

VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.										
Ocean Starr		OS 17-01		NPRB	AIERB	Leg1		17CKP12A										
CONSC CAST #	DEG	MIN	LATITUDE		DEG	MIN	LONGITUDE		TIME (GMT)	HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
0016	75	4	66	N	168	11	13	W	15	40							502	
SBE 9+			FLUOR S/N						WEATHER OBS:		SFC/Bottom Temp.				MAX. DEPTH = 51			
PRESS SN			SBE43-Oxy (pri)						REMARKS:		Recover		16CKP12A					
PRI TEMP SN			SBE43-Oxy (sec)						PP Expt #1									
SEC TEMP SN			Transmissometer						FC = Flow Cytometry									
PRI COND SN			PAR S/N						FA = Fatty acid section									
SEC COND SN			O2 Temp Sensor						POP = Particulate organic phosphate									

Nis	DEPTH	Rosette Notes	SALT	Nut. Btl	O2-Btl	NDIC/AIK	Chloro	Size	Pract	Chl a	PPM	POP	PP	Nis
No.	DESIRED						GFF Vol	Argon	Sub	GFF Vol	Chl a	+ FC	Total	No.
1	50	(51m)		0001	242		290							1
2	40			2	242		290							2
3	30			3			290							3
4	20			4			290							4
5	20	15% PAR												5
6	10			5			290							6
7	10	12% PAR												7
8	10	25% PAR												8
9	0			6			290							9
10	0	100% PAR												10
11														11
12														12

ophode on 12CM at ~53-54m

Drif-Her 136868

[illegible]
$$\begin{array}{r} \text{Fluor at } 39 \\ + \end{array}$$

[illegible]

787

VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.											
Ocean Starr		OS 17-01		NPRB	AIERB	Leg1		17C1P C122											
CONSC CAST #	DEG	MIN	LONGITUDE		DEG	MIN	DAY	MO	YR	TIME (GMT)	HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. SPD. (deg) (kts)	BOTTOM DEPTH (m)	STA. NAME/ID	
0057	11	14	01N 16413.34W		8	Aug	17	15	18								43		
SBE 9+			FLUOR S/N																
PRESS SN			SBE43-Oxy (pri)																
PRI TEMP SN			SBE43-Oxy (sec)																
SEC TEMP SN			Transmissometer																
PRI COND SN			PAR S/N																
SEC COND SN			O2 Tmp Sensor																
WEATHER OBS:										SFC/Bottom Temp.									
REMARKS:										Recovery deployment									

Nis	DEPTH	Rosette Notes	Hydro Team-PMEL		Chloro	POC	Nis			
No.	DESIRED	SALT	Nut.Btl	O2-Btl,NDIC/Alk	GFF Vol	>10 Large Vol	GFF Dup	V>10 dup vol	500 ml	No.
1	38		18	16	290					1
2	30		19							2
3	20		20							3
4	10		20							4
5	0		22							5
6										6
7										7
8										8
9										9
10										10
11										11
12										12

No Nuts 17?

[illegible]

VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.									
Ocean Starr		OS 17-01		NPRB AIERB Leg1				C1									
CONSC CAST #	DEG	MIN	LONGITUDE		DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN (deg)	WIND SPD (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
0077050	26	N	163	7.37	W		Aug	17								44	
SBE 9+		FLUOR S/N				WEATHER OBS:		SFC/Bottom Temp.		MAX. DEPTH =		39					
PRESS SN		SBE43-Oxy (pri)				REMARKS:		a recover/ deploy									
PRI TEMP SN		SBE43-Oxy (sec)						CKP1A									
SEC TEMP SN		Transmissometer						CKP1A								ophode ~40m	
PRI COND SN		PAR S/N															
SEC COND SN		O2 Tmp Sensor															

Nis	DEPTH	Rosette Notes	Hydro Team-PMEL		Chloro	POC	Nis
			SALT	Nut. Btl			
1	50	(3)	23	211	290		1
2	30		24				2
3	20		25				3
4	10		26				4
5	0		27				5
6							6
7							7
8							8
9							9
10							10
11							11
12							12

VESSEL		CRUISE ID		PROJECT & LEG		CTD File Name:		STATION NO.	
Ocean Starr		OS 17-01		NPRB AIERB Leg1				CH 506	
CONC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		WIND DIRN. SPD.	
		DEG	MIN	DEG	MIN	HR	MIN	(deg)	(kts)
0087030.01N				16059.76W	9	Aug 17	2150		
		FLUOR S/N		SFC/Bottom Temp.		WEATHER OBS:		MAX. DEPTH = 19	
		PRESS SN		REMARKS:		Regular + 1 Rod			
		PRI TEMP SN		MZ = micro zooplankton preserved					
		SEC TEMP SN							
		PRI COND SN							
		SEC COND SN							
DEPTH		Rosette Notes		Hydro Team-PMEL		Chloro		Stack Flop Cyt	
Nis	No.	DESIRED	SALT	Nut. Btl	O2-Btl	NID	GFF Vol	Chla size	PP
1	20			28			290	500 ml	PP
2	20						290	500 ml	PP
3	20						290	500 ml	PP
4	20						290	500 ml	PP
5	10			29			290	500 ml	PP
6	10						290	500 ml	PP
7	10						290	500 ml	PP
8	0			30			290	500 ml	PP
9	0						290	500 ml	PP
10	0						290	500 ml	PP
11							290	500 ml	PP
12							290	500 ml	PP

VESSEL		CRUISE ID		PROJECT & LEG		CTD File Name:		STATION NO.								
Ocean Starr		OS 17-01		NPRB	AIERB	Leg 1		K06 K07								
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
0097	10	N	159	17.72	W	11	Aug	17	15	17	.				52	
SBE 9+	FLUOR S/N				WEATHER OBS:		SFC/Bottom Temp.		MAX. DEPTH =		47					
PRESS S/N	SBE43-Oxy (pri)				REMARKS:		47+5									
PRI TEMP S/N	SBE43-Oxy (sec)															
SEC TEMP S/N	Transmissometer															
PRI COND S/N	PAR S/N															
SEC COND S/N	O2 Temp Sensor															
Chla total + stuck labeled as K06 (but are K07)																

Nis	DEPTH	Rosette Notes	Hydro Team-PMEL		Chloro		Size for Stock	POC	Nis
			Nut. Btl	O2-Btl	Nut. Btl	O2-Btl			
1	50	47	31		290	> 1000	✓		1
2	40		32						2
3	30		33				✓		3
4	20		34				✓		4
5	10		35				✓		5
6	0		36	176			✓		6
7									7
8									8
9									9
10									10
11									11
12									12

025hr
17/1

VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.										
Ocean Starr		OS 17-01		NPRB	AIERB	Leg1												
CONSCAST #		LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	SPD.	BOTTOM DEPTH	STA. NAME/ID				
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)			
9	10	7	00.16 N	159	17.14 W	11	Aug	17	15	44	.				52			
SBE 9+		FLUOR S/N		WEATHER OBS:		SFC/Bottom Temp.		MAX. DEPTH = 47										
PRESS SN		SBE43-Oxy (pri)		REMARKS:		PP exp # 5 Prod Cyst												
PRI TEMP SN		SBE43-Oxy (sec)																
SEC TEMP SN		Transmissometer																
PRI COND SN		PAR S/N																
SEC COND SN		O2 Tmp Sensor																
Size Fraction Stack																		
Nis	DEPTH	Rosette Notes	SALT	Nut.Btl	O2-Btl.NDI	Hydro Team-PMEL	Cplggr	GFF Vol	>20 Large Vol	GFF Degr	>10 depth	POP	FC	Flow Cam	PA	P.P	P.P	No
1	47						Total											1
2	30	15% PAR																2
3	30											500						3
4	20	12% PAR										500						4
5	20											500						5
6	10	25% PAR										500						6
7	10											500						7
8	10											500						8
9	0	100% PAR										500						9
10	0											500						10
11												500						11
12												500						12

VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.										
Ocean Starr		OS 17-01		NPRB AIERB Leg1				16 CLKP-4A										
CONSC CAST #	DEG	MIN	LATITUDE	DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
0117102	17	N	16030.09	W	12	Aug	17	0206									49	
SBE 9+	FLUOR S/N																	
PRESS SN	SBE43-Oxy (pri)																	
PRI TEMP SN	SBE43-Oxy (sec)																	
SEC TEMP SN	Transmissometer																	
PRI COND SN	PAR S/N																	
SEC COND SN	O2 Temp Sensor																	
WEATHER OBS:										SFC/BOTTOM Temp.								
REMARKS:										MAX. DEPTH =								
										Reverse 16 CLKP-4A								
										Deploy 17 CLKP-4A								
										Chla max at 30m								

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL			Chloro		POC	FlowCam	Nis No.
			Nut. Btl	O2-Btl	DIC/Aik	GFF Vol	>10 Large Vol			
1	40		37	234		290				1
2	30		38			285			✓	2
3	20		39			290				3
4	10		40			290				4
5	0		41			290				5
6	4									6
7										7
8										8
9										9
10										10
11										11
12										12

Sally Skelton

Aug 17 2006 11:01 AM

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VESSEL			CRUISE ID			PROJECT & LEG			CTD FileName:			STATION NO.			
Ocean Starr			OS 17-01			NPRB AIERB Leg1						17CKP5			
CONSC CAST #	LATITUDE			LONGITUDE			TIME (GMT)	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND D SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	SEC	DEG	MIN	SEC									
1371	12.03	N		15800.97	W		12031							47	
SBE 9+				FLUOR S/N			WEATHER OBS:			SFC/Bottom Temp.			MAX. DEPTH = 41		
PRESS SN				SBE43-Oxy (pri)			REMARKS:			Recover 16 CKP5					
PRI TEMP SN				SBE43-Oxy (sec)						Deploy 17 CKP5					
SEC TEMP SN				Transmissometer											
PRI COND SN				PAR S/N											
SEC COND SN				O2 Tmp Sensor									No Ophole (no RCM)		

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[illegible]

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[illegible]

[illegible]

[illegible]

92 133

VESSEL	CRUISE ID	PROJECT & LEG	CTD FileName:	STATION NO.							
Ocean Starr	OS 17-01	NPRB AIERB Leg1		Phy obs 5							
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	TIME (GMT) HR MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID	
227130.42N	15406.21W	15 Aug 17	2105	.					43		
SBE 9+	FLUOR S/N	WEATHER OBS:								SFC/Bottom Temp.	MAX. DEPTH = 32
PRESS SN	SBE43-Oxy (pri)	REMARKS:									45
PRI TEMP SN	SBE43-Oxy (sec)										
SEC TEMP SN	Transmissomete										
PRI COND SN	PAR S/N										
SEC COND SN	O2 Tmp Sensor										

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VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.								
Ocean Starr		OS 17-01		NPRB	AIERB	Leg1		Phyllis 7								
CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
23	71	42.49	N 15345.68	W	16	Aug	17	0							51	
SBE 9+			FLUOR S/N					WEATHER OBS:		SFC/Bottom Temp.				MAX. DEPTH =		
PRESS SN			SBE43-Oxy (pri)					REMARKS:						4675		
PRI TEMP SN			SBE43-Oxy (sec)													
SEC TEMP SN			Transmissometer													
PRI COND SN			PAR S/N													
SEC COND SN			O2 Temp Sensor													

Nis	DEPTH	Rosette Notes	Hydro Team-PMEL		Chlorophyll a	Large Vol	POC	FC	Flow	PA	PP	PP	Nis
No.	DESIRED		Nut. Btl	O2-Btl. NDIC/AIK	4000	500 ml							No.
1	45		107	(378)	290								1
2	30		108										2
3	30		109										3
4	10		110										4
5	0		111	306									5
6													6
7													7
8													8
9													9
10													10
11													11
12													12

VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.									
Ocean Starr		OS 17-01		NPRB AIERB Leg1													
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	LONGITUDE	DEG	MIN	TIME (GMT)	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	Prod Station STA. NAME/ID	
0247142.59 N	15514.25 W	155	14.25	155	14.25	Aug 17 20									270	Barrow Canyon	
SBE 9+		FLUOR S/N		WEATHER OBS:		SFC/BOTTOM Temp.		MAX. DEPTH =									
PRESS SN		SBE43-Oxy (pri)		REMARKS:													
PRI TEMP SN		SBE43-Oxy (sec)		Head of Barrow Canyon													
SEC TEMP SN		Transmissometer		Errors on CTD. Only closed bottle													
PRI COND SN		PAR S/N		No PP exp.													
SEC COND SN		O2 Temp Sensor		* Downcast data + nutrient sample, Chl, Flowcam													
				EC at 250 m													
NIS	DEPTH	Rosette Notes	Hydro Team-PMEL	Chloro	Size	Fract	Chl a	POP	FL	Flow Cam	NIS						
No.	DESIRED	SALT	Nut. Btl	GFF Vol	1000	Vol	500	500	500	500	No.						
1	250	only nutri. → 113	113	290	✓	✓	✓	500	✓	✓	1						
2	40	sample	✓	290	✓	✓	✓	500	✓	✓	2						
3	40	collected	✓	290	✓	✓	✓	500	✓	✓	3						
4	40		✓	290	✓	✓	✓	500	✓	✓	4						
5	20		✓	290	✓	✓	✓	500	✓	✓	5						
6	20		✓	290	✓	✓	✓	500	✓	✓	6						
7	10		✓	290	✓	✓	✓	500	✓	✓	7						
8	10		✓	290	✓	✓	✓	500	✓	✓	8						
9	10		✓	290	✓	✓	✓	500	✓	✓	9						
10	0		✓	290	✓	✓	✓	500	✓	✓	10						
11	0		✓	290	✓	✓	✓	500	✓	✓	11						
12											12						

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VESSEL			CRUISE ID			PROJECT & LEG			CTD FileName:			STATION NO.		
Ocean Starr			OS 17-01			NPRB	AIERB	Leg1				Jcy Cape 0.5		
CONSCAST #	LATITUDE	LONGITUDE	TIME (GMT)	DRY BULB	RH	Pressure	WIND DIRN.	SPD.	BOTTOM DEPTH	STA. NAME/ID				
	DEG MIN	DEG MIN	HR MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)					
0267028.94 N	16211.74 W	Aug 17	1410	.					22					
SBE 9+	FLUOR S/N			WEATHER OBS:			SFC/Bottom Temp.			MAX. DEPTH =				
PRESS SN	SBE43-Oxy (pri)			REMARKS:										
PRI TEMP SN	SBE43-Oxy (sec)			Chl a higher above pyc (~12 m)										
SEC TEMP SN	Transmissomet													
PRI COND SN	PAR S/N													
SEC COND SN	O2 Tmp Sensor													
Size Reaction Stack														
Gunn														
NIS No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL Phyt	Chlorophyll Total	>20 Large Vol	GEE Dup V>10 dup ml	POP FC	Flow Cam	No.	Nis				
1	14		✓	290			✓		1					
2	10		✓				✓		2					
3	0		✓				✓		3					
4									4					
5									5					
6									6					
7									7					
8									8					
9									9					
10									10					
11									11					
12									12					

VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.													
Ocean Starr		OS 17-01		NPRB AIERB Leg1				Scy Cape 1													
CONSC CAST #	DEG	MIN	LONGITUDE		DEG	MIN	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID		
0277035.93	N	16235.58	W 19 Aug 17		19	Aug	17	1556										39			
SBE 9+	FLUOR S/N																				
PRESS SN	SBE43-Oxy (pri)																				
PRI TEMP SN	SBE43-Oxy (sec)																				
SEC TEMP SN	Transmissomet																				
PRI COND SN	PAR S/N																				
SEC COND SN	O2 Tmp Sensor																				
WEATHER OBS:										SFC/Bottom Temp.											
REMARKS:										MAX. DEPTH =											
Chl a higher above ~ 22m																					
Thermocline 20m																					
Bize Station Stack																					
Nis	DEPTH	Rosette Notes	Hydro Team-PMEL		Chlorophyll		GFF		GFF		POP		FC		Flow		FA		PP		
No.	DESIRED	SALT	Nut. Btl	O2-Btl	INDICATOR	3FT Vol	>20 Large Vol	GFF	10 dup	val	500 ml										
1	32	8	127			✓	290														
2	20		128			✓															
3	10		129			✓															
4	0		130	072		✓															
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

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1.0

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VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.					
Ocean Starr		OS 17-01		NPRB AIERB Leg1				Seey Cape 3					
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. SPD. (deg) (kts)	WIND D (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	HR	MIN							
25	7051.13	N	16310.80	W	19	Aug	17	18	57			45	
WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = REMARKS:													
Higher Chla above 26m Near Morning C, PP station													
Chlorophyll a Chlorophyll b Chlorophyll c Chlorophyll d Chlorophyll e Chlorophyll f Chlorophyll g Chlorophyll h Chlorophyll i Chlorophyll j Chlorophyll k Chlorophyll l Chlorophyll m Chlorophyll n Chlorophyll o Chlorophyll p Chlorophyll q Chlorophyll r Chlorophyll s Chlorophyll t Chlorophyll u Chlorophyll v Chlorophyll w Chlorophyll x Chlorophyll y Chlorophyll z Chlorophyll aa Chlorophyll ab Chlorophyll ac Chlorophyll ad Chlorophyll ae Chlorophyll af Chlorophyll ag Chlorophyll ah Chlorophyll ai Chlorophyll aj Chlorophyll ak Chlorophyll al Chlorophyll am Chlorophyll an Chlorophyll ao Chlorophyll ap Chlorophyll aq Chlorophyll ar Chlorophyll as Chlorophyll at Chlorophyll au Chlorophyll av Chlorophyll aw Chlorophyll ax Chlorophyll ay Chlorophyll az Chlorophyll ba Chlorophyll bb Chlorophyll bc Chlorophyll bd Chlorophyll be Chlorophyll bf Chlorophyll bg Chlorophyll bh Chlorophyll bi Chlorophyll bj Chlorophyll bk Chlorophyll bl Chlorophyll bm Chlorophyll bn Chlorophyll bo Chlorophyll bp Chlorophyll bq Chlorophyll br Chlorophyll bs Chlorophyll bt Chlorophyll bu Chlorophyll bv Chlorophyll bw Chlorophyll bx Chlorophyll by Chlorophyll bz Chlorophyll ca Chlorophyll cb Chlorophyll cc Chlorophyll cd Chlorophyll ce Chlorophyll cf Chlorophyll cg Chlorophyll ch Chlorophyll ci Chlorophyll cj Chlorophyll ck Chlorophyll cl Chlorophyll cm Chlorophyll cn Chlorophyll co Chlorophyll cp Chlorophyll cq Chlorophyll cr Chlorophyll cs Chlorophyll ct Chlorophyll cu Chlorophyll cv Chlorophyll cw Chlorophyll cx Chlorophyll cy Chlorophyll cz Chlorophyll da Chlorophyll db Chlorophyll dc Chlorophyll dd Chlorophyll de Chlorophyll df Chlorophyll dg Chlorophyll dh Chlorophyll di Chlorophyll dj Chlorophyll dk Chlorophyll dl Chlorophyll dm Chlorophyll dn Chlorophyll do Chlorophyll dp Chlorophyll dq Chlorophyll dr Chlorophyll ds Chlorophyll dt Chlorophyll du Chlorophyll dv Chlorophyll dw Chlorophyll dx Chlorophyll dy Chlorophyll dz Chlorophyll ea Chlorophyll eb Chlorophyll ec Chlorophyll ed Chlorophyll ee Chlorophyll ef Chlorophyll eg Chlorophyll eh Chlorophyll ei Chlorophyll ej Chlorophyll ek Chlorophyll el Chlorophyll em Chlorophyll en Chlorophyll eo Chlorophyll ep Chlorophyll eq Chlorophyll er Chlorophyll es Chlorophyll et Chlorophyll eu Chlorophyll ev Chlorophyll ew Chlorophyll ex Chlorophyll ey Chlorophyll ez Chlorophyll fa Chlorophyll fb Chlorophyll fc Chlorophyll fd Chlorophyll fe Chlorophyll ff Chlorophyll fg Chlorophyll fh Chlorophyll fi Chlorophyll fj Chlorophyll fk Chlorophyll fl Chlorophyll fm Chlorophyll fn Chlorophyll fo Chlorophyll fp Chlorophyll fq Chlorophyll fr Chlorophyll fs Chlorophyll ft Chlorophyll fu Chlorophyll fv Chlorophyll fw Chlorophyll fx Chlorophyll fy Chlorophyll fz Chlorophyll ga Chlorophyll gb Chlorophyll gc Chlorophyll gd Chlorophyll ge Chlorophyll gf Chlorophyll gg Chlorophyll gh Chlorophyll gi Chlorophyll gj Chlorophyll gk Chlorophyll gl Chlorophyll gm Chlorophyll gn Chlorophyll go Chlorophyll gp Chlorophyll gq Chlorophyll gr Chlorophyll gs Chlorophyll gt Chlorophyll gu Chlorophyll gv Chlorophyll gw Chlorophyll gx Chlorophyll gy Chlorophyll gz Chlorophyll ha Chlorophyll hb Chlorophyll hc Chlorophyll hd Chlorophyll he Chlorophyll hf Chlorophyll hg Chlorophyll hh Chlorophyll hi Chlorophyll hj Chlorophyll hk Chlorophyll hl Chlorophyll hm Chlorophyll hn Chlorophyll ho Chlorophyll hp Chlorophyll hq Chlorophyll hr Chlorophyll hs Chlorophyll ht Chlorophyll hu Chlorophyll hv Chlorophyll hw Chlorophyll hx Chlorophyll hy Chlorophyll hz Chlorophyll ia Chlorophyll ib Chlorophyll ic Chlorophyll id Chlorophyll ie Chlorophyll if Chlorophyll ig Chlorophyll ih Chlorophyll ii Chlorophyll ij Chlorophyll ik Chlorophyll il Chlorophyll im Chlorophyll in Chlorophyll io Chlorophyll ip Chlorophyll iq Chlorophyll ir Chlorophyll is Chlorophyll it Chlorophyll iu Chlorophyll iv Chlorophyll iw Chlorophyll ix Chlorophyll iy Chlorophyll iz Chlorophyll ja Chlorophyll jb Chlorophyll jc Chlorophyll jd Chlorophyll je Chlorophyll jf Chlorophyll jg Chlorophyll jh Chlorophyll ji Chlorophyll jj Chlorophyll jk Chlorophyll jl Chlorophyll jm Chlorophyll jn Chlorophyll jo Chlorophyll jp Chlorophyll jq Chlorophyll jr Chlorophyll js Chlorophyll jt Chlorophyll ju Chlorophyll jv Chlorophyll jw Chlorophyll jx Chlorophyll jy Chlorophyll jz Chlorophyll ka Chlorophyll kb Chlorophyll kc Chlorophyll kd Chlorophyll ke Chlorophyll kf Chlorophyll kg Chlorophyll kh Chlorophyll ki Chlorophyll kj Chlorophyll kk Chlorophyll kl Chlorophyll km Chlorophyll kn Chlorophyll ko Chlorophyll kp Chlorophyll kq Chlorophyll kr Chlorophyll ks Chlorophyll kt Chlorophyll ku Chlorophyll kv Chlorophyll kw Chlorophyll kx Chlorophyll ky Chlorophyll kz Chlorophyll la Chlorophyll lb Chlorophyll lc Chlorophyll ld Chlorophyll le Chlorophyll lf Chlorophyll lg Chlorophyll lh Chlorophyll li Chlorophyll lj Chlorophyll lk Chlorophyll ll Chlorophyll lm Chlorophyll ln Chlorophyll lo Chlorophyll lp Chlorophyll lq Chlorophyll lr Chlorophyll ls Chlorophyll lt Chlorophyll lu Chlorophyll lv Chlorophyll lw Chlorophyll lx Chlorophyll ly Chlorophyll lz Chlorophyll ma Chlorophyll mb Chlorophyll mc Chlorophyll md Chlorophyll me Chlorophyll mf Chlorophyll mg Chlorophyll mh Chlorophyll mi Chlorophyll mj Chlorophyll mk Chlorophyll ml Chlorophyll mn Chlorophyll mo Chlorophyll mp Chlorophyll mq Chlorophyll mr Chlorophyll ms Chlorophyll mt Chlorophyll mu Chlorophyll mv Chlorophyll mw Chlorophyll mx Chlorophyll my Chlorophyll mz Chlorophyll na Chlorophyll nb Chlorophyll nc Chlorophyll nd Chlorophyll ne Chlorophyll nf Chlorophyll ng Chlorophyll nh Chlorophyll ni Chlorophyll nj Chlorophyll nk Chlorophyll nl Chlorophyll nm Chlorophyll no Chlorophyll np Chlorophyll nq Chlorophyll nr Chlorophyll ns Chlorophyll nt Chlorophyll nu Chlorophyll nv Chlorophyll nw Chlorophyll nx Chlorophyll ny Chlorophyll nz Chlorophyll oa Chlorophyll ob Chlorophyll oc Chlorophyll od Chlorophyll oe Chlorophyll of Chlorophyll og Chlorophyll oh Chlorophyll oi Chlorophyll oj Chlorophyll ok Chlorophyll ol Chlorophyll om Chlorophyll on Chlorophyll oo Chlorophyll op Chlorophyll oq Chlorophyll or Chlorophyll os Chlorophyll ot Chlorophyll ou Chlorophyll ov Chlorophyll ow Chlorophyll ox Chlorophyll oy Chlorophyll oz Chlorophyll pa Chlorophyll pb Chlorophyll pc Chlorophyll pd Chlorophyll pe Chlorophyll pf Chlorophyll pg Chlorophyll ph Chlorophyll pi Chlorophyll pj Chlorophyll pk Chlorophyll pl Chlorophyll pm Chlorophyll pn Chlorophyll po Chlorophyll pp Chlorophyll pq Chlor													

VESSEL	CRUISE ID	PROJECT & LEG	CTD File Name:	STATION NO.		
Ocean Starr	OS 17-01	NPRB AIERB Leg1		Sey Cape 3		
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	TIME (GMT) HR MIN	DRY BULB RH (%) WIND DIRN. SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
307057.01 N	16311.18 W	Aug 17 1919			94	
SBE 9+	FLUOR S/N		WEATHER OBS:	SFC/Bottom Temp.		MAX. DEPTH =
PRESS SN	SBE43-Oxy (pri)		REMARKS:			
PRI TEMP SN	SBE43-Oxy (sec)					
SEC TEMP SN	Transmissomet					
PRI COND SN	PAR S/N					
SEC COND SN	O2 Tmp Sensor					
Bigie Station black						
Nis	DEPTH	Rosette Notes	Hydro Team-PMEL	Chlorophyll	F.C.	No.
	DESIRED	SALT	Nut. Btl	O2-Btl.NDIC/Aik	Flow	PP
1	30				Cann	DBT
2	30					SVL
3	30					IL
4	40					IL
5	20					IL
6	20					IL
7	10					IL
8	10					IL
9	10					IL
10	0					IL
11	0					IL
12						

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VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.											
Ocean Starr		OS 17-01		NPRB AIERB Leg1				200505											
CONSC CAST #	DEG	MIN	LONGITUDE		DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID		
327106	24	N	16347.45		W	19	Aug	17	2005							43			
SBE 9+	FLUOR S/N				WEATHER OBS:		SFC/Bottom Temp.		MAX. DEPTH =										
PRESS SN	SBE43-Oxy (pri)				REMARKS:														
PRI TEMP SN	SBE43-Oxy (sec)				Cmax at 29m														
SEC TEMP SN	Transmissometer				pycno 29														
PRI COND SN	PAR S/N				Size Fraction Stack														
SEC COND SN	O2 Temp Sensor																		

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL		Nut. Btl	O2-Btl	NDIC/AAK	Chlorophyll	SFC Vol	Large Vol	CFF-Bot	CFF-Top	POP	FC	Flow Cam	PA	PP	PP	PP	Nis No.
			SALT	9																
1	39							790												1
2	29																			2
3	20																			3
4	10																			4
5	0																			5
6																				6
7																				7
8																				8
9																				9
10																				10
11																				11
12																				12

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VESSEL		CRUISE ID		PROJECT & LEG			CTD FileName:		STATION NO.												
Ocean Starr		OS 17-01		NPRB	AIERB	Leg1			SigCape 8 - 2nd visit												
CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIN D SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID					
367126.55	N	16455.51	W	20	Aug	17	1415								41						
SBE 9+	WEATHER OBS: SFC/Bottom Temp.																				
PRESS SN	REMARKS:																				
PRI TEMP SN	Repeat of SigCape 8																				
SEC TEMP SN	8°C + Chla max at 28m, 2d max at 120m																				
PRI COND SN	26 on upcast																				
SEC COND SN	SigCape 8 station black																				
Nis		Rosette Notes		Hydro Team-PMEL		Chlorophyll		GFF		POP		FC		Flow		FA		PP		Nis	
No.		SALT		Nut. Btl		O2-Btl		NDG/ATK		Large Vol		GEF-Dup		V-10		Cam		Total		S3P	
1	36	10	167																	1	
2	28		168		✓															2	
3	20		169		✓															3	
4	10		170																	4	
5	0		171	233	✓															5	
6																				6	
7																				7	
8																				8	
9																				9	
10																				10	
11																				11	
12																				12	

VESSEL				CRUISE ID				PROJECT & LEG				CTD File Name:				STATION NO.			
Ocean Starr				OS 17-01				NPRB AIERB Leg1								20y Cape 9			
CONSC CAST #				LATITUDE				LONGITUDE				TIME (GMT)				WIND D			
				DEG MIN				DEG MIN				HR MIN				DIRN. SPD. (kts)			
				DEG MIN				DEG MIN				YR MO DAY				Pressure (mb)			
				DEG MIN				DEG MIN				YR MO DAY				(deg) (kts)			
				DEG MIN				DEG MIN				YR MO DAY				Bottom Depth (m)			
				DEG MIN				DEG MIN				YR MO DAY				STA. NAME/ID			
377136.18 N				6518.01 W				20 Aug 17				1559				41			
SBE 9+				FLUOR S/N				WEATHER OBS:				SFC/Bottom Temp.				MAX. DEPTH =			
PRESS SN				SBE43-Oxy (pri)				REMARKS:											
PRI TEMP SN				SBE43-Oxy (sec)				Chla high above pyc (above 28m)											
SEC TEMP SN				Transmissomet				Pycno 28J ~ 27T											
PRI COND SN				PAR S/N				Large Gradient Stack											
SEC COND SN				O2 Tmp Sensor															
Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL	Gannk Phys	Chloro	POF	FC	Flow	F-A	PP	PP	Nis No.							
1	36		Nut Btl	O2-Btl	NIDCAT	SALT		172	✓	290	✓	1	Cum	Total	5.30	hour			
2	28	27		✓				173			✓	2							
3	20			✓				174			✓	3							
4	10			✓				175			✓	4							
5	0			✓				176			✓	5							
6												6							
7												7							
8												8							
9												9							
10												10							
11												11							
12												12							

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VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.								
Ocean Starr		OS 17-01		NPRB AIERB Leg1				Sey Cape 11								
CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
397149.69	N	166	41.72	W	20	Aug	17	1902							44	
SBE 9+	FLUOR S/N		WEATHER OBS:													
PRESS SN	SBE43-Oxy (pri)		SFC/Bottom Temp.													
PRI TEMP SN	SBE43-Oxy (sec)		REMARKS:													
SEC TEMP SN	Transmissomete		Near C ₃ - Calibration cast later													
PRI COND SN	PAR S/N		P-Rod Cast													
SEC COND SN	O2 Tmp Sensor		TCC max 23 (20m on upcast)													
			Chk max ~20m (broad)													
			Signification Stack													
Nis No.	DEPTH	Rosette Notes	Hydro Team-PMEL	gamm phyto	Chloro Total	Chloro Vol	>20 Large Vol	>5 GFF	POF	Fe	Flow	FA	PP	PP	Nis No.	
1	40		Nut. Btl	O2-Btl	Nut. Btl	Chloro Vol	>20 Large Vol	>5 GFF	POF	Fe	Flow	FA	PP	PP	1	
2	36		183	(264)	290					✓					2	
3	20		184			500ml (only kept >20)				✓					3	
4	10		185			500ml				✓					4	
5	0		186			600ml				✓					5	
6			187												6	
7															7	
8															8	
9															9	
10															10	
11															11	
12															12	

O2 40m

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VESSEL		CRUISE ID		PROJECT & LEG		CTD File Name:		STATION NO.					
Ocean Starr		OS 17-01		NPRB AIERB Leg1				Capeluz 13					
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	HR	MIN							
4270	15.68	N	16832	36	W	1530						42	
WEATHER OBS: SFC/Bottom Temp. MAX. DEPTH = 38 REMARKS: Chla higher below pyc													
SBE 9+ FLUOR S/N PRESS SN PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes SALT 11													
Depth DESIRED 38 30 20 10 0													
Hydro Team-PMEL Nut. Btl O2-Btl NDT GATK													
Rosette Notes 													

Ledyard Bay

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VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.												
Ocean Starr		OS 17-01		NPRB AIERB Leg1				Capel 1311												
CONSC CAST #	DEG	MIN	LATITUDE		DEG	MIN	LONGITUDE		DAY	MO	YR	TIME (GMT)	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID	
457003.62	N	16	739	17	W	21	Aug	17	20	35								49	42	
SBE 9+	FLUOR S/N																			
PRESS SN	SBE43-Oxy (pri)																			
PRI TEMP SN	SBE43-Oxy (sec)																			
SEC TEMP SN	Transmissometer																			
PRI COND SN	PAR S/N																			
SEC COND SN	O2 Temp Sensor																			
WEATHER OBS:										SFC/Bottom Temp.										
REMARKS:										MAX. DEPTH = 7 off										
Size Martin Shack																				
Nis	DEPTH	Rosette Notes	Hydro Team-PMEL		Chloro		GFF		GFF		POB		FC		Flow		FA		PP	
No.	DESIRED	SALT	Nut. Btl	O2-Btl	NDIC/Alk	GFF Vol	>10 Large Vol	GFF Dup	V>10 dup	val	500 ml	Cum		Total		Sift		No.		
1	42		203	269																
2	30		204																	
3	20		205																	
4	10		206																	
5	0		207																	
6																				
7																				
8																				
9																				
10																				
11																				
12																				

208 Underway

Ledyard Bay 10

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Ledyard Bay Co

VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.							
Ocean Starr		OS 17-01		NPRB AIERB Leg1				Cape Liz Co							
CONSC CAST #	DEG	MIN	LONGITUDE	DEG	MIN	DAY	MO	YR	TIME (GMT)	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. SPD. (deg) (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
506935.02	N	16	54.50	W	22	Aug	17	04	15	.				37	
SBE 9+		FLUOR S/N		WEATHER OBS:		SFC/Bottom Temp.		MAX. DEPTH =							
PRESS SN		SBE43-Oxy (pri)		REMARKS:											
PRI TEMP SN		SBE43-Oxy (sec)		higher chlor 0.0 25											
SEC TEMP SN		Transmissomet													
PRI COND SN		PAR S/N													
SEC COND SN		O2 Tmp Sensor													

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL		SALT	Nut. Btl	O2-Btl	NDIC/Alk	Chloro	GFF	GEE Dup	V>10 dup	POF	FC	Flow	FA	PP	PP	S138	No.
			Nut. Btl	O2-Btl																
1	30		229					290						✓	✓				1	
2	20		230											✓	✓				2	
3	10		231											✓	✓				3	
4	0		232											✓	✓				4	
5																			5	
6																			6	
7																			7	
8																			8	
9																			9	
10																			10	
11																			11	
12																			12	

higher chlor 0.0 25

No 02, Sal

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VESSEL		CRUISE ID		PROJECT & LEG			CTD FileName:		STATION NO.				
Ocean Starr		OS 17-01		NPRB	AIERB	Leg			Cape Laz 4				
CONSC CAST #	LATITUDE		LONGITUDE			TIME (GMT)	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. SPD. (deg)	WIND D SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY								
526924	58	N	16500	00	W	2009	17	06	59			30	
SBE 9+			FLUOR S/N			WEATHER OBS:			SFC/Bottom Temp.		MAX. DEPTH =		
PRESS SN			SBE43-Oxy (pri)			REMARKS:							
PRI TEMP SN			SBE43-Oxy (sec)										
SEC TEMP SN			Transmissomet										
PRI COND SN			PAR S/N										
SEC COND SN			O2 Tmp Sensor										

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VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.											
Ocean Starr		OS 17-01		NPRB AIERB Leg 1				Pt Hope 8											
CONSC CAST #	DEG	MIN	LATITUDE	DEG	MIN	LONGITUDE	DAY	MO	YR	TIME (GMT)	HR	MIN	DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
536818	80	N	16655.84	W	22	1813	17	Aug	2011									32	
SBE 9+			FLUOR S/N			WEATHER OBS:				SFC/Bottom Temp.				MAX. DEPTH =					
PRESS S/N			SBE43-Oxy (pri)			REMARKS:				8 is inshore on this line, 1 is off shore									
PRI TEMP S/N			SBE43-Oxy (sec)			* Could not start sampler 1st try													
SEC TEMP S/N			Transmissometer			Started on deck did Soak, got cast ok													
PRI COND S/N			PAR S/N			but need to skip lined													
SEC COND S/N			O2 Temp Sensor			Size fraction sacks													

Nis No.	DEPTH DESIRED	Rosette Notes	Hydro Team-PMEL CANN		SALT	Nut. Btl	O2-Btl	N/DIC/AIK	Chlorophyll	GFF Vol	Large Vol	GFF Dup	V>10 dup	POP	FC	Flow	FA	PP	PP	Nis No.
			Nut. Btl	O2-Btl																
1	28								240						✓					1
2	20													✓					2	
3	10							✓						✓					3	
4	0							✓						✓					4	
5																			5	
6																			6	
7																			7	
8																			8	
9																			9	
10																			10	
11																			11	
12																			12	

O₂ 276 Surface

VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.								
Ocean Starr		OS 17-01		NPRB	AIERB	Leg		PT-Hupe 7								
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB	RH	Pressure	WIND DIRN.	WIND SPD.	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(%)	(mb)	(deg)	(kts)	(m)	
5468	14	62	16	07	10	22	Step 1	17	19	29					43	
SBE 9+	FLUOR S/N				WEATHER OBS:		SFC/Bottom Temp.		MAX. DEPTH =							
PRESS SN	SBE43-Oxy (pri)				REMARKS:											
PRI TEMP SN	SBE43-Oxy (sec)				Chla highest 10-28 m											
SEC TEMP SN	Transmissometer															
PRI COND SN	PAR S/N															
SEC COND SN	O2 Tmp Sensor															
Spg Machine Stack																
NIS	DEPTH	Rosette Notes	Hydro Team-PMEL		Chlorophyll	GFF		POB	FC	Flow	FA	PP	PP	NIS		
No.	DESIRED	SALT	Nut. Btl	O2-Btl	DIAPY	Large Vol	GFF-Btl	V-10	Top	Vol	500 ml	Carb	Tot	No.		
1	38	14	245		290	✓	500ml	—	—	—	—	—	—	1		
2	30		246		✓	500ml	—	—	—	—	—	—	—	2		
3	20		247		✓	300ml	—	—	—	—	—	—	—	3		
4	10		248		✓	300ml	—	—	—	—	—	—	—	4		
5	0		249		✓	300ml	—	—	—	—	—	—	—	5		
6														6		
7														7		
8														8		
9														9		
10														10		
11														11		
12														12		

Sal

[illegible]

[illegible]

[illegible]

VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.	
Ocean Starr		OS 17-01		NPRB AIERB Leg				PT slope 4	
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		WIND DIRN. SPD.	
		DEG MIN		DEG MIN		HR MIN		WIND DIRN. SPD. (deg) (kts)	
586800.78N		16757.80W		22 Sep 17		2308		51	
SBE 9+		FLUOR S/N		DAY MO YR		WEATHER OBS:		SFC/Bottom Temp.	
PRESS SN		SBE43-Oxy (pri)		22 Sep 17		Chlorophyll 10m (>4 µg/L)		MAX. DEPTH =	
PRI TEMP SN		SBE43-Oxy (sec)				REMARKS:			
SEC TEMP SN		Transmissometer							
PRI COND SN		PAR S/N							
SEC COND SN		O2 Temp Sensor							

Nis	DEPTH	Rosette Notes	Hydro Team-PMEL	Chloro	POC	Nis
No.	DESIRED	SALT	Nut. Btl	O2-Btl. NO	GFF Vol	No.
1	40	15	260	305	290	1
2	30		261	305		2
3	20		262			3
4	10		263			4
5	0		264			5
6						6
7						7
8						8
9						9
10						10
11						11
12						12

bottom clip loose on Niskin 1

17CKP-12A

VESSEL		CRUISE ID		PROJECT & LEG		CTD FileName:		STATION NO.	
Ocean Starr		OS 17-01		NPRB AIERB Leg 3				PT Hope 3	
CONSC CAST #		LATITUDE		LONGITUDE		TIME (GMT)		WIND DIRN. SPD.	
		DEG MIN		DEG MIN		HR MIN		(deg) (kts)	
596754.45N		16812.91W		23 Sept 17		0140		57	
SBE 9+		FLUOR S/N		DAY		MO		YR	
PRESS SN		SBE43-Oxy (pri)		23		Sept		17	
PRI TEMP SN		SBE43-Oxy (sec)							
SEC TEMP SN		Transmissometer							
PRI COND SN		PAR S/N							
SEC COND SN		O2 Temp Sensor							
WEATHER OBS:				SFC/Bottom Temp.				MAX. DEPTH = 53	
REMARKS:				Deploy 17CKP-12A				75	
				Chla max 15-32m					

Nis	DEPTH	Rosette Notes	SALT	Nut. Btl	O2-Btl	ND	Hydro Team-PMEL	Chloro	POP	FC	Flow	Nis
No.	DESIRED							GFF Vol	>10 Large Vol	GFF Dup	V>10 dup vol	No.
1	51-52			265	307			290		✓	Cam	1
2	40			266			✓			✓		2
3	30			267			✓			✓	✓	3
4	20			268			✓			✓		4
5	10			269			✓			✓		5
6	0			270			✓			✓		6
7												7
8												8
9												9
10												10
11												11
12												12

ophide at 54 (2m above bottom)

VESSEL		CRUISE ID		PROJECT & LEG				CTD FileName:		STATION NO.				
Ocean Starr		OS 17-01		NPRB		AIERB Leg2				PT Hope 2				
CONSC CAST #	LATITUDE		LONGITUDE			TIME (GMT)		DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. (deg)	WIND D SPD. (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	HR	MIN							
606747.22N	16835.62W	23 Sept	7	03	23								50	
SBE 9+	FLUOR S/N		WEATHER OBS:		SFC/Bottom Temp.		MAX. DEPTH = 44							
PRESS SN	SBE43-Oxy (pri)		REMARKS:		C max ~ 12									
PRI TEMP SN	SBE43-Oxy (sec)													
SEC TEMP SN	Transmissometer													
PRI COND SN	PAR S/N													
SEC COND SN	O2 Temp Sensor													

[illegible]

VESSEL Ocean Starr		CRUISE ID OS 17-01		PROJECT & LEG NPRB AIERB Leg2		CTD FileName:		STATION NO. P2 Hope 1				
CONSC CAST #	LATITUDE		LONGITUDE		TIME (GMT)		DRY BULB (°C)	RH (%)	Pressure (mb)	WIND DIRN. SPD. (deg) (kts)	BOTTOM DEPTH (m)	STA. NAME/ID
61	67	41.38	N	168	56.24	W	23	41	17	05	05	50
SBE 9+	FLUOR S/N		WEATHER OBS:		SFC/Bottom Temp.		MAX. DEPTH =					
PRESS SN	SBE43-Oxy (pri)		REMARKS:									
PRI TEMP SN	SBE43-Oxy (sec)		Chla higher above 33m									
SEC TEMP SN	Transmissometer											
PRI COND SN	PAR S/N											
SEC COND SN	O2 Tmp Sensor											

Nis	DEPTH	Rosette Notes		Hydro Team-PMEL		Chloro			POC		Nis
No.	DESIRED		SALT	Nut. Btl	O2-Btl	Nitrate	GFF Vol	>10 Large Vol	GFF Dup	V>10 dup vol	Flow Cam
1	43			276		✓	290				✓
2	30			277		✓					✓
3	20			278		✓					✓
4	10			279		✓					✓
5	0			280		✓					✓
6											
7											
8											
9											
10											
11											
12											

308 Sfc