7
8	20			915										8
9	10			916										9
10	10			917		282								10
11														11
12														12

SST = \_\_\_\_\_ SSS = \_\_\_\_\_

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-HERP-LTL Spring 2013  
 STATION NO.: 93

CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
9359	20	72	141	16	1927	4.5		82			130	03				326	Y15E30/ YTX02

REMARKS: MAX DEPTH = 325 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 DESCRIBED	Rosette Notes			Hydro Team-PMEL			Strom	Phyto	Formalin g/l	Gut.-plastic	Lugols-	Micro zoops	Ana A-I	FE	Dean	Comments	Nis No.
		SALT	Nut. Btl	O2-Btl No	Chloro-I	Formalin g/l	Gut.-plastic											
1	13	325			35	918	283											1
2	800					919												2
3	150					920												3
4	100					921												4
5	75					922												5
6	50					923												6
7	40					924												7
8	30					925												8
9	20					926												9
10	10					927												10
11	0					928												11
12																		12

SST = \_\_\_\_\_ SSS@1 = \_\_\_\_\_

VESSEL: OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IBRP-LTL Spring 2013  
 STATION NO.: YTX03

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)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
9459	02	94	14123.19	N	19	21	A	13	21	21	04.6			32			119	11				27.2	YTX05

SBE 9+ FLUOR S/N  
 PRESS SN SBE 43-Oxy (prime)  
 PRI TEMP SN SBE 43-Oxy (sec)  
 SEC TEMP SN Transmissometer  
 PRI COND SN PAR S/N  
 SEC COND SN Q2 Temp Sensor No.

NIS No.	DEPTH DESCRIBED	Rosette Notes	Hydro Team-PWEL			Strom		Pyro		Micro zoops		Ana A-I	PE	Dean	Comments	NIS No.
			SALT	Nut. Btl	O2-Btl No	Chloro-I	Formalin g/l	Glut.-plastic	Lugols-							
1	80			929											1	
2	850			930											2	
3	200			931											3	
4	150			932											4	
5	100			933											5	
6	50			934											6	
7	40			935											7	
8	30			936											8	
9	20			937											9	
10	10			938											10	
11	0			939		284									11	
12															12	

ASK Carol - Standard Fluor cable with 4 pin MS

SST = SSSal =

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-REP-LTL Spring 2013  
 STATION NO.: Y104 146500

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	
	095	59	25	141	32	05	21	APR	13	22	45	4.1		32			112	14				78	Y104 146500

REMARKS: Bottom Bounding Layer reached

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 \_\_\_\_\_  
 Q2 Temp Sensor No. \_\_\_\_\_

Nis	DEPTH	Desired	Hydro Team-PWEL			Strom		Phyto		Micro zoops		Ana A-I	FE	Dean	Comments	Nis
			SALT	Nut Btl	O2-Btl No	Chloro-I	Formalin g	Glut.-plastic	Lugols-							
1	100	100	36	940	285										1	
2	185	185		941											2	
3	100	100		942											3	
4	75	75		943											4	
5	50	50		944											5	
6	40	40		945											6	
7	30	30		946											7	
8	20	20		947											8	
9	10	10		948											9	
10	0	0		949											10	
11															11	
12															12	

SST = 5.5 SSS = 32.04

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.:

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
φ	96	59	58	14	54	22	A	13	05	24	3.4		30			120	21				1218	YBGS50

REMARKS: Strong halocline at 60m  
 He came to 25  
 MAX DEPTH = 500

NIS	DEPTH	ROSETTE NOTES	HYDRO TEAM-PMEL	STROM	PHYTO	MICRO ZOOPLANKTON	ANA A-1	DEAN	COMMENTS	NIS
No.	DESIRED		SALT	Chlor-1	Formalin g	Glut.-plastic Lugols-	FE			No.
1	500		954							1
2	350		951							2
3	200		952							3
4	100		953							4
5	75		954							5
6	50		955	St6		X				6
7	40		956	ST7						7
8	30		957	ST2		X				8
9	20		958	ST9		X				9
10	10		959	ST0		X				10
11	0		960	ST1						11
12										12

SST =  
 SSSal =  
*O<sub>2</sub> shallow*



VESSEL: NOA SHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: YB-4097

CONSC CAST # 0975  
 DEG 917.44 N  
 LATITUDE 14143.79 W  
 DEG 22 APR 13  
 DAY MO YR HR MIN  
 TIME (GMT) 0817  
 DRY BULB 3.6  
 WET BULB .  
 PRESSURE 30  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. 110  
 WIND SPD. 23  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH 194  
 STA. NAME/ID YB630  
 MAX DEPTH = 185 m

SBE 9+ FLUOR S/N  
 SBE43-Oxy (prime)  
 SBE43-Oxy (sec)  
 PRT TEMP SN Transmissometer  
 SEC TEMP SN PAR S/N  
 PRT COND SN  
 SEC COND SN Q2 Temp Sensor No.

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PWEL SALT	Nut. Br	Q2-Btl.No	Strom Choro-I	Phyco Formalin g	Micro zoops Gut.-plastic Lugols-	Ana A-I FE	Dean	Comments	Nis No.
1	B		37	961	287							1
2	150			962								2
3	100			963								3
4	75			964								4
5	50			965			85					5
6	40			966			86					6
7	30			967			87					7
8	20			968			82					8
9	10			969			89					9
10	0			970			810					10
11												11
12												12

SST =

SSSal =

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IRP-LTL Spring 2013  
 STATION NO.: 98

CONSC CAST # 985926  
 LATITUDE 18° N  
 DEGREE MIN  
 LONGITUDE 73° 05' W  
 DEGREE MIN  
 DAY 22  
 MO APR  
 YR 13  
 TIME (GMT) 1051  
 HR MIN  
 DRY BULB 27  
 WET BULB  
 PRESSURE 31  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN (deg) 115  
 WIND SPD (kts) 27  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH 176  
 STA. NAME/ID Y13630

REMARKS: MAX DEPTH = 170 m

N/S	DEPTH	Rosette Notes	Hydro Team-PWEL			Strom	Phyco	Formalin g/l	Gut- plastic	Lugols-	Micro zoops	Ana A-1	FE	Dean	Comments	N/S
			SALT	Nut.Btl	O2-Btl.No											
1	13			971											1	
2	100			972											2	
3	75			973						X					3	
4	50			974						X					4	
5	40			975						X					5	
6	30			976						X					6	
7	20			977						X					7	
8	10			978						X					8	
9	2			979											9	
10															10	
11															11	
12															12	

SST = SSSal =

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: 99

CONSC	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
995934	141	21	48	W	22	A	P	13	13	13	1.8	31			075	21				116	YR620

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. \_\_\_\_\_

REMARKS: \_\_\_\_\_  
 MAX DEPTH = 109 m

Nts	DEPTH	Rosette Notes	Hydro Team-PMEL			Strom	Phyto	Micro zoops		Ana A-I	Dean	Comments	Nts
			SALT	Nut Btl	O2-Btl No			Formalin g	Gut.-plastic				
1	13		38	980	229								1
2	17.5			981									2
3	SD			982		X							3
4	4.10			983		X							4
5	30			984		X		94					5
6	20			985		X		93					6
7	10			986		X	45	46	92				7
8	0			987		X							8
9	5												9
10													10
11													11
12													12

SST = \_\_\_\_\_ SSS = \_\_\_\_\_

VESSEL: NOA SHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: 100

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
1005443		18	N	4110	89	W	21	A	13	16	37	2.5		32			96	21				42	Y13G10

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		Strom	Phyco	Micro zoops		Ana A-1	Dean	Comments	Nis No.
			SALT	Nut Btl			O2-Btl No	Formalin g				
1	B			988								1
2	30			989								2
3	20			990								3
4	10			991								4
5	10			992								5
6	10			993								6
7	0											7
8	0											8
9												9
10												10
11												11
12												12

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

prod  
 prod  
 prod no H2O

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: K1A4

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
	101	59	32.9	8	14	23	APR	13	22	47		4.6		34			106	14				1175	K1A4

REMARKS: *72 Cast*

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			Strom	Phyto	Formalin g	Gut-Plastic	Lugol's	Micro zoops	Ana A-I	FE	Dean	Comments	Nis No.
			SALT	Nut Btl	O2-Btl 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	

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

VESSEL		CRUISE ID		PROJECT & LEG		STATION NO.																							
NOA SHIP OSCAR DYSON		DY1304		GOA-ERP-LTL Spring 2013		K1A4																							
CONSC	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												
CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(C)	(C)	(mb)	*	*	(deg)	(kts)	*	*	(m)										
1	02	59	33	.17	N	14	35	5	14	W	22	A	P	1	3	04	19	4	.3	.3	34	*	*	96	17	*	*	1220	K1A4
SBE 9+	FLUOR S/N		REMARKS		SBE cast to 550m																								
PRESS SN	SBE43-Oxy (ptime)																												
PRI TEMP SN	SBE43-Oxy (sec)																												
SEC TEMP SN	Transmissometer																												
PRI COND SN	PAR S/N																												
SEC COND SN	O2 Temp Sensor No.																												
No.	DEPTH	Rosette Notes	SALT	Nut. Btl	O2-Btl No	Strom	Phyto	Formalin g	Glut.-plastic	Lugols-	Micro zoops	Ana A-I	FE	Dean	Comments	No.													
1	550		39	994	291											1													
2	400			995												2													
3	300			996												3													
4	200			997												4													
5	100			998												5													
6	50			999												6													
7	40			1000												7													
8	30			1001												8													
9	20			1002												9													
10	15			1003												10													
11	0			1004												11													
12																12													

SST = SSS =

The nut # on the bottle lid are written like this 1000 = 000 2121

VESSEL: NOA SHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: K1A3

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	
1	03	59	40.01	N	14	11.09	W	23	A	P	13	01	57	4.7		35	*	*	100	15		*	*	165	K1A3

REMARKS: Temperature and oxygen "wiggled" together for 80m.  
 MAX DEPTH = 160 m

NIS No	DEPTH DESIRED	Rosette Notes	SALT	Nut. Btl	O2-Btl No	Strom	Phyco	Formalin g/l	Glut.-plastic	Micro zoops	Lugols	Ana A-I	FE	Dean	Comments	NIS No
1	Bot			1065												1
2	100			1006												2
3	75			1007												3
4	50			1008												4
5	40			1009												5
6	30			1010												6
7	20			1011												7
8	10			1012												8
9	0			1013												9
10																10
11																11
12																12

SST = SSS =

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LT Spring 2013  
 STATION NO. K1A2

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		
1	04	59	43.39	N	144	18	58	W	23	A	P	13	0855	4.6		35							100	K1A2

REMARKS: DRY 16  
 MAX DEPTH = 115 m

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

NIS No.	DEPTH DESIRED	Rosette Notes	SALT	Nutr. Btl	O2-Btl No	Strom Chloro-I	Phyto Formain g/l	Micro zoops Glut.-plastic Lugols-	Ana A-I FIE	Dean	Comments	NIS No.
1	bot			1014		S3						1
2	75			1014		S4						2
3	50			1016		S5						3
4	40			1017		S6						4
5	30			1018		S7						5
6	20			1014		S8						6
7	10			1020				101				7
8	0		40	1021	293							8
9												9
10												10
11												11
12												12

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



VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: K1A1 105

CONSC CAST # 106  
 DEG 59  
 MIN 46  
 SEC 43  
 N  
 LONGITUDE 144  
 MIN 30  
 SEC 55  
 W  
 DAY 23  
 MO APR  
 YR 13  
 TIME (GMT) 1043  
 DRY BULB 4.3  
 WET BULB .  
 PRESSURE 35  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 106  
 WIND SPD. (kts) 22  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 23  
 STA. NAME/ID K1A1

FLUOR S/N  
 SBE43-Oxy (prime)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp Sensor No.  
 REMARKS  
 MAX DEPTH = 77 m

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom	Phyto	Formalin gl	Glut.-plastic	Lugols-	Ana A-1	FE	Dean	Comments	Nis No.
			SALT	Nit:Btl	O2-Btl.No										
1	3														1
2	50					S2									2
3	40					S3									3
4	30					S4									4
5	20					S5									5
6	10					S6			102						6
7	0					S7									7
8															8
9															9
10															10
11															11
12															12

SST = SSSal =

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO: K1B6 106

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
1066000	12	N	14454	45	W	23	A	13	14	02		41.0		34	*	*	043	20		*	*	170	K1B6

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

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL		Strom		Phyto		Micro zoops		Ara A-1 FE	Dean	Comments	NIS No.
			SALT	Nut.Btl	O2-Btl.No	Chloro-l	Formalin gl	Gut.-plastic	Lugols-					
1	6		41	1030										1
2	100			1031										2
3	75			1032										3
4	50			1033										4
5	40			1034										5
6	30			1035										6
7	20			1036										7
8	10			1037										8
9	0			1038										9
10														10
11														11
12														12

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

MAX DEPTH = 166 m

VESSEL NOAHSHIP OSCAR DYSON  
 CRUISE ID TN263  
 PROJECT & LEG GOA-ERP-LTL Spring 2013  
 STATION NO. K1Ba 107

CONSC CAST # 107  
 DEG 144.54  
 MIN 21  
 N  
 LONGITUDE DEG 144.54  
 MIN 37  
 W  
 DAY 23  
 MO APR  
 YR 13  
 TIME (GMT) HR 16  
 MIN 02  
 DRY BULB (°C) 4.4  
 WET BULB (°C) .  
 PRESSURE (mb) 33  
 SEA STATE \*  
 VISIBILITY \*  
 WIND DIRN. (deg) 108  
 WIND SPD. (kts) 24  
 CLOUD (amt) \*  
 TYPE \*  
 WEATHER \*  
 BOTTOM DEPTH (m) 212  
 STA. NAME/ID K1Ba

SBE 9+ FLUOR S/N  
 SBE43-Oxy (prime)  
 SBE43-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp Sensor No.  
 REMARKS Fe Cast  
 MAX DEPTH =

Nis No	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom Chloro-l	Phyto Formalin gl	Micro zoops Gurr.-plastic Lugols-	Ana A-l FE	Dean	Comments	Nis No.
			SALT	Nut.Btl	O2-Btl.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

SST=  
 SSSal=

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: 108

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
108	5952	22	N	144	54	23	A	13	12	07	4.5		33			105	22					212	K182

REMARKS: Standard Cast

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		Strom	Phyto	Micro zoops	Ana A-I	Dean	Comments	Nis No.
			SALT	Nut. Bl							
1	Bot	208		1039	294						1
2	15D			1040							2
3	100			1041							3
4	75			1042							4
5	5D			1043							5
6	40			1044							6
7	30			1045							7
8	20			1046							8
9	10			1047							9
10	0			1048							10
11											11
12											12

SST= SSSal=

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LTL Spring 2013  
 STATION NO.: 109

CONSC CAST # 109  
 DEGREE MIN 59 44  
 LONGITUDE DEGREE MIN 14 55  
 DAY MONTH YEAR 23 APR 13  
 TIME (GMT) HR MIN 19 36  
 DRY BULB (°C) 4.4  
 WET BULB (°C) .31  
 PRESSURE (mb) \* \*  
 SEA STATE \* \*  
 VISIBILITY \* \*  
 WIND DIRN. (deg) 95  
 WIND SPD. (kts) 26  
 CLOUD (amt) \* \*  
 TYPE \* \*  
 WEATHER \* \*  
 BOTTOM DEPTH (m) 115  
 STA. NAME/ID K181  
 MAX. DEPTH = 110 m

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

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom Chloro-l	Phyto Formalin gl	Micro zoops Lugols-	Ana A-l FE	Dean	Comments	Nis No.
			SALT	Nut.Btl	O2-Btl.No							
1	13	110	412	1049								1
2	75			1050								2
3	50			1051								3
4	40			1052								4
5	30			1053								5
6	20			1054								6
7	10			1055								7
8	0			1056								8
9												9
10												10
11												11
12												12

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

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-ERP-LTL Spring 2013  
 STATION NO.: 110

CONSC CAST # 1105935.98 N  
 LATITUDE 14455.67 W  
 DEGREE MIN DAY MO YR HR MIN  
 23 APR 13 04 37  
 TIME (GMT)  
 DRY BULB 4.7 (°C)  
 WET BULB (°C)  
 PRESSURE 30 (mb)  
 SEA STATE \* \*  
 VISIBILITY \* \*  
 WIND DIRN (deg) 105  
 WIND SPD (kts) 29  
 CLOUD (amt) \* \* \*  
 TYPE WEATHER  
 BOTTOM DEPTH (m) 168  
 STA. NAME/ID K1B2

SBE 9+ FLUOR S/N  
 SBE43-Oxy (prime)  
 SBE43-Oxy (sec)  
 Transmission  
 PAR S/N  
 O2 Temp Sensor No.  
 REMARKS:  
 Sailed cell max depth 35-60m  
 M.D. = 60m  
 PA P 10 OK 5 back - runs sheared  
 W weight = 10g

NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom		Phyto		Micro zoops		Ana A-I	FE	Dean	Comments	NIS No.
			SALT	Nut. Btl	O2-Btl. No	Chloro-l	Formalin g/l	Glut.-plastic	Lugols-							
1	Bot			1057											1	
2	100			1058											2	
3	75			1059											3	
4	50			1060											4	
5	46			1061											5	
6	30			1062											6	
7	20			1063											7	
8	10			1064											8	
9	0			1065											9	
10															10	
11															11	
12															12	

SST = SSSal =

2

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-HERP-LTL Spring 2013  
 STATION NO.:

CONSC	LATITUDE			LONGITUDE			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	SEC	DEG	MIN	SEC	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(kts)	*	*	(m)											
111	59	28	8.07	N	144	54	96	W	23	A	P	R	1	3	KB	3	5.2		29	*		105	17			601		K1B3

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

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom	Phyto	Micro zoops		Ana A-1	Dean	Comments	Nis No.
			SALT	Nut. Btl	O2-Btl.No			Chloro-l	Formalin gl				
1	400	550	43	10660									1
2	400			1567									2
3	300			1028									3
4	200			1069									4
5	100			1070									5
6	50			1071									6
7	40			1072									7
8	30			1073									8
9	20			1074									9
10	10			1075									10
11	0			1076									11
12													12

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

VESSEL: NOASHIP OSCAR DYSON  
 CRUISE ID: TN263  
 PROJECT & LEG: GOA-IERP-LT Spring 2013  
 STATION NO.:

CONSC CAST # 11259  
 DEG 28.13 N  
 LONGITUDE 14454.79 W  
 DAY 24  
 MO APR  
 YR 13  
 TIME (GMT) 0225  
 DRY BULB 5.1  
 WET BULB  
 PRESSURE 27  
 SEA STATE  
 VISIBILITY  
 WIND DIRN. 118  
 WIND SPD. 14  
 CLOUD (amt) TYPE WEATHER  
 BOTTOM DEPTH 2030  
 STA. NAME/ID KIB4

SEC 9+  
 PRESS SN  
 PRI TEMP SN  
 SEC TEMP SN  
 PRI COND SN  
 SEC COND SN  
 FLUOR S/N  
 SBEA3-Oxy (prime)  
 SBEA3-Oxy (sec)  
 Transmissometer  
 PAR S/N  
 O2 Temp Sensor No.  
 REMARKS  
 MAX DEPTH = m

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Strom			Phyto			Micro zoops			Ana A-I			Dean	Comments	Nis No.
			SALT	Nut.Btl	O2-Btl.No	Chloro-I	Formalin	glut.-plastic	Lugols-	FIE										
1	0.5																		1	
2	1.0																		2	
3	5.0																		3	
4	25.0																		4	
5	100.0																		5	
6	50.0																		6	
7	40.0																		7	
8	30.0																		8	
9	20.0																		9	
10	10.0																		10	
11	0.0																		11	
12																			12	

SST = SSSal =